Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

Project Information

Project ID: PR-RGRW-03747

Project Name: Agricola Lopez LLC

Responsible Entity: Puerto Rico Department of Housing

Grant Recipient (if different than Responsible Entity): same as above

State/Local Identifier: Puerto Rico / Municipio of Villalba

Preparer: Angel Peltola, Deputy Program Manager

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Consultant (if applicable): SWCA Environmental Consultants

Direct Comments to: PR Department of Housing, environmentcdbg@vivienda.pr.gov

Project Location:

The proposed project is located on a 30.89-acre parcel (Castradal Number 294-000-004-78-000) at Carretera 151 Interior KM 553 Bo. Caonillas Arribav, Villalba, Puerto Rico 00766, 18.137859, -66.454588 (see **Appendix A, Figure 1**- Site Location and **Figure 2**- Site Vicinity).

This agricultural property is in a rural area in the central portion of Villalba Municipio. Access to the project areas is provided via a paved road that follows the southwestern boundary of the parcel. All proposed project activities are in the southern portion of the parcel.

The applicant has identified multiple locations for project activities related for the Intended Use of Grant Funds that are being evaluated under this Environmental Assessment, also shown on Figures 1 and 2:

- Greenhouse Option 1(18.137460, -66.454488) is in the southern part of the parcel, approximately 518 feet (ft) southeast of the southern entrance to the property.
- Greenhouse Option 2(18.137588, -66.454523) is in the southern part of the parcel, approximately 16 ft north of Greenhouse Option 1.
- Solar Panel Option 1 (18.137223, -66.454288) is in the southern part of the parcel, south of Greenhouse Option 1.
- Area of Potential Water Connection (18.138016, -66.45476) is in the southern part of the parcel, north of Greenhouse Option 1.

Description of the Proposed Project [24 CFR 58.32; 40 CFR 1508.25]:

The proposed project involves installing a new hydroponic greenhouse, new solar panels, and utility lines. The utility lines will be purchase by the applicant and are not part of the Intended Use of Grant Funds (IUGF); however, the proposed area where the utility lines will be placed is the route that delivery and construction vehicles will clear for installation.

The proposed greenhouse is approximately 3,072 square feet (sq ft) (96 ft by 32 ft) with a maximum height of approximately 17 ft with an outer shell that is an impermeable surface suited for greenhouses. The greenhouse will be constructed on a concrete base with a maximum depth of 2 ft and will be secured with 12 supporting poles, each 8 ft apart that will be anchored in the ground through 8 inch (in) diameter holes that extend 2 ft deep.

The solar panels will be placed on a platform right next to the greenhouse (the "identified space") in a configuration that meets the requirements of the solar company and will provide electricity for the greenhouse via aboveground cables. An area south, southeast, and directly east of Greenhouse Option 1 was environmentally cleared at the time of this review because the solar panel company had yet to visit the property to determine the best location and configuration for the solar panels. Because this environmental review is able to achieve a Finding of No Significant Impact (FONSI) with the entire identified space for the solar panels under consideration, the configuration decided on the solar panel company is not expected to pose any environmental impacts/effects and the panels can be placed anywhere within the allotted space (18.137223, -66.454288). The maximum area of disturbance for the solar panel platform will be approximately 700 sq ft within an identified space that is 170 ft by 187 ft (31,775 sq

ft [0.729 acres]). The platform will have a maximum depth for posts and other ground disturbing activities of 2 ft.

Both greenhouse site options and the reviewed solar panel area are sloped and will require grading and vegetation clearing. Additionally, access to the sites for delivery and construction of the structure and solar panels will require tree and vegetation clearing and/or removal. It is estimated that a maximum of 75 trees may be affected if unavoidable by the project.

All water connections will be made from the water meter 34 ft southwest of the southern entrance to the parcel to the existing irrigation system. The new water lines will be $\frac{1}{2}$ in wide PVC pipes that will be approximately 465 ft long by 4 ft wide with a maximum depth of 2ft. The existing water source is supplied by municipal water from the Puerto Rico Aqueducts and Sewers Authority (PRASA). The exact route the waterlines will take from the water meter to the greenhouse is not yet known; therefore, the maximum route for the lines was assessed and it was determined that the environmental impacts remain the same no matter where they are installed within the identified area (midpoint: 18.138016, -66.45476).

The applicant is in an ownership agreement for the property; therefore, no acquisition is required.

Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

In September of 2017, Hurricanes Irma and María produced sustained winds and intense rainfall that decimated agricultural production across the island of Puerto Rico. These hurricanes caused the loss of eighty percent of crop value island wide, exacerbating challenges to food security and agricultural business development. The Puerto Rico Department of Agriculture (PRDA) estimated seven hundred and eighty million dollars (\$780 million) worth of damages from the hurricanes to the agricultural sector of the economy.

Many properties were damaged in Hurricane Maria, resulting in struggling businesses. The Re-Grow Puerto Rico Urban-Rural Agriculture Program (Re-Grow Program) will develop greater agricultural capacity and address the needs created by Hurricanes Irma and María with a substantial investment of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds for a wide variety of viable and sustainable agricultural activities.

Agricultural capacity and strong food systems are fundamental to resiliency of economies and, as Puerto Rico's entire agriculture sector was devastated by the Hurricanes, this Program is designed to revitalize this industry. The Re-Grow Program is an integral part of the long-term expansion of jobs in the sector, food security and contributing to overall economic recovery of disaster impacted populations.

The applicant does not have the resources to purchase farming equipment and materials for their agricultural operation nor has the applicant received any other outside source of funding for the project. The new greenhouse will help increase the agricultural production of the applicant. The new solar panel will provide electricity to the greenhouse. The project as a whole will support continued local agricultural production during future disasters.

Agencies consulted for the proposed project are provided in the *List of Sources, Agencies* and *Persons Consulted* section of this Environmental Assessment (EA). Further discussion of the environmental impacts of the proposed action and alternatives is provided in the *Cumulative Impact Analysis, Alternatives/No Action Alternative,* and *Summary of Findings* and *Conclusions* sections of this EA.

Existing Conditions and Trends

This property is an established farm. The project area where the greenhouse and solar panels will be installed is sloped and vegetated. The surrounding area is rural and used for agricultural purposes. In the absence of this project, the surrounding area would not be able to be self-sufficient in agriculture as intended by the ReGrow program.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001 B-18-DP-72-0001 B-19-DP-78-0002 B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162,230

Estimated Total HUD Funded Amount: \$108, 411.00

Estimated Total Funded by Applicant Amount: \$141.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$108,552.00

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
STATUTES, EXECUTIVE ORDERS,	AND REGULATIO	ONS LISTED AT 24 CFR 58.6
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	The project site is not within 2,500 ft of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or commercial service airport, Mercedita, is located 59,053 ft (11 miles [mi]) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is 186,822 ft (35 mi) from the project site. No further evaluation is required. The project is in compliance with airport hazards requirements.
		The Airport Hazards Partner Worksheet and Airport Hazards Map (Figure B 1-1) are provided in Appendix B, Attachment 1.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No	The project site is not within a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). There are no CBRS units in Villalba. The closest CBRS unit, Rio Descalabrado, is located 52,618 ft (10 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act. The Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map (Figure B 2-1) are provided in Appendix B, Attachment 2.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No	A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C1140J (effective date 11/18/2009), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in

STATUTES, EXECUTIVE ORDERS, A	AND REGULATIO	compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act. The Flood Insurance Partner Worksheet and FIRM (Figure B 3-1) are provided in Appendix B, Attachment 3.
Clean Air	Yes No	The project site is in Villalba Municipio,
Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93		which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Municipios in Nonattainment or Maintenance areas include Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan and Toa Baja. Project activities include new construction of a greenhouse, solar panel array, and utility lines. The project is not anticipated to have a negative impact on air quality. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds. No further evaluation is required. The project is in compliance with the Clean Air Act.
		The Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map (Figure B 4-1) are provided in Appendix B, Attachment 4.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No	The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is located 46,364 ft (9 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act. The Coastal Zone Management Partner Worksheet and Coastal Zone Map (Figure B 5-1) are provided in Appendix B, Attachment 5.

Contamination and Toxic	Yes No	The project site was evaluated for
Substances 24 CFR Part 58.5(i)(2)		potential contamination by conducting a field site inspection on 11/03/2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc.
		The site inspection did not identify any onsite hazards, stained soil or vegetation and the project is in compliance with contamination and toxic substances requirements.
		Although the project includes activities that may not be exempt, PRDOH consulted with HUD and both parties determined that the recommended best practices and alternative options for radon testing are unfeasible and impractical (see Radon Agency Correspondence and Memorandum).
		In addition, a desktop review of USEPA databases, NEPAssist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The parcel was previously a forested area and the land has been converted to for agricultural use within the past 20 years. The project is located in a rural area of Villalba Municipio and will continue to be used for agricultural purpose.
		The desktop review did not find any of the above-listed toxic, hazardous or radioactive substances in or within 3,000 feet of the project area. The project is in compliance with contamination and toxic substances requirements.

		The Contamination and Toxics Substances Partner Worksheet, Radon Agency Correspondence and Memorandum, and Contamination and Toxic Substances Map (Figure B 6-1) are provided in Appendix B, Attachment 6. The environmental site inspection is provided in Appendix C.
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No	The project involves activities that have the potential to affect protected species or habitats including but not limited to activities such as ground disturbance, vegetation removal, and potential tree removal. Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool. In addition, critical species habitat was reviewed through the USFWS IPaC and Critical Habitat Portal. The review identified four federally listed species: Puerto Rican broad-winged hawk (Buteo platypterus brunnescens), Puerto Rican parrot (Amazona vittate), Puerto Rican boa (Chilobothrus inornatus), and the Puerto Rico Harlequin Butterfly (Atlantea tulita) with the potential to occur within the project area; the closest final designated critical habitat within the project area; the closest final designated critical habitat is located 68,728 ft (13 mi) away. The project activities will result in ground disturbing activities, including site clearance and grading, construction of a new greenhouse and a solar panel array. A qualified biologist reviewed the proposed activity location(s) and determined that the project will have no effect on the Puerto Rican parrot, Puerto Rican Harlequin Butterfly or designated critical habitat. Due to the

		generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present throughout the review area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the USFWS 2024 General Project Design Guidelines for the Puerto Rican boa. As such, it is anticipated that the project may affect, but is not likely to adversely affect the Puerto Rican boa. USFWS was consulted, and that they acknowledged the receipt of the Dkey NLAA consistency letter on June 20, 2024. If a Puerto Rican Boa is found in the project action site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the CM shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa. The Endangered Species Act Partner Worksheet, Threatened and Endangered Species Technical Memorandum with IPaC, Critical Habitat Map (Figure B 7-1) are provided in Appendix B, Attachment 7.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	The project includes the new construction of a greenhouse, a solar panel array, and utility lines. The project itself is not the development of a hazardous facility nor will the project increase residential densities. No further evaluation is required. The project is in compliance with explosive and flammable hazard requirements. The Explosive and Flammable Hazards Partner Worksheet is provided in Appendix B, Attachment 8.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly	Yes No	This project does not include any activities that could potentially convert agricultural land to non-agricultural use. Per the USGS/NRCS Web Soil Survey, the

sections 1504(b) and 1541; 7 CFR Part 658		project area crosses one mapped soil series: QeE2 (Quebrada silty clay loam, 20-40 percent slopes, eroded). No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of onfarm structures needed for farm operations. No further review is required. The project is in compliance with the Farmland Protection Policy Act. The Farmlands Protection Partner Worksheet and Prime Farmland Map (Figure B 9-1) are provided in Appendix B, Attachment 9.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No	An Advisory Base Flood Elevation (ABFE) map was developed by FEMA, which shows the project sites are in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The project is in compliance with Executive Order 11988, as amended by Executive Order 13690 particularly section 2(a); 24 CFR Part 55. PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Villalba; therefore, PFIRM information was not available for the area and therefore not considered in the review. HUD implemented new floodplain regulations under 89 FR 30850 effective June 24, 2024 which created the Federal Flood Risk Management
		proposed project is located in the municipality of Villalba; therefore, PFIR information was not available for the area and therefore not considered in the review. HUD implemented new floodplain regulations under 89 FR 30850 effectiv

		approach used for this project to comply with the FFRMS. The Floodplain Management Partner Worksheet and ABFE Floodplain Map (Figure B 10-1) are provided in Appendix B, Attachment 10.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No	· =
		Resources Map, are provided in Appendix B, Attachment 11.

Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No	The project activities are limited to constructing a new greenhouse, solar panels, and utility lines and do not involve residential new construction or rehabilitation. No further evaluation is required. The project is in compliance with HUD's noise regulation.
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No	According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act. The Sole Source Aquifer Partner Worksheet and Sole Source Aquifer Map (Figure B 15-1) are provided in Appendix B, Attachment 15.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	The project site was reviewed for wetlands using the USFWS Wetland Inventory Mapper and a visual confirmation during the field site inspection. The riverine wetland (shown as an NHD stream on Figure B 12-1) is located approximately 25 ft east of the solar panel platform at its closest point and will not be affected by project activities if best management practices, such as silt fencing and erosion control, are implemented during any ground-disturbing activities. No further evaluation is required. The project is in compliance with Executive Order 11990. The Wetlands Protection Partner Worksheet and Wetland Map (Figure B 12-1) are provided in Appendix B, Attachment 12.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No	A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Villalba Municipio. The closest Wild and Scenic River segment is located 235,187 ft (45 mi) from the project site. No further

		evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act. The Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map (Figure B 13-1) are provided in Appendix B, Attachment 13.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No	The ReGrow Program intends to alleviate negative economic impacts to, and strengthen, the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by improving agricultural use and production. The project would not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The project is in compliance with Executive Order 12898.
		Worksheet and EJScreen Report are provided in Appendix B , Attachment 14 .

Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. All conditions, attenuation or mitigation measures have been clearly identified.

Impact Codes: Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact May require mitigation
- **(4)** Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning /	2	The project site location(s) is classified as Rural General land use. The proposed action is continued agricultural use of property, which is compatible with zoning and existing land use.
Scale and Urban Design		Construction actions include minor improvements which increase the current function of the existing land use. There is no change in land use since the land will continue to be used for agriculture purposes. The project site is in a rural area of Villalba Municipio, and project activities will not contribute to urban sprawl.
		The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The project includes the construction of a greenhouse, a solar panel array, and utility lines. Soil suitability will be assessed prior to construction and will be addressed during local permitting processes. Contractors will be required to use best management practices during construction to control erosion and prevent runoff. The soil is currently being used for agriculture purposes.
		Landslide data from the U.S. Geological Survey (USGS) indicates less than 25 landslides per square kilometer for the project area (see Appendix A, Figure 3- USGS Landslide Map). Department of Natural and Environmental Resources (DNER) authorization is required for any extraction, removal, excavation, and dredging of the components of the earth's crust.

Hazards and Nuisances including Site Safety and Noise	2	The project includes the construction of a greenhouse, a solar panel array, and utility lines. Contractors will be required to provide health and safety plans and monitoring during construction. Noise levels will temporarily increase during construction; however, program activities are limited to the existing farm property and will not elevate ambient noise levels long-term. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours and to the hours established in the Regulation for Noise Control and Pollution in Puerto Rico. Additionally, the project does not include housing to where inhabitants would be affected.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC	,	
Employment and Income Patterns	2	The project includes the construction of a greenhouse, a solar panel array, and utility lines.
		The project is not anticipated to have a significant impact on employment and income patterns; however, the project may help restore employment opportunities and income patterns.
Demographic 2 Character	The project includes the construction of a greenhouse, a solar panel array, and utility lines.	
Changes, Displacement		The project is located in a rural area in Villalba Municipio and will not alter the demographics or character of the surrounding community. Project activities will not result in any direct or indirect displacement of individuals or families.
Environmental Justice	2	The project includes the construction of a greenhouse, a solar panel array, and utility lines.
		The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by providing space and electricity to grow produce to sell. The project will not facilitate development that would negatively affect human health or result in disproportionate adverse

	environmental impacts to low-income or minority
	populations (see EJ Screen Report in Attachment 15).

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILIT	IES AND SER	VICES
Educational and Cultural Facilities	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines on private land and will not contribute to any change in educational or cultural facilities or affect access to or capacity of educational or cultural facilities.
Commercial Facilities	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines. The proposed project will increase agricultural production, resulting in a net positive impact to the applicant's farm commercial output and a positive benefit to surrounding commercial enterprises who purchase and sell the produce; however, the project will not put undue pressure on commercial facilities.
Health Care and Social Services	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines on private land and will not affect access to or capacity of health care and social services.
Solid Waste Disposal / Recycling	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines. The proposed project may cause an increase in short-term generation of solid waste during construction. All construction debris will be disposed of at the proper facilities for the debris type (i.e., construction waste). The project will not contribute to long-term needs or changes to solid waste disposal and recycling.
Wastewater / Sanitary Sewers	2	The construction of a greenhouse, a solar panel array, and utility lines is not expected to result in significant changes in wastewater or sanitary sewer generation. Sewage will not be generated from the project. No new wastewater or sanitary sewer connections are required for this project.

Water Supply	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines. The proposed project activities are not expected to result in significant changes to water supply. The applicant is connected to municipal water and utilizes an aqueduct system. The new greenhouse will get water from the same source via underground PVC pipes. The applicant should obtain authorization from PRASA or AAA prior to expanding the connections.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines on private land and will not affect public safety concerns such as police, fire, and emergency medical services.
Parks, Open Space and Recreation	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines on private land and will not result in any changes to access or use of parks, open space, and recreation areas.
Transportation and Accessibility	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines on private land and will have no relation to transportation services. The proposed activities will not result in any changes in transportation and accessibility.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines.
		Rio Toa Vaca runs along the southeastern boundary of the applicant's property. No construction or project activities will occur within the waterbody or affect quality or access to Rio Toa Vaca. Best management practices, such as silt fencing and erosion control, as well as the dense tree and vegetation coverage between the project area and the river will minimize impacts to Rio Toa Vaca.

Vegetation, Wildlife	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines.
		The project area is primarily undisturbed; there is thick vegetation and the land surrounding the project is heavily wooded. The delivery route and project area may require some tree removal. A maximum of 75 trees may be affected if unavoidable.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERG	Υ	
Climate Change Impacts	2	The proposed project includes the purchase and installation of a new greenhouse, a solar panel array, and utility lines.
		The proposed ReGrow program project aims to increase resiliency in the agricultural industry to prepare for future climate related disasters, including drought. The Climate Mapping for Resilience and Adaptation Assessment tool (https://resilience.climate.gov/#assessment-tool) provides historical and future climate data for five common climate-related hazards (extreme heat, drought, wildfires, flooding, and coastal inundation). The data model for the census tract that includes application location does not indicate a significant increase in hazard risks from climate change for drought, wildfire, or flooding, when comparing historical data (1976-2005) to future projections. The model projects a greater number of days where temperatures will exceed 90 degrees Fahrenheit after 2015, which is a systemic trend in the model across the Island.
		The specific activities proposed for this economic development project are limited in scale and land impacts. The proposed greenhouse and solar panel construction activities are for individual farm use and will not result in a significant increase in electricity or water draw. The greenhouse/irrigation

		system used will allow the applicant to control the water to the crops and will reduce the amount needed compared to open air farming which often results in higher evapotranspiration. The equipment that will be used during construction and operation will also be limited to occasional use at this specific land parcel, and therefore will not generate a significant amount of greenhouse gas.
Energy Efficiency	2	The project will not result in significant additional energy consumption as it involves only the construction of a greenhouse, a solar panel array, and utility lines using self-powered construction equipment on an existing farm and will not require any expansion to existing power facilities.

Additional Studies Performed:

No additional studies were performed.

Field Inspection (Date and completed by):

Field inspection completed on November 3, 2023 by Delise Torres-Ortiz, SWCA Environmental Consultants.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

Department of Natural and Environmental Resources (DNER). 2023. Puerto Rico DNER Species Ranges – under construction. Accessed December 7, 2023. Available at: https://arcg.is/1S9aju0.

Federal Aviation Administration (FAA). 2022. National Plan for Integrated Airport Systems 2023-2027. Accessed January 31, 2023. Available at: <u>National Plan of Integrated Airport Systems (NPIAS) 2023-2027</u>, <u>Appendix B: National and State Maps (faa.gov)</u>.

Federal Emergency Management Agency (FEMA). 2023. FEMA Flood Map Service Center - Map Panel 72000C1140J (effective 11/18/2009). Accessed December 7, 2023. Available at: https://msc.fema.gov/portal/home.

Institute of Puerto Rican Culture (ICP). 2023. San Juan, Puerto Rico. Data collection conducted on November 3, 2023.

National Oceanic and Atmospheric Administration (NOAA) Office for Coastal Management. 2023. Puerto Rico Coastal Zone Boundary. Accessed December 7, 2023. Available at: Puerto Rico Coastal Vulnerability Viewer (arcgis.com).

State Historic Preservation Office (SHPO). 2023. San Juan, Puerto Rico. Data collection conducted on November 7, 2023.

U.S. Environmental Protection Agency (USEPA). 2022a. Envirofacts Mapper. Air pollution data (ICIS-AIR), Brownfields, Hazardous Waste (RCRAInfo), Superfund National Priorities List (NPL), Toxic Releases Inventory (TRI), and National Pollutants Discharge Elimination Systems (NPDES). Accessed December 7, 2023. Available at: https://geopub.epa.gov/arcgis/rest/services/EMEF/efpoints/MapServer.

USEPA. 2022b. Sole Source Aquifer Map. Accessed February 23, 2024. Available at: https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=9ebb047ba3ec41ad a1877155fe31356b.

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List of Permits Obtained:

No permits have been obtained.

Public Outreach [24 CFR 58.43]:

Puerto Rico Department of Agriculture has worked closely with the agricultural community. In compliance with the National Environmental Policy Act (NEPA) regulations for HUD, the public will be notified of the project through publication of the combined Finding of No Significant Impact (FONSI) – Notice of Intent to Request Release of Funds (NOI-RROF) notice with a 15-day public comment period.

Cumulative Impact Analysis [24 CFR 58.32]:

The installation of a greenhouse and solar panels at the project site is not anticipated to have a negative impact on environmental resources. None of the environmental assessment factors nor the regulations reviewed in the above checklist resulted in negative environmental impacts. Overall, the project will have a net positive impact by helping a small business increase their capacity for agricultural production. No other planned or ongoing projects were identified in the project vicinity that could contribute to cumulative impacts of environmental resources.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

Within the boundaries of the property, other locations could be considered for the new greenhouse, solar panel array, and utility lines. However, other locations may require greater environmental impacts such as additional ground disturbance, grading for slopes that are not suitable for installation or additional tree clearing and would result in higher costs to the applicant.

No Action Alternative [24 CFR 58.40(e)]:

Under the No Action Alternative, the applicant would not receive federal funding to construct a new greenhouse, a solar panel arrays, and utility lines. Consequently, the applicant may not be able to recover and continue agricultural production. Given the degree of need for greater agricultural capacity in Puerto Rico following Hurricanes Irma and María, the costs of foregoing the project would exceed the benefits.

Summary of Findings and Conclusions:

The proposed project would not result in any adverse impacts to the surrounding natural, historical, and water resources; generate significant air or noise pollution; or promote environmental or socioeconomic injustices. The proposed project is not located within a coastal zone or near a major water resource.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law, Authority, or Factor	Mitigation Measure
Endangered Species	General Condition:
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	If a Puerto Rican Boa (Boa) is found in the project activity site, work shall cease until the Boa moves off site on its own. If the Boa does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Boa.
	If a Puerto Rican Parrot (Parrot) is found in the project activity site, work shall cease until the Parrot moves off site on its own. If the Parrot does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Parrot.
	If a Puerto Rican Broad-Winged Hawk (Hawk) is found in the project activity site, work shall cease until the Hawk moves off site on its own. If the Hawk does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Hawk.
	If a Puerto Rican Harlequin Butterfly (Butterfly) is found in the project activity site, work shall cease until the Butterfly moves off site on its own. If the Butterfly does not move off site, the construction manager shall contact the Puerto Rico DNER to relocate the Butterfly.
	The USFWS has developed the following conservation measures for the Boa:
	1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A preconstruction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational

- poster or sign with photo or illustration of the species should be displayed at the project site.
- 2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
- 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
- 4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). Do not capture the boa. If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior. Last Revised: January 2024
- 6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.
- 7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery

left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.

- 8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

The USFWS has developed the following conservation measures for bird species in case an encounter occurs:

1. All personnel will be advised that there are civil and criminal penalties for harming, harassing, or killing species protected under the Endangered Species Act of 1973, as amended. During breeding seasons (see below), nest surveys shall be conducted if a project occurs within the range of any of the species listed above and if habitat for

those species will be impacted by the proposed actions. Nest searches must be conducted by qualified personnel with the appropriate permits from the Puerto Rico Department of Natural and Environmental Resources (PRDNER) prior to start of work. If nesting activity is detected, all construction activities or human disturbance must be avoided within a 50-meter buffer around any nest(s) found within the project area. This avoidance strategy must be kept until fledglings successfully leave the nest(s) permanently.

- Breeding Seasons:
- Puerto Rican parrot: February-June.
- Puerto Rican broad-winged hawk: December-June.
- 2. Outside the breeding season no nest surveys are required, but if a nest is encountered, all construction activities or human disturbance must be avoided within a 50-meter buffer around that nest(s). This avoidance strategy must be kept until fledglings successfully leave the nest(s) permanently. Furthermore, if any of the species indicated above is observed (e.g., foraging, resting) within the project area, avoid any disturbance to the individual(s) and do not flush the bird until it leaves on its own.
- 3. For all nest sightings, the Applicant must record the time and date of the sighting and the specific location where it was found. All sightings and incidental lethal take reports should be sent to the USFWS Caribbean Ecological Services Field Office at Caribbean_es@fws.gov. For questions, the Point of Contact (POC) is José Cruz-Burgos, Endangered Species Program Coordinator, and can be contacted at:

□ Mobile: 305-304-1386
□ Office phone: 786-244-0081
□ Office Direct Line: 939-320-3120
□ Email: jose_cruz-burgos@fws.gov

The USFWS has developed the following conservation measures for the

Puerto Rican Harlequin Butterfly species in case an encounter occurs:

- 1. All project construction personnel must be informed about the potential presence of the PR harlequin butterfly or its occupied host plant, prickly bush (Oplonia spinosa), in the project areas and the need to avoid harming the species and its occupied host plant. All personnel will be advised that there are civil and criminal penalties for harming, harassing, or killing species protected under the Endangered Species Act. Educational material (e.g., posters, flyers, or signs with photos or illustrations of all the life stages of the PR harlequin butterfly (i.e., eggs, caterpillar, chrysalis, and adult) as well as its host plant, should be prepared and available to all personnel for reference.
- 2. Before starting any project activity, including removal of vegetation and earth movement, the boundaries of the work area in the field clearly delineate to avoid unnecessary habitat impacts. Once the project areas are clearly marked, and before any work activity, including site preparation, personnel with knowledge and ability to identify the PR harlequin butterfly (all life stages) and the prickly bush must survey the areas where the work will be performed for the presence of the species and its host plant. It is important to note that the PR harlequin butterfly can be observed year-round in all its life stages; thus, oviposition (egg-laying) may occur at any time during the year.
- 3. If the prickly bush is present on the project site, try to avoid cutting it off, even if no eggs, caterpillars, or chrysalis are present.
- 4. If there is no prickly bush within the project area, and the butterfly is observed flying within the project area, do not harass, harm, pursue, wound, kill, trap, capture, collect, or attempt to engage in any such conduct, the species.
- 5. Adult butterflies are often observed flying near the host plant as part of their mating behavior and laying eggs. Project-related activities must stop if the prickle bush is found in the project area and the PR harlequin butterfly is observed flying in that same area where the plan is located. A temporary 50-meter (164 feet) buffer zone of no activity or human disturbance should be established and clearly

marked around that prickly bush until the butterfly moves out on its own.

- 6. Once the PR harlequin butterfly has moved away, within a period of 24 to 36 hours, a search of the prickly bush that has been buffered should be conducted to determine the presence of eggs, caterpillars, or chrysalids of the butterfly on the plant. The contractor or the Applicant should send a report of the observation and its findings to caribbean_es@fws.gov after the 36-hour search is concluded.
- 7. If, after the initial search or after the 24 to 36-hour search, any life stage of the PR harlequin butterfly is found in the prickly bush, take the following actions: o Clearly mark the host plant with flagging tape. February 2024 o Establish a 10-meter (32-foot) buffer zone around the bush to protect it. o Eggs are typically found on the prickly bush's newly grown, tender branches. Once an egg hatches, the caterpillar moves and feeds throughout the plant. Therefore, avoid cutting off the prickly bush within the project site even if no eggs, caterpillars, or chrysalids are present. o Work within the 10-meter buffered area may resume when no signs of any live life stage of the butterfly are detected, which usually takes approximately 60 to 120 days.
- 8. For all PR harlequin butterfly sightings (all life stages), the time and date of the sighting and the specific location where the butterfly was found must be recorded. Data should also include a photo of the butterfly (if possible) and the habitat where it was observed, site GPS coordinates, and comments on how the butterfly was detected and its behavior. All PR harlequin butterfly sighting reports should be sent to the U.S. Fish and Wildlife Service, Caribbean Ecological Service Field Office at caribbean es@fws.gov.
- 9. For questions regarding the PR harlequin butterfly, the Point of Contact is: José Cruz-Burgos, Threatened and Endangered Species Program Coordinator:

o Mobile: 305-304-1386

o Office phone: 786-244-0081 o Office Direct Line: 939-320-3120

	o Email: jose_cruz-burgo
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	General Condition: If historic properties are discovered, unanticipated effects on historic properties are found, or cultural materials are encountered, work should cease in the immediate area; work can continue where no historic properties or cultural materials are present. Please contact PRDOH to consult on further actions that may be necessary to protect historic properties or cultural materials.
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	The proposed action is continued agricultural use of property, which is compatible with the existing land use. The applicant and/or construction manager is required to obtain any necessary local and territorial building and environmental permits prior to construction activities commencing.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Soil suitability will be assessed prior to construction. Contractors will be required to use best management practices during construction. DNER authorization is required for any extraction, removal, excavation, and dredging of the components of the earth's crust.
Vegetation, Wildlife	DNER authorization is required for pruning. The landowner and/or the contractor will contact the Permit Management Office to determine permits and authorizations required prior to construction.
Hazards and Nuisances including Site Safety and Noise	Contractors will be required to provide health and safety plans and monitoring during construction. Contractors will be required to comply with the applicable local noise ordinances. Noise impacts will be mitigated by restricting construction activities to daylight hours and to the hours established in the Regulation for Noise Control and Pollution in Puerto Rico.
Solid Waste Disposal / Recycling	All construction debris will be disposed of at the proper facilities for the debris type (i.e. construction waste).

Water Supply	The applicant is required to obtain authorization or permits from Prasa and/or AAA prior to expanding water connections.
Wetlands Protection	Best management practices, such as silt fencing and erosion control, will be implemented during any ground-disturbing activities.

Determination:

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27] The project will not result in a significant impact on the quality of the huma environment.
Finding of Significant Impact [24 CFR 58.40(g)(2); 40 CFR 1508.27] The project may significantly affect the quality of the human environment.
Preparer Signature:
Certifying Officer Signature:
Abdul X Feliciano Plaza Permits and Environmental Specialist

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).

Appendix A Project Overview Figures

Figure 1 Site Location Map

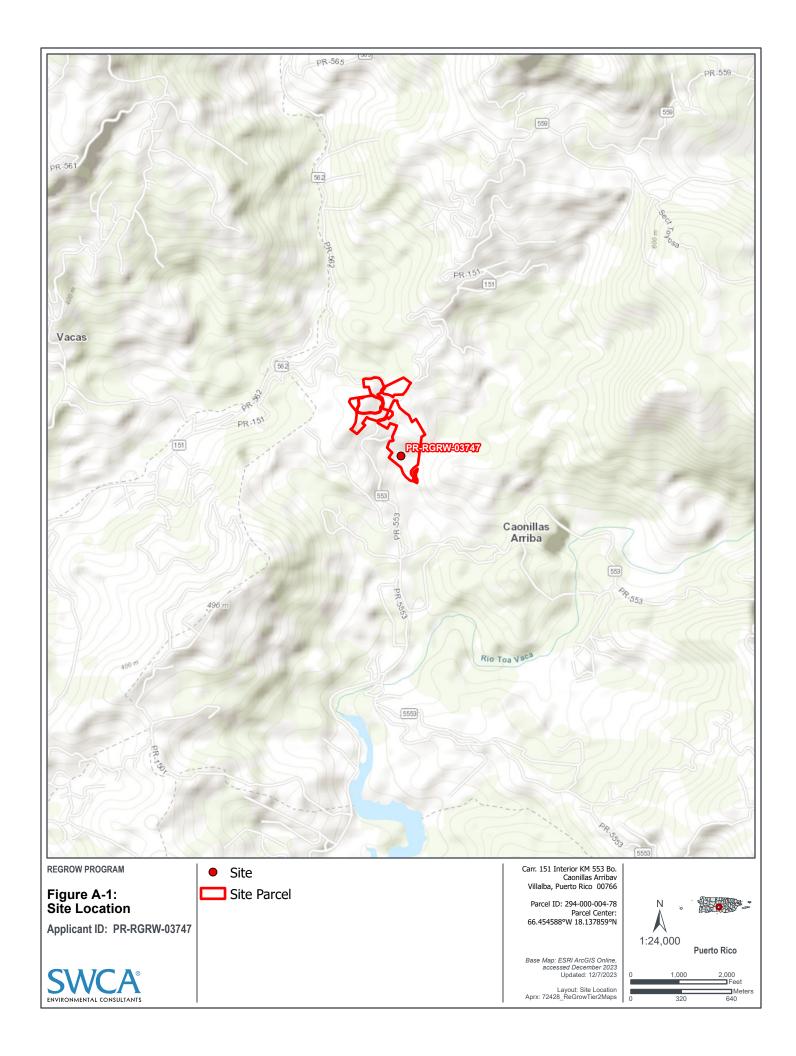


Figure 2 Site Vicinity Map

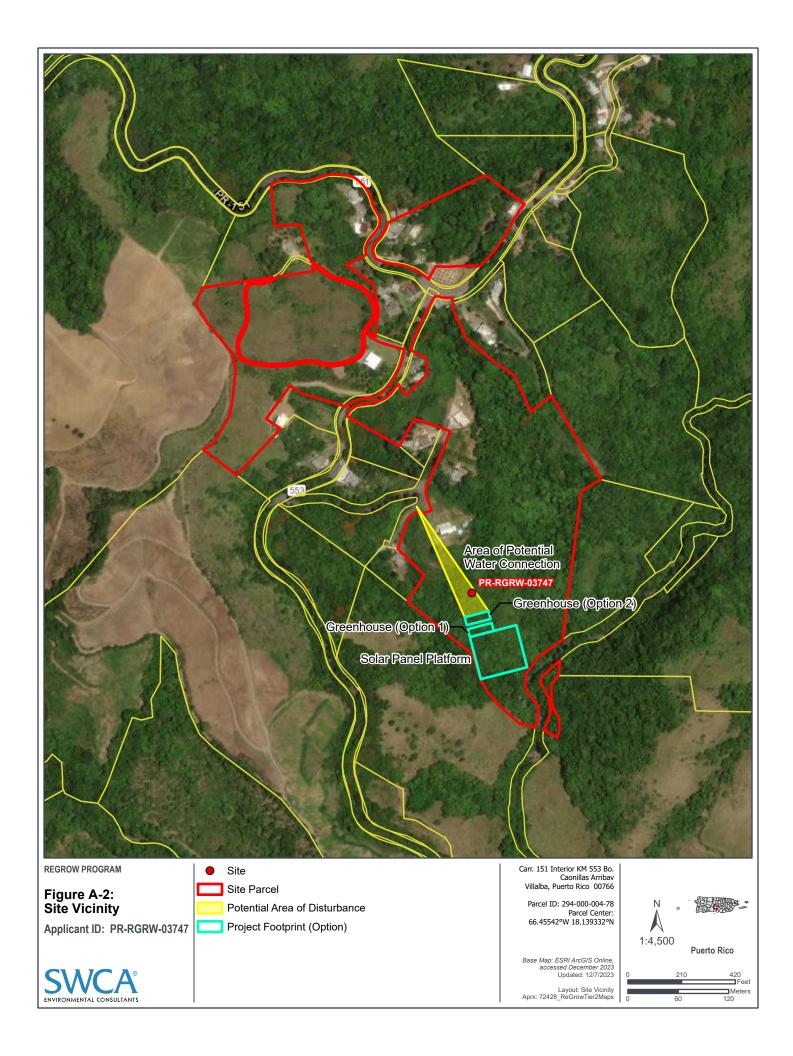
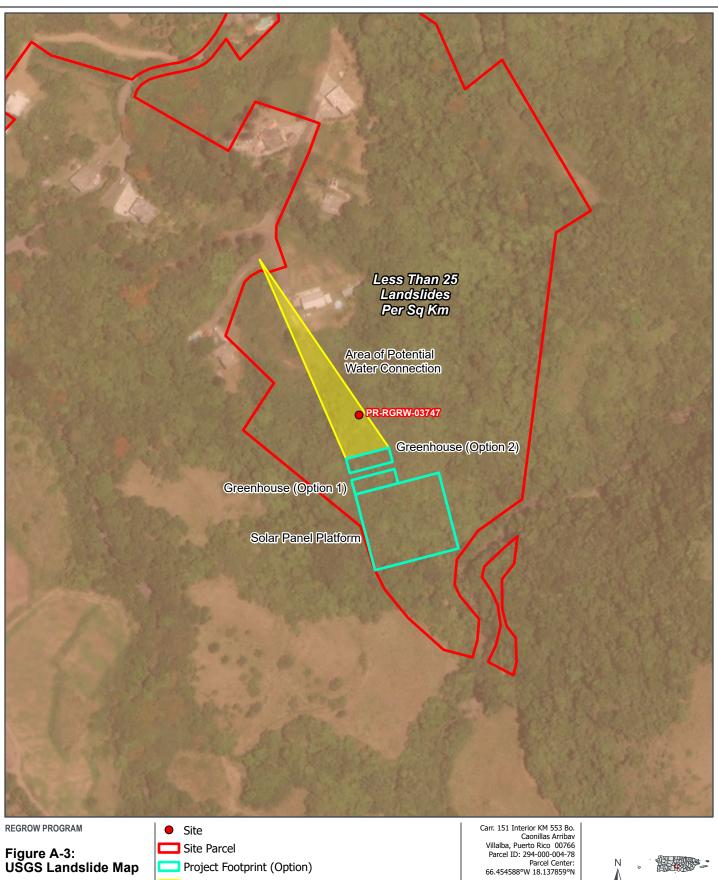


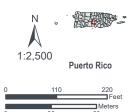
Figure 3 USGS Landslide Map



Applicant ID: PR-RGRW-03747

Potential Area of Disturbance Greater than 25 Landslides per sq km Less than 25 Landslides per sq km No Landslides Not Examined

Data Source: https://arcgis.cuahsi.org/ arcgis/rest/services/MariaRAPID/ Hurricane_Maria_Landslides/ MapServer Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 12/7/2023 Layout: Landslide



Appendix B Attachments and Supporting Documentation

Attachment 1 Airport Hazards Partner Worksheet and Airport Hazards Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD

ver	sion of the V	Vorksheet.					
Ai	rport Ha	zards (CEST and EA) – PARTNER					
<u>ht</u>	tps://www	.hudexchange.info/environmental-review/airport-hazards					
1.		compatible land use development, you must determine your site's proximity to civil and irports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian					
	⊠No à	If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.					
	□Yes à	Continue to Question 2.					
2.	Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?						
	□Yes, project is in an APZ à Continue to Question 3.						
	□Yes, pro	ject is an RPZ/CZ à <i>Project cannot proceed at this location</i> .					
	à If th Coi	ect is not within an APZ or RPZ/CZ e RE/HUD agrees with this recommendation, the review is in compliance with this section. ntinue to the Worksheet Summary below. Continue to the Worksheet Summary below. evide a map showing that the site is not within either zone.					
3.	Is the proj	ect in conformance with DOD guidelines for APZ?					
	à If the	ject is consistent with DOD guidelines without further action. e RE/HUD agrees with this recommendation, the review is in compliance with this section. ntinue to the Worksheet Summary below. Provide any documentation supporting this rermination.					
		project cannot be brought into conformance with DOD guidelines and has not been ed. à <i>Project cannot proceed at this location.</i>					

If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

Click here to enter text.

à Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project site is not within 2,500 ft of a civil primary or commercial service airport or within 15,000 ft of a military airport. The nearest civil primary or commercial service airport, Mercedita, is located 59,053 ft (11 miles [mi]) from the project site. The nearest military airport, Luis Munoz Marin International Airport, is located 186,822 ft (35 mi) from the project site. No further evaluation is required. The project is in compliance with airport hazards requirements.



Figure B 1-1: Airport Hazards Map

Applicant ID: PR-RGRW-03747



Accident Potential Zones (APZ)

Runway Protection Zones (RPZ)

」2,500-FT Civil Airport Buffer

15,000-FT Military Airport Buffer

Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.283941°W 18.219661°N

Data Source: https://geodata.bts.gov/ Base Map: ESRI ArcGIS Online, accessed December 2023

Updated: 12/7/2023 Layout: Airport Hazards Aprx: 72428_ReGrowTier2Maps



Attachment 2 Coastal Barrier Resources Act Partner Worksheet and Coastal Barrier Resources Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

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Coastal Barrier Resources (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental-review/coastal-barrier-resources

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

1. Is the project located in a CBRS Unit?

☑No à If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.

 \square Yes à Continue to 2.

<u>Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project.</u> In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see <u>16 USC 3505</u> for exceptions to limitations on expenditures).

2. Indicate your recommended course of action for the RE/HUD

☐ Consultation with the	e FWS
☐ Cancel the project	

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

he project site is not located in a Coastal Barrier Resource Systems Unit (CBRS) or Otherwise Protected Area (OPA). There are no CBRS units in Villalba. The closest CBRS unit, Rio Descalabrado, is located



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52,618 ft (10 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Barrier Resources Act.



Figure B 2-1: Coastal Barrier Resources Map

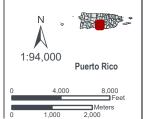
Applicant ID: PR-RGRW-03747



Site
Otherwise Protected Area
System Unit

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.457983°W 18.065481°N

Data Source: https://cbrsgis.wim. usgs.gov/arcgis/rest/servicesi/Coastal Barrier/Resources/System/MapServer Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 12/17/2023 Layout: Coastal Barrier Resources System



Attachment 3 Flood Insurance Partner Worksheet and Flood Insurance Rate Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT WASHINGTON, DC 20410-1000

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Flood Insurance (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental-review/flood-insurance

	if it with the description of the first of t
ı.	oes this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or onstruction of a structure, mobile home, or insurable personal property? No. This project does not require flood insurance or is excepted from flood insurance. à Continue to the Worksheet Summary.
	☑Yes à Continue to Question 2.
2.	rovide a FEMA/FIRM map showing the site. he Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service enter provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).
	the structure, part of the structure, or insurable property located in a FEMA-designated Special lood Hazard Area? No à Continue to the Worksheet Summary.
	Yes à Continue to Question 3.
3.	the community participating in the National Flood Insurance Program <i>or</i> has less than one year assed since FEMA notification of Special Flood Hazards?
	Yes, the community is participating in the National Flood Insurance Program. Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance. à Continue to the Worksheet Summary.
	Yes, less than one year has passed since FEMA notification of Special Flood Hazards. If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required. à Continue to the Worksheet Summary.
	No. The community is not participating, or its participation has been suspended. Federal assistance may not be used at this location. Cancel the project at this location.

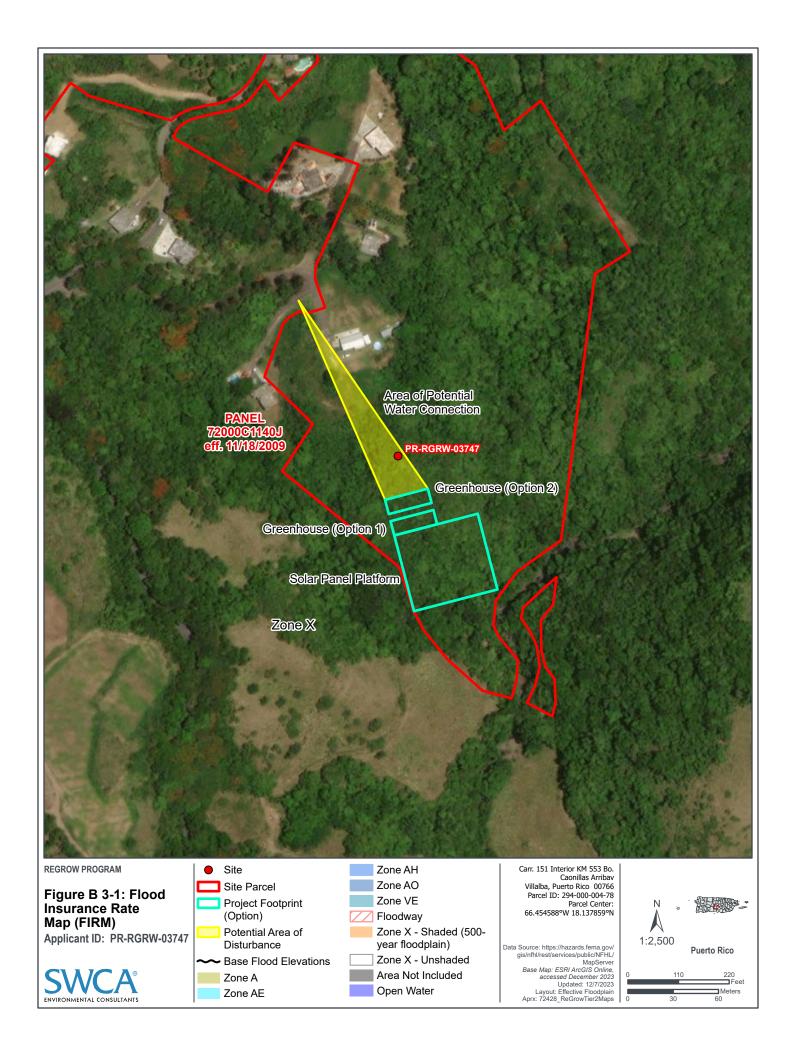
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

A review of the FEMA Flood Insurance Rate Map (FIRM), Community Panel 72000C1140J (effective date 11/18/2009), shows the project site is in Flood Zone X, which is not in a Special Flood Hazard Area (SFHA). Flood insurance is not required. No further evaluation is required. The project is in compliance with the Flood Disaster Protection Act and National Flood Insurance Reform Act.



Attachment 4

Air Quality Partner Worksheet, List of Non-Attainment/Maintenance Status Counties in Puerto Rico, and Clean Air Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

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Air Quality (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental-review/air-quality

1.	Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?
	\square Yes \rightarrow Continue to Question 2.
	$oxed{\boxtimes}$ No $oldsymbol{ o}$ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.
2.	Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?
	Follow the link below to determine compliance status of project county or air quality management district:
	http://www.epa.gov/oaqps001/greenbk/
	☐ No, project's county or air quality management district is in attainment status for all criteria pollutants
	→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.
	☐ Yes, project's management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.
3.	Determine the <u>estimated emissions levels of your project for each of those criteria pollutants</u> that are in non-attainment or maintenance status on your project area. Will your project exceed any of the <i>de minimis or threshold</i> emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?
	☐ No, the project will not exceed <i>de minimis</i> or threshold emissions levels or screening levels
	→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed de minimis or threshold emissions

☐ Yes, the project exceeds <i>de minimis</i> emissions levels or screening level.		Yes,	the r	project	exceeds	de	minimis	emissions	levels	or scre	ening	level	S
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- → Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.
- 4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

Click here to enter text.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project site is in Villalba Municipio, which is within a U.S. Environmental Protection Agency (USEPA) designated attainment area. Municipios in Nonattainment or Maintenance areas include Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan and Toa Baja. Project activities include new construction of a greenhouse and solar panels. The project is not anticipated to have a negative impact on air quality. Emissions associated with the proposed actions are temporary and limited to the use of small construction equipment and will be well below the Federal General Conformity Rule de minimis thresholds. No further evaluation is required. The project is in compliance with the Clean Air Act.



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

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

Data is current as of January 31, 2024

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 µg/m³) 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)

~	GO
	~

Important Not	es		D	ownload Nationa	al Dataset: dbf	xls	Data diction	nary (PDF)
County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FIPS Codes
PUERTO RI	CO							
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 192021222324	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)		18192021222324	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Salinas PR	18192021222324	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	52,441	72/137

Important Notes

Discover. Connect. Ask.

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2024-01-31



Figure B 4-1: Clean Air Map

Applicant ID: PR-RGRW-03747

SWCA® ENVIRONMENTAL CONSULTANTS

8-Hour Ozone (2015 Standard)*

Lead (2008 Standard)

PM-2.5 (2012 Standard)*

Sulfur Dioxide (2010 Standard)

*No Data in Puerto Rico

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.480487°W 18.240141°N

Data Source: https://geopub.epa.gov/ arcgis/rest/services/NEPAssist/ NEPAVELayersPublic. fgdb/MapServer Base Map: ESRI ArcGlS Online, accessed December 2023 Updated: 1277/2023 Layout: Clean Air Aprx: 72428_ReGrowTier2Maps





Attachment 5 Coastal Zone Management Partner Worksheet and Coastal Zone Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Coastal Zone Management Act (CEST and EA) – PARTNER

https://www.onecpd.info/environmental-review/coastal-zone-management

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas	
Alaska	Alaska Georgia		New Hampshire	Oregon	Virgin Islands	
American	Guam	Maryland	New Jersey	Pennsylvania	Virginia	
Samona	Samona					
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington	
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin	
Delaware	Indiana	Minnesota	Northern	South Carolina		
			Mariana Islands			

- 1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?
 - \Box Yes \rightarrow Continue to Question 2.

 \Box Yes \rightarrow

- ⋈ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.
- 2. Does this project include activities that are subject to state review?
 - □No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.
- 3. Has this project been determined to be consistent with the State Coastal Management Program?

 ☐Yes, with mitigation. → The RE/HUD must work with the State Coastal Management

Program to develop mitigation measures to mitigate the impact or effect of the project.

 \square Yes, without mitigation. \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

 \square No \rightarrow Project cannot proceed at this location.

Continue to Question 3.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project site is not located within the Puerto Rico Coastal Management Zone. The closest coastal zone area is located 43,364 feet (9 mi) from the project site. No further evaluation is required. The project is in compliance with the Coastal Zone Management Act.

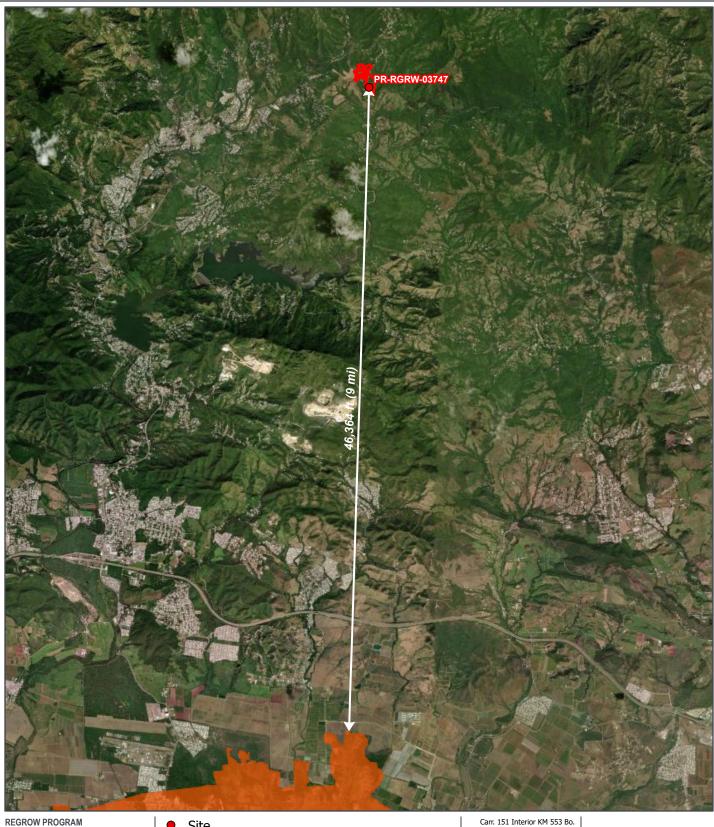


Figure B 5-1: Coastal Zone Management Map

Applicant ID: PR-RGRW-03747

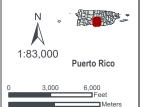


Site

Coastal Management Zone

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.456649°W 18.07405°N

Data Source: https://coast.noaa.gov/ arcgis/rest/services/Hosted/ Coastal/ZoneManagementAct/ Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 127/72023 Layout: Coastal Zone Management Aprx: 72428_ReGrowTier2Maps



Attachment 6

Contamination and Toxics Substances Partner Worksheet, Radon Agency Correspondence and Memorandum, and Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

https://www.hudexchange.info/programs/environmental-review/site-contamination

1.	How was site contamination evaluated? 1 Select all that apply.						
	☐ ASTM Phase I ESA						
	☐ ASTM Phase II ESA						
	☐ Remediation or clean-up plan						
	☐ ASTM Vapor Encroachment Screening						
	None of the above None of the a						
	à Provide documentation and reports and include an explanation of how site contamination was						
	evaluated in the Worksheet Summary.						
	Continue to Question 2.						
2.	Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect						
	the health and safety of project occupants or conflict with the intended use of the property?						
	(Were any recognized environmental conditions or RECs identified in a Phase I ESA and						
	confirmed in a Phase II ESA?)						
	⊠ No à Explain below.						
	The Environmental Site Inspection and Desktop Review did not reveal any potential contamination or hazards.						
	à If the RE/HUD agrees with this recommendation, the review is in compliance with						
	this section. Continue to the Worksheet Summary below.						
	\square Yes à Describe the findings, including any recognized environmental conditions (RECs),						
	in Worksheet Summary below. Continue to Question 3.						
3.	Can adverse environmental impacts be mitigated?						

¹ HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

	☐ Adverse environmental impacts cannot feasibly be mitigated → <u>HUD assistance may not be</u> used for the project at this site. Project cannot proceed at this location.					
	☐ Yes, adverse environmental impacts can be eliminated through mitigation. à Provide all mitigation requirements² and documents. Continue to Question 4.					
4.	Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls ³ , or use o institutional controls ⁴ . Click here to enter text.					
	If a remediation plan or clean-up program was necessary, which standard does it follow? ☐ Complete removal					
	\square Risk-based corrective action (RBCA)					
	à Continue to the Worksheet Summary.					

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project site was evaluated for potential contamination by conducting a field site inspection on 11/03/2023 to identify any onsite hazards including, but not limited to, soil staining, above ground storage tanks, signs of underground storage tanks, odors, hazardous debris etc. The site inspection did not identify any onsite hazards that could not be resolved with mitigation (see Appendix C-Environmental Site Inspection Report).

In addition, a desktop review of USEPA databases, NEPAssist, and other sources was conducted to determine if the project site was located near dump sites, junk yards, landfills, hazardous waste sites, or industrial sites, including USEPA National Priorities List Sites (Superfund sites), CERCLA or state-

² Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

³ Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

⁴ Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.

equivalent sites, RCRA Corrective Action sites with release(s) or suspected release(s) requiring clean-up action and/or further investigation. The desktop review did not find any of the above-listed toxic, hazardous or radioactive substances in or within 3,000 feet of the project area that could affect the health and safety of project occupants or conflict with the intended use of the property. The project is in compliance with contamination and toxic substances requirements.

Radon Attachments



August 20, 2024

Mrs. Carmen R. Guerrero Pérez Caribbean Environmental Protection Division City View Plaza II - Suite 7000 #48 Rd. 165 km 1.2 Guavnabo, PR 00968-8069

Vía email: guerrero.carmen@epa.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerlo Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerlo Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

Community Planning and Development (CPD) Notice CDP-23-103. This Notice emphasizes the importance of radon testing and milligation in ensuring safe living environments, particularly in HUD-assited properties. PRDOH, as the grantee of the Community Development Block Grant for Disaster Recovery and Milligation (CDBG-DR/MII), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MII programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any milligation efforts within the Islands of Puerto Rico. Rico.

Specifically, we are seeking for possible availability of the following information

 $\underline{Radon\ testing\ data} - Results\ from\ radon\ testing\ conducted\ within\ your\ agency's\ purview,\ including\ details\ on\ location,\ testing\ methods,\ and\ recorded\ radon\ levels.$

Barbosa Ave. #606, Building Juan C. Cordero Davila, Rio Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (787) 274-2527 | www.nivenda.pr.gov



August 20, 2024

Dr. Silvina Cancelos College of Engineering
University of Puerto Rico – Mayagüez Campus 259 Norte Blvd. Alfonso Valdés Cobián Mayagüez, Puerto Rico

Vía email: silvina.cancelos@upr.edu

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Specifically, we are seeking for possible availability of the following information:

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Barbosa Ave. #606 , Building Juan C. Cordeto Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (767) 274-2527 | https://doi.org/10.1002/j.com/noenda.pr.g.gg/

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
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Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or miligation.

<u>Policies and quidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

<u>Historical data</u> – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements, if some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

llmn (rez Rodfiguez, Esq.

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
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Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

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Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely.

My Rodríguez, Esq.

Dr. Carlos Marín, carlos,marin3@upr.edu



August 20, 2024

Dr. Jessica Irizarry Director Office of Island Affairs U.S. Centers for Disease Control and Prevention 1324 Cll Canada, San Juan, 00920 Guaynabo, PR 00968-8069

Via email: OIA@cdc.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

This Notice emphasizes the importance of radon testing and mitigation in Inis Notice emphasizes the importance of radon testing and miligation in ensuring safe living environments, particularly in HUD-assisted properties. PRDOH, as the grantee of the Community Development Block Grant for Biosaster Recovery and Miligation (CDBG-DR/MIT), is responsible for ensuring compliance with environmental requirements under CDBG-DR/MIT programs. To fulfill our obligations under this Notice, we must compile comprehensive and up-to-date information on radon levels, testing practices, and any miligation efforts within the islands of Puerto Rico.

Specifically, we are seeking for possible availability of the following

 $\frac{Radon\ testing\ data}{Results} - Results\ from\ radon\ testing\ conducted\ within\ your\ agency's\ purview,\ including\ details\ on\ location,\ testing\ methods,\ and\ recorded\ radon\ levels.$

Barbosa Ave. #606 , Building Juan C. Cordero Dávila, Río Piedras, PR 00918 | PO Box 21365 San Juan, PR 00928-1365 Tel. (787) 274-2527 | www.vijenda.pr.gov



August 20, 2024

Mrs. Anais Rodriguez Secretary
Puerto Rico Department of Natural Resources Carretera 8838, km, 6.3, Sector El Cinco, Río Piedras San Juan, PR 00926

Via email: anais.rodriquez@drna.pr.gov

RE: Request for Information regarding available data on radon testing

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Specifically, we are seeking for possible availability of the following

Radon testing data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or mitigation.

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CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Ric
Page 2 /

agency has produced or commissioned that address radon testing or mitigation.

<u>Policies and guidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

<u>Historical data</u> – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. If some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

D. Rodríguez, Esq

CD8G-DR/MIT Pro Request for Information in relation with HUD CPD-23-103 for Puerl

<u>Policies and guidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

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Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

William O. Rodríguez Rodríguez, Esq.

Secretary

Mr. Luis Márquez, <u>secretariaaire@drna.pr.gov</u> Eng. Amarilys Rosario, <u>aire@drna.pr.gov</u> Mrs. Elid Ortega, <u>eortega@drna.pr.gov</u>



August 20, 2024

Dr. Carlos R. Mellado López Secretary Puerto Rico Department of Health PO Box 70184 San Juan, PR 00936-8184

Vía email: drcarlos.mellado@salud.pr.gov

RE: Request for Information regarding available data on radon testing nd levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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Specifically, we are seeking for possible availability of the following information

Radon Iestling data – Results from radon testing conducted within your agency's purview, including details on location, testing methods, and recorded radon levels.

Reports and assessments – Any reports, studies, or assessments your agency has produced or commissioned that address radon testing or

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August 20, 2024

Mrs. Holly Weyers Regional Director, Southeast – Puerto Rico US Geological Survey 3916 Sunset Ridge Road Raleigh, NC 27607

Vía email: hsweyers@usgs.gov

RE: Request for Information regarding available data on radon testing and levels within Puerto Rico

The Puerto Rico Department of Housing (PRDOH) kindly requests your assistance in gathering data, information, or reports related to radon testing in Puerto Rico, as this information is crucial for our compliance with the U.S. Department of Housing and Urban Development (HUD) Community Planning and Development (CPD) Notice CDP-23-103.

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CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Roo

<u>Policies and guidelines</u> – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

This information is vital to ensure that our radon management strategies are practical and compliant with federal requirements. It some of this information may be sensitive or confidential, we are prepared to discuss any necessary agreements or protocols for sharing this data securely.

Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative.

Sincerely.

Ladriguez Rodriguez, Esq.

Mr. Raúl Hernández Doble, rhernandez2@salud.pr.gov

CDBG-DR/MIT Program
Request for Information in relation with HUD CPD-23-103 for Puerto Rico
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Policies and guidelines – Information or any policy, guideline, or protocol your agency follows concerning radon testing, exposure limits, or mitigation.

Historical data – if available, historical data or trends in radon levels within the regions you monitor that may impact HUD-assisted housing.

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Please let us know if you require additional details or have any questions regarding this request. We would greatly appreciate your response by September 15, 2024, so we can incorporate this data into our ongoing compliance efforts.

Thank you in advance for your cooperation and support. We look forward to working together on this critical initiative

Sincerely

Ariauez Rodriguez, Esq.

Mr. R. Randall Schumann, rschumann@usgs.gov

From: Charp, Paul (CDC/NCEH/DEHSP) <pac4@cdc.gov>

Sent: Tuesday, September 3, 2024 6:36 AM

To: Miranda, Sandra (CDC/PHIC/DPS); Irizarry, Jessica (CDC/PHIC/DPS); Rzeszotarski, Peter

(CDC/NCEH/DEHSP); Vinson, D. Aaron (CDC/NCEH/DEHSP)

Cc: Kostak, Liana (CDC/PHIC/DPS); Vazquez, Germaine (CDC/NCEH/DEHSP)

Subject: RE; REHi: Puerto Rico Request for Information- Randon testing and levels

Good morning, Sandra and others,

In response to the request from Mr. William Rodriguez of the Department of Housing, Government of Puerto Rico, I have reviewed all the available data within the CDC National Environmental Public Health Tracking Network system for data related to radon in Puerto Rico. In addition to the tracking data available on the internet, I also reached out to Mr. Aaron Vinson of the NCEH Tracking Branch.

I was not able to find any data in the CDC systems and this was confirmed by Mr. Vinson. We also reached out the US Environmental Protection Agency who indicated they had no radon data in their systems. Please relay this information to Mr. Rodríguez in your response to his requests

If you have any additional questions, please contact me.

Thank you and best regards,

Paul A. Charp, Ph.D., Fellow, HPS
Senior Health Physicist
Emerging Environmental Hazards and Health Effects Branch (EEHHEB)
Division of Environmental Health Science and Practice (DEHSP)
National Center for Environmental Health (NCEH)
Centers for Disease Control and Prevention (CDC)
pcharp@cdc.gov
770-488-0723 office
404.388.0614 Cell



From: Schumann, R. Randall <rschumann@usgs.gov>

Sent: Wednesday, August 21, 2024 4:39 PM

To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Weyers, Holly S <hsweyers@usgs.gov>
Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A.

Rivera-Vazquez <aarivera@vivienda.pr.gov>

Subject: RE: Request for Information- Radon testing and levels

Dear Ms. Medina Smaine,

In the early 1990s the U.S. Geological Survey (USGS) conducted geologic assessments of radon potential for all 50 states and the territories of Guam and Puerto Rico, in collaboration with the U.S. EPA. I conducted the geologic radon potential assessment for Puerto Rico. The PDF file of the report is too large to attach to this message but it can be obtained at https://pubs.usgs.gov/of/1993/0292k/report.pdf. The USGS did not conduct indoor radon testing and we did not conduct field studies associated with this assessment; it was based on existing data. Mr. David Saldana of the Puerto Rico Department of Health kindly provided us with data for 610 homes that were tested for indoor radon by his agency between 1993 and 1995, which are summarized in the report. I am not aware of any other radon-related geologic studies conducted in the Commonwealth of Puerto Rico by the U.S. Geological Survey.

Best regards,

R. Randall Schumann
Scientist Emeritus
U.S. Geological Survey
Geociences and Environmental Change Science Center
Denver, Colorado, USA
rschumann@usgs.gov
https://www.usgs.gov/staff-profiles/r-randall-schumann

From: Raul Hernandez Doble <rhernandez2@salud.pr.gov>

Sent: Wednesday, August 21, 2024 2:13:31 PM

To: Melanie Medina Smaine <mmedina@vivienda.pr.gov>; Dr. Carlos Mellado <drcarlos.mellado@salud.pr.gov> Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez <aarivera@vivienda.pr.gov>; Mayra Toro Tirado <mtoro@salud.pr.gov>

Subject: RE: [EXTERNAL] Request for Information- Randon testing and levels

Good afternoon, Ms. Medina

I regret to inform that we do not have any recent information on radon testing, since we do not have a certified radiation laboratory certified for radon testing. There are companies that sell test kits available online that can be done and mailed to a testing laboratory. There are also lists of radon contractors and these companies that process radon testing cartridges with instructions, on the Environmental Protection Agency Indoor air Quality web page. The last radon study in Puerto Rico done by the PR Department of Health was done on the year 1993.

Raul Hernandez Doble
Director, Seccion Salud Radiologica
Division de Salud Ambiental
Secretaria Auxiliar para la Vigilancia y la Proteccion de la Salud Publica
rhernandez2@salud.gov.pr

Phone: (787)765-2929 ext. 3210

From: Reyes, Brenda <Reyes.Brenda@epa.gov> Sent: Wednesday, September 18, 2024 11:48 AM

To: Cesar O Rodriguez Santos <cesarrodriguez@drna.pr.gov>; Maritza Rosa Olivares <maritzarosaolivares@drna.pr.gov>;

Silvina Cancelos Mancini <silvina.cancelos@upr.edu>; Melanie Medina Smaine <mmedina@vivienda.pr.gov>

Cc: Elaine Dume Mejia <Edume@vivienda.pr.gov>; Luz S Colon Ortiz <Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez

<aarivera@vivienda.pr.gov>; Povetko, Oleg (he/him/his) <Povetko.Oleg@epa.gov>

Subject: RE: Request for Information- Randon testing and levels

Saludos.

La EPA esta trabajando una respuesta a su petición. Se sometió borrador a la directora y el subdirector para su aprobación y firma.

Brenda Reyes Tomassini
Public Affairs
U.S. EPA
Region 2
Caribbean Environmental Protection Division
(787) 977-5869/(787) 977-5865
Mobile: 202-834-1290

From: Silvina Cancelos Mancini <silvina.cancelos@upr.edu>

Sent: Friday, September 6, 2024 15:04

To: Melanie Medina Smaine < mmedina@vivienda.pr.gov >

Cc: Elaine Dume Mejia < Edume@vivienda.pr.gov>; Luz S Colon Ortiz < Lcolon@vivienda.pr.gov>; Aldo A. Rivera-Vazquez

<a href="mailto:Aarivera@vivie

<<u>Reyes.Brenda@epa.gov</u>>; Povetko, Oleg <<u>Povetko.Oleg@epa.gov</u>>

Subject: Re: Request for Information- Randon testing and levels

Estimada Melanie Medina

Quería dejarle saber que recibimos su correo el 21 de agosto al igual que el de Maritza Rosa el pasado 4 de septiembre. Ya las personas involucradas de EPA, junto conmigo y el Dr. Marín estamos al tanto del asunto y estamos trabajando para poder enviarles la información.

Atentamente

Silvina Cancelos Professor Associate Director Mechanical Engineering Department University of Puerto Rico - Mayaguez Call BOX 9000 Mayaguez PR 00680 Tel: 787-832-4040 ext 5956 email: silvina.cancelos@upr.edu



Bubble Dynamics Lab



September 23, 2024

VIA EMAIL

William O. Rodríguez Rodríguez, Esq. Secretary
Puerto Rico Department of Housing
Barbosa Ave. 606 Building Juan C. Cordero
San Juan, PR 00917
Email: W.Rodriguez@vivienda.pr.gov

EPA Response to August 20, 2024 request for information of data on radon testing and levels in Puerto Rico

Dear Honorable Secretary Rodríguez Rodríguez

This communication is in response to your letter of August 20, 2024 addressed to the Puerto Rico Department of Natural and Environmental Resources (DNER) and referred to the U.S. Environmental Protection Agency (EPA) regarding available data on radon testing and levels within Puerto Rico

EPA's National Radon Action Plan 2021–2025 sets a goal for the nation to find, fix and prevent high indoor radon levels in 8 million buildings by 2025 and prevent 3,500 lung cancer deaths per year. Under this Plan, leaders from across multiple sectors are working together to plan, guide, and sustain nationwide action to prevent exposure to radon.

Due to the lack of data in Puerto Rico, EPA undertook an investigation in collaboration with the University of Puerto Rico-Mayaguez (UPRM) Campus, Departments of Civil Engineering and Surveying and Mechanical Engineering, to find out if radon presented a problem in Puerto Rico. Up until 2021, the only data we had for Puerto Rico was a 1993-1995 mail-in radon screening study referred to by the U.S. Geological Survey report (USGS, 1995) in which the USGS concluded that several areas of Puerto Rico have the geologic potential to generate indoor radon levels exceeding the EPA Action Level of 4 pC/L (piccouries per liter), perhaps locally reaching very high levels above 50 pC/L, if a house construction and

ventilation allow for soil-gas radon to enter and concentrate within the structure. ¹ According to the USGS report, most of these areas are located in the northwest part of the island. Please note that the actual 1993-1995 study documentation is not available to the EPA.

Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered devices) are impractical in Puerto Rico because of high humidity and power outages. The recovery and rebuilding of communities following the aftermath of 2017 Hurricanes Irms and Maria presented an opportunity to develop radon prevention and mitigation strategies in 2019. Initially, EPA sampled indoor radon air in over 170 single-family residences in the municipalities of San Sebastian, Lares, Ciales, Arecibo, Morovis, Camuy, and Hatillo and later expanded the project to other municipalities such as Rincon, Aguada, Aguadalli, stabela, Questradillas, Barecloneta and Vega Baja. The quality assurance protocols were anchored in American National Standards institute/American Association of Radon Scientists and Technologists (ANSI/AARS) standards of practice (ANSI/AARS) 1939. The sampling was designed in two stages: scoping and confirmatory sampling. The scoping sampling was conducted using Corentium Home (CH) electronic monitors and E-Perm ystems. Locations measuring above the EPA Action Level of 4 pCI/L with CH were measured at the second stage of the sampling using RAD7 and Corentium Pro Continuous Radon Monitors (CRMs). Nationally certified and on sampling professionals led by one such professional form the UPRM conducted confirmatory sampling in the second stage. Also, during the study, the nationally certified radon mitigation professionals inspected several homes with elevated indoor radon levels. Typical radon testing technology used in mainland United States (charcoal canisters or electric-powered levels.

Mapping radon in Puerto Rico proved to be a complicated endeavor given the COVID-19 pandemic in wapping fault in Puter to Nico proved to de Econipactace enceasing general telesconding particular 2020. EPA and UPM continue to work on the project, however, results have not been finalized, and no scientific report has been published yet. Unfortunately, EPA cannot share preliminary data at this time because it contains privileged information. Nevertheless, preliminary data from the study does show homes with levels over 4 pCi/L (EPA Action Level) that might need mitigation to protect the health of their inhabitants.

Although many states have developed laws and regulations governing radon disclosure, certification, and mitigation, Puerto Rico lacks legislation or mandatory radon testing provisions for new construction, remodeling, selling or buying homes. Given this loophole and aiming to answer your request, the EPA can provide information on Best Management Practices for sampling indoor radon in Puerto Rico.

CITY VIEW PLAZA II BUILDING, 7TH FLOOR ROUTE 165 GUAYNABO, PR 00968

If you have any questions or need any additional information, please contact me at 787-977-5865 or guerrero.carmen@epa.gov or have your staff contact Reyes, Brenda at reyes.brenda@epa.gov or (787) 977-5869.

Sincerely,

CARMEN **GUERRERO** PEREZ

Digitally signed by CARMEN GUERRERO PEREZ Date: 2024.09.23 09:41:39 -04'00'

Carmen R. Guerrero Pérez Director

Roberto Mendez, Esq (Acting Secretary, PR Department of Natural and Env. Resources)

Melany Medina: mmedina@vivienda.pr.gov Elaine Dume Mejia: Edume@vivienda.pr.gov Luz S Colon Ortiz: Lcolon@vivienda.pr.gov
Aldo A. Rivera-Vazquez: aarivera@vivienda.pr.gov Cesar O. Rodriguez: cesarrodriguez@drna.pr.gov Marita Rosa Olivares: maritzarosaolivares@drna.pr.gov

¹ Reference: USGS. Geologic Radon Potential of Guam and Puerto Rico, Report 93-292-K, Washington, DC: USGS. Retrieved 9/11/2024, from https://pubs.usgs.gov/of/1993/0292k/report.pdf.



Memorandum to File

Date: September 30, 2024

From: Allyson Rezac

Deputy Program Manager

CDBG-DR Program

Re-Grow PR Urban-Rural Agriculture Program, Grant number B-17-DM-72-0001 &

B-18-DP-72-0001

Puerto Rico Department of Housing

Application Number: PR-RGRW-03747

Project: Agricola Lopez LLC

Re: Justification for the Infeasibility and Impracticability of Radon Testing

After reviewing Application Number PR-RGRW-03747 under the Re-Grow PR Urban-Rural Agriculture Program, administered by the Puerto Rico Department of Housing (**PRDOH**), to complete the property's contamination analysis in accordance with 24 C.F.R. § 50.3(i) and 24 C.F.R. § 58.5(i), we have determined that testing the property's radon levels is infeasible and impracticable.

Per the U.S. Department of Housing and Urban Development's (**HUD**) CPD Notice 23-103, the recommended best practices and alternative options for radon testing are infeasible and impracticable in this case due to the following reasons:

- As required by the CPD Notice 23-103, the scientific data reviewed in lieu of testing must consist of a minimum of ten documented test results over the previous ten years. If there are less than ten documented results over this period, it is understood that there is a lack of scientific data. The latest report for radon testing in Puerto Rico was prepared in 1995 by the U.S. Department of the Interior in Cooperation with the U.S. Environmental Protection Agency. No other completed studies and reports on radon testing are available in Puerto Rico.
- There is no available science-based or state-generated information for Puerto Rico for the last ten years that can be used to determine whether the project site

CDBG-DR Program
Re-Grow PR Urban-Rural Agriculture Program
Memorandum to File
Infeasibility and Impracticability of Radon Testing
Page 2 of 2

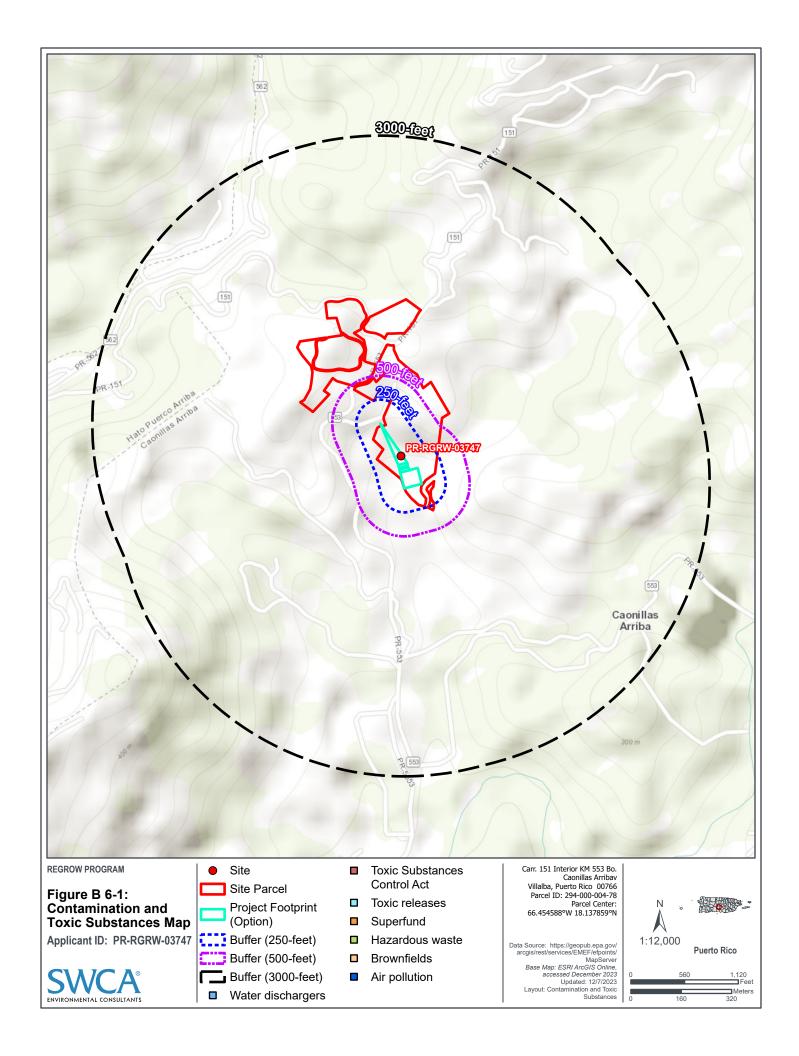
is in a high-risk area. The Department of Health and Human Services, Centers for Disease Control and Prevention (**CDC**), National Environmental Public Health Tracking, and Radon Testing map do not include Puerto Rico data.

- There are only two (2) licensed professionals in Puerto Rico who can conduct radon testing using the American National Standards Institute/American Association of Radon Scientists and Technologists (ANSI/AARST) testing standards, which makes it difficult, time-consuming, and highly expensive to coordinate and secure a site visit for the contamination evaluation.
- Do-it-yourself (DIY) radon test kits are known to be unreliable in assuring and controlling the quality of the test results; they are not readily available in Puerto Rico, and the cost and time required for purchasing and sending them for analysis are unreasonable when weighed against the results' reliability and the need for prompt results.
- Local authorities in Puerto Rico do not have the specialized radon monitoring equipment or trained staff needed to conduct the radon testing analysis and ensure proper quality control and quality assurance practices are adhered to. We also do not have a radiation laboratory certified for radon testing.

As part of the evaluation for this determination, PRDOH sent information requests to six (6) local agencies at the state and federal levels. We received responses from the following agencies:

- United States Geological Survey;
- Centers for Disease Control and Prevention;
- Puerto Rico Department of Health; and
- United States Environmental Protection Agency.

The agencies mentioned above confirmed the lack of scientific data on Radon testing for Puerto Rico and the technical difficulties that we face to comply with HUD's Radon testing requirement. For the above-mentioned reasons, Radon testing is infeasible and impracticable for this property, and no further consideration of Radon is needed for the environmental review.



Attachment 7

Endangered Species Act Partner
Worksheet, Threatened and Endangered
Species Technical Memorandum,
USFWS IPaC Species List and Critical
Habitat Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Endangered Species Act (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental-review/endangered-species

1.	Does the project	involve any activities	that have t	he potential to a	ffect species or l	nabitats?
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- □No, the project will have No Effect due to the nature of the activities involved in the project.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination.
- □No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

Click here to enter text.

- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination.
- \boxtimes Yes, the activities involved in the project have the potential to affect species and/or habitats. \Rightarrow Continue to Question 2.

2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the FWS Website.

- \square No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.

- 3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:
 - □ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.
 - → If the RE/HUD agrees with this recommendation, the review is in compliance with this section.

 Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.
 - May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.
 - → Partner entities should not contact the Services directly. If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.
 - □Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.
 - → Partner entities should not contact the Services directly. If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Threatened, endangered, and migratory bird species were identified by reviewing data from the United States Fish and Wildlife Service (USFWS) Information and Planning Consultation (IPaC) Tool and the Puerto Rico Department of Natural and Environmental Resources (DNER) Species Ranges database. In addition, critical species habitat was reviewed through the USFWS IPaC and Critical Habitat Portal databases. The review identified four federally listed species, the Puerto Rican broad-winged hawk (Buteo platypterus brunnescens), Puerto Rican parrot (Amazona vittata), Puerto Rican harlequin butterfly (Atlantea tulita), and Puerto Rican boa (Chilabothrus inornatus), with the potential to occur within the project area.

Based on the site inspection and proposed project activities, the project will have *no effect* on the Puerto Rican broad-winged hawk, Puerto Rican parrot, Puerto Rican harlequin butterfly or designated

critical habitat. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present throughout the review area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the USFWS 2024 General Project Design Guidelines for the Puerto Rican boa. As such, it is anticipated that the project *may affect, but is not likely to adversely affect* the Puerto Rican boa. See the attached USFWS informal consultation request and subsequent concurrence, dated June 20, 2024.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office Bayamón | Mayagüez | Maricao | Río Grande | St Croix P.O. Box 491 Boquerón, Puerto Rico 00622



In Reply Refer to: FWS/R4/CESFO/72149-Gen

Submitted Via Electronic Mail: jcperez@vivienda.pr.gov

Juan Carlos Pérez-Bofill, PE, MEng. Director – Disaster Recovery CDBG-DR Program Puerto Rico Department of Housing P.O. Box 21365 San Juan, P.R 00928-1365

Re: CDBG-DR PR-RGRW-03747 Agrícola López LLC, Villalba, Puerto Rico

Dear Mr. Pérez-Bofill

Thank you for your letter dated May 21, 2024, requesting informal consultation on the above referenced project. As per your request, our comments are provided under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The Puerto Rico Department of Housing (PRDOH) is proposing the construction the construction of a new greenhouse and installation of solar panels in a 30.89 acres property located on State Road PR-151 Int., Km 553, Bo. Caonillas Arriba (18°08'16.3"N 66°27'16.5"W) in the municipality of Villalba, Puerto Rico. The proposed construction will require vegetation removal, but no tree clearing is proposed.

Using the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system, PRDOH identified four federally listed species within the project area (Project Code: 2024-0045993): Puerto Rican boa (*Epicrates inornatus* now known as *Chilabothrus inornatus*), Puerto Rican broad-winged hawk (*Buteo platypterus brunnescens*), Puerto Rican parrot (*Amazona vittata*), and Puerto Rican harlequin butterfly (*Atlantea tulita*).

The PRDOH has determined that the proposed project will have no effect (NE) on the Puerto Rican parrot, Puerto Rican harlequin butterfly and Puerto Rican broad-winged hawk due to the lack of suitable habitat for these species, current disturbance and land use of the property.

We acknowledge receipt of PRDOH's NE determination for the above mentioned species. Currently we do not have any information to refute that determination. Because PRDOH made a NE

2 Mr. Pérez-Bofill

determination, PRDOH is not required to conduct formal or informal section 7 consultation with the Service and the Service is not required to concur with PRDOH's NE determination.

As for the Puerto Rican boa, based on the nature of the project, scope of work, information available, and existing habitat, PRDOH has determined that the proposed project may affect but is not likely to adversely affect (NLAA) the Puerto Rican boa. Conservation measures developed by the Service for the Puerto Rican boa will be implemented prior to and during the project activities to avoid and minimize impacts to this species.

We have reviewed the information provided and our files, and concur with PRDOH's determination that the proposed project may affect, but is not likely to adversely affect the Puerto Rican boa with the implementation of the conservation measures.

In view of this, we believe that requirements of section 7 of the Endangered Species Act (Act) have been satisfied. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action.

Thank you for the opportunity to comment on this project. If you have any questions or require additional information, please contact us via email at caribbean es@fws.gov or by phone at (786) 244-0081.

Sincerely,

SILMARIE PADRON SILMARIE PADRON Date: 2024.06.20 07:50:33 -04'00'

Silmarie Padrón **Acting Field Supervisor**

DRR

cc:

Susan Fischer, SWCA



10245 West Little York Road, Suite 600 Houston, Texas 77040 Tel 281.617.3217 Fax 713.896.3189 www.swca.com

TECHNICAL MEMORANDUM

To: Caribbean Ecological Services Field Office

U.S. Fish and Wildlife Service

P.O. Box 491

Boquerón, Puerto Rico 00622

From: Susan Fischer, Project Biologist on behalf of the Puerto Rico Department of Housing

Date: February 14, 2024

Re: Threatened and Endangered Species Evaluation for the Puerto Rico Department of

Housing ReGrow PR-RGRW-03747 Project/ SWCA Project No. 72428

Project Description

Agricola Lopez LLC, the applicant, is proposing to construct a new greenhouse and install solar panels and a water line that will connect to the greenhouse on a 30.89-acre property in the Municipio of Villalba, Puerto Rico (project) (Appendix A, Figure 1). The project is located at Carretera 151 Interior KM 553 Barrio Caonillas Arribav, Villalba, Puerto Rico 00766, in a rural area. The estimated dimensions of the greenhouse will be approximately 32 feet by 96 feet (3,072 square feet), the solar panels will be approximately 3 to 4 feet in diameter and the water line trench will be 465 feet long, 4 feet wide and 2 feet deep. Two optional locations are being evaluated for the greenhouse (Appendix A, Figure 2).

Existing conditions

The existing habitat conditions at the proposed project locations consist of dense grasses interspersed with shrubs. Forested areas lie adjacent to the project locations throughout the property. Field surveys identified one stream south of the project locations along the property boundary (Appendix A, Figure 3). Construction of the greenhouse and installation of solar panels would require removal of the vegetation within the proposed project area; no tree clearing is anticipated. Representative photographs of the proposed locations are provided in Appendix B.

Federally Protected Species

SWCA obtained a federal threatened and endangered species list from the USFWS (2023a) Information for Planning and Consultation ("IPaC") website for a 100-foot buffer around the two optional greenhouse and solar panel locations (review area) (Appendix C). The IPaC automatically generates a list of species and other resources of concern, such as critical habitat, that are known or expected to be in the specified area and could potentially be directly or indirectly affected. According to the IPaC query for the project, four federally listed endangered species has the potential to occur in the review area; the Puerto Rican broadwinged hawk (*Buteo platypterus brunnescens*), Puerto Rican Parrot (*Amazona vittata*), the Puerto Rican boa (*Chilabothrus inornatus*), and the Puerto Rican Harlequin Butterfly (*Atlantea tulita*). SWCA also

evaluated the review area for potential habitat for bald eagles (*Haliaeetus leucocephalus*) and golden eagles (*Aquila chrysaetos*) as they are protected by the Bald and Golden Eagle Protection Act of 1940 ("BGEPA").

The bald and golden eagle's range do not extend into Puerto Rico (Cornell Lab of Ornithology 2024); therefore, these species were eliminated from further analysis for this project. Table 1 identifies the species carried forward for further evaluation and summarizes each species' habitat requirements, potential for occurrence in the project area, and determination of effects.

Table 1. Federally Listed Species Range and/or Habitat Requirements

Common Name (Scientific Name)	Status*	Range or Habitat Requirements	Potential for Occurrence in Project Area	Determination of Effects/Impacts
Birds				
Puerto Rican Broad- winged Hawk (<i>Buteo platypterus</i> <i>brunnescens</i>)	FE	The Puerto Rican broad-winged hawk occurs in elfin woodland, sierra palm, caimitillo-granadillo, and tabonuco forest types of the Río Abajo Commonwealth Forest, Carite Commonwealth Forest, and El Yunque National Forest as well as within hardwood plantations, shade coffee plantations, and mature secondary forests (USFWS 2019).	Unlikely to occur. Although there are forested areas located on the periphery of the review area, the review area does not fall within the current known range of this species (USFWS 2024b).	No effect. There is no suitable habitat for Puerto Rican broad-winged hawks in the project area.
Puerto Rican Parrot (Amazona vittata)	FE	The Puerto Rican parrot is a frugivorous cavity nester. It depends on mature forests with large cavity forming trees. It is currently confined to the Maricao Forest, El Yunque National Forest, and the Río Abajo Forest (USDA Forest Service 2024).	Unlikely to occur. The project area is not located within the Maricao Forest, El Yunque National Forest, or the Río Abajo Forest.	
Reptiles				
Puerto Rican Boa (Chilabothrus inornatus)	FE	Considered to be a habitat generalist, the Puerto Rican boa tolerates a wide variety of terrestrial and arboreal habitats, including rocky areas, haystack hill, trees and branches, rotting stumps, caves, plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges (USFWS 2011).	May occur. The project area is located adjacent to forested areas and dense vegetative ground cover is present throughout the review area.	May affect, but not likely to adversely affect. See discussion below.
Insects			_	
Puerto Rican Harlequin Butterfly (<i>Atlantea tulita</i>)	FT	This species inhabits areas with moderately dense to dense canopy cover and dense vegetation and a source of water within a kilometer. Eggs and larvae are found only on the prickly bush (<i>Oplonia spinosa</i>), while adult butterflies feed on the nectar of several tree species and drink water (USFWS 2019b).	Unlikely to occur. There are no forested areas located within the project area.	No effect. There is no suitable habitat for the Puerto Rican harlequin butterfly in the project area.

^{*}Status Definitions:

Based on a site visit and habitat evaluations, the Puerto Rican broad-winged hawk, Puerto Rican parrot, and Puerto Rican harlequin butterfly are considered unlikely to occur due to lack of suitable habitat within the review areas. Therefore, the project will have *no effect* on these federally listed species. Due to the generalist nature of the Puerto Rican boa, forested habitat surrounding the project areas, and dense ground cover present throughout the review area, the Puerto Rican boa may occur within the project area. The applicant will employ the conservation measures outlined in the 2023 USFWS General Project Design Guidelines for the Puerto Rican boa (Appendix D), including but not limited to issuing a stop work if a Puerto Rican boa were to occur within the project area, and contacting the PRDNER for safe capture and relocation of the individual if such action is required. Consequently, it is anticipated that the project *may affect*, *but is not likely to adversely affect* the Puerto Rican boa. The USFWS Consistency Letter obtained through IPaC is included in Appendix E.

Critical Habitat and National Wildlife Refuges

Potential effects to habitat(s) within the project area critical to endangered species must be analyzed along with the endangered species themselves, while any activity proposed on National Wildlife Refuge lands must undergo a compatibility determination conducted by the Refuge. No designated critical habitats are present within 100-feet of any of the proposed project location options (Appendix A, Figure 4) (USFWS 2023b).

LITERATURE CITED

8dbfb77. Accessed February 2024.

- Cornell Lab of Ornithology. 2024. All About Birds. Available at: https://www.allaboutbirds.org/guide/. Accessed February 2024.
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- U. S. Fish and Wildlife Service (USFWS). 2011. Puerto Rican Boa (Epicrates inornatus) 5-Year Review: Summary and Evaluation. U.S. Fish and Wildlife Service, Southeast Region. Boquerón, Puerto Rico.
 ——. 2019. Puerto Rican broad-winged hawk or guaraguao de bosque (Buteo platypterus brunnescens) 5-Year Review: Summary and Evaluation. U.S. Fish and Wildlife Service, Southeast Region. Boquerón, Puerto Rico.
 ——. 2019b. Species Status Assessment Report for the Puerto Rican Harlequin Butterfly (Atlantea tulita) Version 1.5. U.S. Fish and Wildlife Service, Southeast Region. Atlanta, Georgia.
 ——. 2024a. Information for Planning and Consultation System (IPaC). Available at: http://ecos.fws.gov/ipac/. Accessed February 2024.
 ——. 2024b. Puerto Rican Broad-winged Hawk. Available at: https://ecos.fws.gov/ecp/species/5512. Accessed February 2024.
 ——. 2024c. Critical Habitat for Threatened & Endangered Species [USFWS]. Available at: https://fws.maps.arcgis.com/home/webmap/viewer.html?webmap=9d8de5e265ad4fe09893cf75b

APPENDIX A Maps

Figure 1 USGS Topographic Map

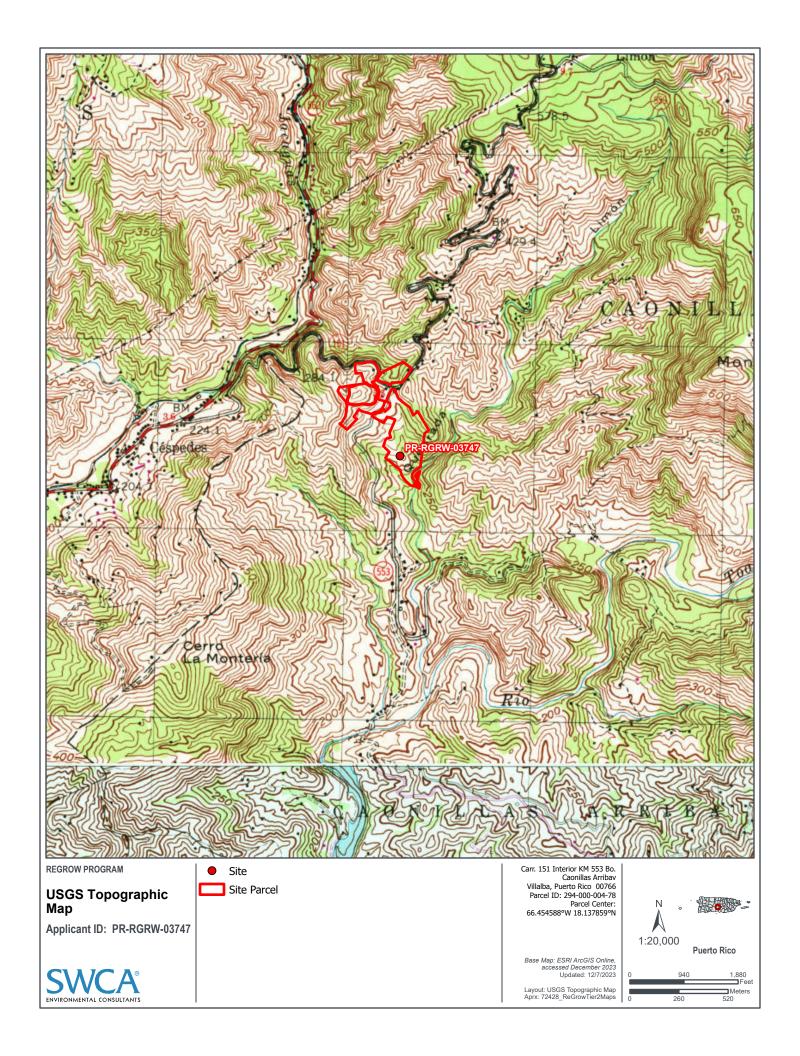


Figure 2 Site Vicinity Map

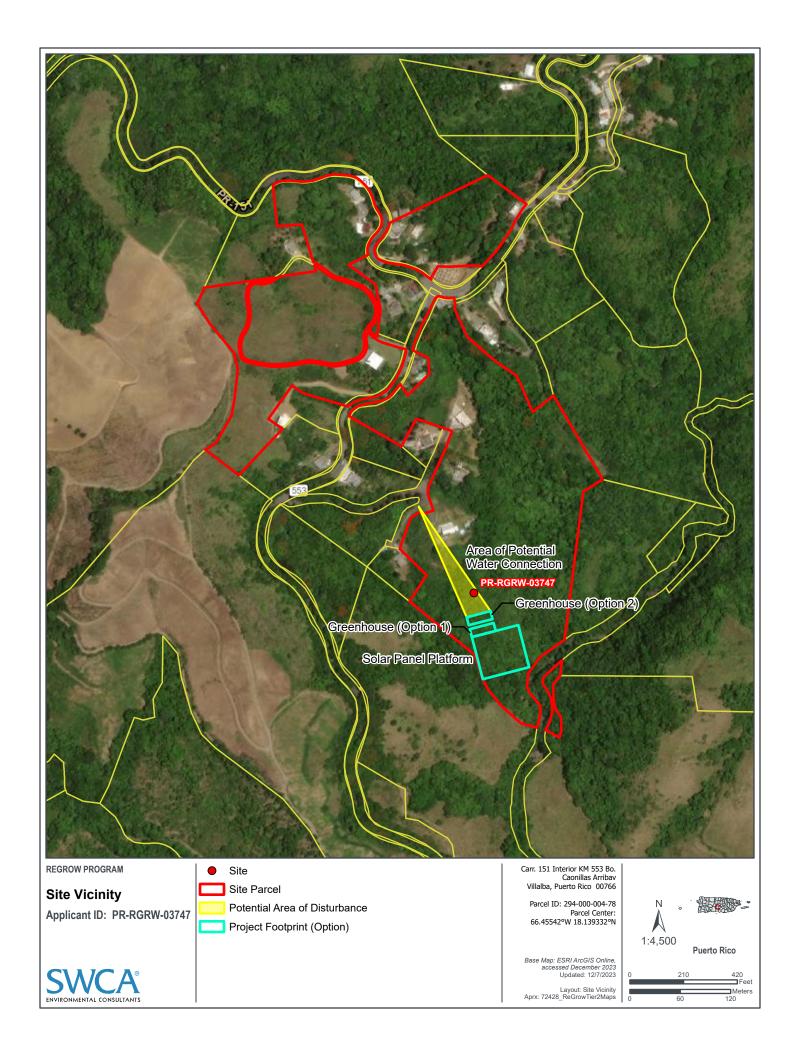


Figure 3
Wetlands Map

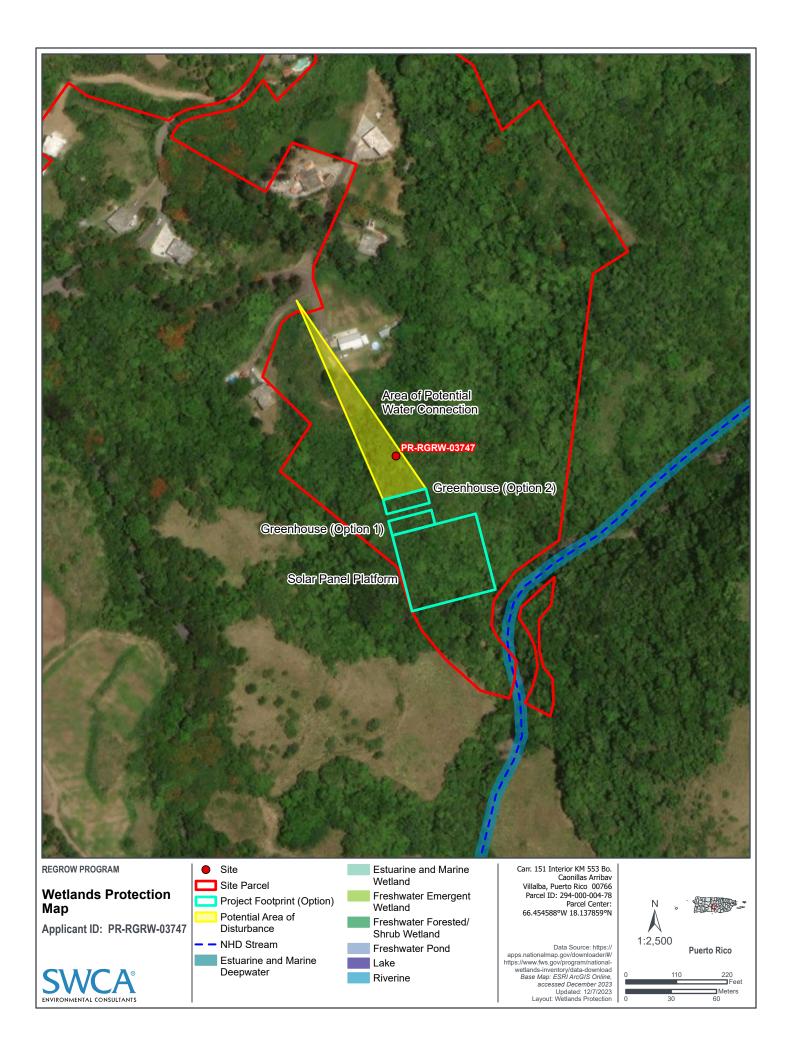
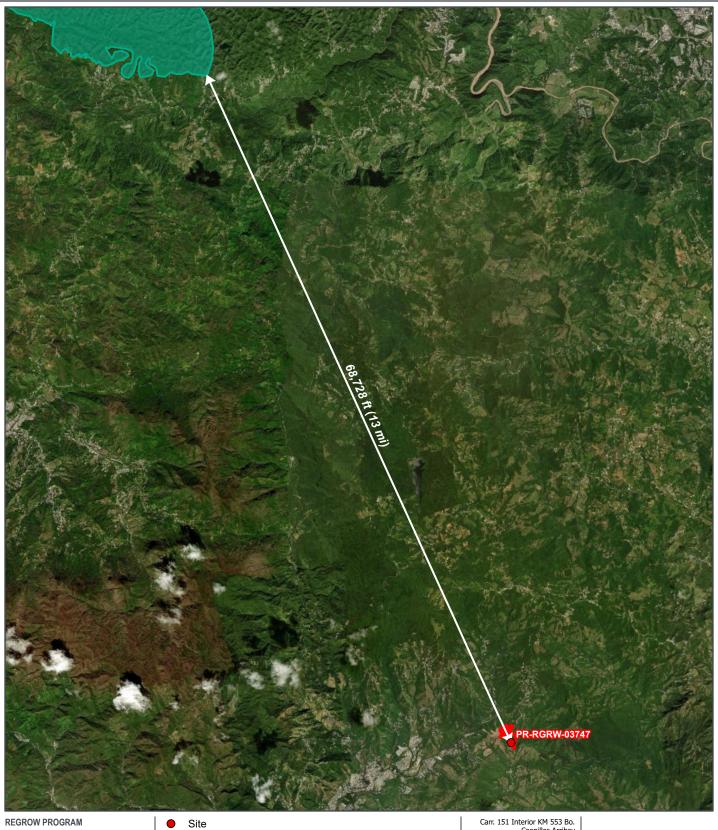


Figure 4 Critical Habitat Map



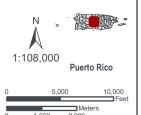
Critical Habitat Map

Applicant ID: PR-RGRW-03747

Site
Site Parcel
Buffer (100-ft)
Critical Habitat - Final
National Wildlife Refuges

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.495672°W 18.223959°N

Data Source: https://services.arcgis.com/QVENGdaPbd4LUKLV/arcgis/ est/services/USFWS_Critical_Habitat/ Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 127/2023 Layout. Critical Habitat Aprx: 72428_ReGrowTier2Maps





APPENDIX B Photographic Log

Photo #: 01

Date: 11/03/2 023

Photo Direction:

Southeast

Description:

Overview of preferred location and second option for vertical hydroponic greenhouse 32x96ft.



Photo #: 02

Date: 11/03/2 023

Photo Direction:

Southeast

Description:

NW corner of second option site location for vertical hydroponic greenhouse.



Photo #: 03

Date: 11/03/2 023

Photo Direction:

Southwest

Description:

NE corner of site location second option for vertical hydroponic greenhouse.



Photo #: 04

Date: 11/03/2 023

Photo Direction:

Northwest

Description:

SE corner of second option for vertical hydroponic greenhouse.



Project #: PR-RGRW-03747	Photographer: Armando Ramos
Location Address: CARR. 151 INTERIOR KM 553	Coordinates: 18.137069, -66.454526
BO. CAONILLAS ARRIBAV, Villalba, PR 00766	

Photo #: 05

Date: 11/03/2 023

Photo Direction:

Northeast

Description:

SW corner of second option for vertical hydroponic greenhouse.



Photo #: 06

Date: 11/03/2 023

Photo Direction:

North

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 07

Date: 11/03/2 023

Photo Direction:

East

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 08

Date: 11/03/2 023

Photo Direction:

South

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 09

Date: 11/03/2 023

Photo Direction:

West

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 10 **Date:** 11/03/2 023

Photo Direction:

East

Description:

NW corner of site location for vertical hydroponic greenhouse.



Photo #: 11

Date: 11/03/2023

Photo Direction:

Southeast

Description:

NW corner of site location for vertical hydroponic greenhouse.



Photo #:

12

Date: 11/03/2023

Photo Direction:

Southwest

Description:

NE corner of vertical hydroponic greenhouse.



Photo#:
13

Date: 11/03/2023

Photo Direction:

Northwest

Description:

SE corner of site location for vertical hydroponic greenhouse.



Photo#:
14

Date: 11/03/2023

Photo Direction:

Northeast

Description:

SW corner of site location for vertical hydroponic greenhouse 32x96ft.



Photo#:
15

Date: 11/03/2023

Photo Direction:

North

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
16

Date: 11/03/2023

Photo Direction:

East

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
17

Date: 11/03/2023

Photo Direction:

South

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo #: 18

Date: 11/03/2023

Photo Direction:

West

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
19

Date: 11/03/2023

Photo Direction:

South

Description:

Creek that passes along property line.



Photo#:
20

Date:

11/03/2023

Photo Direction:

Southeast

Description:

Water utility source. AAA/PRASA.



APPENDIX C

USFWS Information for Planning and Consultation



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491 Phone: (787) 834-1600 Fax: (787) 851-7440

Email Address: <u>CARIBBEAN ES@FWS.GOV</u>

In Reply Refer To: February 07, 2024

Project Code: 2024-0045993 Project Name: PR-RGRW-03747

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

location or may be affected by your proposed project

To Whom It May Concern:

THE FOLLOWING SPECIES LIST IS NOT A SECTION 7 CONSULTATION. PLEASE CONTACT OUR OFFICE TO COMPLETE THE CONSULTATION PROCESS

The purpose of the Endangered Species Act (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 those species and/or their designated critical habitat.

Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". The enclosed species list provides information to assist with the U.S. Fish and Wildlife Service (Service) consultation process under section 7 of the Act. However, **the enclosed species list does not complete the required consultation process.** The species list identifies threatened, endangered, proposed and candidate species, as well as proposed and designated critical habitats, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. A discussion between the Federal agency and the Service should include what types of listed species may occur in the proposed action area and what effect the proposed action may have on those species. This process initiates informal consultation.

Once a species list is obtained for the proposed project, an effect determination for endangered and threatened species should be made. The applicant could make an effect determination by using available keys on IPaC for specific species. For species with no determination keys, the applicant should request concurrence from the Service by sending a project package

to <u>caribbean es@fws.gov</u>. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

 $\underline{https://www.fws.gov/sites/default/files/documents/consultation-under-section-7-of-the-endangered-species-act-with-the-caribbean-ecological\%20Services-field-office-template-letter.pdf$

When a federal agency, after discussions with the Service, determines that the proposed action is not likely to adversely affect any listed species, or adversely modify any designated critical habitat, and the Service concurs, the informal consultation is complete, and the proposed project moves ahead. If the proposed action is suspected to affect a listed species or modify designated critical habitat, the Federal agency may then prepare a Biological Assessment (B.A.) to assist in its determination of the project's effects on species and their habitat. However, a B.A. 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 B.A. where the agency provides the Service with an evaluation on the likely effects of the action to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a B.A. are described at 50 CFR 402.12.

If a federal agency determines, based on its B.A. or biological evaluation, that listed species and/ or designated critical habitat may be affected by the proposed project, the agency is required to further 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 process. 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:

https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf

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.

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". Please use this list to determine whether your project requires consultation and to make your effects determination. For more guidance, use the Guideline for Consultation under Section 7 of the Endangered Species Act with the Caribbean Ecological Services Field Office by clicking here.

This species list is provided by:

Caribbean Ecological Services Field Office caribbean es@fws.gov
Post Office Box 491
Boqueron, PR 00622-0491
(786) 244-0081

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

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:

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491 (787) 834-1600

PROJECT SUMMARY

Project Code: 2024-0045993
Project Name: PR-RGRW-03747
Project Type: Disaster-related Grants

Project Description: Construction of a new greenhouse and solar panels.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.1378993,-66.45467035002451,14z



Counties: Villalba County, Puerto Rico

Project code: 2024-0045993 02/07/2024

ENDANGERED SPECIES ACT SPECIES

There is a total of 4 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.

BIRDS

NAME STATUS

Puerto Rican Broad-winged Hawk Buteo platypterus brunnescens

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5512

Puerto Rican Parrot Amazona vittata

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3067

REPTILES

NAME STATUS

Puerto Rican Boa Chilabothrus inornatus

Endangered

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628

General project design guidelines:

https://ipac.ecosphere.fws.gov/project/DVDWJG7BDRAGHAMHY6YVEWDNTI/documents/generated/7159.pdf

INSECTS

NAME STATUS

Puerto Rican Harlequin Butterfly Atlantea tulita

Threatened

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/9005

CRITICAL HABITATS

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

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

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.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

THERE ARE NO BALD AND GOLDEN EAGLES WITHIN THE VICINITY OF YOUR PROJECT AREA.

MIGRATORY BIRDS

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

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Project code: 2024-0045993 02/07/2024

THERE ARE NO FWS MIGRATORY BIRDS OF CONCERN WITHIN THE VICINITY OF YOUR PROJECT AREA.

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

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

RIVERINE

R5UBH

IPAC USER CONTACT INFORMATION

Agency: SWCA

Name: Kaitie Wilms

Address: 911 Hammond Drive

City: North Augusta

State: SC Zip: 29841

Email kaitie.wilms@swca.com

Phone: 8436930711

APPENDIX D Project Design Guidelines

General Project Design Guidelines (1 Species)

Generated February 07, 2024 06:10 PM UTC, IPaC v6.104.2-rc1



IPaC - Information for Planning and Consultation (https://ipac.ecosphere.fws.gov/): A project planning tool to help streamline the U.S. Fish and Wildlife Service environmental review process.

Table of Contents

Species Document Availability	_
Puerto Rican Boa - Caribbean Ecological Services Field Office	2

Species Document Availability

Species with general design guidelines

Puerto Rican Boa Chilabothrus inornatus

Species without general design guidelines available

Puerto Rican Broad-winged Hawk Buteo platypterus brunnescens

Puerto Rican Harlequin Butterfly Atlantea tulita

Puerto Rican Parrot Amazona vittata

General Project Design Guidelines - Puerto Rican Parrot and 3 more species

Published by Caribbean Ecological Services Field Office for the following species included in your project

Puerto Rican Parrot Amazona vittata

Puerto Rican Harlequin Butterfly Atlantea tulita

Puerto Rican Boa Chilabothrus inornatus

Puerto Rican Broad-winged Hawk Buteo platypterus brunnescens

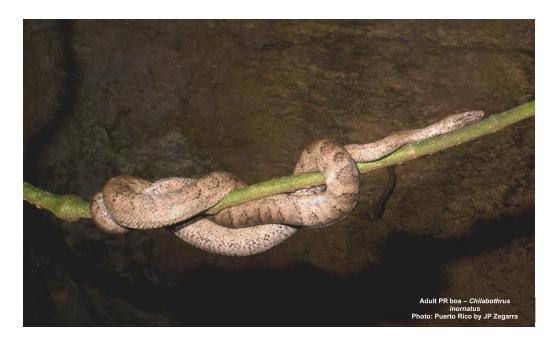


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (Chilabothrus inornatus)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect federally listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



The PR boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types, ranging from wet montane to subtropical dry forest and can be found from mature forest to areas with different degrees of human disturbance such as roadsides or houses, especially if near their habitat in rural areas. The PR boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

- 1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
- 2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
- 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
- 4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). **If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own**. Activities at other work sites, where no boas have been found after surveying the area, may continue.
- 5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

- 6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.
- 7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.
- 8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
- 9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
- 10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Program Coordinator
 - o Email: jose cruz-burgos@fws.gov
 - o Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - o Email: jan zegarra@fws.gov
 - o Office phone (786) 933-1451

APPENDIX E USFWS Consistency Letter



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Caribbean Ecological Services Field Office Post Office Box 491 Boqueron, PR 00622-0491

Phone: (787) 834-1600 Fax: (787) 851-7440 Email Address: <u>CARIBBEAN ES@FWS.GOV</u>

In Reply Refer To: February 07, 2024

Project code: 2024-0045993 Project Name: PR-RGRW-03747

Subject: Consistency letter for the project named 'PR-RGRW-03747' for specified threatened

and endangered species, that may occur in your proposed project location, pursuant to

the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On February 07, 2024, Kaitie Wilms used the Caribbean DKey; dated January 19, 2024, in the U.S. Fish and Wildlife Service's online IPaC application to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-03747'. The project is located in Villalba County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.1378993,-66.45467035002451,14z



The following description was provided for the project 'PR-RGRW-03747':

Construction of a new greenhouse and solar panels.

Based on your answers and the assistance of the Service's Caribbean DKey, you made the following effect determination(s) for the proposed Action:

Species	Listing Status	Determination
Puerto Rican Boa (Chilabothrus inornatus)	Endangered	NLAA
Puerto Rican Broad-winged Hawk (Buteo platypterus	Endangered	May affect
brunnescens)		

<u>Consultation with the Service is not complete.</u> Further consultation with the Caribbean Ecological Services office is required for those species with a determination of "may affect" listed above. Please contact the Caribbean Ecological Services office to discuss methods to avoid or minimize potential adverse effects to those species.

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description

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

1. Name

PR-RGRW-03747

2. Description

The following description was provided for the project 'PR-RGRW-03747':

Construction of a new greenhouse and solar panels.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@18.1378993,-66.45467035002451,14z



QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? (MSGP Fact Sheet)

No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant. .

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

No

9. Is the proposed project located within a rural area covered by grassland (pasture lands "pastos")?

No

10. Is the proposed project adjacent or within a forested area?

Note: Examples of immediately adjacent to forested areas are rock walls and haystack hills ("mogotes"), wet montane forest, lowland wet forest, remnant coastal, mangrove forest, damp and dry limestone karst forests, pastureland with patches of exotic trees.

Yes

11. Is the project area more than 1 acre?

Yes

12. Is the proposed project an existing facility or the expansion of an existing facility within the footprint of the already developed area?

No

13. Is the proposed project a new facility which would require earth moving, vegetation clearing, or debris removal using heavy machinery, the use of staging areas, construction of temporary access roads?

Yes

14. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

15. Will the proposed project implement the U.S. Fish and Wildlife <u>Puerto Rican boa</u> <u>Conservation Measures?</u>

Yes

- 16. Will the proposed project be conducted during the Puerto Rican sharp-shinned hawk or Puerto Rican Broad-winged hawk breeding season between December and July? Yes
- 17. Will daily surveys be conducted to detect breeding activites by qualified personnel?

Note: Examples of breeding activities are courtship and territoriality, re-occupancy of nesting sites, nest building, egg laying, incubation and hatching, and post-fledging.

No

18. Does the proposed project intersect the Puerto Rican Broad-winged hawk area of influence?

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

Agency: SWCA

Name: Kaitie Wilms

Address: 911 Hammond Drive

City: North Augusta

State: SC Zip: 29841

Email kaitie.wilms@swca.com

Phone: 8436930711

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

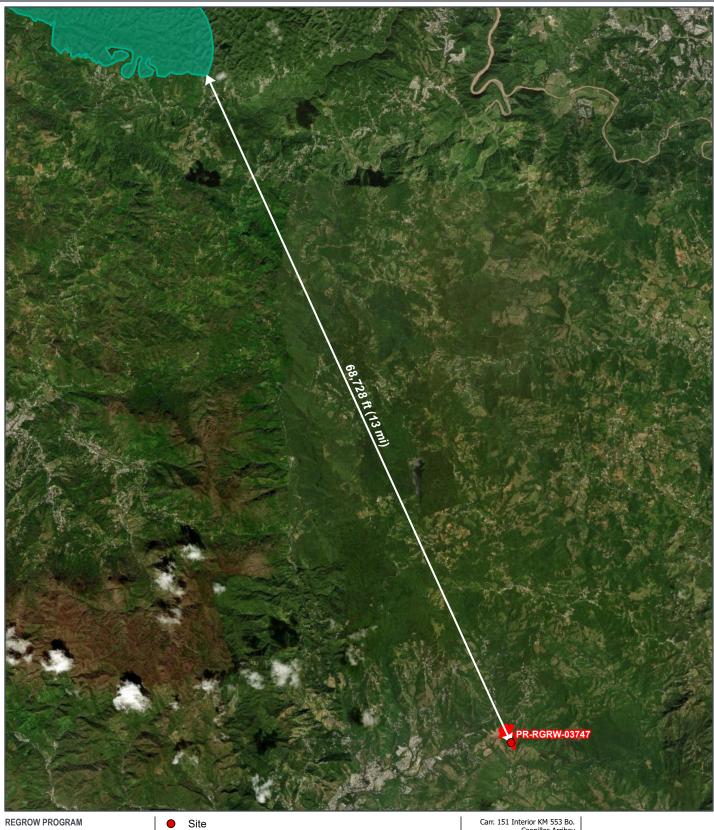


Figure B 7-1: Critical Habitat Map

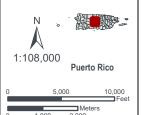
Applicant ID: PR-RGRW-03747

SWCA®
ENVIRONMENTAL CONSULTANTS

Site
Site Parcel
Buffer (100-ft)
Critical Habitat - Final
National Wildlife Refuges

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.495672°W 18.223959°N

Data Source: https://services.arcgis.com/QVENGdaPbd4LUKLV/arcgis/ est/services/USFWS_Critical_Habitat/ Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 127/2023 Layout. Critical Habitat Aprx: 72428_ReGrowTier2Maps



Attachment 8 Explosive and Flammable Hazards Partner Worksheet



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Explosive and Flammable Hazards (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities

1.	Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)? ☑ No → Continue to Question 2. ☐ Yes Explain: Click here to enter text.
	→ Continue to Question 5.
2.	Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion? \boxtimes No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
	\square Yes \rightarrow Continue to Question 3.
3.	 Within 1 mile of the project site, are there any current or planned stationary aboveground storage containers: Of more than 100-gallon capacity, containing common liquid industrial fuels OR Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?
	\square No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.
	\square Yes \rightarrow Continue to Question 4.
	 4. Is the Separation Distance from the project acceptable based on standards in the Regulation? Please visit HUD's website for information on calculating Acceptable Separation Distance. □ Yes → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

□ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD's website for information on calculating Acceptable Separation Distance.

☐ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

□ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

Click here to enter text.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project includes the new construction of a greenhouse and solar panels. The project itself is not the development of a hazardous facility nor will the project increase residential densities. No further evaluation is required. The project is in compliance with explosive and flammable hazard requirements.

Attachment 9 Farmlands Protection Partner Worksheet and Prime Farmland Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

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Farmlands Protection (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental-review/farmlands-protection

1.	Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use? ☐ Yes à Continue to Question 2. ☐ No à If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.				
 Does "important farmland," including prime farmland, unique farmland, or farmland of sor local importance regulated under the Farmland Protection Policy Act, occur on the project of you may use the links below to determine important farmland occurs on the project site: Utilize USDA Natural Resources Conservation Service's (NRCS) Web Sointtp://websoilsurvey.nrcs.usda.gov/app/HomePage.htm Check with your city or county's planning department and ask them to document if the is on land regulated by the FPPA (zoning important farmland as non-agricultural) 					
	 exempt it from FPPA requirements) Contact NRCS at the local USDA service center http://offices.sc.egov.usda.gov/locator/app?agency=nrcs or your NRCS state soil scientist http://soils.usda.gov/contact/state_offices/ for assistance 				
	□ No à If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.				
	☐ Yes à Continue to Question 3.				
_	Constitution of the contract o				

- 3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.
 - Complete form <u>AD-1006</u>, "Farmland Conversion Impact Rating" and contact the state soil scientist before sending it to the local NRCS District Conservationist.
 - Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

Work with the RE/HUD to determine how the project will proceed. Document the conclusion:

□ Project will proceed with mitigation.

Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.

□ Project will proceed without mitigation.

Explain why mitigation will not be made here:

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.

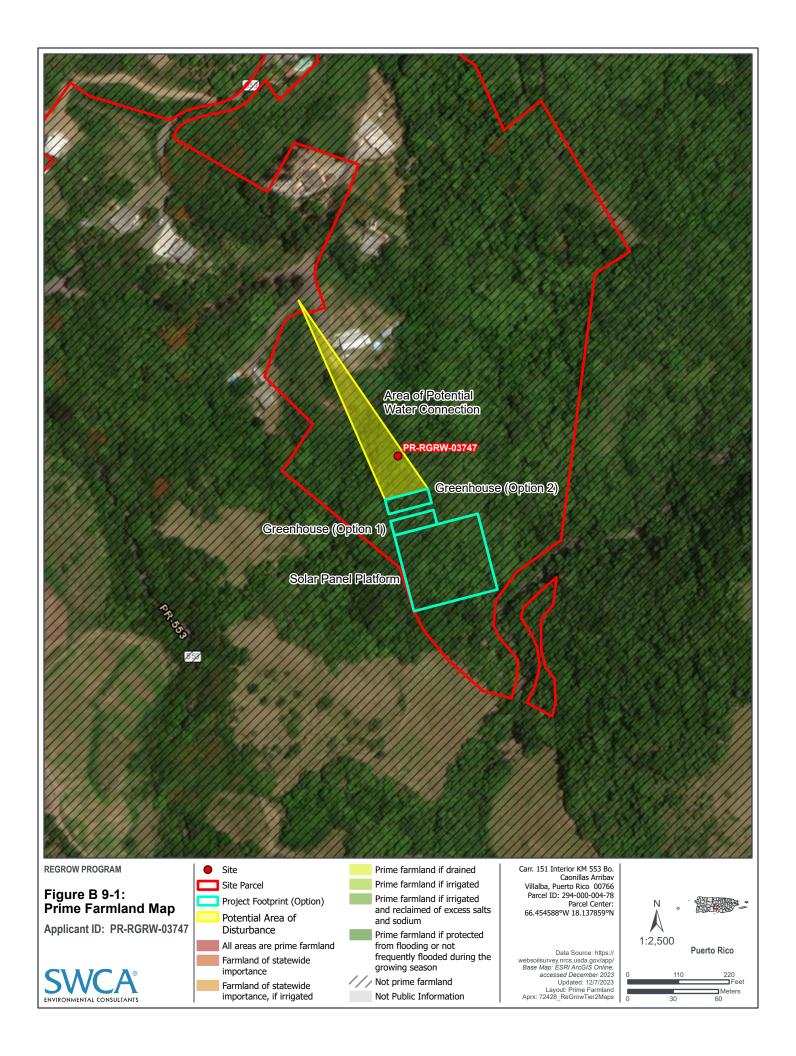
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

This project does not include any activities that could potentially convert agricultural land to non-agricultural use. Per the USGS/NRCS Web Soil Survey, the project area crosses one mapped soil series: QeE2 (Quebrada silty clay loam, 20-40 percent slopes, eroded). No prime farmland or farmlands of statewide importance are within the project area. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required. The project is in compliance with the Farmland Protection Policy Act.



Attachment 10 Floodplain Management Partner Worksheet and Advisory Base Flood Elevation Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT WASHINGTON, DC 20410-1000

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Floodplain Management (CEST and EA)

General Requirements	Legislation	Regulation	
Executive Order 11988,	Executive Order 11988	24 CFR 55	
Floodplain Management,	Executive Order 13690		
requires Federal activities to	42 USC <u>4001-4128</u>		
avoid impacts to floodplains and	42 USC 5154a		
to avoid direct and indirect			
support of floodplain			
development to the extent			
practicable.			
Reference			
https://www.hudexchange.info/environmental-review/floodplain-management			

 Does this project meet an exemption at <u>24 CFR 55.12</u> from compliance with HUD's floor management regulations in Part 55 or utilize the delayed compliance date for certain Off Housing programs? 			•
	☐ Yes Select the app	olicable d	citation at 24 CFR 55.12 and provide supporting documentation for the
	determination		
	a) 🗆 HUD-as	sisted ac	ctivities described in 24 CFR 58.34 and 58.35(b)
	b) □ HUD-as 50.19	ssisted a	ctivities described in 24 CFR 50.19, except as otherwise indicated in §
	c) \square The ap	proval of	f financial assistance for restoring and preserving the natural and
	beneficial	function	s and values of floodplains and wetlands, including through acquisition of
	such flood	lplain an	d wetland property, where a permanent covenant or comparable
		-	on the property's continued use for flood control, wetland projection, k land, but only if:
	•		operty is cleared of all existing buildings and walled structures; and
		-	operty is cleared of related improvements except those which:
	, ,	(i)	Are directly related to flood control, wetland protection, open space, or park land (including playgrounds and recreation areas);
		(ii)	Do not modify existing wetland areas or involve fill, paving, or other ground disturbance beyond minimal trails or paths; and
		(iii)	Are designed to be compatible with the beneficial floodplain or wetland function of the property.

d)	☐ An action involving a repossession, receivership, foreclosure, or similar acquisition of property to protect or enforce HUD's financial interests under previously approved loans, grants, mortgage insurance, or other HUD assistance
e)	☐ Policy-level actions described at 24 CFR 50.16 that do not involve site-based decisions
-	☐ A minor amendment to a previously approved action with no additional adverse impact on or from a floodplain or wetland;
g)	 ☐ HUD's or the responsible entity's approval of a project site, an incidental portion of which is situated in the FFRMS floodplain (not including the floodway, LiMWA, or coastal high hazard area) but only if: (1) The proposed project site does not include any existing or proposed buildings or improvements that modify or occupy the FFRMS floodplain except de minimis improvements such as recreation areas and trails; and (2) the proposed project will not result in any new construction in or modifications of a wetland
•	 ☐ Issuance or use of Housing Vouchers or other forms of rental subsidy where HUD, the awarding community, or the public housing agency that administers the contract awards rental subsidies that are not project-based (i.e., do not involve site-specific subsidies) ☐ Special projects directed to the removal of material and architectural barriers that restrict the mobility of and accessibility to elderly and persons with disabilities.
_	ons do not apply due to the project activities being the installation of new nic greenhouse, new solar panels, and utility lines.
Based on th Summary b	he response, the review is in compliance with this section. Continue to the Worksheet pelow.
mu	Yes. Office of Housing programs utilizing the January 1, 2025 compliance date. These reviews ist comply with the 2013 version of the Part 55 regulations. Continue to Worksheet Summary 2013 version to upload supporting documentation.
\boxtimes	No. Continue to Question 2.
2. Do	es the project include a Critical Action?
hos	Yes. Describe the Critical Action. Examples of Critical Actions include projects involving spitals, fire and police stations, nursing homes, hazardous chemical storage, storage of valuable ords, and utility plants. Continue to Question 4.
No, the p	project is not a Critical Action as defined in 24 CFR 55.2(b)(3)
\boxtimes	No. Continue to Question 3.

3. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Include documentation and an explanation of why this is the best available information for the site. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

Select one of the following three options:

a.

☐ CISA for non-critical actions. If using a local tool, data, or resources, ensure that the FFRMS elevation is higher than would have been determined using the 0.2 PFA or the FVA.
☑ 0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.
□ FVA. If neither CISA nor 0.2-PFA is available, for non-critical actions, the FFRMS floodplain is the area that results from adding two feet to the base flood elevation as established by the effective FIRM or FIS or—if available —a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.
Does your project occur in the FFRMS floodplain?
☐Yes, continue to part b.
☑ No. Review for floodplain management is complete.

b. Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.

☐ Floodway: *Continue to Question 5. Floodways.*

•	•	,		
Coastal High Haz	ard Area (V Zone	e) or Limit of Mode	rate Wave Action (LiMW	A): Continue
to Question 6. (Coastal High Hazo	ard Areas and LiMW	VAs.	

4. Determine the extent of the FFRMS floodplain and provide mapping documentation in support of that determination.

The extent of the FFRMS floodplain can be determined using a Climate Informed Science Approach (CISA), or the higher of the 0.2 percent flood approach (0.2 PFA), or freeboard value approach (FVA). For projects in areas without available CISA data or without FEMA Flood Insurance Rate Maps (FIRMs), Flood Insurance Studies (FISs) or Advisory Base Flood Elevations (ABFEs), use the best available information to determine flood elevation. Note that newly constructed and substantially improved structures must be elevated to the FFRMS floodplain regardless of the approach chosen to determine the floodplain.

	Utilize CISA to determine the FFRMS floodplain for critical actions
	☐ CISA for Critical Actions. If using a local tool, ensure that the FFRMS elevation provided is higher than the 0.2 PFA or 3′ above the base flood elevation.
	OR;
	Choose the higher of 0.2 PFA or FVA elevations
	□ 0.2-PFA. Where FEMA has defined the 0.2-percent-annual-chance floodplain, the FFRMS floodplain is the area that FEMA has designated as within the 0.2-percent-annual-chance floodplain.
	□ FVA. For critical actions, the FFRMS floodplain is the area that results from adding three feet to the base flood elevation as established by the effective FEMA FIRM or FIS or—if available —a FEMA-provided preliminary or pending FIRM or FIS or advisory base flood elevations, whether regulatory or informational in nature. However, an interim or preliminary FEMA map cannot be used if it is lower than the current FIRM or FIS.
a. I	Does your project occur in the FFRMS floodplain? ☐Yes, continue to part b.
	☐No. Review for floodplain management is complete.
b.	Is your project located in any of the floodplain categories below? Select all that apply. If none apply, continue to question 7.
	☐ Floodway: Continue to Question 5. Floodways.
	☐ Coastal High Hazard Area (V Zone) or LiMWA: Continue to Question 6. Coastal High Hazard Areas and LiMWAs.
5.	Floodways Do the floodway exemptions at 55.8 or 55.21 apply? ☐ Yes The 8-Step Process is required. Document mitigation measures necessary to meet the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice. Continue to Question 7. 8-Step Process.
	□ No Federal assistance may not be used at this location. You must either choose an alternate site or cancel the project at this location.

6. Coastal High Hazard Area (V Zone) and LiMWAs Do the exemptions at <u>55.8</u> or <u>55.21</u> apply?

☐ Yes <u>The 8-Step Process is required.</u> Document mitigation measures necessary to mee the requirements in 55.8 or 55.21. Provide a completed 8-Step Process, including the early public notice and the final notice. Continue to Question 7. 8-Step Process.
□No
Federal assistance may not be used at this location. You must either choose an alternate site
or cancel the project at this location.
8-Step Process.
Does the 8-Step Process apply? Select one of the following options:
☐ 8-Step Process is inapplicable per 55.13.
Select the applicable citation:
□ (a) HUD's mortgage insurance actions and other financial assistance for the purchasing, mortgaging, or refinancing of existing one- to four-family properties in communities that are in the Regular Program of the NFIP and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24), where the action is not a critical action and the property is not located in a floodway, coastal high hazard area, or LiMWA;
□ (b) Financial assistance for minor repairs or improvements on one- to four-family properties that do not meet the thresholds for "substantial improvement" under § 55.2(b)(12);
☐ (c) HUD or a recipient's actions involving the disposition of individual HUD or recipient held, one- to four-family properties;
□ (d) HUD guarantees under the Loan Guarantee Recovery Fund Program (24 CFR part 573), where any new construction or rehabilitation financed by the existing loan or mortgage has been completed prior to the filing of an application under the program, and the refinancing will not allow further construction or rehabilitation, nor result in any physical impacts or changes except for routine maintenance;
☐ (e) The approval of financial assistance to lease units within an existing structure located within the floodplain, but only if;
(1) The structure is located outside the floodway or coastal high hazard area, and is in a community that is in the Regular Program of the NFIP and in good standing (i.e., not suspended from program eligibility or placed on probation under 44 CFR 59.24); and
(2) The project is not a critical action; and(3) The entire structure is or will be fully insured or insured to the maximum extent available under the NFIP for at least the term of the lease.
☐ (f) Special projects for the purpose of improving efficiency of utilities or installing renewable energy that involve the repair, rehabilitation, modernization, weatherization, or improvement of existing structures or infrastructure, do not meet the thresholds for "substantial improvement" under § 55.2(b)(12), and do not include the installation of equipment below the FFRMS floodplain elevation.

7.

Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.

☐ 5-Step Process is applicable per 55.14. Provide documentation of 5-Step Process. Select the applicable citation:
 □ (a) HUD actions involving the disposition of HUD-acquired multifamily housing projects o "bulk sales" of HUD-acquired one- to four-family properties in communities that are in the Regular Program of the National Flood Insurance Program (NFIP) and in good standing (i.e., not suspended from program eligibility or placed on probation under 4-CFR 59.24).
□ (b)HUD's actions under the National Housing Act (12 U.S.C. 1701) for the purchase o refinancing of existing multifamily housing projects, hospitals, nursing homes, assisted living facilities, board and care facilities, and intermediate care facilities, in communitie that are in good standing under the NFIP.
□ (c) HUD's or the recipient's actions under any HUD program involving the repair rehabilitation, modernization, weatherization, or improvement of existing multifamilitation, modernization, weatherization, or improvement of existing multifamilitation, modernization, weatherization, or improvement of existing multifamilitation, assisted living facilities, board and care facilities, intermediate care facilities, and one- to four-family properties, in communitie that are in the Regular Program of the National Flood Insurance Program (NFIP) and are in good standing, provided that the number of units is not increased more than 20 percent, the action does not involve a conversion from nonresidential to residential land use, the action does not meet the thresholds for "substantial improvement" under \$55.2(b)(10), and the footprint of the structure and paved areas is not increased by more than 20 percent.
 □ (d) HUD's (or the recipient's) actions under any HUD program involving the repair rehabilitation, modernization, weatherization, or improvement of existing nonresidential buildings and structures, in communities that are in the Regular Program of the NFIP and are in good standing, provided that the action does not meet the thresholds for "substantial improvement" under § 55.2(b)(10) and that the footprint of the structure and paved areas is not increased by more than 20 percent □ (e) HUD's or the recipient's actions under any HUD program involving the repair rehabilitation, or replacement of existing nonstructural improvements including streets curbs and gutters, where any increase of the total impervious surface area of the facilities de minimis. This provision does not include critical actions, levee systems, chemical storage facilities (including any tanks), wastewater facilities, or sewer lagoons.
Continue to Question 8. Mitigation.
☐ 8-Step Process applies. Provide a completed 8-Step Process, including the early public notice and the final notice.
Continue to Question 8. Mitigation.

8. Mitigation

For the project to comply with this section, all adverse impacts must be mitigated. Explain in detail the measures that must be implemented to mitigate the impact or effect, including the timeline for implementation. Note: newly constructed and substantially improved structures within the FFRMS floodplain must be elevated to the FFRMS floodplain elevation or floodproofed, if applicable.

N/A	
	f the following if any mitigation/minimization measures have been identified for this project in ep or 5-Step Process? Select all that apply.
	☐ Buyout and demolition or other supported clearance of floodplain structures
	$\hfill\square$ Insurance purchased in excess of statutory requirement under the Flood Disaster Protection Act of 1973
	☐ Permeable surfaces
	☐ Natural landscape enhancements that maintain or restore natural hydrology
	☐ Planting or restoring native plant species
	☐ Bioswales
	☐ Stormwater capture and reuse
	☐ Green or vegetative roofs with drainage provisions
	\square Natural Resources Conservation Service conservation easements or similar easements
	☐ Floodproofing of structures as allowable (e.g. non-residential floors)
	☐ Elevating structures (including freeboard above the required base flood elevations)
	☐ Levee or structural protection from flooding
	☐ Channelizing or redefining the floodway or floodplain through a Letter of Map Revision (LOMR)

Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- FIRM panel numbers
- CISA data or maps
- Information on other data or tools used or accessed
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

Include all documentation supporting your findings in your submission to HUD

See below.			

Worksheet Summary for 2013 Version

Compliance Determination

Attach 'Floodplain Management Partner Worksheet' (OMB No. 2506-0177), FIRM map indicating project location, and summary of 8-step or 5-step decision making process if applicable.

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

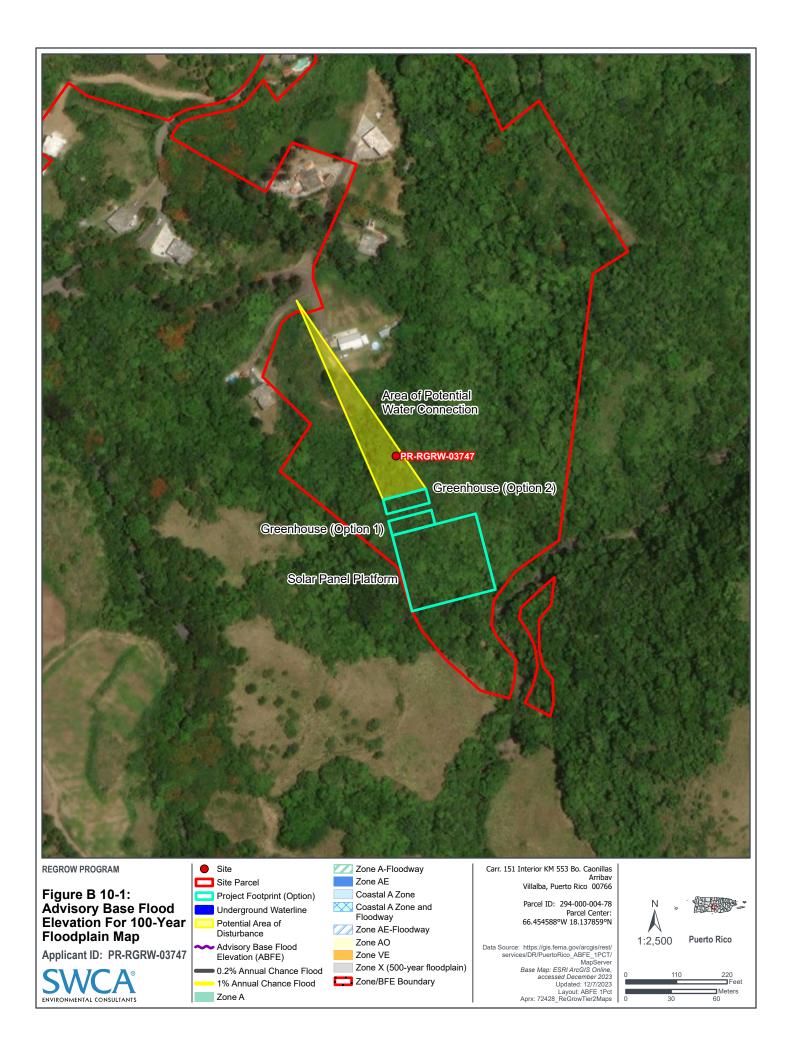
- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

Include all documentation supporting your findings in your submission to HUD

An Advisory Base Flood Elevation (ABFE) map was developed by FEMA, which shows the project sites are in Flood Zone X. The project is not located in the 100-year floodplain or ABFE special flood hazard area; therefore, no further action is required. The project is in compliance with Executive Order 11988, as amended by Executive Order 13690 particularly section 2(a); 24 CFR Part 55.

PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Villalba; therefore, PFIRM information was not available for the area and therefore not considered in the review.

HUD implemented new floodplain regulations under 89 FR 30850 effective June 24, 2024 which created the Federal Flood Risk Management Standard (FFRMS). The current project comprises non-critical actions that lie outside the 0.2-percent-annual-chance (500-year flood elevation), which is the approach used for this project to comply with the FFRMS.



Attachment 11 Historic Preservation Partner Worksheet and SHPO Consultation



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

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Historic Preservation (CEST and EA) - PARTNER

https://www.hudexchange.info/environmental-review/historic-preservation

Threshold

Is Section 106 review required for your project?

□ No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the <u>PA Database</u> to find applicable PAs.)

Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:

Click here to enter text.

→ Continue to the Worksheet Summary.

□ No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

Either provide the memo itself or a link to it here. Explain and justify the other determination here:

Click here to enter text.

→ Continue to the Worksheet Summary.

The Section 106 Process

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.

Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the When To Consult With Tribes checklist within Notice CPD-12-006: Process for Tribal Consultation to determine if the RE or HUD should invite tribes to consult on a particular project. Use the <u>Tribal Directory Assessment Tool (TDAT)</u> to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

List all organizations and individuals that you believe may have an interest in the project here: SHPO

→ Continue to Step 2.

Step 2 - Identify and Evaluate Historic Properties

Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE. Attach an additional page if necessary.

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the location of a greenhouse concrete base, a solar panels platform, and the water connections, plus a 15-meter horizontal buffer to allow for some variation in final placement during construction and the visual APE is the viewshed of the proposed project.

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

In the space below, list historic properties identified and evaluated in the APE.

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

Existing information on previously identified historic properties has been reviewed to

determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted archaeologist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological sites within a half-mile (mi) radius of the project location. Two SHPO Section 106 surveys have been conducted within the 0.5-mi review radius with no cultural resources found.

Código SHPO 06-13-16-01 is located approximately 0.44 mi northwest of the APE and consisted of two locations subjected to the Rehabilitation of Low and Moderate Income Occupied Housing. The survey was performed in 2016 on behalf of Community Development Block Grant (CDBG) and resulted in a negative survey. Código SHPO 06-09-10-08 is located approximately 0.47 mi northwest of the APE and was performed in support of a Housing Preservation Grant and Rehabilitation of Homes in the Neighborhoods of Villalba Arriba, Villalba Abajo, and Hato Puerco Arriba. The survey was performed in 2011 on behalf of the United States Department of Agriculture (USDA) and resulted in no cultural resources recorded.

The proposed project is located in a hilly central portion of the island in a rural setting at an elevation of 859 ft (262 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses one mapped soil series: QeE2 (Quebrada silty clay loam, 20-40 percent slopes, eroded). The project area APE is in the northeast portion of Municipio Villalba. The general project area is located on an agricultural setting upon a landform that slopes down to the south. The closest freshwater source is an unnamed tributary of Río Toa Vaca, located 0.05 mi (0.09 kilometers [km]) southeast of the project area. The southern coast is approximately 10.7 mi (17.1 km) from the project area.

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area is not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. Several Section 106 surveys have occurred inside the 0.5-mi review area. The closest one is Código SHPO 06-13-01, 0.44 mi northwest of the project site. The survey was completed in 2016 and funded by a Community Development Block Grant. A determination of no historic properties affected resulted. The next survey is Código SHPO 06-09-10-08, 0.47 mi to the northwest of the project site. The survey was performed in 2010 for a housing preservation grant from the USDA. The project area is in a rural and mountainous area of Villalba with tall vegetation and few clearings. The project area is east of Cespedes. All potential project locations are on the south facing slope of a terraced agricultural field. There are no historic age structures within 0.5 miles of the potential project areas, nor are there any structures within the viewshed of the potential project area. Google Earth imagery shows that land clearing occurred on the parcel in 2020. Prior to this date, the area was heavily treed. The structures would be built on land that has already been cleared. Historic Aerials

(https://www.historicaerials.com/viewer) and Earth Explorer (EarthExplorer (usgs.gov)) data sets concur. As the project site sits on an extremely large lot in a rural area that has previously been cleared, and due to the distance from surrounding buildings, no historic properties will be affected by the project.

Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.

Was a survey of historic buildings and/or archeological sites done as part of the project?

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, <u>Guidance on Archeological Investigations in HUD Projects</u>.

\square Yes \rightarrow Provide survey(s) and report(s) and continue to Step 3.
Additional notes:
Click here to enter text.
\square No \rightarrow Continue to Step 3.

Step 3 - Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (36 CFR 800.5) Consider direct and indirect effects as applicable as per HUD guidance.

Choose one of the findings below to recommend to the RE or HUD.

Please note: this is a recommendation only. It is **not** the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.

Document reason for finding:

- \boxtimes No historic properties present.
- ☐ Historic properties present, but project will have no effect upon them.

☐ No Adverse Effect

Document reason for finding and provide any comments below.

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

Click here to enter text.

☐ <u>Adverse</u> Effect

Document reason for finding:

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: 36 CFR 800.5]

Click here to enter text.

Provide any comments below:

Comments may include recommendations for avoidance, minimization, and/or mitigation.

Click here to enter text.

Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

Executive Director | Carlos A. Rubio Cancela | carubio@prshpo.pr.gov

Monday, April 29, 2024

Lauren B Poche

269 Avenida Ponce de Leon, San Juan, PR, 00917

SHPO-CF-04-22-24-03 PR-RGRW-03747 (Villalba), Agricola Lopez LLC

Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the National Historic Preservation Act, as amended) and 36 CFR Part 800: Protection of Historic Properties from the Advisory Council on Historic Preservation. The State Historic Preservation Officer (SHPO) is to advise and assist federal agencies and other responsible entities when identifying historic properties, assessing effects upon them, and considering alternatives to avoid or reduce the project's effects.

Our records support your finding of no historic properties affected within the project's area of potential effects.

Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately. If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

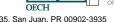
Carlos A. Rubio Cancela

State Historic Preservation Officer

my afartir

CARC/GMO/OJR









April 22, 2024

Carlos A. Rubio Cancela State Historic Preservation Officer Puerto Rico State Historic Preservation Office Cuartel de Ballajá (Tercer Piso) San Juan, PR 00902-3935

Puerto Rico Disaster Recovery, CDBG-DR Re-Grow PR Urban-Rural Agricultural (Re-Grow PR) Program

Section 106 NHPA Effect Determination Submittal: PR-RGRW-03747 – Agricola Lopez LLC – Carr. 151 Interior KM 553, Bo. Caonillas Arriba, Villalba, Puerto Rico – No Historic Properties Affected

Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH). On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds were approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Agricola Lopez LLC, located at CARR. 151 Interior KM 553 BO. Caonillas Arriba, in the municipality of Villalba. The project's undertaking includes installing a new hydroponic greenhouse, new solar panels, and new below-ground water lines. Two location options are being considered for the greenhouse. The proposed greenhouse is approximately 3,072 square feet (sq ft) (96 feet [ft] by 32 ft) with a maximum height of approximately 17 feet (ft). The greenhouse will be constructed on a concrete base with a maximum depth of 2 ft and will be secured with 12 supporting poles, each 8 ft apart that will be anchored in the ground through 8-inch-diameter holes that extend 2 ft deep. The solar panels will be approximately 700 sq ft in size and be mounted on a platform; the maximum depth of disturbance for posts and other ground disturbing activities is 2 ft. The new solar panels will provide electricity for the greenhouse via aboveground cables. Both



greenhouse site options and the reviewed solar panel area are sloped and will require grading and vegetation clearing.

A new below-ground waterline will be installed from the existing water meter a distance of 465 ft to supply water to the new greenhouse; the trench will be approximately 4 ft wide and 2 ft deep. The area where the trench will be dug is also where delivery trucks will drive to deliver the greenhouses, so extensive vegetation clearing will be required.

Based on the submitted documentation, the Program requests a concurrence that a finding of no historic properties affected is appropriate for this proposed project.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns.

Kindest regards,

Lauren Bair Poche, M.A.

Architectural Historian, EHP Senior Manager
LBP/JLE

Attachments

REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Case ID: PR-RGRW-03747 City: Villalba

Project Location: Carretera 151 Interior KM 553 BO. Caonillas Arriba, Villalba, PR 00766

Project Coordinates: (as provided by applicant during field visit)

Area of Potential Water Connection: 18.138016, -66.45476

Greenhouse Option 1: 18.137460, -66.454488 Greenhouse Option 2: 18.137588, -66.454523 Solar Panel Platform: 18.137223, -66.454288

TPID (Número de Catastro): 294-000-004-78-000

Type of Undertaking:

 \square Substantial Repair/Improvements

☑ New Construction

Area of Potential Water Connection: 0.042 acres (1,860 sq. ft.)

GOVERNMENT OF PUERTO RICO

Greenhouse (Option 1): 0.070 acre (3,072 sq. ft) Greenhouse (Option 2): 0.070 acre (3,072 sq. ft) Solar Panel Platform: 0.016 acre (700 sq. ft)

SOI-Qualified Architect/Architectural Historian: Ella McIntire, M.A.

Date Reviewed: February 2, 2024

SOI-Qualified Archaeologist: Brian McNamara, M.A., R.P.A.

Date Reviewed: January 17, 2024

In compliance with Section 106 of the National Historic Preservation Act (NHPA), the Program is responsible for identifying historic properties listed in the NRHP and any properties not listed that would be considered eligible for listing that are located within the geographic area of potential effects (APE) of the proposed project and assessing the potential effects of its undertakings on these historic properties.

Project Description (Undertaking)

The proposed project involves the installation of a new hydroponic greenhouse and solar panels. The proposed greenhouse is approximately 3,072 square feet (sq ft) (96 ft by 32 ft) with a maximum height of approximately 17 ft. The greenhouse will be constructed on a concrete base with a maximum depth of 2 ft and will be secured with 12 supporting poles, each 8 ft apart that will be anchored in the ground through 8-inch (in) diameter holes that extend 2 ft deep. The solar panels will be placed on a platform right next to the greenhouse in a configuration that meets the requirements of the solar company. An area south, southeast, and directly east of Greenhouse Option 1 was environmentally cleared at the time of this review because the solar panel company had yet to visit the property to determine the best location for the solar panels. Because the entire area does not pose any environmental impacts/effects the panels can be placed anywhere within the allotted space. The maximum area of disturbance for the solar panel platform will be approximately

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747

City: Villalba

700 sq ft within an identified space that is 170 ft by 187 ft (31,775 sq ft [0.729 acres]). The platform will have a maximum depth for posts and other ground disturbing activities of 2 ft. Both greenhouse site options and the reviewed solar panel area are sloped and will require grading and vegetation clearing.

All water connections will be made from the water meter 34 ft southwest of the southern entrance to the parcel to the existing irrigation system. The new water lines will be ½ in wide PVC pipes that will be approximately 465 ft long by 4 ft wide with a maximum depth of 2ft. The existing water source is supplied by municipal water from the Puerto Rico Aqueducts and Sewers Authority (PRASA). The exact route the waterlines will take from the water meter to the greenhouse is not yet known; therefore, the maximum route for the lines was assessed and it was determined that the environmental impacts remain the same no matter where they are installed within the identified area. The area where the trench will be dug is also where delivery trucks will drive to deliver the greenhouses, so extensive vegetation clearing will be required. The new solar panels will provide electricity for the greenhouse via aboveground cables. The water and electrical connections are not part of the Intended Use of Grant Funds.

A riverine wetland crosses the southern boundary of the parcel approximately 25 ft outside the project areas and will not be impacted by the project if BMPs, such as silt fencing and erosion control, are implemented during any ground-disturbing activities. The project will include ground disturbance and no tree clearing is required for construction, although vegetation removal is. The applicant owns the property; therefore, no acquisition is required.

Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the location of a greenhouse concrete base, a solar panels platform, and the water connections, plus a 15-meter horizontal buffer to allow for some variation in final placement during construction and the visual APE is the viewshed of the proposed project.

Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information by a Program contracted archaeologist meeting the Secretary

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747

City: Villalba

of the Interior's Professional Qualification Standards (36 CFR Part 61) who searched the records at the SHPO and the Instituto de Cultura Puertorriqueña which shows that there are no reported archaeological sites within a half-mile (mi) radius of the project location. Two SHPO Section 106 surveys have been conducted within the 0.5-mi review radius with no cultural resources found.

Código SHPO 06-13-16-01 is located approximately 0.44 mi northwest of the APE and consisted of two locations subjected to the Rehabilitation of Low and Moderate Income Occupied Housing. The survey was performed in 2016 on behalf of Community Development Block Grant (CDBG) and resulted in a negative survey. Código SHPO 06-09-10-08 is located approximately 0.47 mi northwest of the APE and was performed in support of a Housing Preservation Grant and Rehabilitation of Homes in the Neighborhoods of Villalba Arriba, Villalba Abajo, and Hato Puerco Arriba. The survey was performed in 2011 on behalf of the United States Department of Agriculture (USDA) and resulted in no cultural resources recorded.

The proposed project is located in a hilly central portion of the island in a rural setting at an elevation of 859 ft (262 meters [m]) above mean sea level. Per the USGS/NRCS Web Soil Survey, the project area crosses one mapped soil series: QeE2 (Quebrada silty clay loam, 20-40 percent slopes, eroded). The project area APE is in the northeast portion of Municipio Villalba. The general project area is located on an agricultural setting upon a landform that slopes down to the south. The closest freshwater source is an unnamed tributary of Río Toa Vaca, located 0.05 mi (0.09 kilometers [km]) southeast of the project area. The southern coast is approximately 10.7 mi (17.1 km) from the project area.

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area is not within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. Several Section 106 surveys have occurred inside the 0.5-mi review area. The closest one is Código SHPO 06-13-01, 0.44 mi northwest of the project site. The survey was completed in 2016 and funded by a Community Development Block Grant. A determination of no historic properties affected resulted. The next survey is Código SHPO 06-09-10-08, 0.47 mi to the northwest of the project site. The survey was performed in 2010 for a housing preservation grant from the USDA.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM
REGROW PUERTO RICO PROGRAM
Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747

City: Villalba

The project area is in a rural and mountainous area of Villalba with tall vegetation and few clearings. The project area is east of Cespedes. All potential project locations are on the south facing slope of a terraced agricultural field. There are no historic age structures within 0.5 miles of the potential project areas, nor are there any structures within the viewshed of the potential project area. Google Earth imagery shows that land clearing occurred on the parcel in 2020. Prior to this date, the area was heavily treed. The structures would be built on land that has already been cleared. Historic (https://www.historicaerials.com/viewer) and Earth Explorer (EarthExplorer (usgs.gov)) data sets concur. As the project site sits on an extremely large lot in a rural area that has previously been cleared, and due to the distance from surrounding buildings, no historic properties will be affected by the project.

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - o None or
- Indirect Effect:
 - o None

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the Area of Potential Effect. The project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no reported archaeological materials or significant cultural properties within a half-mile radius of the proposed project location. No known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-03747 is located. The closest freshwater body is approximately .05 mi (.09 km) southeast of the project area. The size of the proposed project activities is very small (0.070524 acres), construction of infrastructure, slope, and eroded soils have impacted the surrounding terrain. Therefore, no historic properties will be affected by the proposed project activities.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM	
REGROW PUERTO RICO PROGRAM	GOVERNMENT OF PUERTO RICO
Section 106 NHPA Effect Determination	
Applicant: Agrícola López LLC	'
Case ID: PR-RGRW-03747	City: Villalba

Recommendation (Please keep on same page as SHPO Staff Section)

The Puerto Rico Department of Housing requests that the Puerto Rico SHPO concur that the
following determination is appropriate for the undertaking (Choose One):

⋈ No Historic Properties Affected
□ No Adverse Effect
Condition (if applicable):
□ Adverse Effect
Proposed Resolution (if appliable)

This Section is to be Completed by SHPO Staff Only

, , , , , , , , , , , , , , , , , , , ,	- /
The Puerto Rico State Historic Preservation Office has reviewed and:	d the above information
□ Concurs with the information provided.	
·	
□ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:



Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Project (Parcel) Location – Area of Potential Effect Map (Aerial) Area of Potential Water Connection **Creenhouse (Option 2) Creenhouse (Option 1)** Solar Panel Platform Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 REGROW PROGRAM Project Location Area of Potential Effects (APE) Map ☐ Site Parcel Parcel ID: 294-000-004-78 Parcel Center: 66.454588°W 18.137859°N Project Footprint (Option) Applicant ID: PR-RGRW-03747 Potential Area of Disturbance

APE (Buffer (15-meters))



Case ID: PR-RGRW-03747 City: Villalba

Project (Parcel) Location - Aerial Map ea of Potential **Creenhouse (Option 2** enhouse (Option 1) Solar Panel Platform Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 REGROW PROGRAM Site Site Parcel Figure A-2: Site Vicinity Parcel ID: 294-000-004-78 Parcel Center: 66.45542°W 18.139332°N Potential Area of Disturbance Applicant ID: PR-RGRW-03747 Project Footprint (Option) SWCA* ENVIRONMENTAL CONSULTANTS Layout: Site Vicinity Aprx: 72428_ReGrowTier2Maps

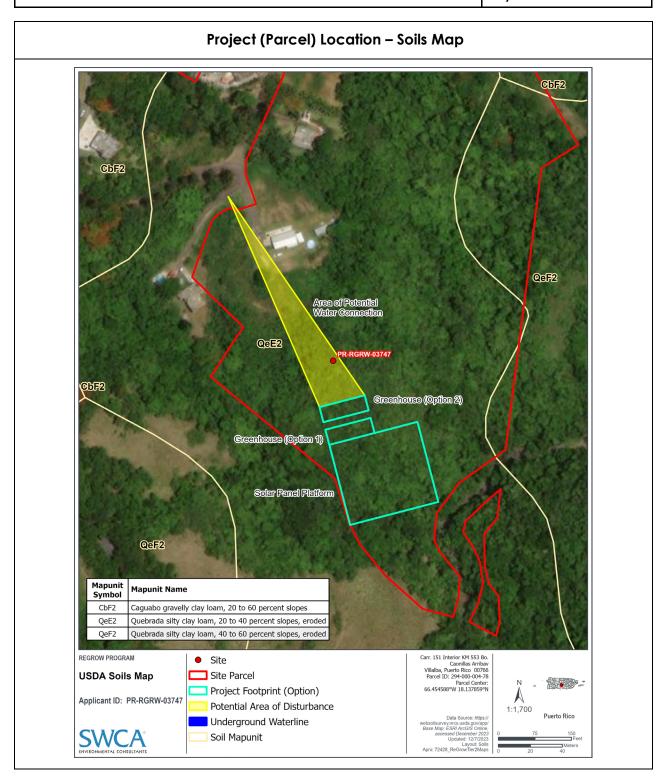


Case ID: PR-RGRW-03747 City: Villalba

Project (Parcel) Location - USGS Topographic Map 562 Caonillas Arriba Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 REGROW PROGRAM Site Figure A-1: Site Location Site Parcel Parcel ID: 294-000-004-78 Parcel Center: 66.454588°W 18.137859°N Applicant ID: PR-RGRW-03747 Layout: Site Locat Aprx: 72428_ReGrowTier2Ma



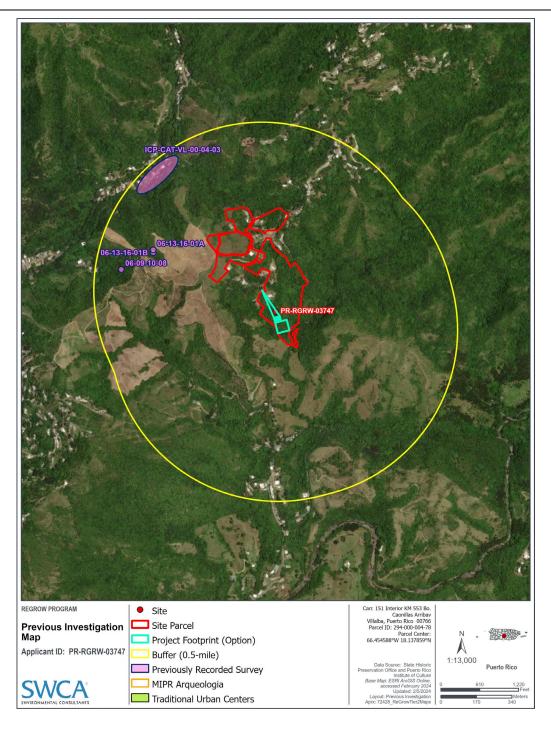
Case ID: PR-RGRW-03747 City: Villalba

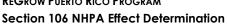




Case ID: PR-RGRW-03747 City: Villalba

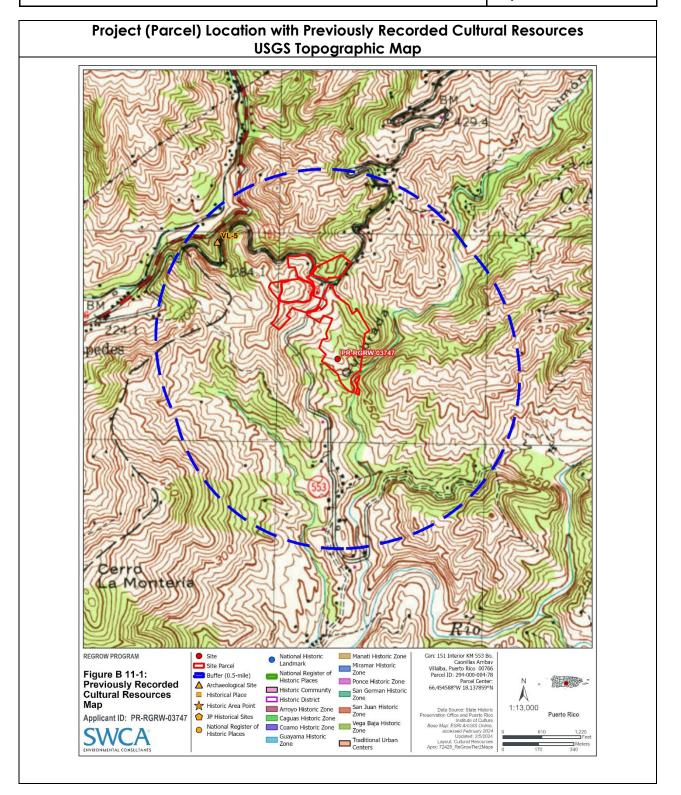
Project (Parcel) Location with Previous Investigations - Aerial Map







Case ID: PR-RGRW-03747 City: Villalba

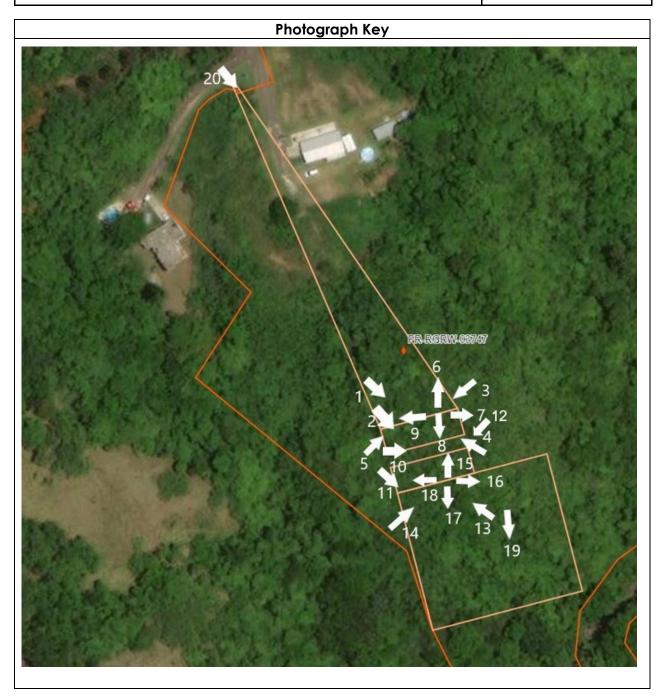


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination



Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
01	11/03/2023

Photo Direction:

Southeast

Description:

Overview of preferred location and second option for vertical hydroponic greenhouse 32x96ft.



GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

Photo #:	Date:
02	11/03/2023

Photo Direction:

Southeast

Description:

NW corner of second option site location for vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
03	11/03/2023

Photo Direction:

Southwest

Description:

NE corner of site location second option for vertical hydroponic greenhouse.



GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

Photo #:	Date:
04	11/03/2023

Photo Direction:

Northwest

Description:

SE corner of second option for vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
05	11/03/2023

Photo Direction:

Northeast

Description:

SW corner of second option for vertical hydroponic greenhouse.



GOVERNMENT OF PUERTO RICO

Photo #:	Date:
06	11/03/2023

Photo Direction:

North

Description:

Center point for second option for vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba



Photo #:	Date:
07	11/03/2023
Photo Direction:	

East

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #:	Date:	
08	11/03/2023	
	-	

Photo Direction:

South

Description:

Center point for second option for vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
09	11/03/2023

Photo Direction:

West

Description:

Center point for second option for vertical hydroponic greenhouse.



GOVERNMENT OF PUERTO RICO

Photo #:	Date:
10	11/03/2023

Photo Direction:

East

Description:

NW corner of site location for vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

0	GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
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Photo #:	Date:
11	11/03/2023
-1	

Photo Direction:

Southeast

Description:

NW corner of site location for vertical hydroponic greenhouse.

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Photo #:	Date:
12	11/03/2023

Photo Direction:

Southwest

Description:

NE corner of vertical hydroponic greenhouse.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
13	11/03/2023

Photo Direction:

Northwest

Description:

SE corner of site location for vertical hydroponic greenhouse.



GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

Photo #:	Date:
14	11/03/2023

Photo Direction:

Northeast

Description:

SW corner of site location for vertical hydroponic greenhouse 32x96ft.



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
15 11/03/2	11/03/2023
Photo Dir	ection:

North **Description:**

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

 Photo #:
 Date:

 16
 11/03/2023

Photo Direction:

East

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



REGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
17	11/03/2023

Photo Direction:

South

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING

Photo #: Date: 11/03/2023 18 **Photo Direction:**

West

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM



Section 106 NHPA Effect Determination

Applicant: Agrícola López LLC

Case ID: PR-RGRW-03747 City: Villalba

Photo #:	Date:
19	11/03/2023
Photo Dire	
South	
Descriptio	
Creek t	•
along prop	perty line.
Photo #:	Date:
20	11/03/2023
Photo Dire	
Southeast	
Descriptio	
AAA/PRAS	cility source.
AAA) PRAS	oA.



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director State Historic Preservation Officer Cuartel de Ballajá Bldg. San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

The U.S. Department of Housing (HUD) approved the allocations of Community Development Block Grant (CDBG-DR) funds on February 9, 2018. It also approved the allocation of Community Development Block Grant Mitigation (CDBG-MIT) funds on January 27, 2020. The purpose of these allocations is to address unsatisfied needs as a result of Hurricanes Irma and Maria in September 2017; and to carry out strategic and high-impact activities to mitigate disaster risks and reduce future losses.

To comply with the environmental requirements established by HUD, the Department of Housing of Puerto Rico (PRDOH) contracted Horne Federal LLC to provide environmental registry review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

In line to expedite the processes, Horne Federal LLC, is authorized to submit to the State Historic Preservation Officer, documentation of projects related to both the CDBG-DR and CDBG-MIT on behalf of PRDOH.

Cordially,

Juan C Pérez Bofill, P.E. M.Eng Director of Disaster Recovery CDBG DR-MIT

Attachment 12 Wetlands Protection Partner Worksheet and Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Wetlands (CEST and EA) – Partner

https://www.hudexchange.info/environmental-review/wetlands-protection

<u>µs./</u>	/www.nudexchange.nno/environmental-review/wetlands-protection
1.	Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any any structures or facilities. □ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
	\boxtimes Yes \rightarrow Continue to Question 2.
2.	Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?
	\boxtimes No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.
	\square Yes \rightarrow Work with HUD or the RE to assist with the 8-Step Process. Continue to Question 3.
3.	Does Section 55.12 state that the 8-Step Process is not required?
	 □ No, the 8-Step Process applies. This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements. → Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.
	 □ 5-Step Process is applicable per 55.12(a). Provide the applicable citation at 24 CFR 55.12(a) here. Click here to enter text. → Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.
	□ 8-Step Process is inapplicable per 55.12(b). Provide the applicable citation at 24 CFR 55.12(b) here. Click here to enter text.

- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.
- ☐ 8-Step Process is inapplicable per 55.12(c).

Provide the applicable citation at 24 CFR 55.12(c) here.

Click here to enter text.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

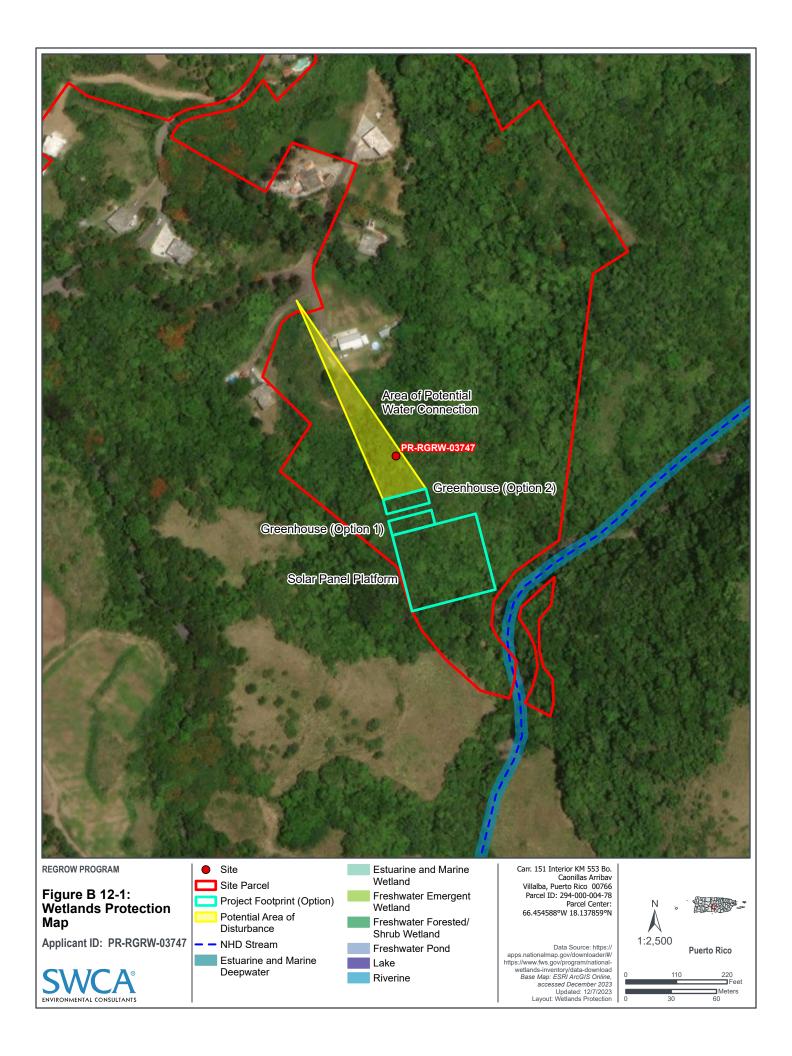
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project site was reviewed for wetlands using the USFWS Wetland Inventory Mapper accessed on December 7, 2023 which was confirmed during the field site inspection. The riverine wetland (shown as an NHD stream on Figure B 12-1) is located approximately 40 ft east of the solar panel platform at its closest point and will not be affected by project activities if best management practices, such as silt fencing and erosion control, are implemented during any ground-disturbing activities. No further evaluation is required. The project is in compliance with Executive Order 11990.



Attachment 13 Wild and Scenic Rivers Partner Worksheet and Wild and Scenic Rivers Map

Wild and Scenic Rivers (CEST and EA) – PARTNER

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

General requirements	Legislation	Regulation						
The Wild and Scenic Rivers Act	The Wild and Scenic Rivers	36 CFR Part 297						
provides federal protection for	Act (16 U.S.C. 1271-1287),							
certain free-flowing, wild, scenic	particularly section 7(b) and							
and recreational rivers	(c) (16 U.S.C. 1278(b) and (c))							
designated as components or								
potential components of the								
National Wild and Scenic Rivers								
System (NWSRS) from the effects								
of construction or development.								
References								
https://www.hudexchange.info/en	vironmental-review/wild-and-so	https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers						

1. Is your project within proximity of a NWSRS river as defined below?

Wild & Scenic Rivers: These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

<u>Study Rivers:</u> These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

<u>Nationwide Rivers Inventory (NRI):</u> The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

- \boxtimes No
- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.
- → Continue to Question 2.

2. Could the project do any of the following?

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

<u>Note</u>: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

No, the Managing Agency has concurred that the proposed project will not alter, directly,
or indirectly, any of the characteristics that qualifies or potentially qualifies the river for
inclusion in the NWSRS.

- → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.
- ☐ Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.
- → The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.

Worksheet Summary

Compliance Determination

Provide a clear description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your region

A review of the USFWS National Wild and Scenic River mapper identified no Wild and Scenic Rivers or National Rivers Inventory (NRI) rivers present in Villalba Municipio. The closest Wild and Scenic River segment is located 235,187 ft (45 mi) from the project site. No further evaluation is required. The project is in compliance with the Wild and Scenic Rivers Act.

Are formal con	npliance steps or mitigation required?
\square Yes	
⊠ No	

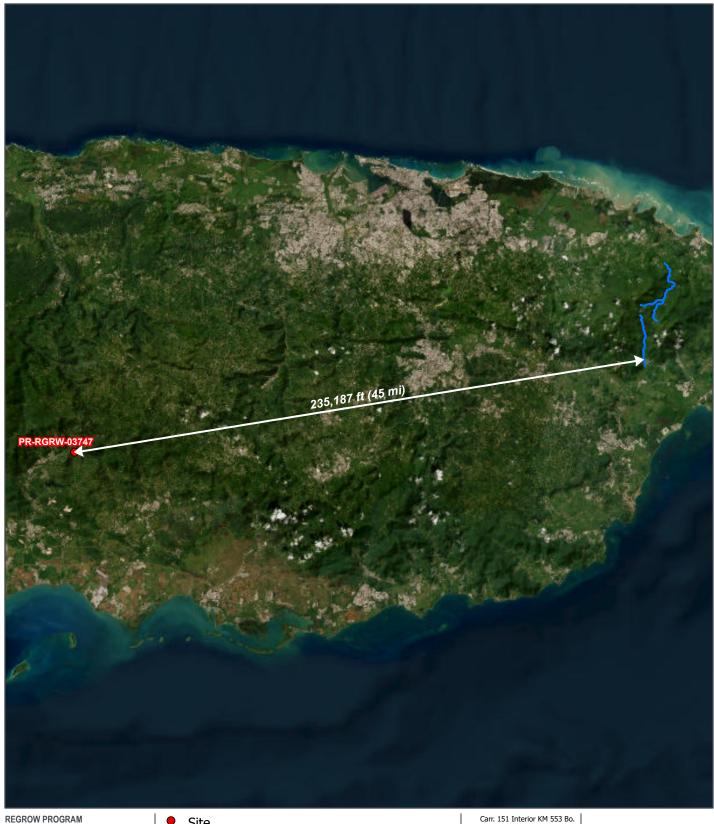


Figure B 13-1: National Wild and Scenic River Map

Applicant ID: PR-RGRW-03747



National Wild and Scenic River

Carr. 151 Interior KM 553 Bo. Caonillas Arribav Villalba, Puerto Rico 00766 Parcel ID: 294-000-004-78 Parcel Center: 66.120178°W 18.189552°N

Data Source: https://apps.fs.usda.gov/ arcx/rest/services/EDW/ EDW_WildScenicRiverSegments_01/ mapserver Base Map: ESRI ArcGIS Online, accessed December 2023 Updated: 12/7/2023



0	20,000	40,000
		Feet Meters
0	6,000	12,000

Attachment 14 Environmental Justice Partner Worksheet and EJScreen Report



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Environmental Justice (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental-review/environmental-justice

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

- 1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?
 - \square Yes à Continue to Question 2.
 - ⊠No à If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
- 2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

□Yes

Explain:

Click here to enter text.

à The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.

□No

Explain:

Click here to enter text.

à If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The ReGrow Program intends to alleviate negative economic impacts to, and strengthen, the agricultural industry in Puerto Rico. The project's direct and indirect impacts are limited to a small area on a single land parcel. The project will benefit the farm owner by improving agricultural use and production. The project would not facilitate development that would negatively affect human health or result in disproportionate adverse environmental impacts to low-income or minority populations. The project is in compliance with Executive Order 12898.

EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

Villalba Municipio,

1 mile Ring Centered at 18.137073,-66.454496 Population: 1,481 Area in square miles: 3.14

A3 Landscape

COMMUNITY INFORMATION

Less than high People of color: 100 percent

Persons with disabilities: 23 percent

N/A \$10,375

Per capita Average life expectancy

85 percent

Unemployment:

24 percent



school education: 18 percent

Male: 50 percent

households: 486



Limited English households: 72 percent

Female: 50 percent

occupied: 83 percent

LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	5%
Spanish	95%
Total Non-English	95%

BREAKDOWN BY RACE



Hawaiian/Pacific

Islander: 0%

Other race: 0%

Two or more

races: N%

Asian: 0% Hispanic: 100%

BREAKDOWN BY AGE

From Ages 1 to 4 3% From Ages 1 to 18 20% From Ages 18 and up 80% From Ages 65 and up 20%

LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish 100% Speak Other Indo-European Languages 0% Speak Asian-Pacific Island Languages 0% **Speak Other Languages** 0%

Notes: Numbers may not sum to totals due to rounding, Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017 -2021. Life expectancy data comes from the Centers for Disease Control.

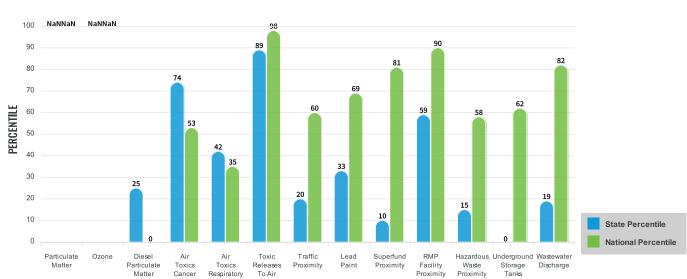
Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the EJScreen website.

EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of colo populations with a single environmental indicator.

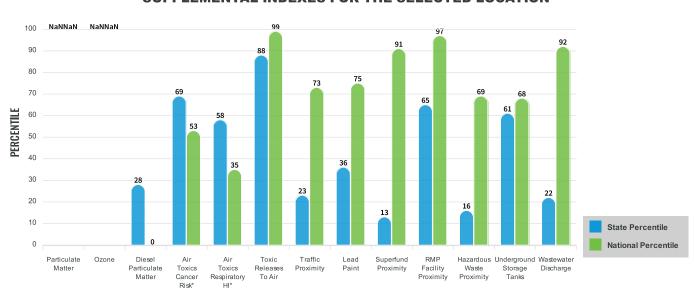
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring Centered at 18.137073,-66.454496

 \equiv

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE In State	USA AVERAGE	PERCENTILE IN USA			
POLLUTION AND SOURCES								
Particulate Matter (µg/m³)	N/A	N/A	N/A	8.08	N/A			
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A			
Diesel Particulate Matter (µg/m³)	0.0199	0.0667	24	0.261	0			
Air Toxics Cancer Risk* (lifetime risk per million)	20	20	15	25	5			
Air Toxics Respiratory HI*	0.19	0.19	0	0.31	1			
Toxic Releases to Air	2,300	4,300	83	4,600	75			
Traffic Proximity (daily traffic count/distance to road)	15	180	19	210	21			
Lead Paint (% Pre-1960 Housing)	0.053	0.16	35	0.3	27			
Superfund Proximity (site count/km distance)	0.04	0.15	9	0.13	36			
RMP Facility Proximity (facility count/km distance)	0.21	0.47	55	0.43	58			
Hazardous Waste Proximity (facility count/km distance)	0.093	0.76	14	1.9	18			
Underground Storage Tanks (count/km²)		1.7	61	3.9	37			
Wastewater Discharge (toxicity-weighted concentration/m distance)		2.3	18	22	38			
SOCIOECONOMIC INDICATORS								
Demographic Index	92%	83%	71	35%	99			
Supplemental Demographic Index	50%	43%	65	14%	99			
People of Color	100%	96%	29	39%	97			
Low Income	85%	70%	70	31%	98			
Unemployment Rate	24%	15%	78	6%	97			
Limited English Speaking Households	73%	67%	56	5%	99			
Less Than High School Education	18%	21%	43	12%	78			
Under Age 5	3%	4%	58	6%	36			
Over Age 64	20%	22%	42	17%	66			
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A			

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPAS Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air foxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specified individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update.

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring Centered at 18.137073,-66.454496

Other community features within defined area:

Schools 0	
Hospitals	
Places of Worship	

Other environmental data:

Air Non-attainment	No
Impaired Waters	
	No

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS						
INDICATOR VALUE STATE AVERAGE STATE PERCENTILE US AVERAGE US PERCENTILE						
Low Life Expectancy	N/A	N/A	N/A	20%	N/A	
Heart Disease	N/A	N/A	N/A	6.1	N/A	
Asthma	N/A	N/A	N/A	10	N/A	
Cancer	N/A	N/A	N/A	6.1	N/A	
Persons with Disabilities	23.3%	21.6%	59	13.4%	93	

CLIMATE INDICATORS							
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE		
Flood Risk	N/A	N/A	N/A	12%	N/A		
Wildfire Risk	N/A	N/A	N/A	14%	N/A		

CRITICAL SERVICE GAPS						
INDICATOR VALUE STATE AVERAGE STATE PERCENTILE US AVERAGE US PERCENTILE						
Broadband Internet	27%	32%	45	14%	86	
Lack of Health Insurance	3%	7%	15	9%	23	
Housing Burden	No	N/A	N/A	N/A	N/A	
Transportation Access	No	N/A	N/A	N/A	N/A	
Food Desert	No	N/A	N/A	N/A	N/A	

Footnotes

Report for 1 mile Ring Centered at 18.137073,-66.454496

Attachment 15 Sole Source Aquifer Partner Worksheet and Map



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

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Sole Source Aquifers (CEST and EA) - PARTNER

30	Die Source Aquirers (CEST and EA) - PARTNER
<u>ht</u>	tps://www.hudexchange.info/environmental-review/sole-source-aquifers
1.	Is the project located on a sole source aquifer (SSA)¹? ⊠No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.
	□Yes → Continue to Question 2.
2.	Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)? □Yes → The review is in compliance with this section. Continue to the Worksheet Summary below.
	\square No \rightarrow Continue to Question 3.
3.	Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer? Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area. □Yes → Continue to Question 4.
	\square No \rightarrow Continue to Question 5.
4.	Does your MOU or working agreement exclude your project from further review? □Yes → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.
	\square No \rightarrow Continue to Question 5.
5.	Will the proposed project contaminate the aquifer and create a significant hazard to public health?

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area.

¹ A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

- □No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.
- ☐Yes → The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.

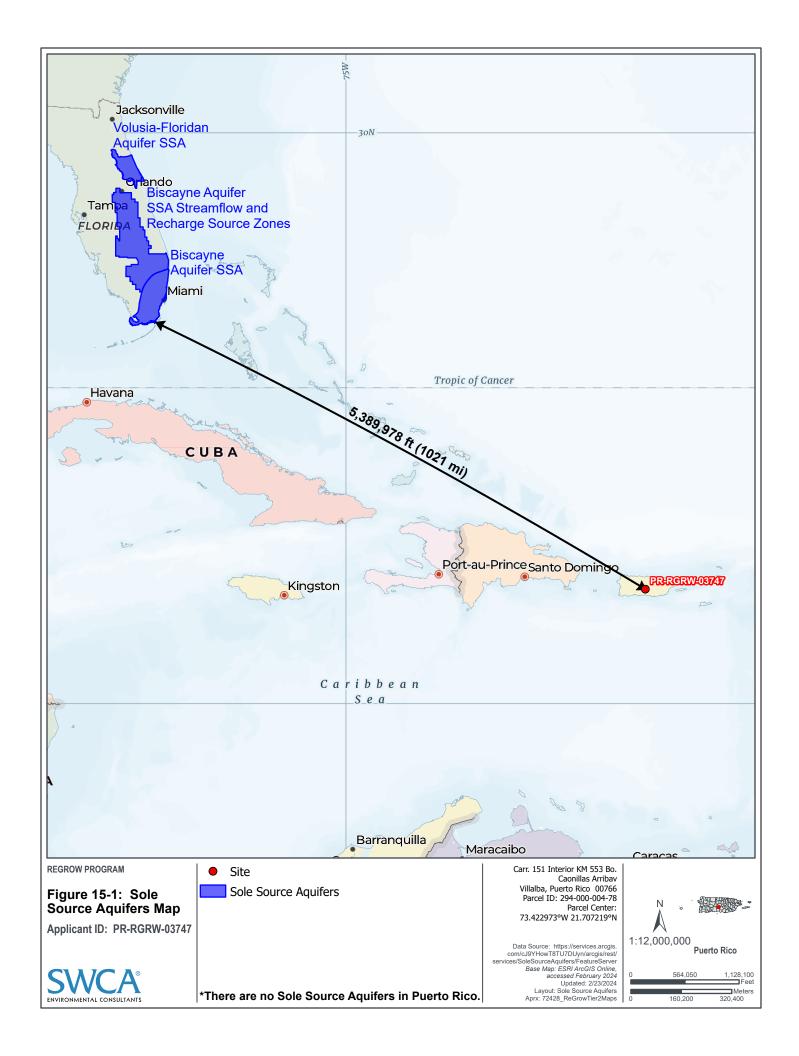
Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

According to the USEPA's Source Water Protection, Sole Source Aquifer Protection Program, there are no sole source aquifers in Puerto Rico. No further evaluation is required. The project is in compliance with the Safe Drinking Water Act.



Appendix C Environmental Site Inspection Report



ENVIRONMENTAL FIELD ASSESSMENT FORM ReGrow



Applicant Name: Victor Lopez	Program ID: PR-RGRW-03747
Project Coordinates: 18.137069, -66.454526	Parcel ID:
Parcel Address: CARR. 151 INTERIOR KM 553 BO.	Municipio: Yabucoa
Zip Code 00766	

General Site Conditions

Was property accessible by vehicle?	Yes / No	Comment:
Access issues?	Yes / No	Comment: None / Examples of manual entry: Dogs, Locked gate, Traffic hazards, Uncooperative residents, Confrontational Neighbors.
Are water wells present?	Yes / No	Comment:
Are creeks or ponds present?	Yes / No	Comment: Creek goes along the property line, south of site location.
Are any potential wetlands onsite or visible on adjacent parcel?	Yes / No	Comment:

Parcel Conditions

Note – for Any Yes answers specify type, contents and location

Do any of the proposed project work areas show evidence of site preparation?	Yes / No	Comment: If yes, ask applicant when the preparation work was completed.
Are commercial or industrial hazardous facilities at parcel or within visual sight?	Yes / No	Comment:
Are there signs of underground storage tanks?	Yes /	Comment:
Are above-ground tanks >10 gallons present? If Yes, also state condition.	Yes / No	Comment:
Are 55-gallon drums present? If Yes, also state condition.	Yes / No	Comment:



ENVIRONMENTAL FIELD ASSESSMENT FORM ReGrow



Are abandoned vehicles or electrical equipment present?	Yes / No	Comment:
Is other potential environmentally hazardous debris on the parcel?	Yes / No	Comment:
Is there non-environmentally hazardous debris on the parcel?	Yes / No	Comment:
Are any leaks, soil stains, or stressed vegetation present associated with any of the above or separately?	Yes / No	Comment:
Are there any pungent, foul or noxious odors?	Yes / No	Comment:
Are there any potentially hazardous trees that could fall?	Yes / No	Comment:
Are any bird nests visible?	Yes / No	Comment:
Are there any animal burrows visible?	Yes / No	Comment:
Are there any buildings in direct visual sight of the project locations?	Yes /	Comment: Take photo and ask applicant when built, if present.

Additional Needs Analysis

Based on the above findings, does additional information need to be obtained from the applicant to determine whether an environmental hazard is present?	Yes / No	Comment:
--	-------------	----------

☑ I verify that I have physically visited this property and that the findings outlined above are accurate.

Inspector Signature *Armando Ramos* {Inspector Name} Armando Ramos {Inspection Date} 11/03/2023



ENVIRONMENTAL FIELD ASSESSMENT FORM ReGrow



Following pages are used for:

Location Map with parcel boundaries and building point (Aerial base with streets labelled) Photos taken during inspection, with Date / Type / Direction associated with the photo

Project #: PR-RGRW-03747	Photographer: Armando Ramos
Location Address: CARR. 151 INTERIOR KM 553	Coordinates: 18.137069, -66.454526
BO. CAONILLAS ARRIBAV, Villalba, PR 00766	

Frame #	View	Description
01	SE	Overview of preferred location and second option for vertical hydroponic
		greenhouse 32x96ft.
02	SE	NW corner of second option site location for vertical hydroponic greenhouse.
03	SW	NE corner of site location second option for vertical hydroponic greenhouse.
04	NW	SE corner of second option for vertical hydroponic greenhouse.
05	NE	SW corner of second option for vertical hydroponic greenhouse.
06	N	Center point for second option for vertical hydroponic greenhouse.
07	E	Center point for second option for vertical hydroponic greenhouse.
08	S	Center point for second option for vertical hydroponic greenhouse.
09	W	Center point for second option for vertical hydroponic greenhouse.
10	Е	NW corner of site location for vertical hydroponic greenhouse.
11	SE	NW corner of site location for vertical hydroponic greenhouse.
12	SW	NE corner of vertical hydroponic greenhouse.
13	NW	SE corner of site location for vertical hydroponic greenhouse.
14	NE	SW corner of site location for vertical hydroponic greenhouse 32x96ft.
15	N	Center point of site location for a vertical hydroponic greenhouse 32x96ft.
16	E	Center point of site location for a vertical hydroponic greenhouse 32x96ft.
17	S	Center point of site location for a vertical hydroponic greenhouse 32x96ft.
18	W	Center point of site location for a vertical hydroponic greenhouse 32x96ft.
19	S	Creek that passes along property line.
20	SE	Water utility source. AAA/PRASA.
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Project #: PR-RGRW-03747	Photographer: Armando Ramos
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60	
60	

Photo #: 01

Date: 11/03/2 023

Photo Direction:

Southeast

Description:

Overview of preferred location and second option for vertical hydroponic greenhouse 32x96ft.



Photo #: 02

Date: 11/03/2 023

Photo Direction:

Southeast

Description:

NW corner of second option site location for vertical hydroponic greenhouse.



Photo #: 03

Date: 11/03/2 023

Photo Direction:

Southwest

Description:

NE corner of site location second option for vertical hydroponic greenhouse.



Photo #: 04

Date: 11/03/2 023

Photo Direction:

Northwest

Description:

SE corner of second option for vertical hydroponic greenhouse.



Project #: PR-RGRW-03747	Photographer: Armando Ramos
Location Address: CARR. 151 INTERIOR KM 553	Coordinates: 18.137069, -66.454526
BO. CAONILLAS ARRIBAV, Villalba, PR 00766	

Photo #: 05

Date: 11/03/2 023

Photo Direction:

Northeast

Description:

SW corner of second option for vertical hydroponic greenhouse.



Photo #: 06

Date: 11/03/2 023

Photo Direction:

North

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 07

Date: 11/03/2 023

Photo Direction:

East

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 08

Date: 11/03/2 023

Photo Direction:

South

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 09

Date: 11/03/2 023

Photo Direction:

West

Description:

Center point for second option for vertical hydroponic greenhouse.



Photo #: 10 **Date:** 11/03/2 023

Photo Direction:

East

Description:

NW corner of site location for vertical hydroponic greenhouse.



Photo #: 11

Date: 11/03/2023

Photo Direction:

Southeast

Description:

NW corner of site location for vertical hydroponic greenhouse.



Photo #:

12

Date: 11/03/2023

Photo Direction:

Southwest

Description:

NE corner of vertical hydroponic greenhouse.



Photo#:
13

Date: 11/03/2023

Photo Direction:

Northwest

Description:

SE corner of site location for vertical hydroponic greenhouse.



Photo#:
14

Date: 11/03/2023

Photo Direction:

Northeast

Description:

SW corner of site location for vertical hydroponic greenhouse 32x96ft.



Photo#:
15

Date: 11/03/2023

Photo Direction:

North

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
16

Date: 11/03/2023

Photo Direction:

East

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
17

Date: 11/03/2023

Photo Direction:

South

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
18

Date: 11/03/2023

Photo Direction:

West

Description:

Center point of site location for a vertical hydroponic greenhouse 32x96ft.



Photo#:
19

Date: 11/03/2023

Photo Direction:

South

Description:

Creek that passes along property line.



Photo#:
20

Date:

11/03/2023

Photo Direction:

Southeast

Description:

Water utility source. AAA/PRASA.

