

Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects

24 CFR Part 58

Project Information

Project ID: PR-RGRW-01795

Project Name: Irenia Caraballo Santiago

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: Puerto Rico/Adjuntas, PR

Preparer: Clifford Jarman

Certifying Officer Name and Title: Permit and Compliance Officers: Sally Acevedo Cosme, Pedro De León Rodríguez, María T. Torres Bregón, Ángel G. López-Guzmán, Ivelisse Lorenzo Torres, Santa Damarys Ramírez Lebrón, Mónica M. Machuca Ríos, Ianmario Heredia Diadone, and Janette I. Cambrelén, Limary Vélez-Marrero, Juan Carlos Perez Bofill, and Mónica Machuca Ríos.

Consultant (if applicable): Tetra Tech, 251 Calle Recinto Sur, Ste. 202, San Juan, PR 00091

Direct Comments to: PRDOH (environmentcdbg@vivienda.pr.gov)

Project Location:

The property is a 12.61-acre site located at Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior in the Municipality of Adjuntas, Puerto Rico (Parcel ID# 264-000-005-27-000). The coordinates of the project site are 18.180082, -66.817095.

The land is currently in used for the growing of chilies, eggplant, bananas, plantains, mandarins and coffee.

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

The proposed project area is approximately 0.09 acres. The proposed use of grant funds is for the purchase and installation of a new building and photovoltaic system.

The applicant plans to construct a new building at 18.179920, -66.817120 with an approximate area of 512 square feet and will measure approximately 36 feet (ft) by 16 ft. The galvalume structure will be constructed over an existing concrete pad. According to aerial photos this concrete pad was constructed sometime between the months of January and October of 2019.

Current concrete pad approximate dimensions are 53 ft x 25 ft. Eight 4"x4" support posts will be anchored into the ground requiring excavation of 2' by 2' areas for each post. The proposed structure will have galvalume walls and roof, windows and a rolling door. The new building is intended to be used for packing products such as, chilies, eggplant, bananas, plantains, mandarins and coffee. No water or electric power connections are required for the new building.

Additionally, the applicant plans to install a solar energy system on the roof of an existing 12 feet x 30 feet (360sqft) residential building (garage) located north of the new building site. The solar array is centered at 18.180390, -66.817020.

Site photos are included in **Appendix A**. A site map (Figure 1a and 1b) is included in **Appendix B**.

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

The Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) will increase agricultural capacity while promoting and increasing food security island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities. The purpose of this project is to increase the productivity of the farm. This agricultural project associated with the purchase and installation of a new building and photovoltaic system is keeping with the overall objectives of the Economic Development Program.

Existing Conditions and Trends [24 CFR 58.40(a)]:

The land proposed for the installation of the building is used for agricultural purposes. Therefore, there is no change in land use associated with the project. Some ground disturbance will be required.

Structure of this Environmental Review Report (ERR).

This ERR discusses the Funding Information immediately below. The environmental impacts of the proposed action are discussed in the Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities checklist and Environmental Factors checklist. The listing of Additional Studies Performed, and Sources, Agencies and Persons Consulted follows the checklists. The discussions of Public Outreach, Cumulative Impacts, Alternatives, and Summary of Findings and Conclusions are presented at the end of the ERR, before the listing of Mitigation Measures and Determination signatures. The appendices contain detailed information.

- Appendix A – Site Inspection
- Appendix B – Maps
- Appendix C – Additional Documentation
- Appendix D – Endangered Species
- Appendix E – SHPO Consultation

Funding Information

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

Estimated Total HUD Funded Amount: \$47,949

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$47,949

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 REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project consists of the purchase and installation of a new building and photovoltaic system. The nearest civil airport (Mercedita International Airport) is approximately 103,635 feet from the proposed site. The nearest military airport (Luis Muñoz Marín) is approximately 293,160 feet from the proposed site. The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. Refer to Figure 2 in Appendix B .
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in southwestern Puerto Rico. The distance to the nearest CBRS unit is 74,528 feet. Therefore, this project has no

Coastal Barrier Improvement Act of 1990 [16 USC 3501]		potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to Figure 3 in Appendix B.
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 <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not located in Zone X, area of minimal flood hazard per Floodplain Insurance Map 72000C1065J, effective date November 18, 2009. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in Appendix B.)

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not located in a county or air quality management district that is in non-attainment status for any criteria pollutants. The Municipio of Adjuntas is not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants". The purchase and installation of a new building and photovoltaic system would have no impact on air quality. The project is in compliance with Clean Air Act. Refer to EPA listing in Appendix C.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project is located 61,002 feet from the nearest Coastal Zone Management area and does not affect a Coastal Zone as defined in the PR Coastal Zone Management Plan. The project is in compliance with the Coastal Zone Management Act. See Figure 7 in Appendix B.
Contamination and Toxic Substances 24 CFR Part 58.5(i)(2)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	A site visit conducted on May 19, 2023, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were noted at the project site. Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project. There are no sites of environmental concern identified within 3,000 feet of the project site.

		<p>The project consists of the purchase and installation of a new building and photo voltaic system. Refer to Figures 8 and 9 in Appendix B. The project is in compliance with Contamination and Toxic Substances.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the purchase and installation of a new building (SOW 1) on an existing concrete pad and the installation of a photovoltaic system (SOW 2) on an existing building roof.</p> <p>According to EPA NEPAassist Enviromapper, the nearest critical or proposed critical habitat is 38,615 feet to the southwest of the project location. Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa, Puerto Rican Broad-winged Hawk, Puerto Rican Parrot, Puerto Rican Sharp-shinned Hawk, and Puerto Rican Harlequin Butterfly can be found, but there are no critical habitats at this location.</p> <p>A site-specific review of endangered species was conducted in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) (See Appendix D for full letter review).</p> <p>The proposed project will have No Effect on listed species or habitats. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, it was determined that there would be No Effect for any of the listed species.</p> <p>If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFWS Puerto Rican Boa Conservation Measures guidelines.</p> <p>Conservation measures are included in the ESA Package and IPaC Report included in Appendix D. Refer to Figures 10 and 11 in Appendix B. This</p>

		project is in compliance with the Endangered Species Act.I
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project does not include development, construction, or rehabilitation that will increase residential density.</p> <p>The project is in compliance with Explosive and Flammable Hazard requirements.</p> <p>Refer to site visit report in Appendix A.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is not designated as farmland of statewide importance nor prime farmland. The project consists of the purchase and installation of a new building and photovoltaic system. The project does not include any activities that could potentially convert agricultural land to nonagricultural use. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FPPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required.</p> <p>This project is in compliance with the FPPA. Refer to Figure 12 in Appendix B.</p>
<p>Floodplain Management</p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C1065J, effective date November 18, 2009. The project site is not located in Preliminary Firm or an Advisory Base Flood Elevation (ABFE) special flood hazard area. See Figures 4, 5 and 6 in Appendix B. This project is in compliance with Executive Order 11988.</p>
<p>Historic Preservation</p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The site was evaluated on August 4, 2023, by an SOI Qualified Architect/Architectural Historian. Additionally, the site was evaluated on August 17, 2023, by an SOI Qualified Archaeologist. Documentation with maps was subsequently submitted to SHPO on September 18, 2023 (Appendix E). SHPO concurred with a finding of No Historic Properties Affected within the project's Area of Potential on Effects on September 28, 2023. Refer to Figure 13 in Appendix B and the report in Appendix E. This</p>

		project is in compliance with Historic Preservation requirements.
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>HUD's noise regulations protect residential properties from excessive noise exposure. The project consists of the purchase and installation of a new building and photovoltaic system at a farm site. HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential property. The proposed project is in compliance with Noise Abatement and Control.</p>
<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The south coast is 64,830 feet south of the property. The closest fresh-water bodies include the Guayo River, NWI mapped as riverine, 711 feet west of the proposed project site, an unnamed creek tributary of the Limani River 2,600 feet to the northeast of property, the Limani River 3,599 feet east of the property, and Lake Guayo 6,685 feet northwest of the property.</p> <p>The National Wetland Inventory (NWI) maps show a feature defined riverine environment with an unconsolidated bottom is located inside the parcel boundary, approximately 711 feet west of the proposed project site. Due to the nature of the proposed work and distance to the wetland, it has been determined that the proposed work will not adversely affect the wetland.</p> <p>Standard construction BMPs would be used to control erosion and runoff during construction. With these mitigations the construction of the new building and photovoltaic system would not impact wetlands and includes no activities that would require further evaluation under this section.</p>

		The project is in compliance with Executive Order 11990. Refer to Figure 14 in Appendix B and NWI Site-Specific Wetland Review in Appendix D .
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 357,289 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in Appendix B .

ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately be high for low-income and/or minority communities. Therefore, this topic complies with Executive Order 12898.

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
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LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The project consists of the purchase and installation of a new building and photovoltaic system. The proposed project is located on a private farm. The project consists of the purchase and installation of a new building and photovoltaic system. The project site is designated as Specially Protected Rustic Land - Agricultural (SREP-A). The proposed action is compliant with the current agricultural land use of the Project area.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>The proposed project is located in mountainous terrain, previously used for agricultural purposes, and now used for chilies, eggplant, bananas, plantains, mandarins, and coffee. Soils in the proposed project area are classified as Alfonso Clay (AoF2), 40 to 60 percent slopes, The project area is surrounded by farmland with young and secondary forest vegetation cover, 610 meters above mean sea level.</p> <p>The project site will require some excavation to install support posts for the new building, but no grading will occur.</p> <p>The project site area is rated as “low” to “moderate” for landslide susceptibility (see Figure 16 in Appendix B). The proposed location of the new building will be installed on an existing concrete pad.</p> <p>There will be little to no additional runoff associated with the project.</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>During implementation of the project, construction activities may result in temporary elevation of ambient noise levels in immediate areas around active construction areas. The only nearby receptors are the residents of the farm.</p> <p>There is no access to the project area by the public. Standard BMPs, such as construction fencing, would be applied to protect the farm residents and public from typical construction hazards.</p>
Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	Temporary employment of workers related to construction activities would result, but no new permanent jobs would be created as a result of this project. These workers are expected

		<p>to come from the local region. However, since the project will include an economic component, it may aid in restoring some employment opportunities and increase income.</p> <p>The proposed project would not negatively impact employment or income patterns.</p>
Demographic Character Changes, Displacement	2	The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.
Environmental Justice	2	<p>In the area (one mile radius) in which project will occur.</p> <p>100% are people of color compared to PR average of 96%</p> <p>87% are low income compared to PR average of 70%</p> <p>6% are unemployed compared to PR average of 15%</p> <p>The proposed purchase and installation of a new building and photovoltaic system will result in restoration and increase in income and potential employment opportunities in the local area. The impacts would be beneficial.</p> <p>See EJSscreen Report in Appendix C</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project consists of the purchase and installation of a new building and photovoltaic system. The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The project consists of the purchase and installation of a new building and photovoltaic system. The agricultural activity of the project property will improve. Other commercial facilities would not be impacted by the proposed project.
Health Care and Social Services	2	The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). Health care and social services facilities would not be impacted by the

		proposed project. The project would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	Waste vegetation from clearing activities will either be composted on site or at regional composting centers. Soil from grading would be recycled on the farm as fill. Left over construction materials that could be reused on the farm (e.g., piping, structural materials, greenhouse covering fabrics) would be stored for later use. The remaining construction solid waste materials would be collected for transport to the local landfill. The amount of impact of solid waste resulting from the construction of the proposed project would be minor. During operations, the products and by-products would be agricultural, which waste would be biodegradable. Other waste components related to the operation of the proposed project includes recyclable materials such as plastics and cardboard. Recyclables will be set aside and dispose according to the local recycling management plan. The remaining municipal solid waste would be collected for the transport to the local landfill.
Wastewater / Sanitary Sewers	2	The project consists of the purchase and installation of a new building and photovoltaic system. The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current farm conditions would remain unchanged.
Water Supply	2	The project consists of the purchase and installation of a new building and photovoltaic system. The proposed project would not include any new water connection. The proposed project will have no impact on local water usage.
Public Safety – Police, Fire and Emergency Medical	2	The project consists of the purchase and installation of a new building and photovoltaic system. The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). The proposed project would not create any new demand for emergency or health services.
Parks, Open Space and Recreation	2	The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). The proposed project would not create or destroy any new parks, open space, or recreational activities. It also would not increase use of those facilities.
Transportation and Accessibility	2	The proposed project would not involve the creation of new roads nor any increase in long-term traffic on existing roads. There would be some minor use of the existing road during construction. All residents and businesses would retain access to their properties during and after the project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). The proposed project will be situated on land previously used for agriculture and will have no impact to unique natural features or water resources. With implementation of the Standard construction BMPs proposed as part of the mitigations measures for wetlands there would be no impacts to surface water resources.
Vegetation, Wildlife	2	The proposed project will occur on land previously used for agricultural purposes and will continue in that capacity. The proposed project area is located within previously cleared lands and no vegetation removal will be required. No trees are present within the proposed project area. The proposed project will have no impact on vegetation and wildlife.

Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts	2	The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). This is a small project with no measurable impact on climate change factors. With respect to climate change impact on the project, agricultural activities could be affected by drought.
Energy Efficiency/Energy Consumption	2	The project consists of the purchase and installation of a new building (SOW 1) and photovoltaic system (SOW 2). The proposed project would not include any new electrical connection. The proposed installation of solar panels would decrease the amount of energy demand in the area.

Additional Studies Performed: None required.

Field Inspection (Date and completed by):

Site inspection was conducted on May 19, 2023 by Josue Troche

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

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf

John H. Chafee Coastal Barrier Resources System, Puerto Rico [map](#).

www.fws.gov/CBRA/Maps/Locator/PR.pdf

National Wild and Scenic Rivers System: www.rivers.gov/puerto-rico.php

Puerto Rico Community Development Block Grant Disaster Recovery Action Plan, July 2018. www.cdbg-dr.pr.gov/en/action-plan/

Programmatic Agreement among the Federal Emergency Management Agency, the Puerto Rico State Historic Preservation Office and the Central Office for Recovery, Reconstruction and Resilience – amended to include the Puerto Rico Department of Housing.

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book):

www3.epa.gov/airquality/greenbook/anayo_pr.html

US EPA, Environmental Topics, Air Topics: www.epa.gov/environmental-topics/air-topics

US Fish and Wildlife Service, Environmental Conservation Online System:

<https://ecos.fws.gov/ecp/report/species-listings-by-state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed>

Federal Emergency Management Agency, Flood Mapping Service:

<https://msc.fema.gov/portal/home> (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:

www.fws.gov/wetlands/data/mapper.html (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009.

US EPA, Sole Source Aquifers. Esri HERE, Garmin, NOAA, USGS, EPA.

US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria,

www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8

List of Permits Obtained:

None required.

Public Outreach [24 CFR 58.43]:

The local community has been very proactive in the recovery process. Puerto Rico Department of Agriculture has worked closely with the agricultural community. The project will include a FONSI / NOI-RROF in compliance with NEPA regulations for HUD.

Cumulative Impact Analysis [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The growth of agricultural products at the farm would not increase. The project would allow for an additional area for packing agricultural products more efficiently. Additionally, the onsite solar generation via proposed solar panels would allow for lower demand to the local electrical grid. Water use would not increase.

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

The RGRW Program's goal is to increase agricultural capacity while promoting and increasing food security island-wide. This Program seeks to enhance and expand agricultural production related to economic revitalization and sustainable development activities. The applicant submitted a proposal to enhance and expand agricultural production on their property. The proposed use of grant funds will allow the applicant to expand the cultivation, processing, and delivery of agricultural products through the purchase and installation of a new building and photovoltaic system. Any alternative that would involve an off-property location would not enhance and expand agricultural production or allow for the economic development for this applicant. The actions are proposed in a property that offer several benefits, such as; owned by the applicant, in operation for agricultural purposes, in an area with a preexisting concrete pad and on a previously constructed building, in a field area that has been already cleared, graded, and maintained. The proposed actions will enhance current facilities providing a product packaging area and it will lower the energy demand of the operational activities by installing a new a solar power system. Any off-property alternative might not be located proximate to the existing structures and the existing infrastructure. Among the possibles impacts of alternative location, the location of the new building will require transportation of equipment and products in and out of property creating an increase in traffic and other vial impacts due to the transportation of materials and possibly heavy equipment. Alternative locations off and on property may represent an impact to undisturbed and/or uneven ground which could require clearing and grading activities. On the other hand, the property is connected and use the existing local utilities. An offsite alternative could require the drilling of a new well or the need to connect the facilities to local utility services if available. The new photovoltaic system will not only aid in lowering operational cost but will also provide resiliency for the operational activities of the farm. Given the above-mentioned possible impacts of an alternative location, an off-property alternative was not selected.

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

Under the No Action Alternative, the applicant would not receive federal funding for the purchase and installation of a new building and photovoltaic system, which would inhibit the economic growth opportunity that the applicant would not otherwise have under the PRDOH Re-Grow Puerto Rico program. As a result, these owners may not be able to experience the growth needed to recover and expand their agriculture activities. A provision of the grant allows for economic development for businesses. The No-Action alternative would not allow for the economic development for this applicant.

Summary of Findings and Conclusions:

The proposed activity has been found to not have any adverse effects on the environment nor is there the requirement for further consultation with federal agencies associated with the topics evaluated above. There are no environmental review topics addressed above that result in the need for additional formal compliance steps with federal agencies or the requirement for mitigations other than those listed below. There may be additional approvals or permits from local agencies. For example, permits may be required from PRDNER for any water or other utility connections and the Office of Permit Management (OGPe) is responsible for granting permits, licenses, certifications, consultations, construction, and any other procedure necessary for business development and land use in Puerto Rico. The appropriate and necessary permits should be obtained by the applicant and/or contractor, from the appropriate Department or concerned agency, prior to construction activities

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
Wetlands Protection/ Unique Natural Features, Water Resources	Implement and maintain erosion and sedimentation control measures sufficient to prevent deposition of sediment and eroded soil in onsite and offsite wetlands and waters and to prevent erosion in onsite and offsite wetlands and waters. Minimize soil compaction by minimizing project ground disturbing activities in vegetated areas, including lawns.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Standard construction BMPs would be used to control erosion and runoff during construction.
Permits or Agency Approvals Required	
Permit or Approval	Permit Conditions

Ground disturbance	Projects whose earthworks are more than 40 m ³ must submit an Incidental Permit. The permit must be submitted via the Single Business Portal to the OGPe to be evaluated and physicalized by the Water Quality Division of the PRDNER. Any necessary permits should be obtained by the applicant and/or contractor prior to construction activities.
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Determination:

Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.27]

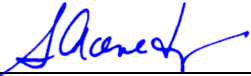
The project will not result in a significant impact on the quality of the human environment.

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:  Date: 2/5/2024

Name/Title/Organization: Clifford Jarman, Senior Environmental Scientist, Tetra Tech Inc.

Certifying Officer Signature:  Date: February 7, 2024

Name/Title: Sally Z. Acevedo Cosme- Permits and Environmental Compliance 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

Environmental Field Observation - Puerto Rico Department of Housing

APPLICANT INFORMATION			
Application ID	PR-RGRW-01795		
Applicant Name	Irenia Caraballo Santiago		
Property Address	Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior		
Parcel ID	----		
Coordinates	18.180090, -66.817080		
Inspector Name	Josue Troche		
Inspection Date	05/19/2023		
Building Type	Concrete_Metal		
Number of Units	0		
Number of Stories	0		
Year Built; Data Source	----; Historian		
ENVIRONMENTAL OBSERVATIONS (attach photos and notes, as necessary, for any YES answers)			
OBSERVATION ITEMS	YES	NO	COMMENTS
A. Is the structure in use?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Land current in use for: chilies, eggplant, bananas, plantains, mandarins and coffee
B. Is structure a greenhouse?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Recao leaves
C. Is Electricity connected?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Property connected to luma energy
D. Is water connected? (Utilities or Well)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Community water system
1. Are there signs of poor housekeeping on site? (mounds of rubble, garbage, storm debris, solid waste, petroleum products, paint, pesticides, cleaning fluids, vehicle batteries, abandoned vehicles, pits, pools, ponds of hazardous substances, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Are there any 55-gallon drums visible on site? If yes, are they leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are there any (or signs of any) underground storage tanks on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Are there signs of ASTs on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	500 gallons 250 gallons 1500 gallons Water reserve Water reserve Water reserve
5. Is there any stained soil or pavement on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is a water drainage system in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is a warehouse in use for storage of Fertilizer or Pesticides?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Are there any groundwater monitoring wells on the site or adjacent parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

9. Is there evidence of a faulty septic system ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Is there distressed vegetation on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is there any visible indication of MOLD ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12. Is there any visible evidence of asbestos, chipping, flaking or peeling paint, or hazardous materials present in or on the structure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Are any additional site hazards observed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Is there any permanent standing water , such as a pond or stream, located on the site (do not include ponding from recent rain / weather events)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15. Does the subject property have water frontage ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Is there any indication of the presence of Wetlands ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
17. Are there any obvious signs of animals or birds nesting on or near the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. Is the applicant aware of any significant historical event or persons associated with the structure, or of it being located in a historic district/area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
19. Is a historic marker present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Notes:

Case: PR-RGRW-01795

Coordinates: 18.180090, -66.817080

Is the field graded: No.

Scope of works: Purchase and installation of a new building and photo voltaic system

Land current in use for: chilies, eggplant, bananas, plantains, mandarins and coffee

Past Land use was: Empty lot

The applicant plans to do: New building in galvalum with 4"x4" metal post and install a solar array on a pre-existing building (house)

Where the applicant plans to do the ground disturbances for the scopes of work, add the coordinates, description and approx measurements:

Scope of Work 1: 18.179920, -66.817120

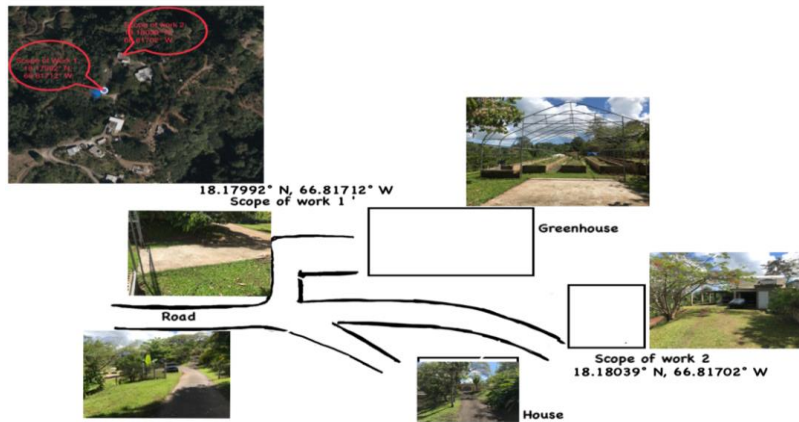
Construction of new building 36'ft x 16'ft = 512sqft (building in metal galvalum with 4"x4" metal post concrete floor already has been constructed, ground disturbance minimal) for packing products, chilies, eggplant, bananas, plantains, mandarins and coffee.

Scope of work 2: 18.180390, -66.817020

Install solar array on a pre-existing building 12'W x 30'L = 360sqft

Any new water connection or power connection? Luma Energy and community water installed.

Site Sketch



Front of Structure

Photo Direction: North



Facing Away From Front

Photo Direction: South



Side #1 of Structure

Photo Direction: Northeast



Facing Away From Side #1

Photo Direction: Southwest



Back of Structure

Photo Direction: South



Facing Away From Back

Photo Direction: North



Side #2 of Structure

Photo Direction: Northwest



Facing Away From Side #2

Photo Direction: Southeast



Streetscape #1

Photo Direction: West



Streetscape #2

Photo Direction: East



Address

Photo Direction: North



Outbuildings

Photo Description: Storage

Photo Direction: North



Outbuildings

Photo Description: Greenhouse

Photo Direction: North



Outbuildings

Photo Description: House

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structure Occupied

Photo Description: Coffee plantation

Photo Direction: East



Greenhouse Photos

Photo Description: Greenhouse

Photo Direction: South



Electricity Connected

Photo Description: Power meter

Photo Direction: South



Water Connected

Photo Description: Community water

Photo Direction: West



Aboveground Storage Tanks

Photo Description: Water reserve

Photo Direction: South



Aboveground Storage Tanks

Photo Description: Water reserve

Photo Direction: South



Aboveground Storage Tanks

Photo Description: Water reserve

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work 2: Installation of a photo voltaic system

Photo Direction: West



Scope Of Work

Photo Description: Scope of work 2: Installation of a photo voltaic system

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work 2: Installation of a photo voltaic system

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 2: Installation of a photo voltaic system

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: North



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: South



Scope Of Work

Photo Description: Scope of work 1: Construction of new building

Photo Direction: East



Scope Of Work

Photo Description: Scope of work map reference

Photo Direction: North



Appendix B



- Legend**
-  Project Parcel
 -  Parcels

PUERTO RICO



Figure 1a: PROJECT LOCATION

APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

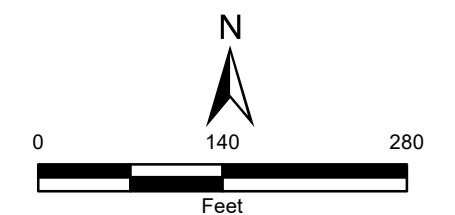
Name of Development: Irenia Caraballo Santiago

Parcel Coordinates: 18.180082 , -66.817095

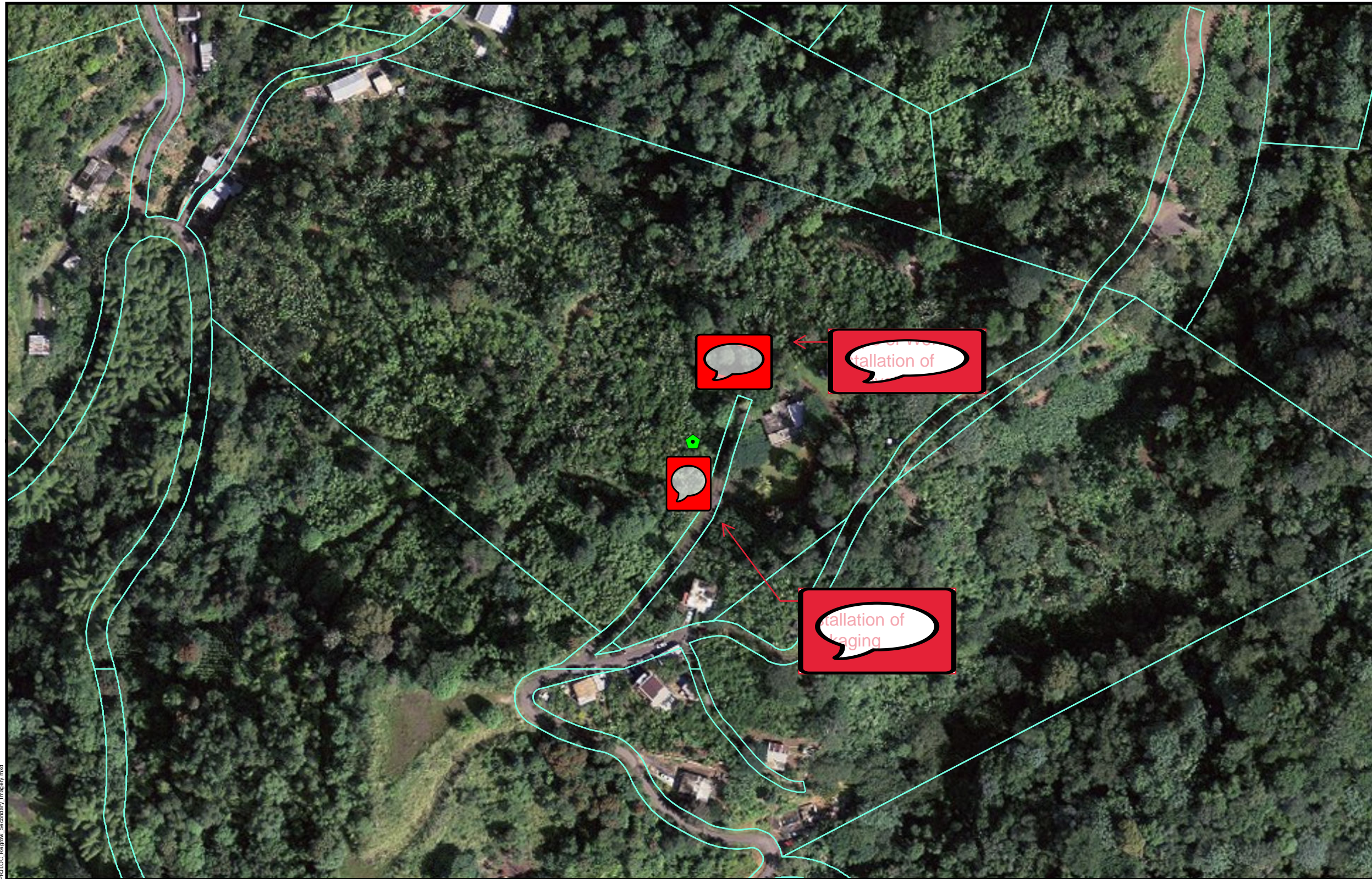


Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>

Author: TG Date: 6/6/2023



File Path: \\esl102\gis\100\PR\Projects\Share\TDR\Output\USFWS\PR-LOC_Review_Secondary_image\rv.mxd



- Legend**
- Project Parcel
 - Parcels
 - Scope of Work

PUERTO RICO



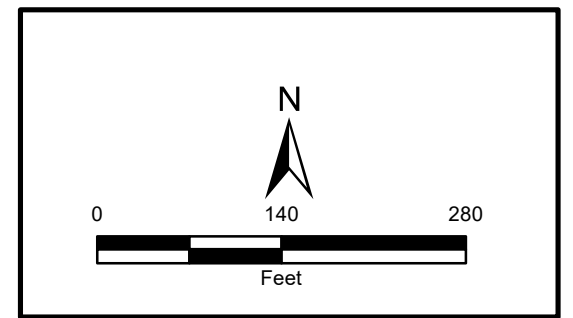
Figure 1b: PROJECT LOCATION - Scope of Work

APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

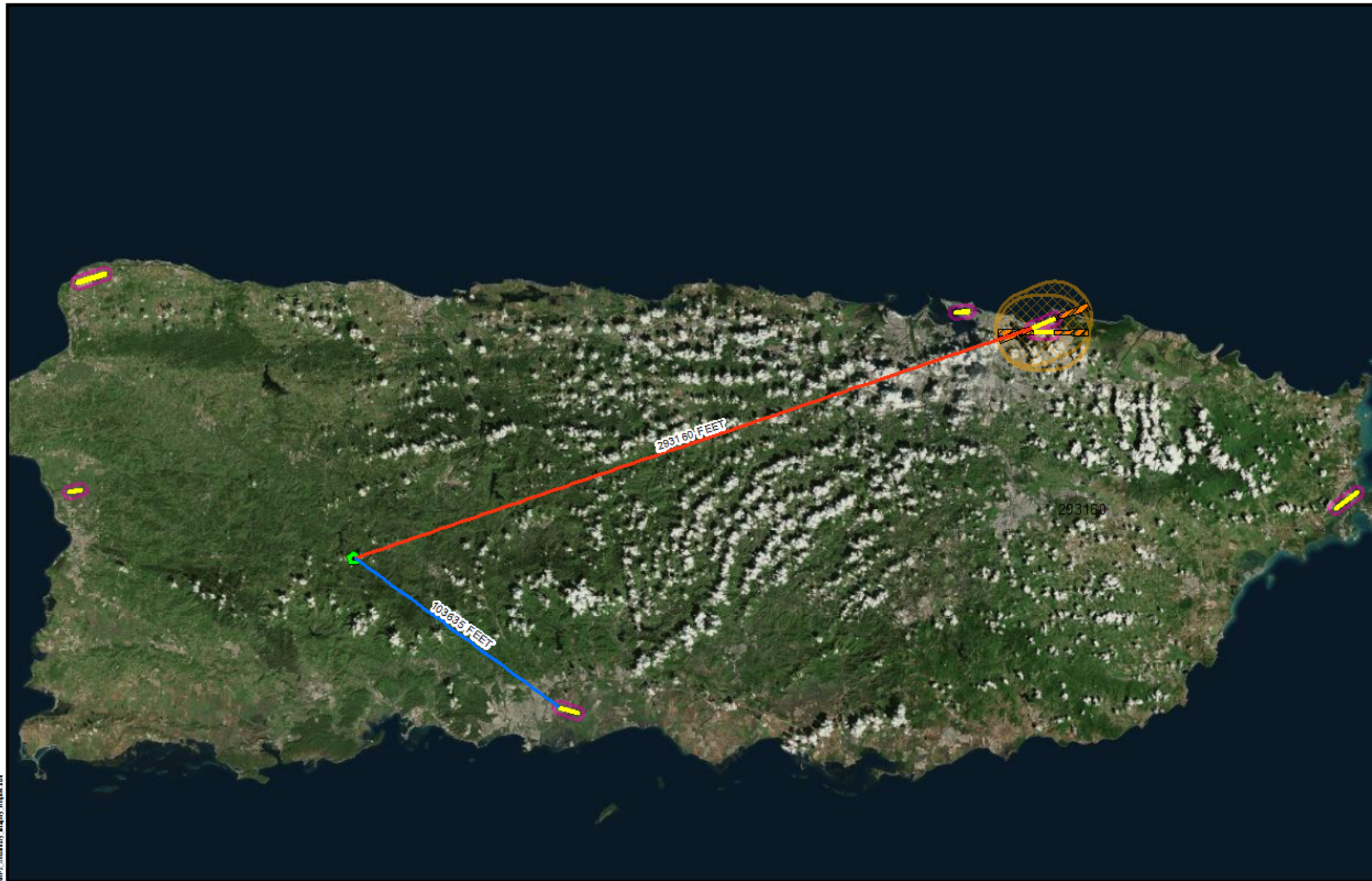
Parcel Coordinates: 18.180082 , -66.817095



Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>

Author: TG Date: 6/6/2023

File Path: \\esl102\gis\100\PR\Projects\Share\TDR\Output\USFWS\PR\LOC_Review_Secondary_image\rv.mxd



Legend

-  Project Parcel
-  Civilian Runway Protection Zones
-  Military Accident Potential Zones
-  Airport Runways
-  Civilian Airport 2,500 Feet Buffer
-  Military Airport 15,000 Feet Buffer

**Distance to Nearest Airport
in Feet: 103635 FEET**

PUERTO RICO



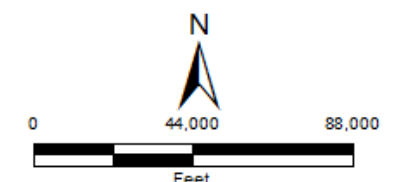
**Figure 2: AIRPORT ZONES
APPLICANT ID: PR-RGRW-01795**

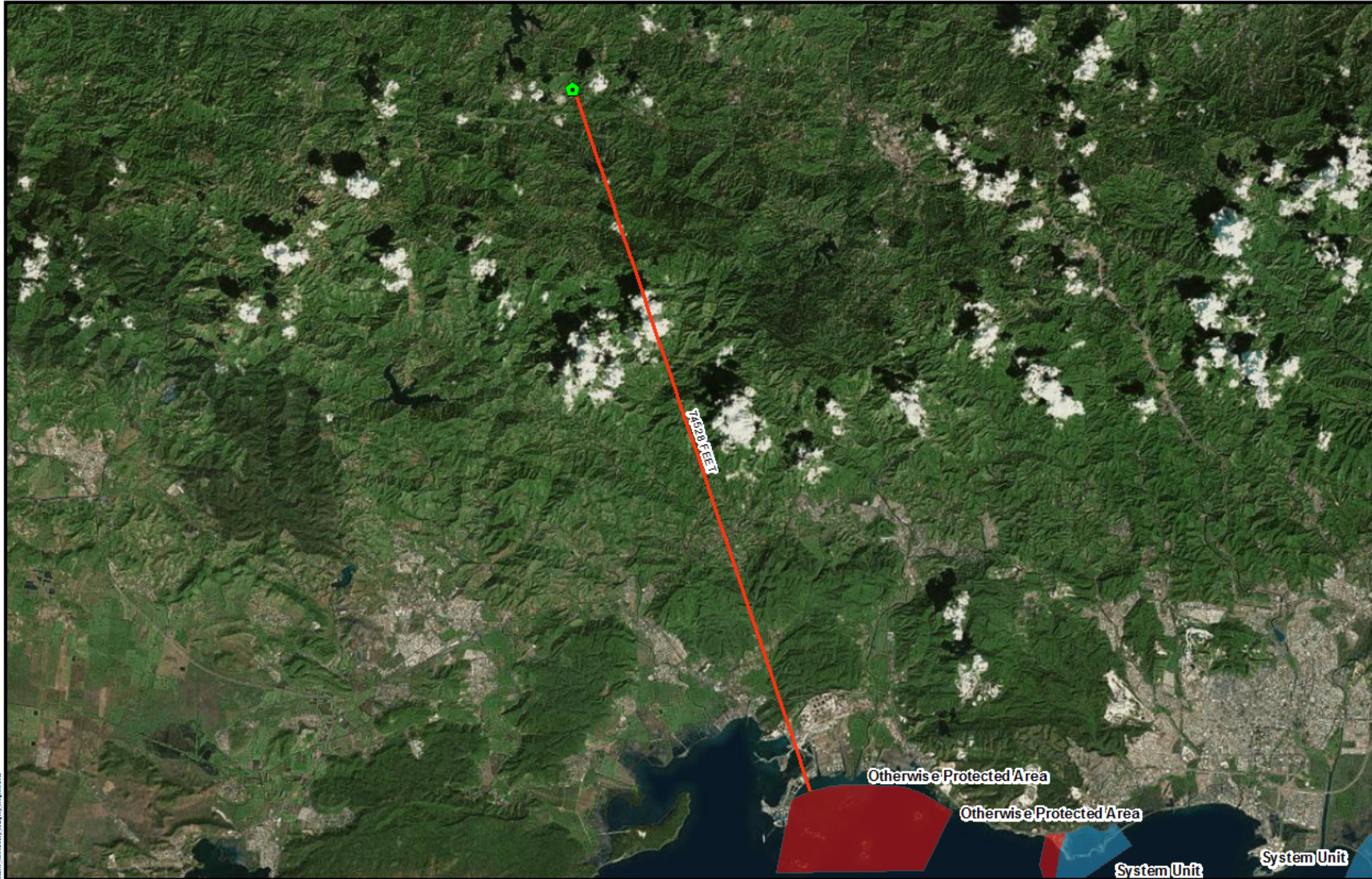
ADDRESS: Bo Guayo Sector Pilonas Carr. 135 Km 7.2 interior, Adjuntas, PR 00601
 Name of Development: Irenia Caraballo Santiago
 Parcel Coordinates: 18.180082, -66.817095



Source: USDOT
<https://www.faa.gov>

Author: TG Date: 6/2/2023





Legend

Project Parcel

Coastal Barrier Resources System Unit Type

Otherwise Protected

System Unit

Distance to Nearest Coastal Barrier Resources System in Feet: 74528 FEET

PUERTO RICO



**Figure 3: COASTAL BARRIERS IMPROVEMENT ACT
APPLICANT ID: PR-RGRW-01795**

ADDRESS: Bo Guayo Sector Pilones Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

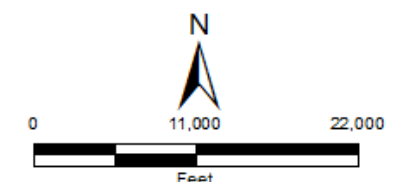
Parcel Coordinates: 18.180082, -66.817095

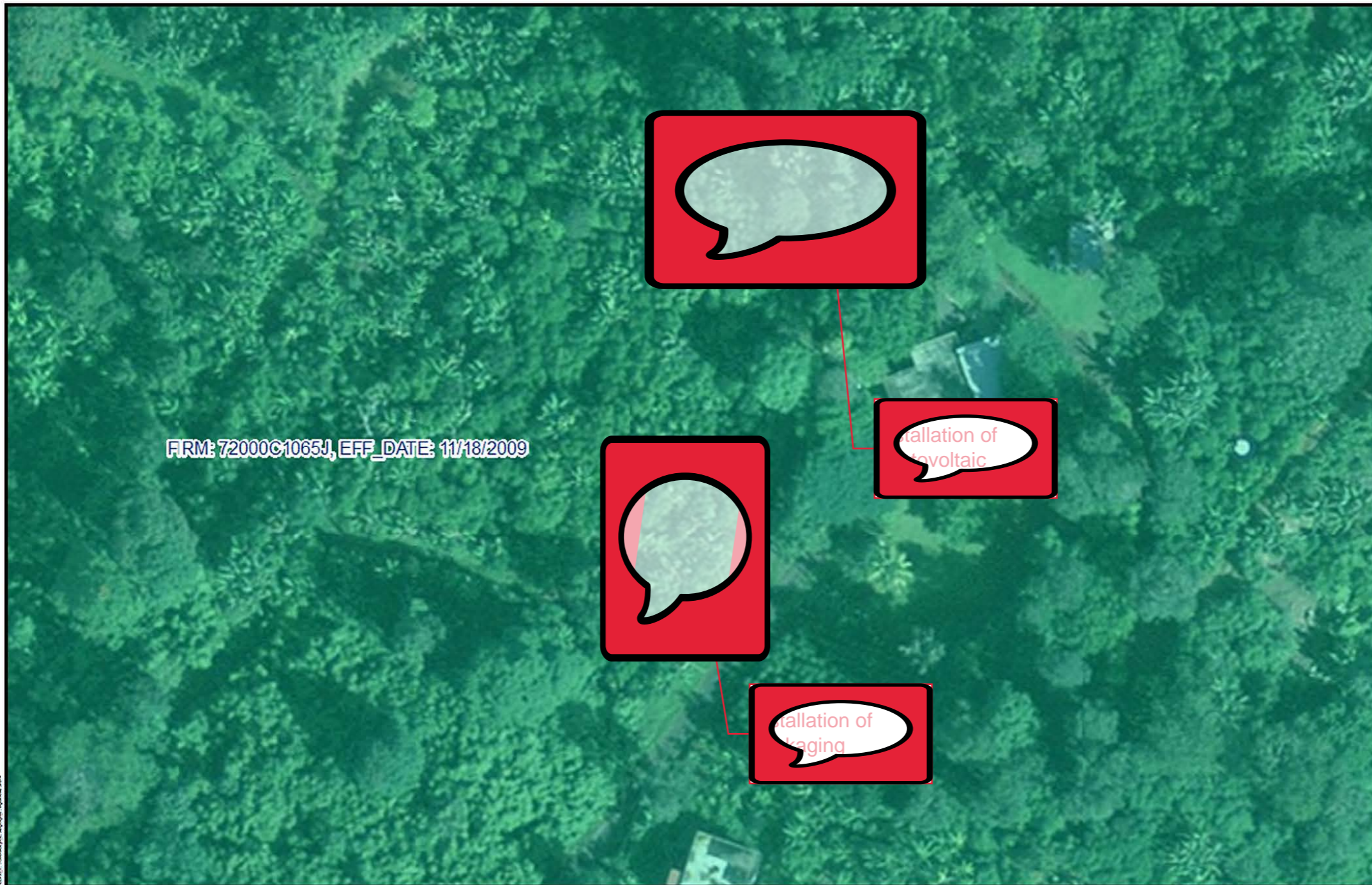


Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>

Author: TG

Date: 6/5/2023





- Legend**
- Project Parcel
 - FIRM Panels
 - Floodway
 - 100 Yr Floodzone
 - 500 Yr Floodzone
 - Area Of Minimal Flood Hazard
 - Unmapped for Floodplain

PUERTO RICO



Source: FEMA
<https://msc.fema.gov>

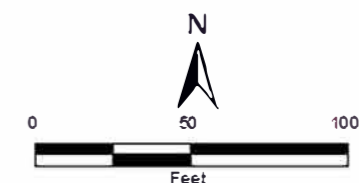
Author: TG Date: 6/1/2023

**Figure 4: FLOODPLAIN MANAGEMENT
 APPLICANT ID: PR-RGRW-01795**

ADDRESS: Bo Guayo Sector Pilones Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

Parcel Coordinates: 18.180082, -66.817095

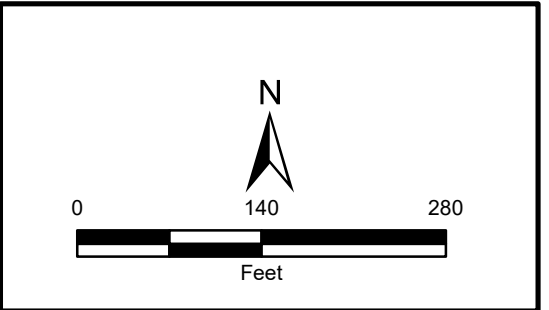




Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



Puerto Rico Unincorporated Areas
Municipío de Adjuntas
720000

AREA OF MINIMAL FLOOD HAZARD
Zone X

72000C1065J
eff. 11/18/2009

FIGURE 5: NATIONAL FLOOD HAZARD LAYER FIRMETTE

APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

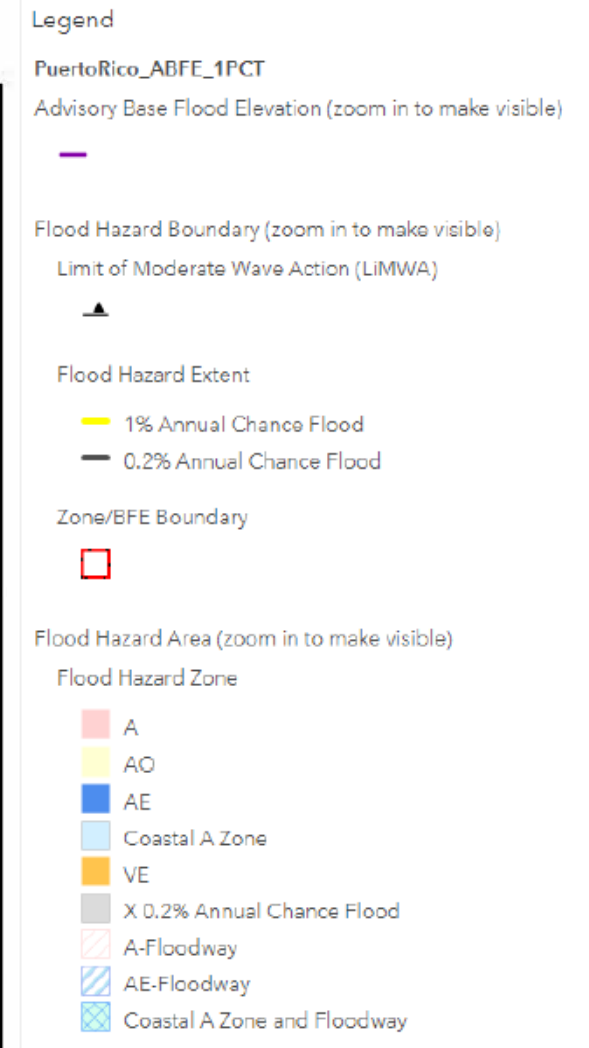
Name of Development: Irenja Caraballo Santiago

Parcel Coordinates: 18.180082 , -66.817095



Source: FEMA
<https://www.msc.fema.gov>

Author: TG Date: 5/31/2023



PUERTO RICO



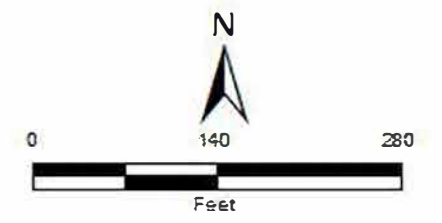
**Figure 6: ADVISORY BASE FLOOD ELEVATION
APPLICANT ID: PR-RGRW-01795**

ADDRESS: Bo Guayo Sector Pilonas Carr. 135 Km 7.2 interior, Adjuntas, PR 00601
Name of Development: Irenia Caraballo Santiago
Parcel Coordinates :18.180082 , -66.817095

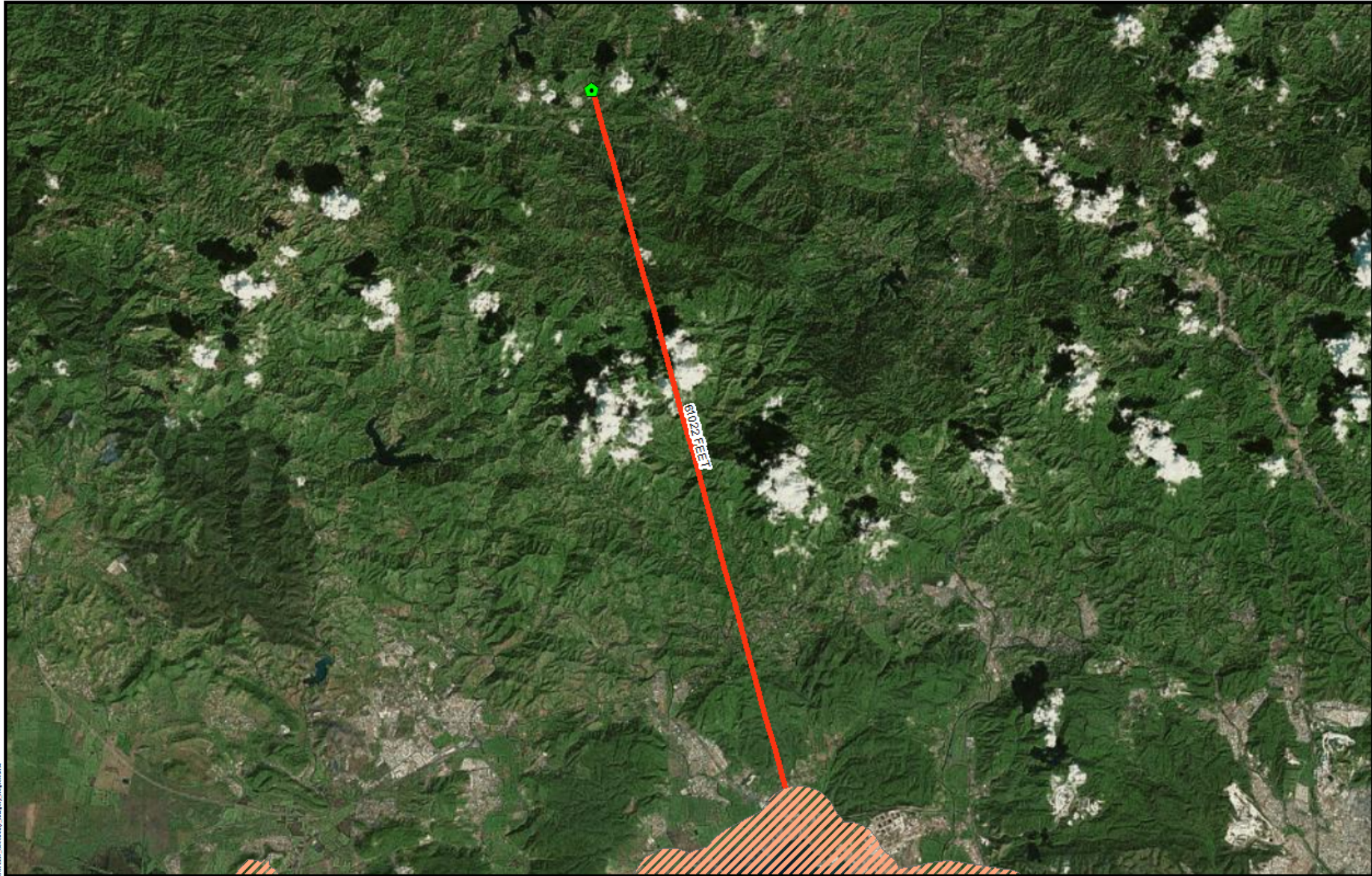


Source: FEMA
<https://gis.fema.gov>
Author: TG

Date: 6/7/2023



The data, information, and/or graphics shown on this map were prepared by Tetra Tech, Inc. for the use of the client. Tetra Tech, Inc. does not warrant the accuracy or completeness of the data, information, and/or graphics shown on this map. Tetra Tech, Inc. is not responsible for any errors or omissions in the data, information, and/or graphics shown on this map.



- Legend**
- Project Parcel
 - Coastal Zone Management Boundary

Distance to Nearest Coastal Zone: 61022 FEET

PUERTO RICO



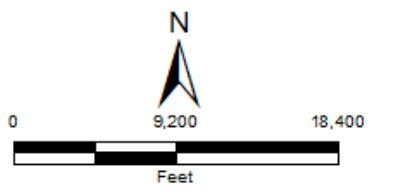
Figure 7: COASTAL ZONE MANAGEMENT

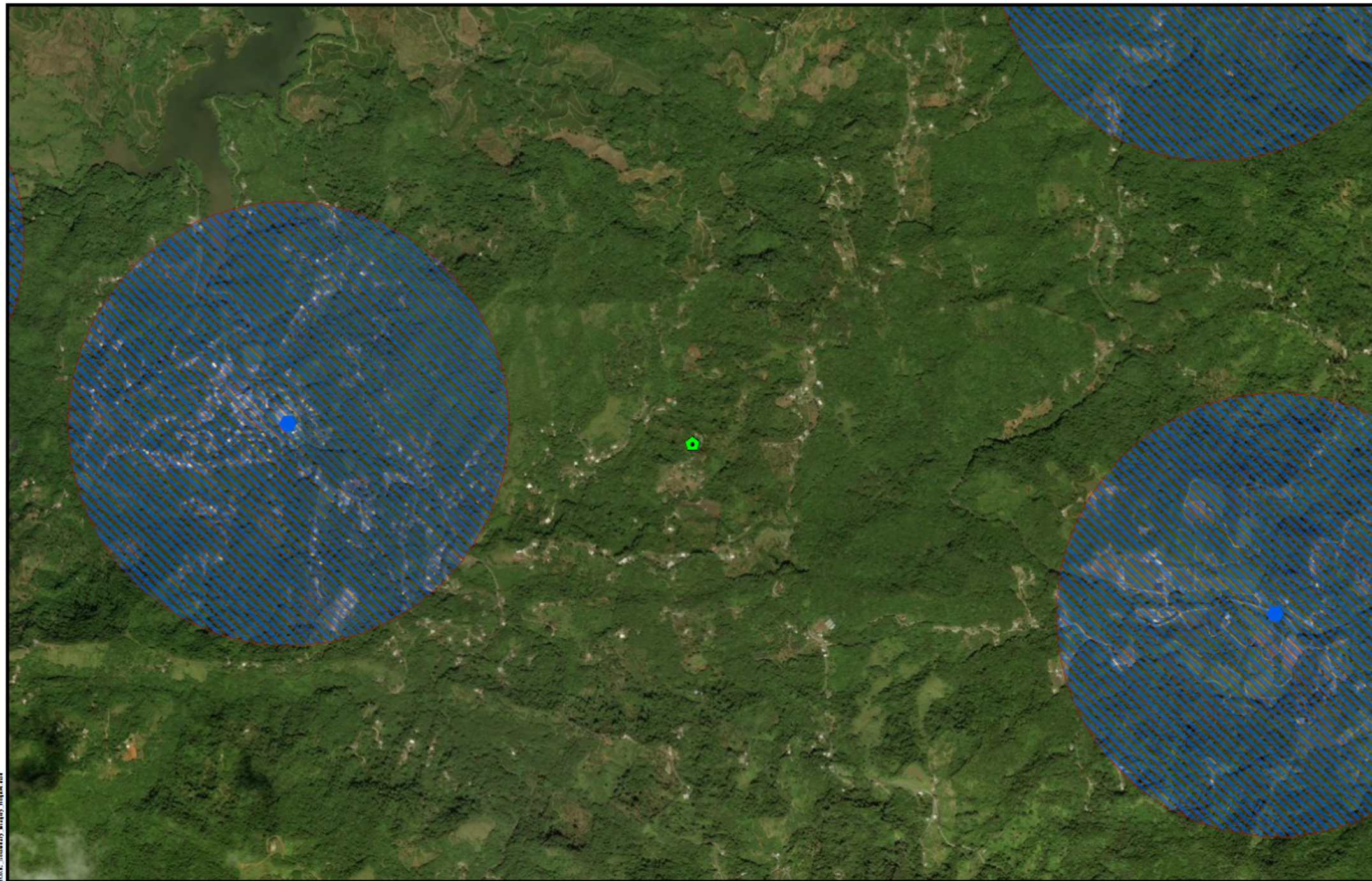
APPLICANT ID:PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonas Carr. 135 Km 7.2 interior, Adjuntas, PR 00601
 Name of Development: Irenia Caraballo Santiago
 Parcel Coordinates: 18.180082, -66.817095



Source: NOAA's Ocean Service
<https://data.noaa.gov>
 Author: TG Date: 6/5/2023





Legend

- RCRA
- ⬠ Project Parcel
- ▲ Toxic Release Inventory Site
- Superfund Site
- Brownfield Sites
- 3000 Ft Buffer TRI
- 3000 Ft Buffer Superfund
- 3000 Ft Buffer RCRA
- 3000 Ft Buffer Brownfield

PUERTO RICO



**Figure 8: TOXIC CHEMICALS AND GASES, HAZARDOUS MATERIALS,
CONTAMINATION, AND RADIOACTIVE SUBSTANCES
APPLICANT ID: PR-RGRW-01795**

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

Parcel Coordinates: 18.180082, -66.817095

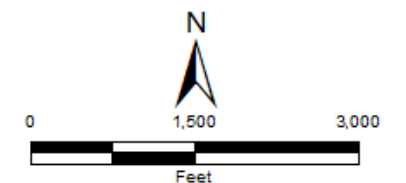


Source: E.P.A.

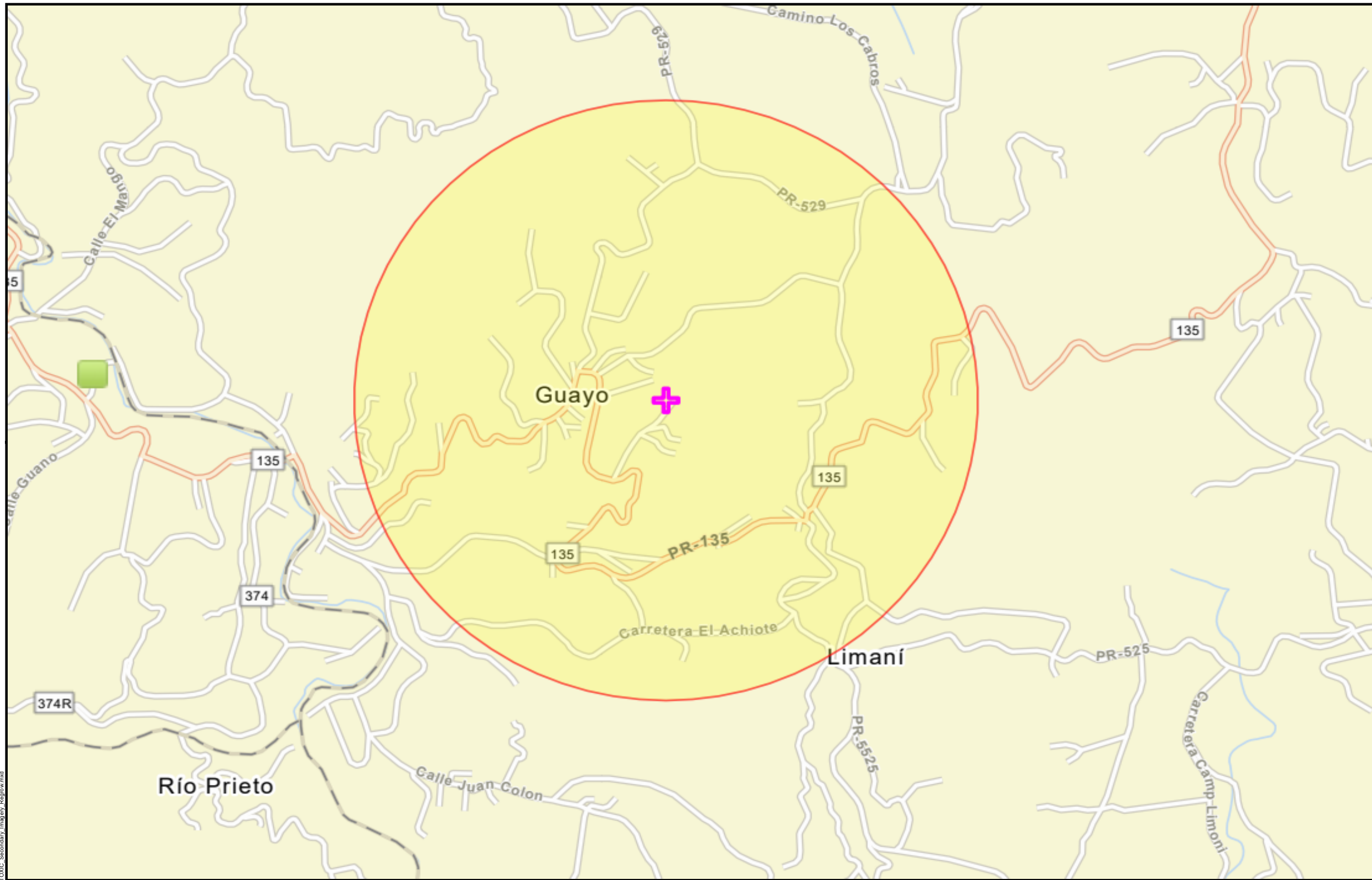
<https://www.epa.gov/fs/geospatial-data-download-service>

Author: J/BAK

Date: 6/1/2023



100% Natural Color Composite, 3000m Resolution, 2023-06-01, 100% Natural Color Composite, 3000m Resolution, 2023-06-01



Legend

- Superfund (NPL)
- Toxic Substances Control Act (TSCA)
- Toxic Releases (TRI)
- Brownfields (ACRES)
- Hazardous Waste (RCRAInfo)
- + Project Parcel

PUERTO RICO



Figure 9: NEPA Assist Map

APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonas Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenja Carballo Santiago

Parcel Coordinates: 18.180082 , -66.817095

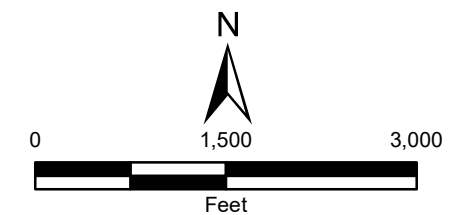


Source: E.P.A.

<https://www.epa.gov/frs/geospatial-data-download-service>

Author: JB/AK

Date: 5/18/2023



File Path: \\slas2023\gis\CDR\PR\Acceso\Share\DR\Guayo\USPRT\Fig\9_NEPASist_Map.mxd Secondary Imagery: Regrow.mxd



- Legend
-  Project Parcel
 -  Area of Critical Habitat

PUERTO RICO



Figure 10: ENDANGERED SPECIES ACT APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

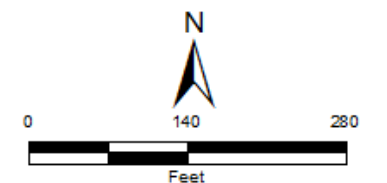
Parcel Coordinates: 18.180082, -66.817095



Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>

Author: TG

Date: 6/1/2023





Legend

Project Parcel

comname

Elfin-woods warbler

Distance to Nearest Critical Habitat in Feet: **38615 FEET**

PUERTO RICO

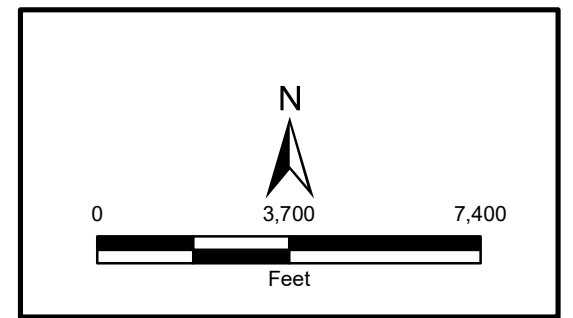


Figure 11: CRITICAL HABITATS
APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Caraballo Santiago

Parcel Coordinates: 18.180082, -66.817095



Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>

Author: TG

Date: 6/1/2023

File Path: \\nas1202\gis\GIS\CDR\PR\Acc\Shana\TDR\VisualUSPRT\Fig\CRITICALHABITAT_Secondary_Imagery_Export.mxd



Legend

- Project Parcel
- Farm Class**
- All areas are prime farmland
- Farmland of statewide importance
- Farmland of statewide importance, if irrigated
- Prime farmland if drained
- Prime farmland if irrigated
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Prime farmland if protected from flooding or not frequently flooded during the growing season

PUERTO RICO

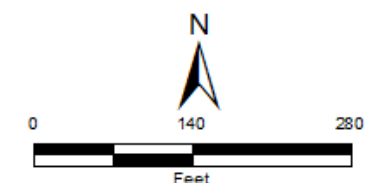


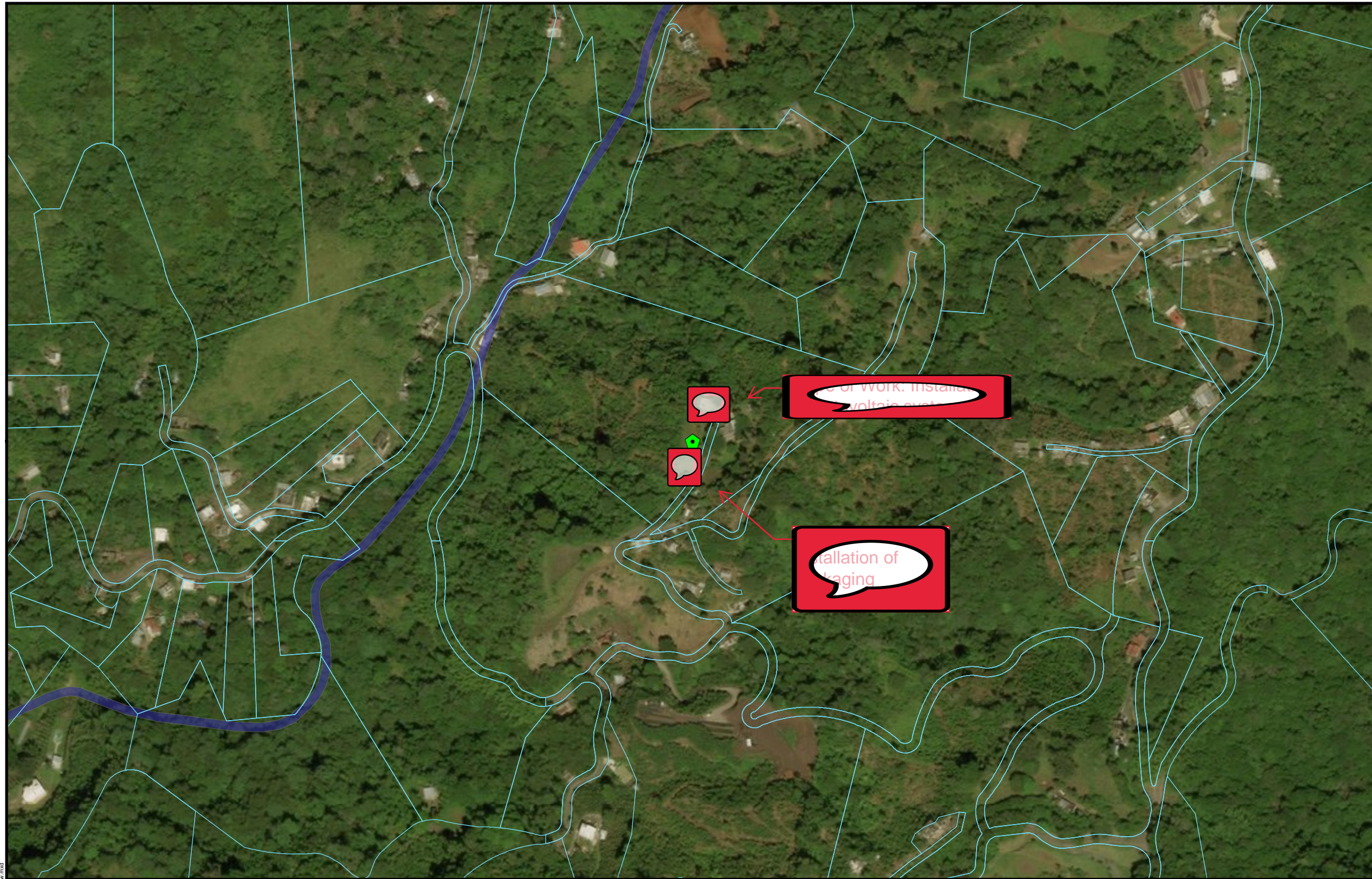
Figure 12: FARMLAND PROTECTION
APPLICANT ID: PR-RGRW-01795

ADDRESS: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior, Adjuntas, PR 00601
 Name of Development: Irenia Caraballo Santiago
 Parcel Coordinates: 18.180082, -66.817095



Source: USDA
<https://websoilsurvey.sc.egov.usda.gov>
 Author: TG Date: 6/1/2023



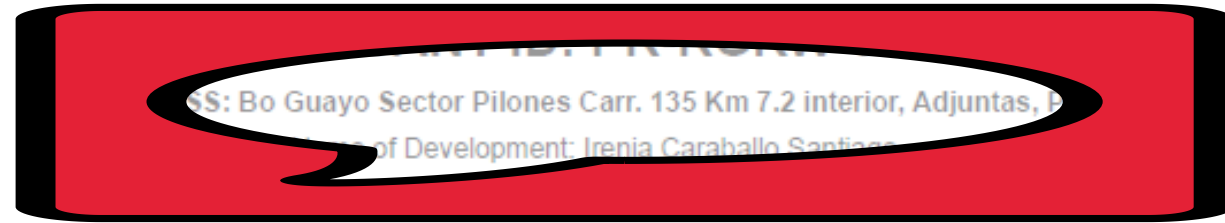


- Legend**
- Project Parcel
 - Parcels
- WETLAND TYPE**
- Estuarine and Marine Deepwater
 - Estuarine and Marine Wetland
 - Freshwater Emergent Wetland
 - Freshwater Forested/Shrub Wetland
 - Freshwater Pond
 - Lake
 - Riverine
- Area of Potential Effect

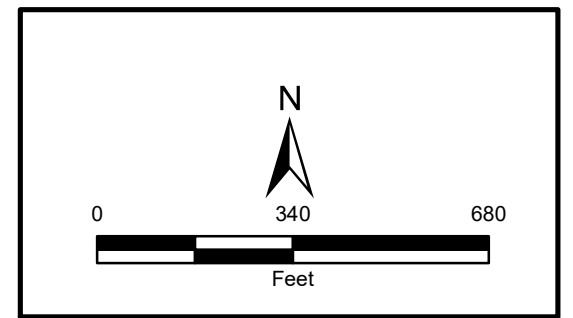
PUERTO RICO



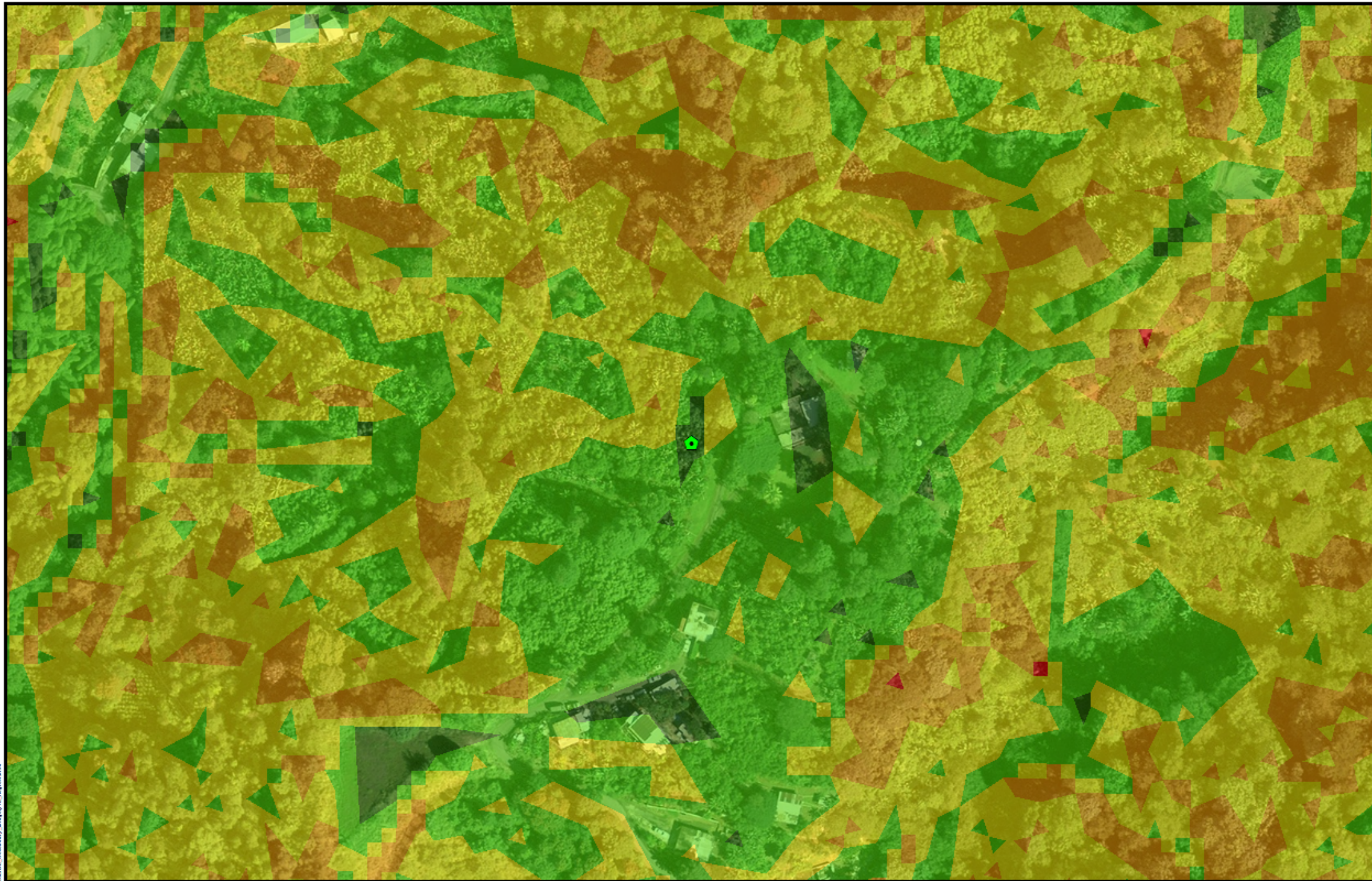
Figure 14: WETLANDS









Source: U. S. Fish & Wildlife Service
<https://www.fws.gov>
 Author: TG Date: 8/30/2023



File Path: Z:\data\USFWS\PR\WETLANDS - Secondary Imagery - Regrow.mxd



- Legend**
-  Project Parcel
- Landslide Susceptibility**
-  Extremely High
 -  Very High
 -  High
 -  Moderate
 -  Low

PUERTO RICO

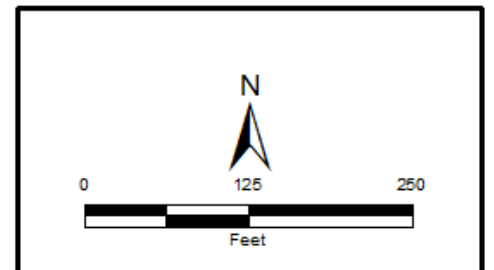


**Figure 16: SLOPE AND EROSION
APPLICANT ID: PR-RGRW-01795**

ADDRESS: Bo Guayo Sector Pilones Carr. 135 Km 7.2 interior, Adjuntas, PR 00601

Name of Development: Irenia Carballo Santiago

Parcel Coordinates: 18.180082, -66.817095



Source: PRDOH
<http://s://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=10506ec07f15491daee17647f19248ee>
 Author: TG Date: 6/1/2023

Appendix C



You are here: EPA Home > Green Book > >National Area and County-Level Multi-Pollutant Information >Puerto Rico Whole or Part County Nonattainment Status by Year Since 1992 for all Criteria Pollutants

Puerto Rico Whole or Part County Nonattainment Status by Year Since 1992 for all Criteria Pollutants

Data is current as of October 31, 2023

Listed by State, County, NAAQS (W=Whole County,P=Partial County designated nonattainment as of report date)
 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)

Change the State:

Important Notes

Download National Dataset: [dbf](#) | [xls](#) | [Data dictionary \(PDF\)](#)

PUERTO RICO		92	93	94	95	96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
County	NAAQS																																	
Arecibo Municipio	Lead (2008)																					P	P	P	P	P	P	P	P	P	P	P	P	
Bayamon Co	Sulfur Dioxide (2010)																												P	P	P	P	P	P
Catano Co	Sulfur Dioxide (2010)																												W	W	W	W	W	W
Guaynabo Co	PM-10 (1987)	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P														
Guaynabo Co	Sulfur Dioxide (2010)																												P	P	P	P	P	P
Salinas Municipio	Sulfur Dioxide (2010)																												P	P	P	P	P	P
San Juan Municipio	Sulfur Dioxide (2010)																												P	P	P	P	P	P
Toa Baja Co	Sulfur Dioxide (2010)																												P	P	P	P	P	P

Important Notes

Discover.

Connect.

Ask.

Follow.

2023-10-31

Appendix D

Date: September 19, 2023

Applicant ID: PR-RGRW-01795

Street Address: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior

Municipality: Adjuntas

Subject – Endangered Species Concurrence for No Effect - PR-RGRW-01795 SOW 1

Tetra Tech conducted a site specific review of endangered species in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) for the proposed project site located at Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior in the Municipality of Adjuntas, Puerto Rico (Parcel ID # 264-000-005-27-000). The proposed project sites are located north and west of the of the residence at 18.180082, -66.817095.

The 11.33-acre site located at Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior in the Municipality of Adjuntas, Puerto Rico. This land is currently being used to farm chilies, eggplant, bananas, plantains, mandarins and coffee. Before the land was used as a farm it was a vacant lot. The proposed construction of the building will take place on land where the concrete foundation has already been laid (see site photos in Appendix A).

The proposed scope of work is the construction of new building 36'ft x 16'ft approx 512sqft, building will be metal framed with 4"x4" metal post. the concrete foundation has already been laid, there will be minimal ground disturbance located at 18.179920, -66.817120. This building will be used for packing products such as, chilies, eggplant, bananas, plantains, mandarins and coffee. The proposed scope of work will take place on previously cleared lands and no vegetation removal will be required.

The National Wetlands Inventory indicated that there is one NWI mapped wetlands within the property parcel approximately 771 feet away from the proposed scope of work area. Due to the nature of the construction and distance to the wetland, there will be no effect to the wetland (Figure 14). Site specific wetland review attached.

Using the Information for Planning and Consultation (IPaC) system, we have determined that the proposed project lies within the range of the following federally listed species:

Species	Status
Puerto Rican Boa <i>(Chilabothrus inornatus)</i>	Endangered
Puerto Rican Broad-winged Hawk <i>(Buteo platypterus brunnescens)</i>	Endangered
Puerto Rican Parrot <i>(Amazona vittate)</i>	Endangered
Puerto Rican Sharp-shinned Hawk <i>(Accipiter striatus venator)</i>	Endangered
Puerto Rican Harlequin Butterfly <i>(Atlantea tulita)</i>	Threatened

The proposed scope of work will take place on previously cleared lands with concrete foundation already laid, no further vegetation removal will be required for the building construction.

No Critical Habitats were noted within the project area (Figure 10). Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, we have made the following effects determinations:

Species	Effect Determination	Conservation Measures to be implemented (if needed)
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	No Effect	No Conservation Measures
Puerto Rican Broad-Winged Hawk (<i>Buteo platypterus brunnescens</i>)	No Effect	No Conservation Measures
Puerto Rican Parrot (<i>Amazona vittate</i>)	No Effect	No Conservation Measures
Puerto Rican Sharp-shinned Hawk (<i>Accipiter striatus venator</i>)	No Effect	No Conservation Measures
Puerto Rican Harlequin Butterfly (<i>Atlantea tulita</i>)	No Effect	No Conservation Measures

A ‘No Effect’ determination has been made based on the lack of suitable habitat for the listed species, as well as previous disturbance and current land use of the proposed project area.

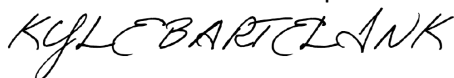
If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.

Attached to this letter, are the supplemental documents used to reach our effect determinations for the listed species.

Attachments:

- IPac Resource List
- Wetland Memo

Date Review Conducted: September 19, 2023



Reviewer Name: Kyle Bartelink, B.S Biologist

Date: September 19, 2023

Applicant ID: PR-RGRW-01795

Street Address: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior

Zip Code: 00601

County: Adjuntas

Subject: Site-Specific Wetland Review

A feature defined by the National Wetlands Inventory (NWI) as a Permanently flooded perennial riverine environment with an unconsolidated bottom (R5UBH) is located inside the parcel boundary and approximately 711 feet from the proposed site. Photographic documentation from a site visit conducted on May 19, 2023 indicates that the land has been cleared and concrete foundation has been laid previously, there are no hydrologic features within the proposed work site. Soils data from the United States Department of Agriculture Web Soil Survey indicates there are no hydric soils in the proposed area of effect. A review of historic aerial imagery does not indicate that the defined feature approaches closer to the site than is indicated by NWI mapping. Based on USACE Wetland Determination Criteria, this site does meet all three parameters of wetland criteria.

The land is currently being used to farm chilies, eggplant, bananas, plantains, mandarins and coffee. The proposed scope of work is the construction of new building 36'ft x 16'ft approx 512sqft, building will be metal framed with 4"x4" metal post. the concrete foundation has already been laid, there will be minimal ground disturbance located at 18.179920, -66.817120. This building will be used for packing products such as, chilies, eggplant, bananas, plantains, mandarins and coffee. The applicant also intends to Install solar array on a pre-existing building 12'W x 30'L located at 18.180390, -66.817020. Due to the nature of the work, and distance from the wetland it has been determined that the proposed work will have not adversely effect the wetland.

Based on a review of available resources, the project would not adversely impact wetlands if the General Conditions relative to wetlands protection and water quality will be implemented, including:

- a. Implement and maintain erosion and sedimentation control measures sufficient to prevent deposition of sediment and eroded soil in onsite and offsite wetlands and waters and to prevent erosion in onsite and offsite wetlands and waters.*
- b. Minimize soil compaction by minimizing project ground disturbing activities in vegetated areas, including lawns.*

Kyle Bartelink



Biologist, Tetra Tech

September 19, 2023

Date: September 19, 2023

Applicant ID: PR-RGRW-01795

Street Address: Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior

Municipality: Adjuntas

Subject – Endangered Species Concurrence for No Effect - PR-RGRW-01795 SOW 2

Tetra Tech conducted a site specific review of endangered species in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) for the proposed project site located at Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior in the Municipality of Adjuntas, Puerto Rico (Parcel ID # 264-000-005-27-000). The proposed project sites are located north and west of the of the residence at 18.180082, -66.817095.

The 11.33-acre site located at Bo Guayo Sector Pilonos Carr. 135 Km 7.2 interior in the Municipality of Adjuntas, Puerto Rico. This land is currently being used to farm chilies, eggplant, bananas, plantains, mandarins and coffee. Before the land was used as a farm it was a vacant lot. The proposed construction of a instillation of solar panels will take place on a previously constructed building (see site photos in Appendix A).

The proposed scope of work The applicant also intends to Install solar array on a pre-existing building 12'W x 30'L located at 18.180390, -66.817020. The building that the solar panels are going to be installed on are already constructed and will not require ground disturbance. The proposed scope of work will take place on previously cleared lands and no vegetation removal will be required.

The National Wetlands Inventory indicated that there is one NWI mapped wetlands within the property parcel approximately 771 feet away from the proposed scope of work area. Due to the nature of the construction and distance to the wetland, there will be no effect to the wetland (Figure 14). Site specific wetland review attached.

Using the Information for Planning and Consultation (IPaC) system, we have determined that the proposed project lies within the range of the following federally listed species:

Species	Status
Puerto Rican Boa <i>(Chilabothrus inornatus)</i>	Endangered
Puerto Rican Broad-winged Hawk <i>(Buteo platypterus brunnescens)</i>	Endangered
Puerto Rican Parrot <i>(Amazona vittate)</i>	Endangered
Puerto Rican Sharp-shinned Hawk <i>(Accipiter striatus venator)</i>	Endangered
Puerto Rican Harlequin Butterfly <i>(Atlantea tulita)</i>	Threatened

The proposed scope of work will take place on a structure that was previously constructed, no further vegetation removal will be required for the solar panel installation.

No Critical Habitats were noted within the project area (Figure 10). Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, we have made the following effects determinations:

Species	Effect Determination	Conservation Measures to be implemented (if needed)
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	No Effect	No Conservation Measures
Puerto Rican Broad-Winged Hawk (<i>Buteo platypterus brunnescens</i>)	No Effect	No Conservation Measures
Puerto Rican Parrot (<i>Amazona vittate</i>)	No Effect	No Conservation Measures
Puerto Rican Sharp-shinned Hawk (<i>Accipiter striatus venator</i>)	No Effect	No Conservation Measures
Puerto Rican Harlequin Butterfly (<i>Atlantea tulita</i>)	No Effect	No Conservation Measures

A 'No Effect' determination has been made based on the lack of suitable habitat for the listed species, as well as previous disturbance and current land use of the proposed project area.

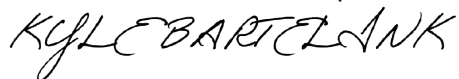
If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa.

Attached to this letter, are the supplemental documents used to reach our effect determinations for the listed species.

Attachments:

- IPac Resource List
- Wetland Memo

Date Review Conducted: September 19, 2023



Reviewer Name: Kyle Bartelink, B.S Biologist



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: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project Code: 2024-0044054
Project Name: PR-RGRW-01795

February 01, 2024

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 caribbean_es@fws.gov. To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

<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: 2024-0044054

Project Name: PR-RGRW-01795

Project Type: Restoration / Enhancement - Agricultural

Project Description: The proposed project site located at Bo Guayo Sector Pilonas Carr. 135 Km 7.2 interior, Adjuntas, Puerto Rico (Parcel ID# 264-000-005-27-000), will be funded under the ReGrow PR Urban-Rural Agricultural Program. The proposed project is for the purchase and installation of a new building and photovoltaic system. The applicant plans to construct a new building at 18.179920, -66.817120 with an approximate area of 512 square feet and will measure approximately 36 feet by 16 feet. The galvalume structure will be constructed over an existing concrete pad. Eight 4"x4" support posts will be anchored into the ground requiring excavation of 2' by 2' areas for each post. The new building is intended to be used for packing products such as, chilies, eggplant, bananas, plantains, mandarins and coffee. No water or electric power connections are required for the new building. Additionally, the applicant plans to install a solar energy system on the roof of an existing 12 feet x 30 feet (360sqft) residential building (garage) located north of the new building site. The solar array is centered at 18.180390, -66.817020.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.180142699999998,-66.81716246787462,14z>



Counties: Adjuntas County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 5 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. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

BIRDS

NAME	STATUS
Puerto Rican Broad-winged Hawk <i>Buteo platypterus brunnescens</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5512	Endangered
Puerto Rican Parrot <i>Amazona vittata</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3067	Endangered
Puerto Rican Sharp-shinned Hawk <i>Accipiter striatus venator</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/604	Endangered

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> 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/ZFJWHFPCJ5BRDOF7LQGX67TPO4/documents/generated/7159.pdf	Endangered

INSECTS

NAME	STATUS
Puerto Rican Harlequin Butterfly <i>Atlantea tulita</i> 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	Threatened

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 [National Wildlife Refuge](#) 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 [Bald and Golden Eagle Protection Act](#) 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)

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Tetra Tech
Name: Shelby McDowell
Address: 2301 Lucien Way #120
City: Maitland
State: FL
Zip: 32751
Email: shelby.mcdowell@tetrattech.com
Phone: 4096591563

Appendix E



GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE

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

September 28, 2023

Lauren Bair Poche

HORNE
10000 Perkins Rowe, Suite 610, Bldg G
Baton Rouge, LA 70810

SHPO 09-15-23-07 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:
PR-RGRW-01795- IRENIA CARABALLO SANTIAGO- CARR. 135, KM 7.2 INT., BO.
AGUAYO, SECTOR PILONES, ADJUNTAS, PUERTO RICO

Dear Ms. Bair,

Our Office has received and reviewed the above referenced project in accordance with 54 U.S.C. 306108 (commonly known as Section 106 of the *National Historic Preservation Act*) and 36 CFR Part 800: *Protection of Historic Properties*.

Our records support your finding of **no historic properties affected** for this undertaking.

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/MB



September 18, 2023

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-01795 – Irenia Caraballo Santiago – Carr 135 Km 7.2 Int., Bo. Aguayo, Sector Pilonos, Adjuntas, 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 was 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 José Valentín Acevedo DBA Carr 11 Km 43.3 in Bo. Angeles in the municipality of Utuado. The proposed activities for PR-RGRW-01795 include the purchase and installation of a new building and photovoltaic system. The property is currently used for the growing of chilies, eggplant, bananas, plantains, mandarins and coffee. The new building will be constructed with an approximate area of 512 sqft and will measure approximately 36 feet x 16 feet. The galvalume structure will be constructed over an existing concrete pad. Eight 4"x4" support posts will be anchored into the ground requiring excavation of 2' by 2' areas for each post. No water or energy connections are needed for the new building. The applicant plans to install a solar energy system on the roof of an existing 12'W x 30'L (360sqft) residential building (garage) located north of the new building site.

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,

A handwritten signature in blue ink that reads 'Lauren B. Poche'.

Lauren Bair Poche, M.A.

Architectural Historian, Historic Preservation Senior Manager

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM		
REgROW PUERTO RICO PROGRAM		
Section 106 NHPA Effect Determination		
Subrecipient: Irenia Caraballo Santiago		
Case ID: PR-RGRW-01795	City: Adjuntas	

Project Location: Carr 135 km 7.2 Int Bo Aguayo Sector Pilonos	
Project Coordinates: 18.180082, -66.817095	
TPID (Número de Catastro): 264-000-005-27-000	
Type of Undertaking: <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): c1970	Property Size (acres):

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid
Date Reviewed: 8/4/2023
SOI-Qualified Archaeologist: Roberto G. Muñoz-Pando, PhD
Date Reviewed: August 17, 2023

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 Scope of work (SOW) for this project includes the purchase and installation of a new building and photovoltaic system. The property is currently used for the growing of chilies, eggplant, bananas, plantains, mandarins and coffee.

The new building will be constructed at (18.179920, -66.817120) with an approximate area of 512 sqft and will measure approximately 36 feet x 16 feet. The galvalume structure will be constructed over an existing concrete pad. Eight 4"x4" support posts will be anchored into the ground requiring excavation of 2' by 2' areas for each post. No water or energy connections are needed for the new building.

The applicant plans to install a solar energy system on the roof of an existing 12'W x 30'L (360sqft) residential building (garage) located north of the new building site.

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 area where the applicant plans to construct a new building with an

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REgROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
Subrecipient: Irenia Caraballo Santiago	
Case ID: PR-RGRW-01795	City: Adjuntas

approximate area of 512 sqft and install a solar energy system on an existing 12'W x 30'L (360sqft) residential building (garage). 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 Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area has no previously identified archaeological or historic sites within an 0.5-mile radius of the APE.

There are two previously recorded archaeological resource investigations within a 0.5-mile radius of the APE. The first investigation is located 0.12 miles west of the APE, was authored by Doris Maza García, with the number ICP/ CAT-AD-01-03-05, titled "Evaluación Histórica-Arquitectónica de las Atarjeas y Atubos de Desague pluvial existentes en el pro de las mejoras a la carretera PR-135, Adjuntas- Castañer." Year: 2004, Phase 1-A, Results: Positive. The second investigation is located 0.13 miles west of the project area, the author is José Rivera Meléndez; Phase 1-A and 1-B; Year 2001; Tittle: "Ensanche de la Carretera PR-135." Code: ICP/CAT-AD-01-03-05; Results: Positive, mitigated by going around structures. The soil in the area is composed mainly of Alfonso Clay with 40 to 60 slope which makes the probability of finding intact cultural deposits low.

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. Additionally, there are **no** NRHP-listed historic properties within the quarter mile buffer zone from the APE.

The proposed project is located in a rural, mountainous terrain surrounded by crop lands and vegetation. The property lies east of Route PR-135 Panoramic Route in the town of Adjuntas. A circa 1970 building that is the applicant's house, is located east of the APE. The building, shown below, appears on a 1977 aerial image, but not on a 1959 aerial image.

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas




Figures 1 & 2. Detail of 1977 aerial image and of 2023 Google Maps aerial image showing the location of the applicant's home on the property.

This building (shown below on the left) is a one-story reinforced concrete house with a flat concrete roof with overhangs on the left side and rear, and a concrete split gabled roof on the front garage. The property's entrance is via a metal fence with a gate. The house has concrete walls and two concrete arches supporting the front porch on the left side and the carport on the left side of the house. Both are enclosed by concrete balustrade knee walls and metal grilles and gates. This building **does not** meet the requirements to be eligible for listing on the National Register of Historic Places.

A modern storage building with an open garage is located to the west of the house and is the proposed location of the new photovoltaic system (shown below on the right). This building has concrete walls and a flat concrete roof with overhangs. The enclosed areas are on the right side and rear leaving the left side for open storage and garage. This building is modern and **does not** meet the requirements to be eligible for listing on the National Register of Historic Places.



Figures 3 & 4. Images of the applicant's house on the property view to the northeast. Storage and garage building, view to the north.


PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM ReGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Irenia Caraballo Santiago	
Case ID: PR-RGRW-01795	City: Adjuntas

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
N/A
- Indirect Effect:
N/A

The project area is not located within the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. Based on the results of our historic property identification efforts, the Program has determined that no previously identified historic properties are located within or adjacent to the parcel that contains the proposed Area of Potential Effect. In addition, our background research shows that the project area has no previously identified archaeological sites within an 0.5-mile radius of the APE. With the information gathered in the Archaeology Research Section of this form, it is our position that no Historic Properties will be affected by the proposed project.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGrow PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Irenia Caraballo Santiago	
Case ID: PR-RGRW-01795	City: Adjuntas

Recommendation

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 applicable)

This Section is to be Completed by SHPO Staff Only

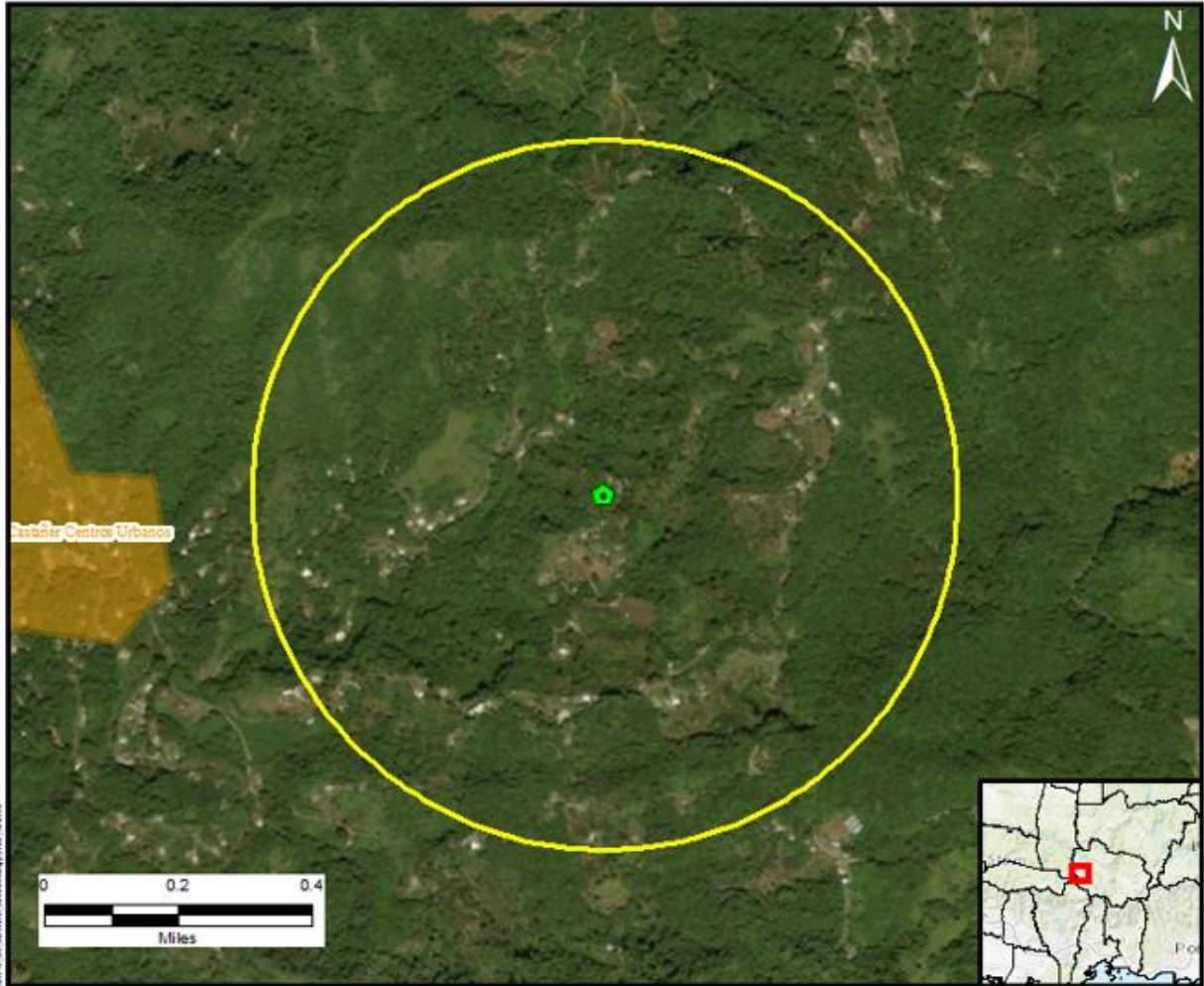
The Puerto Rico State Historic Preservation Office has reviewed the above information and: <input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments: 	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795






City: Adjuntas

Project (Parcel) Location with Previous Investigations - Aerial Map



Source: National Park Service

Legend

-  Tier 2 Site
-  Half Mile Buffer
-  Historic Comunidades
-  Traditional Urban Centers
-  Cultural Resource District Polygon

Author: TG

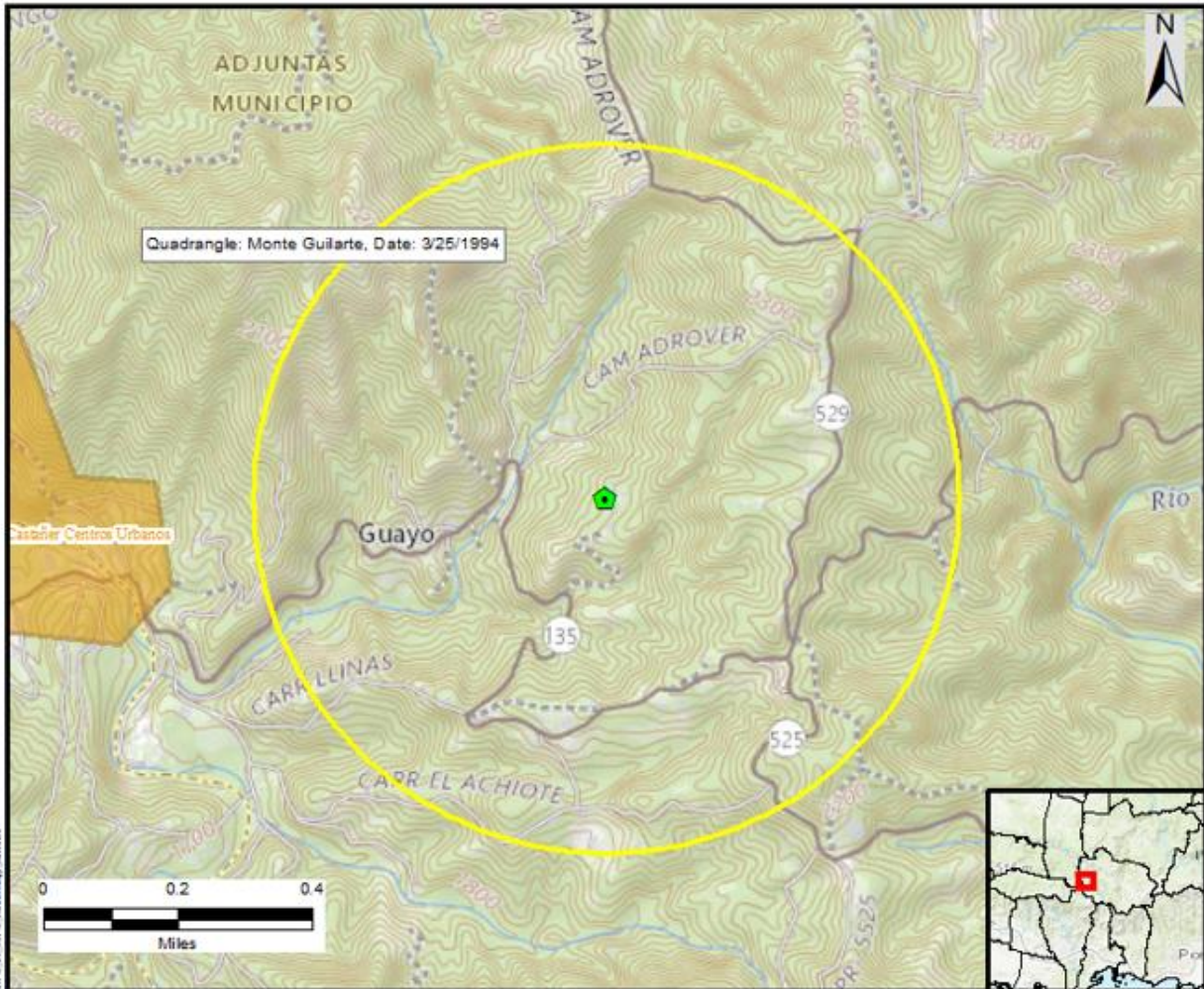
Date: 9/29/2022

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas

Project (Parcel) Location with Previously Recorded Cultural Resources USGS Topographic Map



 TETRA TECH	Legend
	<ul style="list-style-type: none"> Tier 2 Site Half Mile Buffer Historic Comunidades Traditional Urban Centers Cultural Resource District Polygon
Source: National Park Service	
Author: TG	Date: 9/29/2022

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas

Photograph Key



Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas



Photo #: 1

Description (include direction): View to the Northeast

Date: 5/19/2023

Scope Of Work1: Construction of a building



Photo #: 2

Description (include direction): View to the Northwest

Date: 5/19/2023

Scope Of Work 1: Construction of a building

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas



Photo #: 3

Description (include direction): View to the South

Date: 5/19/2023

Scope Of Work 1: Construction of a building



Photo #: 4

Description (include direction): View to the Northeast

Date: 5/19/2023

Scope Of Work 2: Installation of photo voltaic system

Subrecipient: Irenia Caraballo Santiago

Case ID: PR-RGRW-01795

City: Adjuntas



Photo #: 5

Description (include direction): View to the Northwest

Date: 5/19/2023

Scope Of Work 2: Installation of photo voltaic system



Photo #: 6

Description (include direction): View to the North

Date: 5/19/2023

Scope Of Work 2: Installation of photo voltaic system



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,

A handwritten signature in blue ink, appearing to be 'JB', is written over the printed name of the signatory.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT