

# **Environmental Assessment**

## **Determinations and Compliance Findings for HUD-assisted Projects**

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-00588

**Project Name:** Hacienda JKJ, Inc.

**Responsible Entity:** Puerto Rico Department of Housing

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

**State/Local Identifier:** Puerto Rico/Morovis, PR

**Preparer:** Clifford Jarman

**Certifying Officer Name and Title:** Permit and Compliance Officers: Sally Acevedo Cosme, Pedro De León Rodríguez, María T. Torres Bregón, Angel G. López-Guzmán, Ivelisse Lorenzo Torres, Santa Damarys Ramírez Lebrón, and Janette I. Cambrelén

**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 31.71-acres located at Carr. PR-145 Km 4.6 in Bo. Torrecillas, Municipality of Morovis, Puerto Rico (Parcel IDs# 137-000-010-15-000 and 137-000-010-12-000). The coordinates of the property are 18.321376, -66.446427.

The proposed project is located in a rural, sloped terrain with mature vegetation to the northeast and grassy plains within the property. The property has been previously used for growing plantains and is currently used for breeding livestock, with a head count of 70. A two-story concrete residence with a cross gabled corrugated metal roof is located at 18.321133, -66.446030. A metal roof metal structure for storage is located at 18.321084, -66.445563 just east the residence. A second smaller metal roof structure is located at 18.320165, -66.445884 south of the residence.

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

The proposed use of grant funds is for construction of a new fence for breeding livestock with repairs for various areas of the parcel and purchase of equipment including sprayers, utility vehicle, corral system and fencing materials.

The Scope of Work #1 is approximately 800 linear feet of new corral fence in the southeast perimeter of the property at coordinates 18.31974, -66.44477.

The Scope of Work #2 is a corral system (approximately 40-foot by 40-foot) on a terrace at coordinates 18.32028, -66.44579, northeast of the second metal roof structure.

The Scope of Work #3 is the approximately 200 lineal feet of new fence at coordinates: 18.3216892, -66.4488094 at the western perimeter of the property.

The Scope of Work #4 is a new fence with an approximate footprint of 60 feet by 30 feet, at coordinates: 18.32116, -66.44871 just east of the western perimeter.

The proposed project area includes approximately 1,340 linear feet of new and repaired fencing. Assuming a ten-foot width of disturbance for fencing activities, the area of disturbance would be 0.31 acres.

No new water or electric power connection is required, as the farm is already connected to the PREPA and PRASA grid.

Site photos are included in **Appendix A**. A site map (Figure 1) 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 inland 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 construction of new fencing and the purchase of sprayers, utility vehicle, corral system and fencing materials is in keeping with the overall objectives of the Economic Development Program.

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

The land proposed for the repair of existing fencing and installation of new corral fencing is used for agricultural purposes. The installation of the fencing would not change the land use. 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, B-18-DP-72-0001, B-19-DP-78-0002, B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR), CDBG-DR, Re-Grow Puerto Rico Urban-Rural Agricultural Program	\$11,938,162,230

**Estimated Total HUD Funded Amount:** \$47,733.25

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$47,733.25

**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.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project consists of the construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. The nearest civil airport is approximately 123,048 feet from the proposed site. The nearest military airport is approximately 144,143 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 <b>Appendix B.</b>
<p><b>Coastal Barrier Resources</b></p> <p>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in north-central Puerto Rico. The distance to the nearest CBRS unit is 47,864 feet. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to Figure 3 in <b>Appendix B.</b></p>
<p><b>'Flood Insurance</b></p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</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 72000C0655J, effective date November 18, 2009. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in <b>Appendix B.</b>)</p>

<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</b>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a county or air quality management district that is in attainment status or non-attainment status for any criteria pollutants. The Municipio of Morovis is not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants" The project consists of the construction of fencing in four areas, the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials, and would have no impact on air quality. The project is in compliance with Clean Air Act. Refer to EPA listing in <b>Appendix C.</b></p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>The project is located 48,356 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 <b>Appendix B.</b></p>
<p><b>Contamination and Toxic Substances</b></p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>A site visit was conducted on November 14, 2022, no debris, rubbish or visible signs of</p>

<p>24 CFR Part 58.5(i)(2)</p>		<p>vegetative stress, contamination, or toxic substances were noted at the project site.</p> <p>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> <p>The project consists of the construction of fencing in four areas, the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. See <b>Appendix A</b>. Refer to Figures 8 and 9 in <b>Appendix B</b>. The project is in compliance with Contamination and Toxic Substances.</p>
<p><b>Endangered Species</b></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 will have No Effect on listed species. According to EPA NEPAAssist Enviromapper, the nearest critical or proposed critical habitat is 31,698 feet to the west 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 can be found, but there are no critical habitats at this location. The proposed project will have no potential to affect species or habitats due to the agricultural nature of the activities involved in the project. The fencing would be located in an area that has been used for agricultural purposes and the equipment and utility vehicle used in an area currently under cultivation.</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 USFW Puerto Rican Boa Conservation Measures guidelines.</p> <p><a href="https://ipac.ecosphere.fws.gov/guideline/design/population/156/office/41430.pdf">https://ipac.ecosphere.fws.gov/guideline/design/population/156/office/41430.pdf</a></p>

		Refer to Figures 10 and 11 in <b>Appendix B</b> and IPaC report in <b>Appendix D</b> . This project is in compliance with the Endangered Species Act.
<b>Explosive and Flammable Hazards</b>  24 CFR Part 51 Subpart C	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project does not include development, construction, or rehabilitation that will increase residential density.  The project is in compliance with Explosive and Flammable Hazard requirements.  Refer to site visit report in <b>Appendix A</b> .
<b>Farmlands Protection</b>  Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	Parts of the project areas are designated as prime farmland and others as farmland of statewide importance. The project consists of the construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. The project does not include any activities that could potentially convert agricultural land to nonagricultural use. This project is in compliance with the Farmland Protection Policy Act. Refer to Figure 12 in <b>Appendix B</b> .
<b>Floodplain Management</b>  Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C0655J, 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 6a through 6d. This project is in compliance with Executive Order 11988. (See maps in <b>Appendix B</b> .)
<b>Historic Preservation</b>  National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The site was evaluated on January 16, 2023 and revised March 16 <sup>th</sup> and 17 <sup>th</sup> , 2023 by an SOI Qualified Archaeologist. Documentation with maps was subsequently submitted to SHPO on April 10 ( <b>Appendix E</b> ). SHPO concurred with a finding of <b>No Historic Properties Affected</b> within the project's Area of Potential on Effects on April 13, 2023. Refer to Figure 13 in <b>Appendix B</b> and the report in <b>Appendix E</b> . This project is in compliance with Historic Preservation requirements.

<p><b>Noise Abatement and Control</b></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 construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials 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><b>Sole Source Aquifers</b></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><b>Wetlands Protection</b></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 north coast is 55,387 feet northwest of the property. The closest fresh-water bodies include Quebrada del Suro 950 feet northeast of the property, Quebrada del Riego 1109 feet southwest of the property, Quebrada Grande 3,590 feet southeast of the property, and Río Grande de Manatí 4,277 feet northwest of the property.</p> <p>The NWI maps show no wetlands on the or adjacent to the project site. This project does not impact any on or off-site wetlands and includes no activities that would require further evaluation under this section. The project is in compliance with Executive Order 11990. Refer to Figure 14 in <b>Appendix B</b>.</p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>   <input checked="" type="checkbox"/></p>	<p>This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 226,712 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in <b>Appendix B</b>.</p>

<p><b>ENVIRONMENTAL JUSTICE</b></p>		
<p><b>Environmental Justice</b></p>	<p>Yes    No</p>	<p>No adverse environmental impacts were identified in any other compliance review</p>

Executive Order 12898

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 or 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
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed project is located on a private farm. The project consists of the construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. The project site is not zoned. The proposed action is compliant with the current agricultural land use of the Project area.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	The proposed project is located in hill terrain, previously used for growing plantains, and currently used for breeding livestock. The terrain is classified as Ingenio clay loam (InD), 5 to 20 percent slopes, surrounded by farmland and secondary forest vegetation cover, 250 meters above mean sea level.  Projects larger than 1 acre must comply with the CWA and develop a SWPPP with the NPDES. The proposed project area includes approximately 1,340 linear feet of new and repaired fencing. Assuming a ten-foot width of disturbance for fencing activities, the area of disturbance would be 0.31 acres.

		<p>Most of the project site area is rated “low” for landslide susceptibility (see Figure 16 in <b>Appendix B</b>). Some of the areas where the fences would be installed as are rated “high.”</p> <p>There will be no human habitation associated with the structure and therefore extensive mitigation measures will not be required, such as retaining walls or special engineering design.</p> <p>There will be little to no additional runoff associated with the project. Standard construction BMPs would be used to control erosion and runoff during construction.</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.</p>
Energy Consumption	2	<p>The project is connected to the local electricity provider. The project does include new power consumption operations. There would be no change in energy demand in the area.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
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**SOCIOECONOMIC**

Employment and Income Patterns	2	<p>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 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	<p>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.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
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## COMMUNITY FACILITIES AND SERVICES

Educational and Cultural Facilities	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 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	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 any clearing associated with installing the new fencing will either be composted on site or at regional composting centers. Any soil removed would be recycled on the farm as fill. Left over construction materials that could be reused on the farm (e.g., fencing materials) 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 installation of the fencing would be minor.
Wastewater / Sanitary Sewers	2	The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current farm conditions would remain unchanged.
Water Supply	2	Applicant has access to a water supply from the local utility. There would be no change in water usage associated with the proposed action.
Public Safety - Police, Fire and Emergency Medical	2	The proposed project would not create any new demand for emergency or health services.
Parks, Open Space and Recreation	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.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	The proposed project will be situated on land currently used for agriculture and will have no impact to unique natural features or water resources.
Vegetation, Wildlife	2	The proposed project will occur on land currently used for agricultural purposes and will continue in that capacity. The proposed project will have no impact on vegetation and wildlife.
Climate Change	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.

**Additional Studies Performed:** None required.

**Field Inspection** (Date and completed by):

Site inspection was conducted on November 14, 2022, by Carlos Medina.

**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/npis/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npis/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)

John H. Chafee Coastal Barrier Resources System, Puerto Rico [map](http://www.fws.gov/CBRA/Maps/Locator/PR.pdf).  
[www.fws.gov/CBRA/Maps/Locator/PR.pdf](http://www.fws.gov/CBRA/Maps/Locator/PR.pdf)

National Wild and Scenic Rivers System: [www.rivers.gov/puerto-rico.php](http://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/](http://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](http://www3.epa.gov/airquality/greenbook/anayo_pr.html)

US EPA, Environmental Topics, Air Topics: [www.epa.gov/environmental-topics/air-topics](http://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](http://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](http://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 includes 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 use of the farm for breeding of livestock would not change. The project would allow repair of fencing and new fencing and livestock control systems and equipment for better control of the livestock.

**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 construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. 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 for areas that need repairs or handling of livestock near existing structures. Alternative fencing locations are not needed, or for the corral, would be farther from the existing structures used for the livestock.

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

Under the No Action Alternative, the applicant would not receive federal funding for the construction of fencing in four areas and the purchase of equipment including sprayers, utility vehicle, corral system and fencing materials 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.

**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
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Standard construction BMPs would be used to control erosion and runoff during construction.

**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: 07/20/23

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

Certifying Officer Signature:  Date: 7/31/2023

Name/Title: Janette I. Cambrelén, Permit 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-00588		
Applicant Name	Hacienda JKJ, Inc		
Property Address	Carr 145 km 4.6 Bo Torrecillas		
Parcel ID	137-000-010-015-000		
Coordinates	18.321376, -66.446427		
Inspector Name	Carlos O. Medina		
Inspection Date	11/14/2022		
Building Type	concrete		
Number of Units	1		
Number of Stories	1		
Year Built; Data Source	C2022; Historian		
ENVIRONMENTAL OBSERVATIONS (attach photos and notes, as necessary, for any YES answers)			
OBSERVATION ITEMS	YES	NO	COMMENTS
<b>A. Is the structure in use?</b>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Applicant use the land for the breeding of livestock. No structure, only applicant house in the parcel.
<b>B. is structure a greenhouse?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>C. Is Electricity connected?</b>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>D. Is water connected?</b> (Utilities or Well)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Water connected by utilities
<b>1. Are there signs of poor housekeeping</b> 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"/>	
<b>2. Are there any 55-gallon drums</b> visible on site? If yes, are they leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>3. Are there any (or signs of any) underground storage tanks</b> on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>4. Are there signs of ASTs</b> on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>5. Is there any stained soil or pavement</b> on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6. Is a water drainage system</b> in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>7. Is a warehouse in use for storage of Fertilizer or Pesticides?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>8. Are there any groundwater monitoring wells</b> on the site or adjacent parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>9. Is there evidence of a faulty septic system?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>10. Is there distressed vegetation</b> on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>11. Is there any visible indication of MOLD?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

12. Is there any visible evidence of <b>asbestos, chipping, flaking or peeling paint, or hazardous materials</b> present in or on the structure?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13. Are any <b>additional site hazards</b> observed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14. Is there any <b>permanent standing water</b> , 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 <b>water frontage</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16. Is there any indication of the presence of <b>Wetlands</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
17. Are there any obvious signs of <b>animals or birds nesting</b> on or near the site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18. Is the applicant aware of any <b>significant historical event or persons</b> associated with the structure, or of it being located in a historic district/area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
19. Is a <b>historic marker</b> present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Additional Notes:

Case: PR-RGRW-00588  
Correct coordinates: 18.321376, -66.446427

Scope of Work: The purchase of equipment including sprayers, utility vehicle, corral system and fencing materials. The fence will be a new fence and ground disturbance will occur.

Land current in use for: Breeding of livestock, headcount of 70.

Past land use was: Applicant stated in the past the land was used a plantains plantation.

What the applicant plans to do: Applicants plan to do new fence and repair in different area of the parcel.

Where the applicant plans to do the ground disturbance for the new structures:

See attached pictures in Structure on Use questions for details and coordinates. Reference an attached sketch.

Area 1: Applicants plan to do a new fence in the Southeast perimeter on this area. Coordinates 18.31974° N, -66.44477° W. Approximately 800' linear.

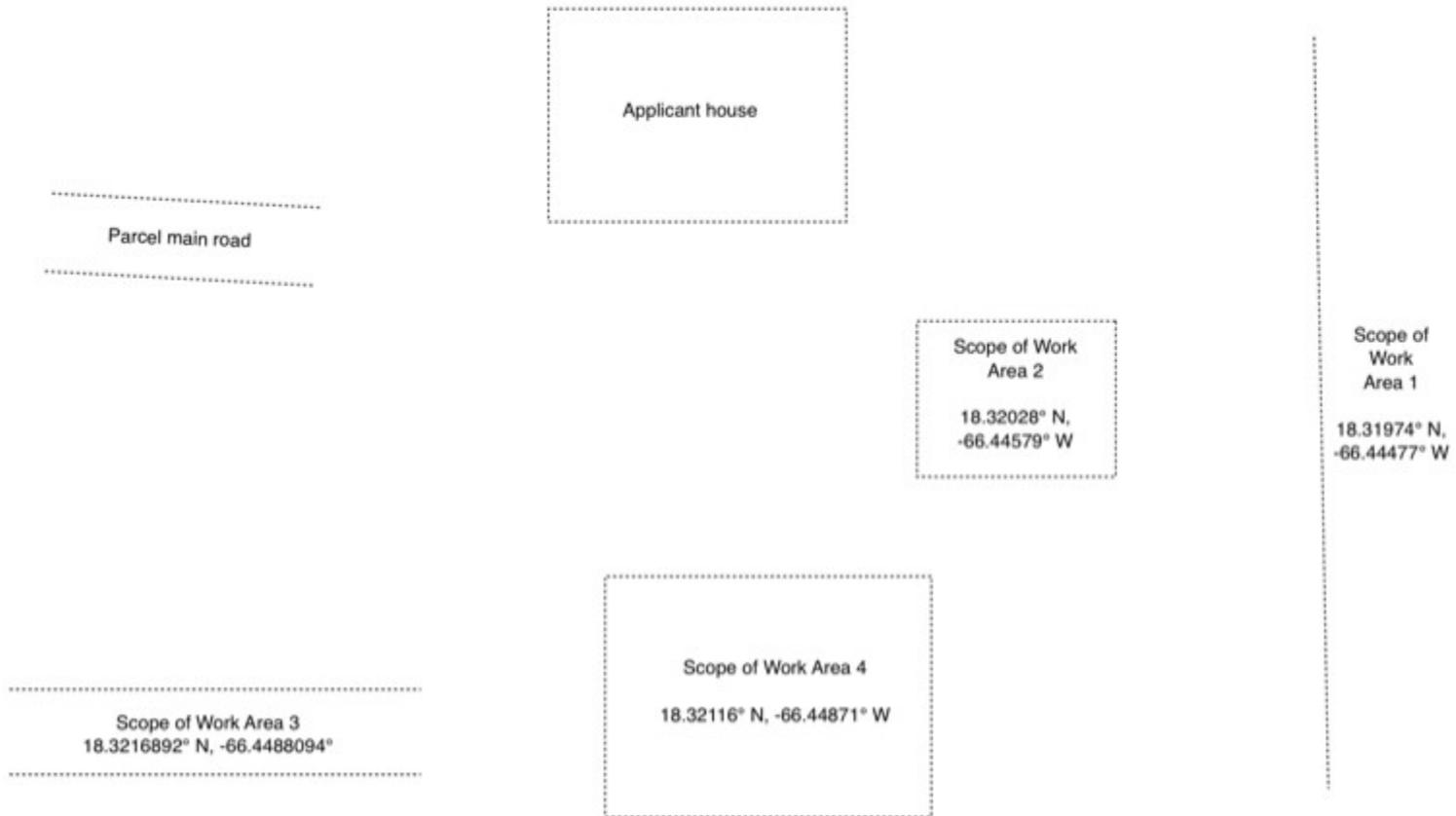
Area 2: Applicant plan to do a corral system in this terrace. Coordinates 18.32028° N, -66.44579° W.

Area 3: Applicant plan to construct a new fence. Coordinates: 18.3216892° N, -66.4488094° W. Approximately 200' lineal

Area 4: Applicant plans to do a fence around this area. Coordinates: 18.32116° N, -66.44871° W. Approximately a footprint of 60' x 30'

Any new water connection, well, cisterns or power connection: No plan to do any water or power connection.

# PR-RGRW-00588



### Project (Parcel) Location – Area of Potential Effect Map (Aerial)



#### Legend

-  Tier 2 Site
-  Parcelario
-  Area of Potential Effect



**TETRA TECH**

Source: CRIM



**Front of Structure**

Photo Direction: South



**Facing Away From Front**

Photo Direction: North



**Side #1 of Structure**

Photo Direction: East



**Facing Away From Side #1**

Photo Direction: West



**Back of Structure**

Photo Direction: South



**Facing Away From Back**

Photo Direction: North



**Side #2 of Structure**

Photo Direction: Northeast



**Facing Away From Side #2**

Photo Direction: Southwest



**Streetscape #1**

Photo Direction: Northeast



**Streetscape #2**

Photo Direction: Southwest



Address

Photo Direction: Southeast



Outbuildings

Photo Description: Applicant house

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: South



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: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



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: Northwest



Structure Occupied

Photo Description: Scope of work area 1

Photo Direction: Southeast



Structure Occupied

Photo Description: Scope of work area 2

Photo Direction: West



Structure Occupied

Photo Description: Scope of work area 3

Photo Direction: Southwest



Structure Occupied

Photo Description: Scope of work area 4

Photo Direction: Northwest



Structure Occupied

Photo Description: Fence example

Photo Direction: Northwest



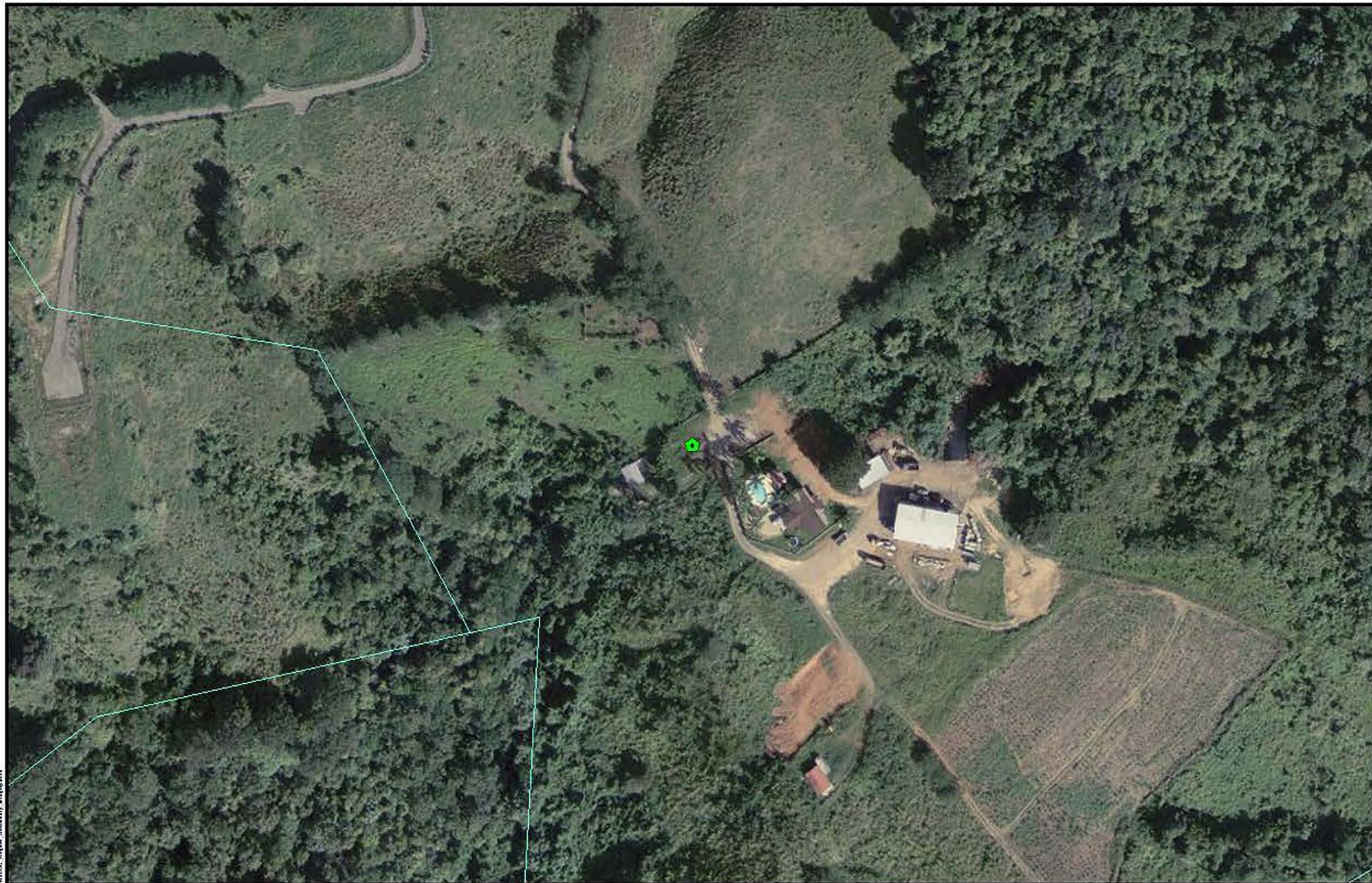
Structure Occupied

Photo Description: Example of the fence material to use

Photo Direction: Northwest



# Appendix B



**Legend**

-  Project Parcel
-  Parcels

**PUERTO RICO**



**Figure 1: PROJECT LOCATION**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

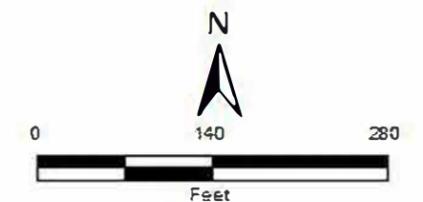
Name of Development: Hacienda JKJ, Inc

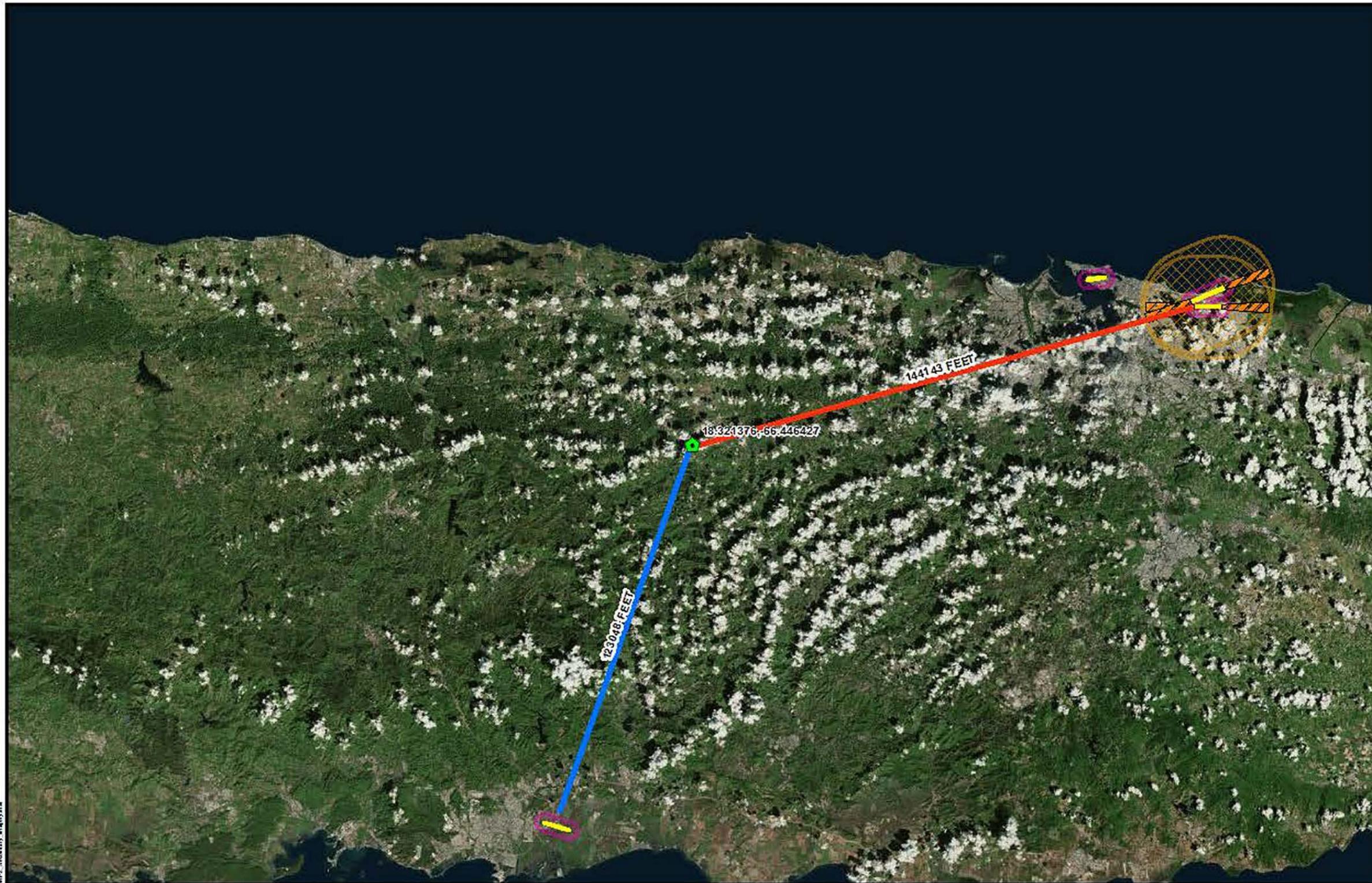
Parcel Coordinates: 18.321376, -66.446427



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

Author: TS Date: 2/29/2023





**Legend**

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

**Distance to Nearest Airport  
in Feet: 123048**

**PUERTO RICO**



**Figure 2: AIRPORT ZONES**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

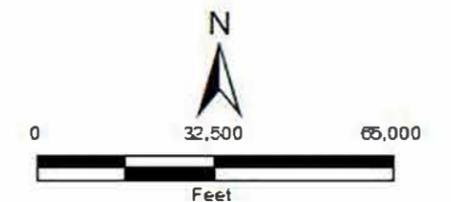
Name of Development: Hacienda JKJ, Inc

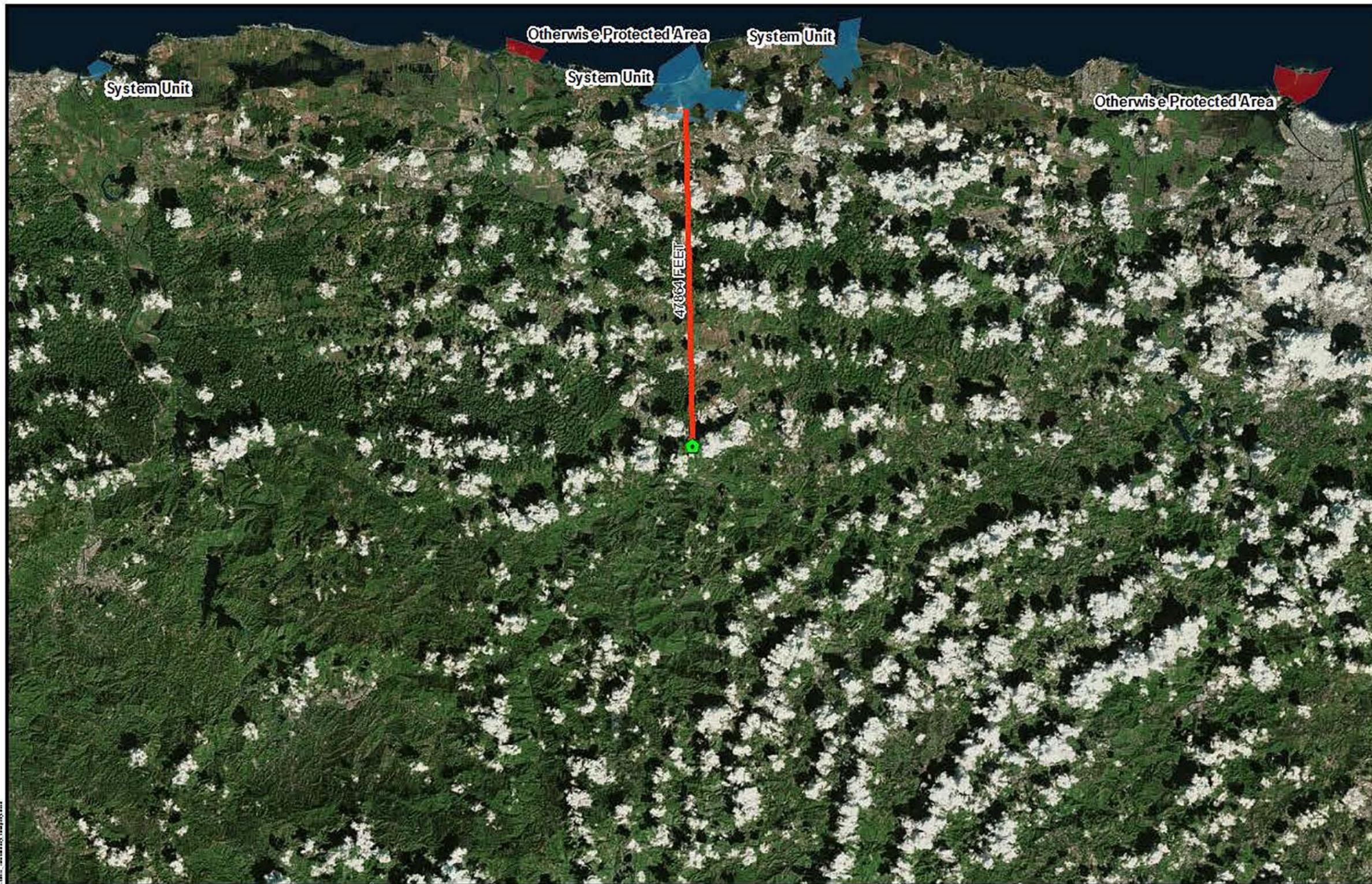
Parcel Coordinates: 18.321376, -66.446427



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

Author: TS Date: 10/4/2022





**Legend**

Project Parcel

**Coastal Barrier Resources System Unit Type**

Otherwise Protected Area  
 System Unit

Distance to Nearest Coastal Barrier Resources System in Feet: 47,864

**PUERTO RICO**



**Figure 3: COASTAL BARRIERS IMPROVEMENT ACT**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

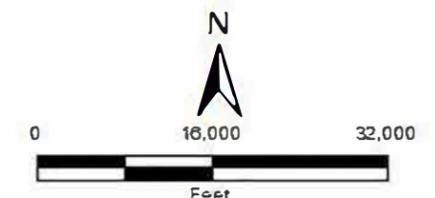
Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



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

Author: TC Date: 10/4/2022





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

**PUERTO RICO**



**Figure 4: FLOODPLAIN MANAGEMENT**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

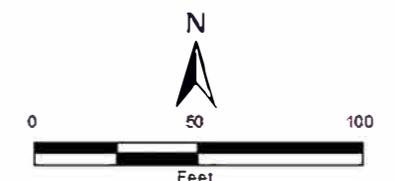
Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



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

Author: TG Date: 11/1/2022





**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
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
	Hydrographic Feature	
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



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

Author: TC Date: 10/4/2022

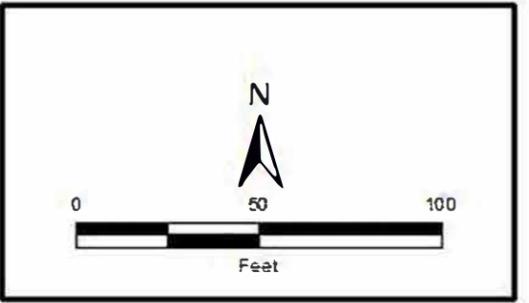
**FIGURE 5: NATIONAL FLOOD HAZARD LAYER FIRMETTE**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

Name of Development: Hacienda JKJ, Inc

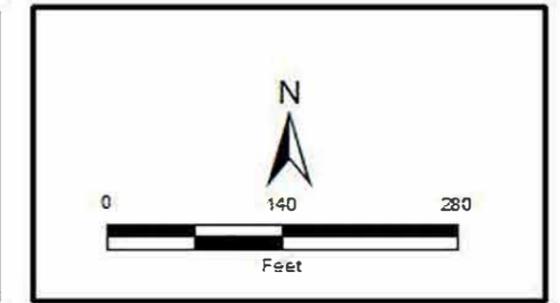
Parcel Coordinates: 18.321376, -66.446427





- Legend**
- PuertoRico\_ABFE\_1PCT  
Advisory Base Flood Elevation (zoom in to make visible)  
—
  - Flood Hazard Boundary (zoom in to make visible)  
Limit of Moderate Wave Action (LIMWA)  
▲
  - Flood Hazard Extent  
— 1% Annual Chance Flood  
— 0.2% Annual Chance Flood
  - Zone/BFE Boundary  
□
  - Flood Hazard Area (zoom in to make visible)  
Flood Hazard Zone  
    - A
    - AO
    - AE
    - Coastal A Zone
    - VE
    - X 0.2% Annual Chance Flood
    - A-Floodway
    - AE-Floodway
    - Coastal A Zone and Floodway

**PUERTO RICO**



**FIGURE 6a: ADVISORY BASE FLOOD ELEVATION**

**APPLICANT ID: PR-RGRW-00584**

**ADDRESS: Barrio Robles Sector la Sierra Carr 722 Interior, PR 00705**

**Name of Development: Corderos Campo Verde, Inc.**

**Parcel Coordinates: 18.125828, -66.243548**



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

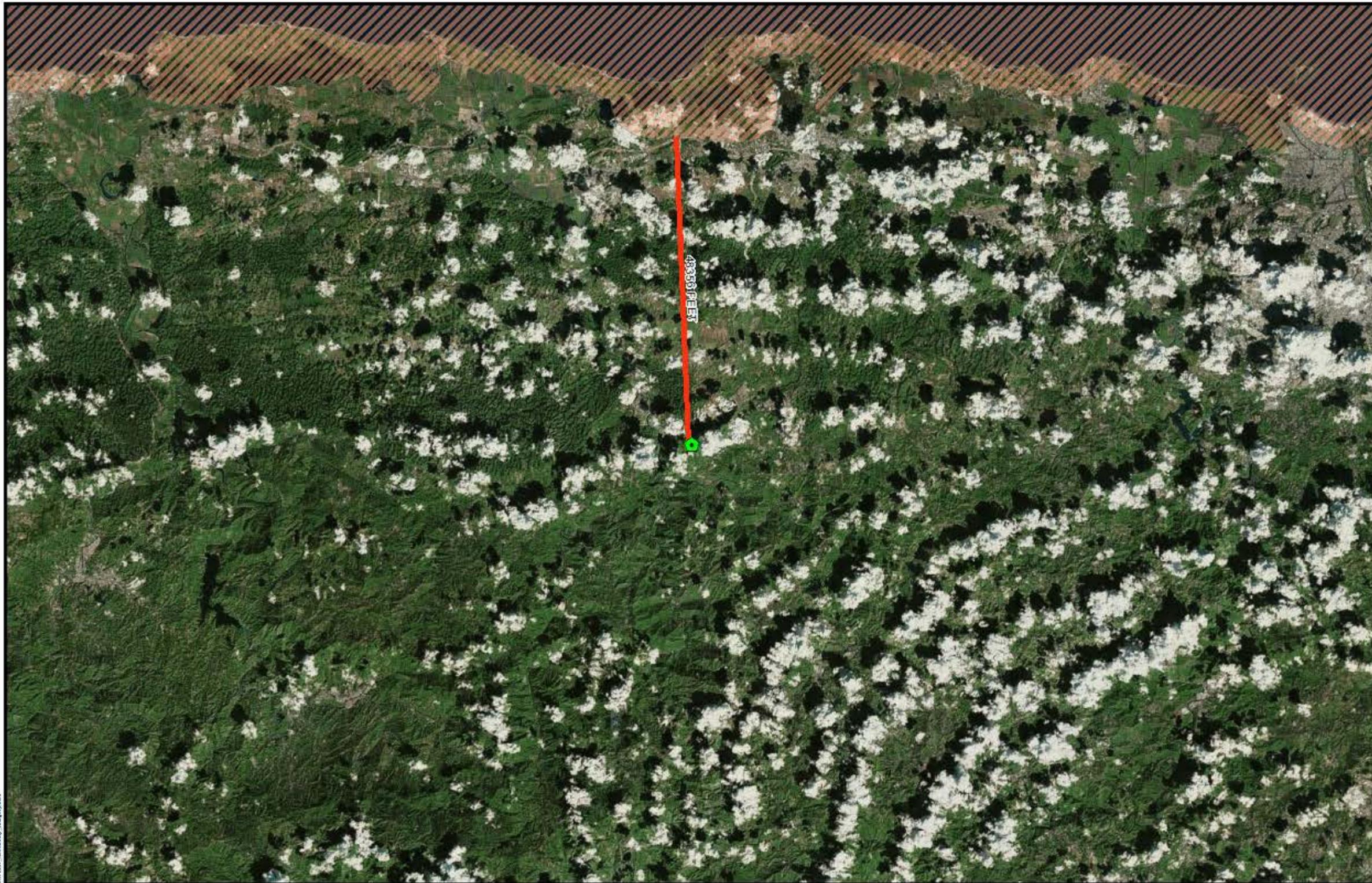
Author: TG Date: 2/16/2023

18.125828, -66.243548









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

Distance to nearest Coastal Zone Management Boundary in feet: 48,356

**PUERTO RICO**



**Figure 7: Coastal Zone Management**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

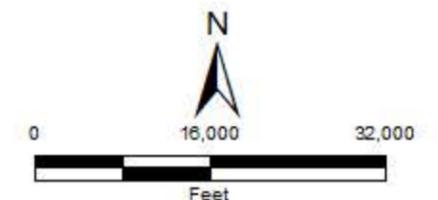
Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



Source: NOAA's Ocean Service  
<https://data.noaa.gov>

Author: TG Date: 10/4/2022



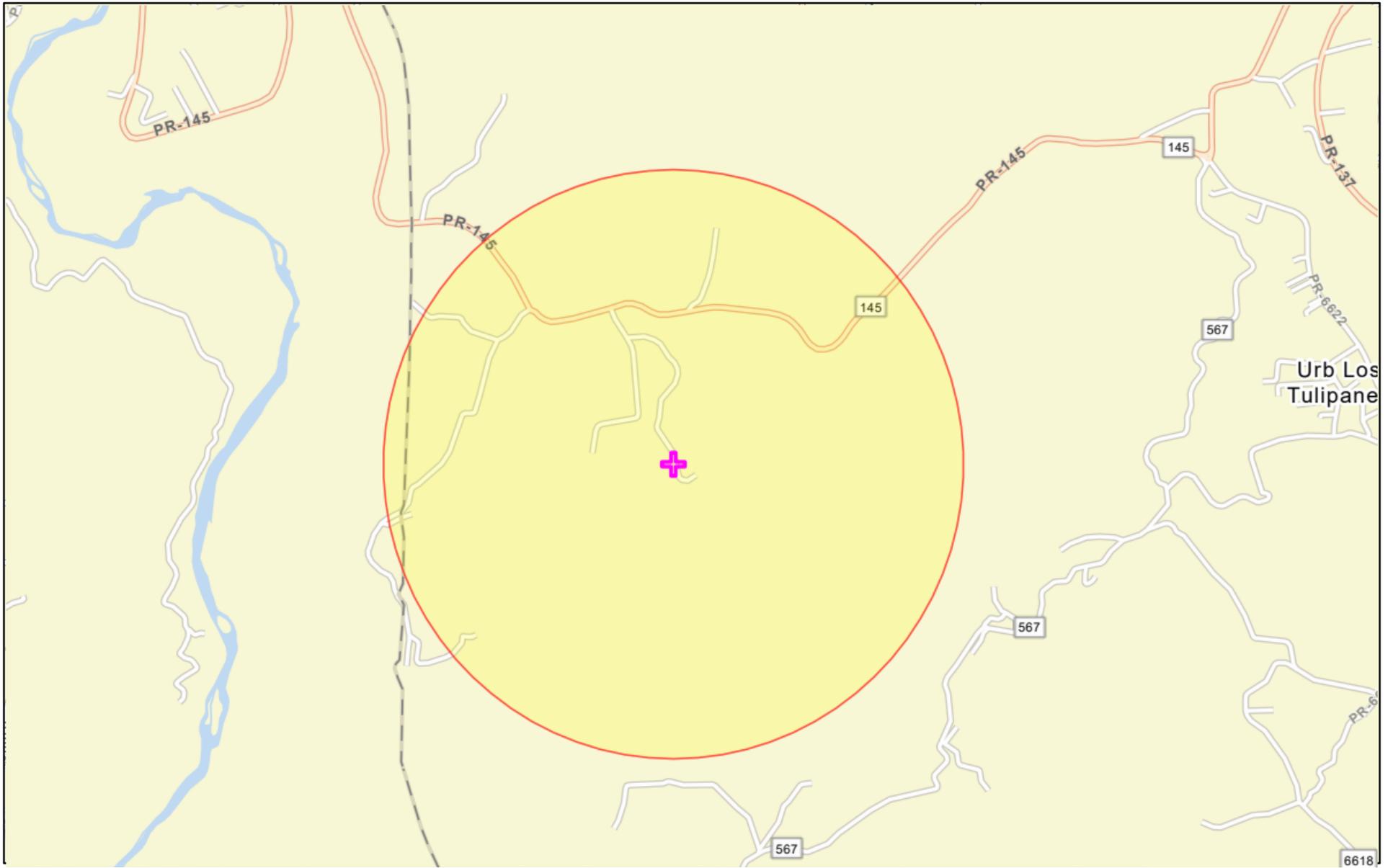


- + Water Dischargers (NPDES)
- + Toxic Releases (TRI)
- + Project Buffer
- + Water Dischargers (NPDES)
- + Hazardous Waste (RCRAInfo)
- + Search Result (point)
- + Air Pollution (ICIS-AIR)
- + Hazardous Waste (RCRAInfo)

1:18,056

0 0.13 0.25 0.5 mi  
0 0.23 0.45 0.9 km

Esri Community Maps Contributors, Esri, HERE, Garmin, FourSquare, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, NPS, US Census



**Figure 9: NEPA Assist Map**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

Name of Development: Hacienda JKJ, Inc

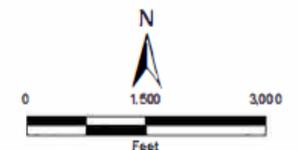
Parcel Coordinates: 18.321376, -66.446427



**TETRA TECH**

Source: EPA  
<https://www.epa.gov/its/geospatial-data-download-service>

Date: 11/02/2022





Legend

 Project Parcel

### PUERTO RICO



### Figure 10: ENDANGERED SPECIES ACT

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427

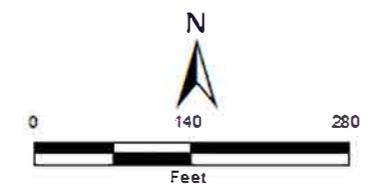


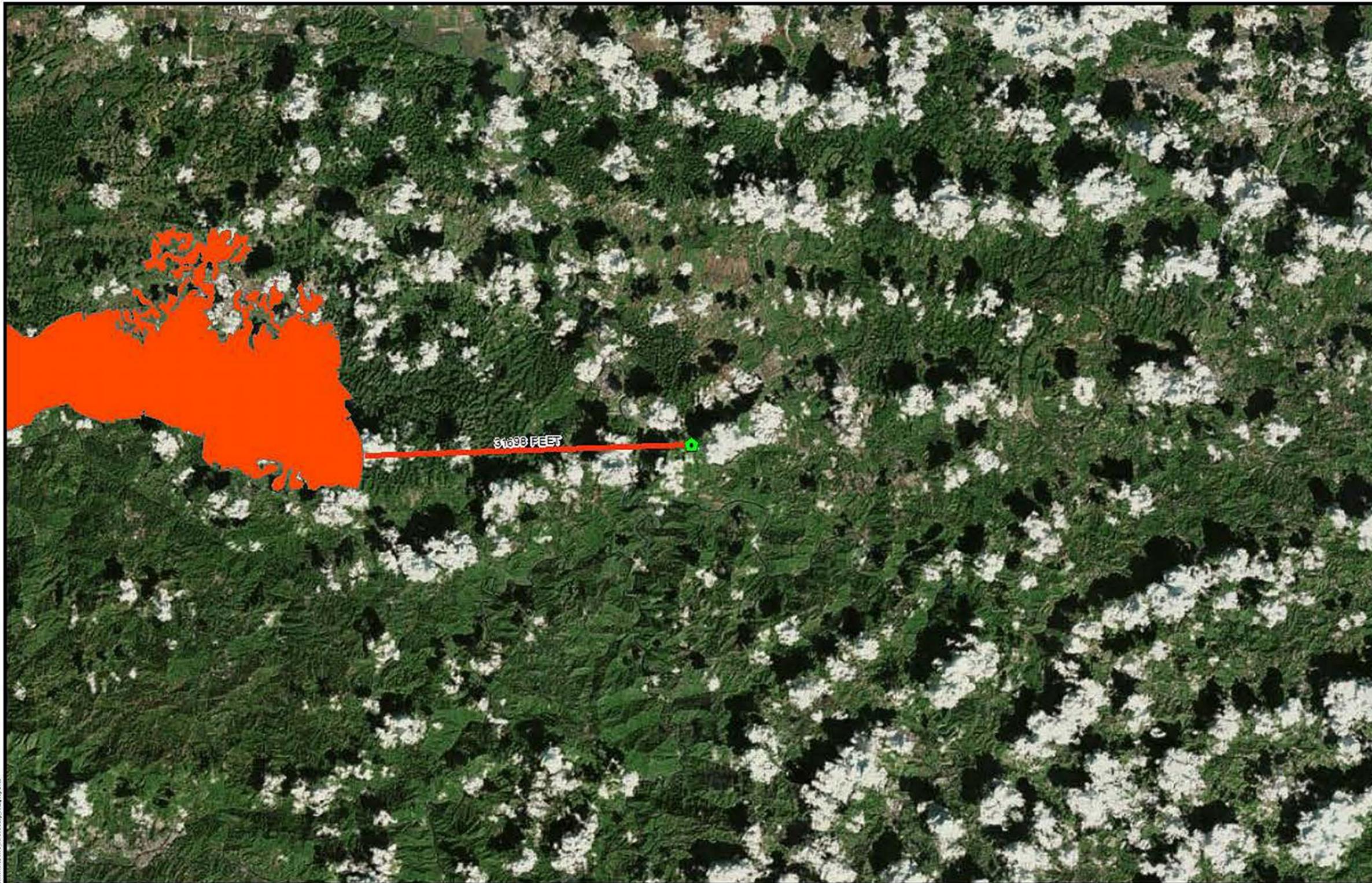
Source: U.S. FISH & WILDLIFE SERVICE

<https://ecos.fws.gov>

Author: TG

Date: 10/14/2022





**Legend**

 Project Parcel

**comname**

 Puerto Rico harlequin butterfly

Distance to nearest Critical Habitat in feet:  
31,698

**PUERTO RICO**



**Figure 11: Critical Habitat**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

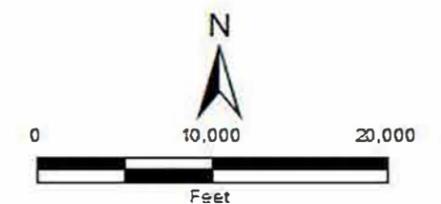
Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



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

Author: TC Date: 2/21/2023





- 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-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

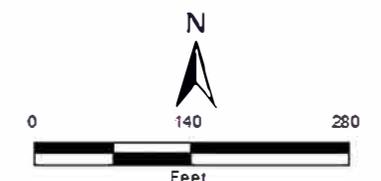
Name of Development: Hacienda JKJ, Inc

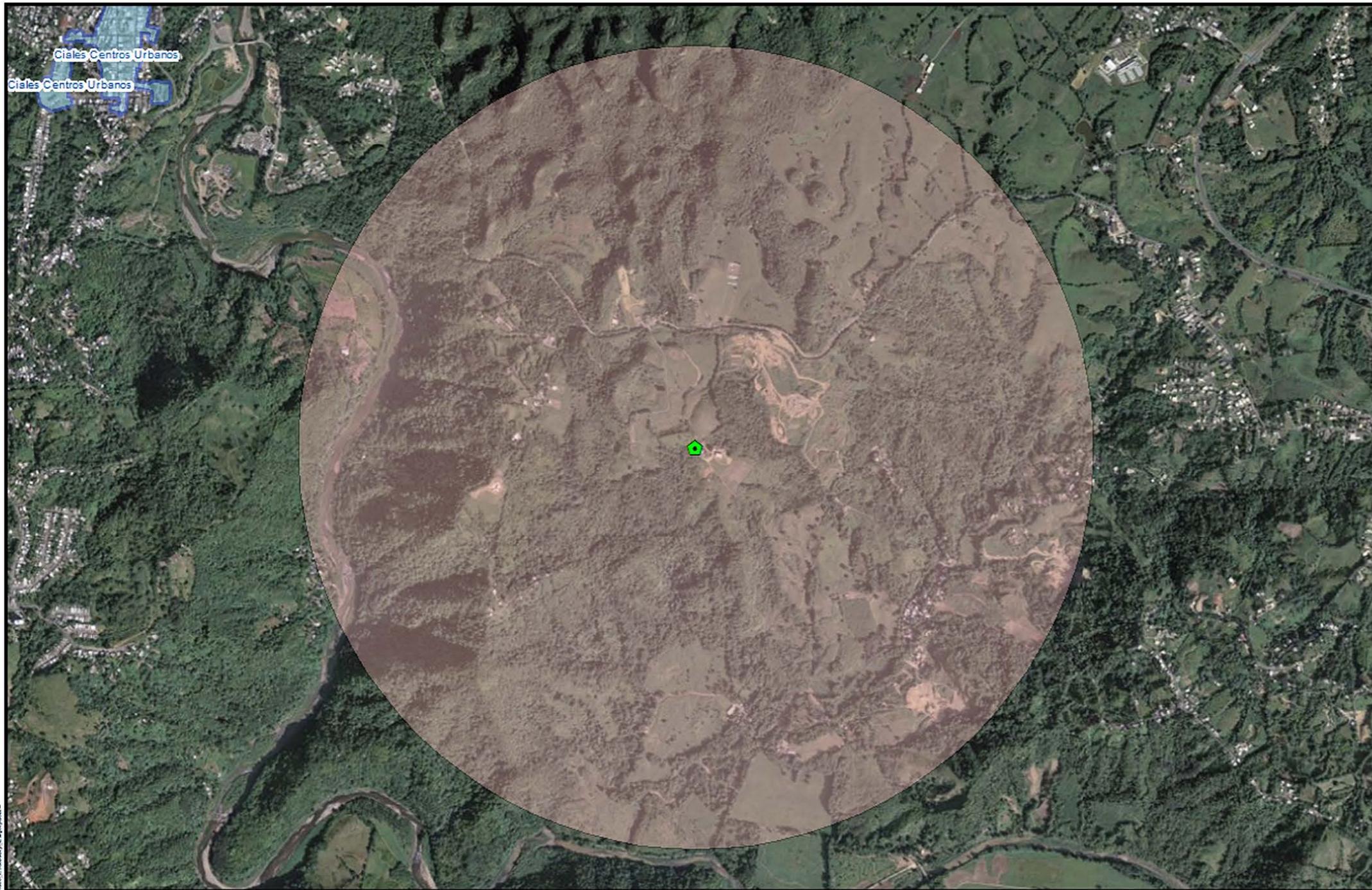
Parcel Coordinates: 18.321376, -66.446427



Source: USDA  
<https://websoilsurvey.sc.egov.usda.gov/>

Author: TG Date: 10/24/2022





- Legend**
- Project Parcel
  - Historic ICP Sites
  - Cultural Resource Building Point
  - Cultural Resource District Point
  - Cultural Resource Site Point
  - Cultural Resource Structure Point
  - Historic Comunidades
  - Traditional Urban Centers
  - Cultural Resource Building Polygon
  - Cultural Resource District Polygon
  - Cultural Resource Site Polygon
  - Cultural Resource Structure Polygon
  - 1 Mile Property Buffer

**PUERTO RICO**



**Figure 13: HISTORIC PRESERVATION**

**APPLICANT ID: PR-RGRW-00588**

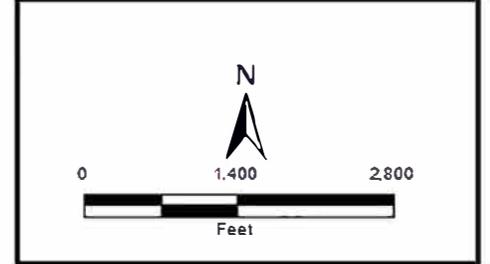
ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



Source: National Park Service  
<https://www.nps.gov/>



10/24/2022 10:24:10 AM C:\Users\jgarcia\OneDrive\Documents\Projects\PR-RGRW-00588\Figure 13: HISTORIC PRESERVATION.mxd



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

**PUERTO RICO**

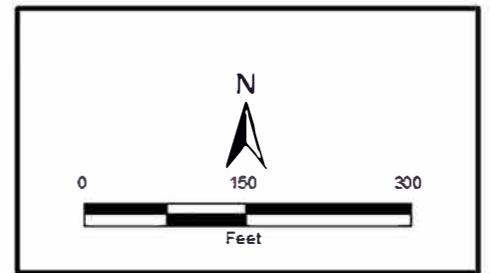


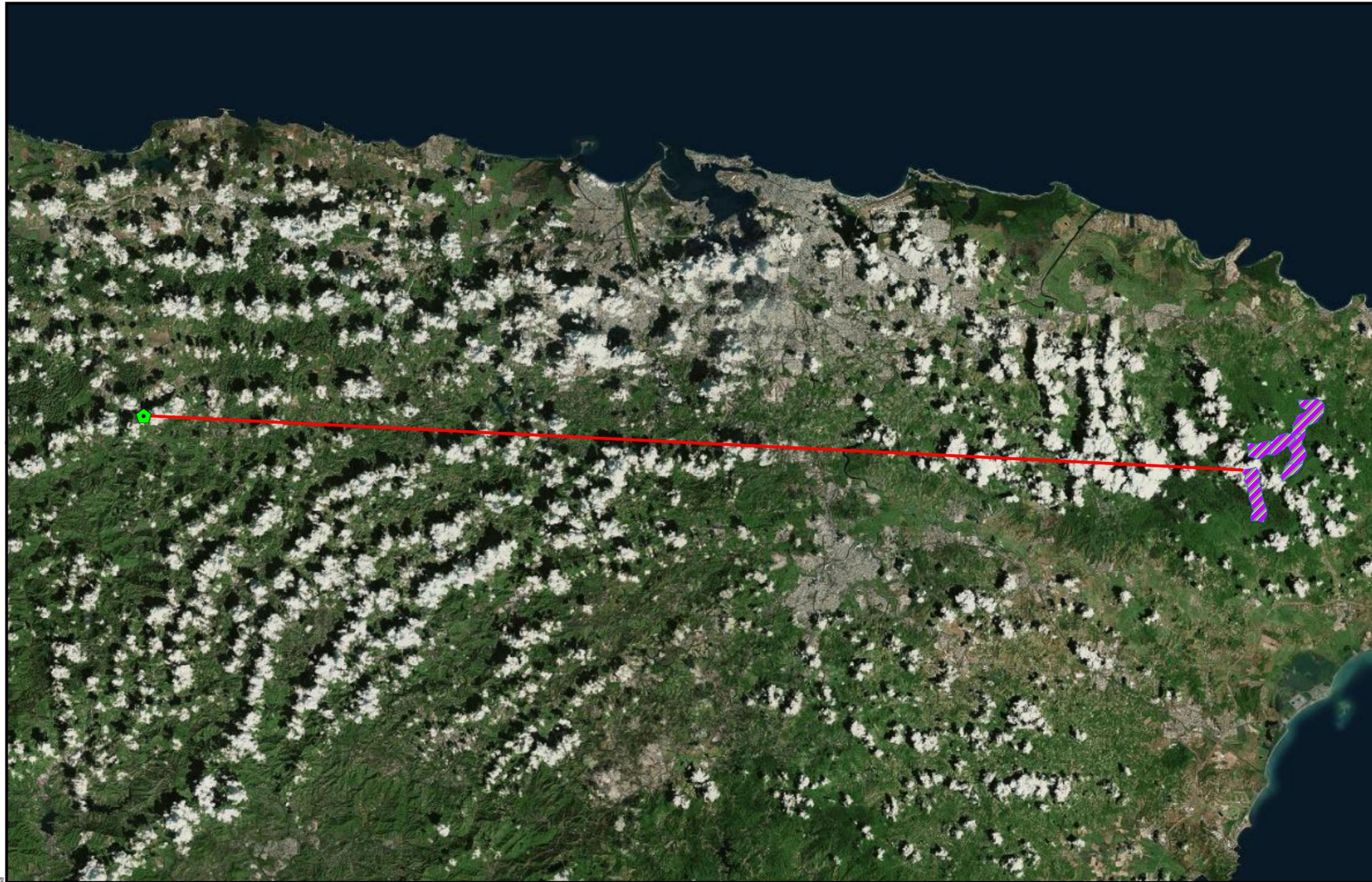
**Figure 14: WETLANDS**

**APPLICANT ID: PR-RGRW-00588**  
**ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687**  
**Name of Development: Hacienda JKJ, Inc**  
**Parcel Coordinates: 18.321376, -66.446427**



**TETRA TECH**  
 Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>  
 Author: TG Date: 10/4/2022



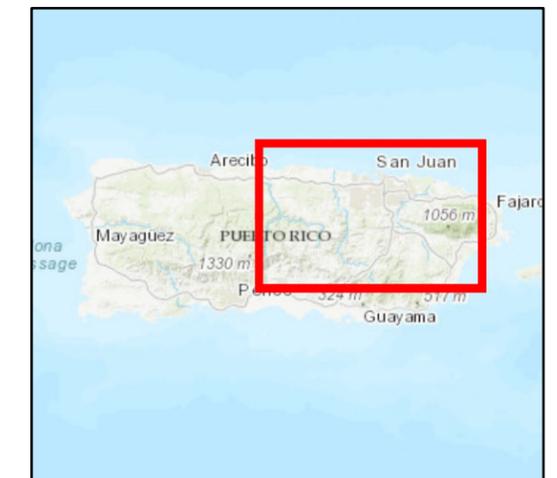


**Legend**

-  Project Parcel
-  Nearest WSR
-  Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River in Feet: 226712

**PUERTO RICO**



**Figure 15: WILD AND SCENIC RIVERS ACT**

**APPLICANT ID: PR-RGRW-00588**

ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687

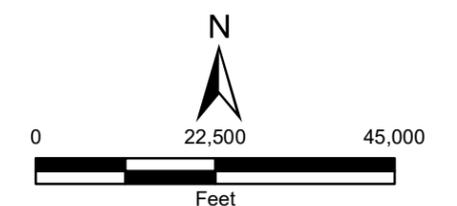
Name of Development: Hacienda JKJ, Inc

Parcel Coordinates: 18.321376, -66.446427



Source: U. S. Forest Service  
<https://www.fs.usda.gov>

Author: TG Date: 4/20/2023





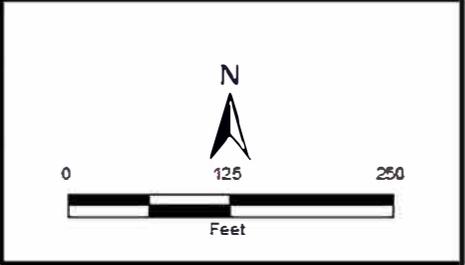
- Legend**
-  Project Parcel
  - Landslide Susceptibility**
  -  Extremely High
  -  Very High
  -  High
  -  Moderate
  -  Low

**PUERTO RICO**



**Figure 16: SLOPE AND EROSION**

**APPLICANT ID: PR-RGRW-00588**  
**ADDRESS: Carr 145 km 4.6 Bo Torrecillas, PR 00687**  
**Name of Development: Hacienda JKJ, Inc**  
**Parcel Coordinates: 18.321376, -66.446427**




**TETRA TECH**

Source: PRDOH  
<http://usgs.maps.arcgis.com>  
<https://www.esri.com/arcgis/index.html?ti=10506ec07f15491d8ee17647f19248ee>  
 Author: TG Date: 10/4/2022

# Appendix C

**Green Book** [Contact Us](#)

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

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

Data is current as of February 28, 2023

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

\* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m<sup>3</sup>) 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 \(PDF\)](#)

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or Part County	Population (2010)	State/County FIPS Codes
<b>PUERTO RICO</b>								
Arecibo Municipio	Lead (2008)	Arecibo, PR	11 12 13 14 15 16 17 18 19 20 21 22 23	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18 19 20 21 22 23	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18 19 20 21 22 23	//		Part	52,441	72/137

# Appendix D

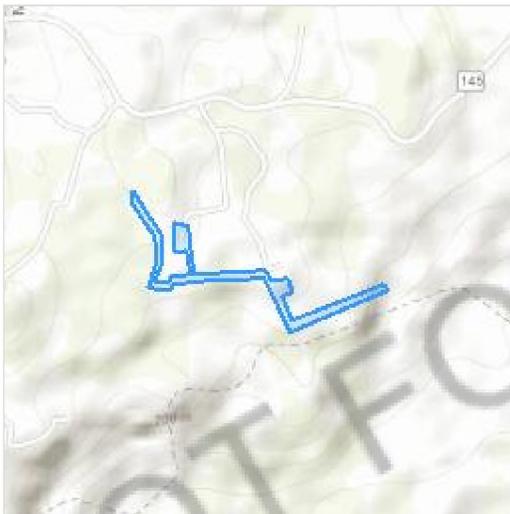
# IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

## Location

Morovis County, Puerto Rico



# Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

✉ [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

## MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

## PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

---

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
2. [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.

The following species are potentially affected by activities in this location:

## Reptiles

NAME	STATUS
<p>Puerto Rican Boa <i>Chilabothrus inornatus</i></p> <p>Wherever found</p> <p>No critical habitat has been designated for this species.</p> <p><a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a></p>	Endangered

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

There are no migratory birds of conservation concern expected to occur at this location.

**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

**What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?**

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a

BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### **What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?**

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

### **How do I know if a bird is breeding, wintering or migrating in my area?**

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

### **What are the levels of concern for migratory birds?**

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

## Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

## What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

## Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Facilities

## National Wildlife Refuge lands

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 at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

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](#).

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

**Data limitations**

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### **Data exclusions**

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

# Appendix E



**GOVERNMENT OF PUERTO RICO**  
STATE HISTORIC PRESERVATION OFFICE

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

April 13, 2023

**Lauren Bair Poche**

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

SHPO 04-10-23-04 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:  
PR-RGRW-00588 – HACIENDA JKJ, INC – CARR. PR-145 KM 4.6, BO.  
TORRECILLAS, MOROVIS, 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



April 10, 2023

Carlos A. Rubio Cancela  
Director Ejecutivo  
Oficina Estatal de Conservación Histórica  
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-00588 – Hacienda JKJ, Inc – Carr. PR-145 Km 4.6, Bo. Torrecillas, Morovis, Puerto Rico – No Historic Properties Affected**

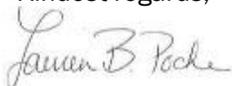
Dear Architect Rubio Cancela,

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) and the Home Repair, Reconstruction, or Relocation (R3) Program. 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, we are submitting documentation for activities proposed by Hacienda JKJ, Inc. at Carr. PR-145 Km 4.6 in Bo. Torrecillas in the municipality of Morovis. The proposed project is the construction of a new fence for breeding livestock with repairs for various areas of the parcel. Based on the submitted documentation, the Program requests a concurrence that a determination of No Historic Properties Affected is appropriate for this proposed project.

Please contact me by email at [lauren.poche@horne.com](mailto:lauren.poche@horne.com) or phone at 225-405-7676 with any questions or concerns.

Kindest regards,



**Lauren Bair Poche, M.A.**

Architectural Historian, Historic Preservation Senior Manager

Attachments

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Subrecipient:</b> Hacienda JKJ, Inc.		
<b>Case ID:</b> PR-RGRW-00588		<b>City:</b> Morovis

<b>Project Location:</b> Carr. PR-145 Km 4.6 Bo. Torrecillas, Morovis, Puerto Rico	
<b>Project Coordinates:</b> 18.321376, -66.446427	
<b>TPID (Número de Catastro):</b> 137-000-010-15-000	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> c1985	<b>Property Size (acres):</b> 31.71

<b>SOI-Qualified Architect/Architectural Historian:</b> n/a
<b>Date Reviewed:</b> n/a
<b>SOI-Qualified Archaeologist:</b> Jesus E. Vega, Ph.D.; Roberto G. Munoz Pando, MA
<b>Date Reviewed:</b> January 16, 2023; REVISED March 15, 2023; REVISED March 16, 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 proposed activity at Hacienda JKJ, Inc. is the construction of a new fence for breeding livestock with repairs for various areas of the parcel, in compliance with Section 106 NHPA Effect Determination. The proponent also intends to purchase sprayers, utility vehicle, corral system and fencing materials. The correct coordinates of the farm are 18.321376, -66.446427. No new water or electric power connection is required, as the farm is already connected to the PREPA and PRASA grid. Hacienda JKJ, Inc. is located at Carr. PR-145 Km 4.6 in Bo. Torrecillas, Municipality of Morovis. The coordinates are 18.321376, -66.446427. This activity will require ground disturbance. The applicant indicates that he holds a permit from the Department of Natural and Environmental Resources of Puerto Rico.

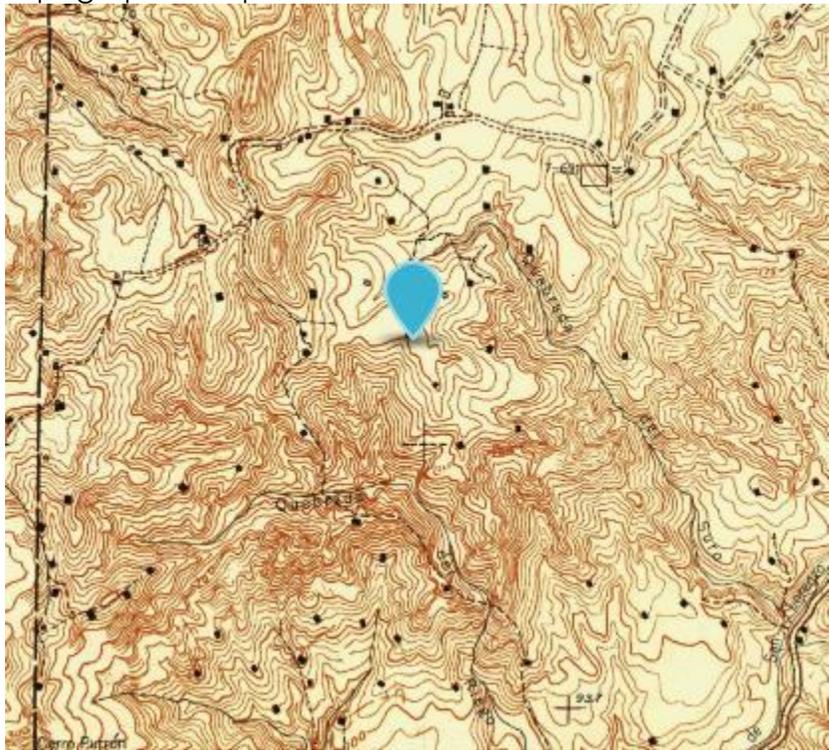
### Area of Potential Effects

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 rural project includes four areas or Scopes of Work, as follows. The Scope of Work #1 is a new fence in the southeast perimeter of approximately 800 linear feet of corral

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGrow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Hacienda JKJ, Inc.	
<b>Case ID:</b> PR-RGRW-00588	<b>City:</b> Morovis

fencing, at coordinates 18.31974° N, -66.44477° W. The Scope of Work #2 is a corral system on a terrace at coordinates 18.32028° N, -66.44579° W. The Scope of Work #3 is the construction of a new fence approximately 200 lineal feet long at coordinates: 18.3216892° N, -66.4488094° W. The Scope of Work #4 is a new fence with an approximate footprint of 60 feet by 30 feet, at Coordinates: 18.32116° N, -66.44871° W. Although a new corral has been proposed for this agricultural endeavor at Hacienda JKJ, the entire terrain has been previously used for growing plantains, generally extending to a depth of 45 cm. This depth is sufficient to detect any archaeological sites in hill terrain. Additionally, the APE is currently used for breeding livestock, with a head count of 70. Based on current information, the archaeological potential of this terrain is not considered significant. The direct APE includes a 15-meter buffer to all sides. The visual APE is the viewshed of the proposed project. A topographic map dated 1947 and aerial imagery dated 1977 and 2003 [see below] of the APE does not reveal any significant previous disturbance.

Topographic map dated 1947



**Subrecipient:** Hacienda JKJ, Inc.

**Case ID:** PR-RGRW-00588

**City:** Morovis

Aerial view dated 1977 (no structure present)



Aerial view dated 2003 (no structure present)



<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGRW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Subrecipient:</b> Hacienda JKJ, Inc.		
<b>Case ID:</b> PR-RGRW-00588		<b>City:</b> Morovis

### 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 there are no archaeological sites and/or NRHP listed/eligible historic properties within a half-mile radius of the property, as shown in Table 1 below. The proposed project is located in hill terrain, previously used for growing plantains, and currently used for breeding livestock. The terrain is classified as Ingenio clay loam (InD), 5 to 20 percent slopes, surrounded by farmland and secondary forest vegetation cover, 250 meters above mean sea level. The north coast is 10.49 miles northwest of the property. The closest fresh-water bodies include Quebrada del Suro 0.18 miles northeast of the property, Quebrada del Riego 0.21 miles southwest of the property, Quebrada Grande 0.68 miles southeast of the property, and Río Grande de Manatí 0.81 miles northwest of the property. There are no archaeological studies within a half-mile radius, as reported in Table 2. The plantain cultivation previously conducted at the APE implies an underground impact down to 45 cm, sufficient to detect any archaeological sites in hill terrain. The APE is not considered archaeologically significant for prehistoric or early historic occupation sites.

Table 1. Archaeological Sites and/or NRHP Listed/Eligible Historic Properties Within a Half-Mile Radius of Project Area

Name	SHPO ID	IPRC ID	Location	Description	NRHP
No data	No data	No data	No data	No data	No data

Table 2. Cultural Resource Studies Conducted Within a Half-Mile Radius of Project Area

Author	Title	Year	SHPO/IPRC ID	Results	Location
No data	No data	N. d.	No data	No data	No data

### 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 any National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center / Historic District.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGrow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Hacienda JKJ, Inc.	
<b>Case ID:</b> PR-RGRW-00588	<b>City:</b> Morovis

The proposed project is located in a rural, sloped terrain with mature vegetation to the northeast and grassy plains within the property. A building c1985 is located to the southeast of the APE. The building appears on a 1994 aerial image, but not a 1977 one. The building is outside of the direct Area of Potential Effect (APE) and a metal roof metal structure for storage and is just east of it. The c1985 building is a two-story concrete residence with a cross gabled corrugated metal roof. These building shown below are modern, they **do not** meet the requirements to be eligible for listing on the National Register of Historic Places.



Buildings on the property, view northeast.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>ReGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Hacienda JKJ, Inc.	
<b>Case ID:</b> PR-RGRW-00588	<b>City:</b> Morovis

## Determination

The following historic properties have been identified within the APE:

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

Based on the results of our historic property identification efforts, there are no reported historic sites or significant cultural properties within a half-mile radius of the proposed project area. There are no known archaeological sites or NRHP listed/eligible historic properties within or adjacent to where the direct Area of Potential Effect (APE) of case PR-RGRW-00588 is located. The APE has been previously impacted to an estimated depth of 45 cm, without any evidence of archaeological materials. The proposed project area is not within the boundaries or visual APE of any NRHP listed/eligible historic properties, or to a Traditional Urban Center or Historic District. Therefore, the Program has determined that the project actions described in the undertaking will not impact any cultural properties. Additionally, the buildings on the property are modern and they **do not** meet eligibility requirements for listing on the National Register of Historic Places.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGrow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Hacienda JKJ, Inc.	
<b>Case ID:</b> PR-RGRW-00588	<b>City:</b> Morovis

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

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

- No Historic Properties Affected
- No Adverse Effect  
     Condition (if applicable):
- Adverse Effect  
     Proposed Resolution (if applicable)

**This Section is to be Completed by SHPO Staff Only**

The Puerto Rico State Historic Preservation Office has reviewed the above information and: <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Concurs</b> with the information provided.</li> <li><input type="checkbox"/> <b>Does not concur</b> with the information provided.</li> </ul>	
<b>Comments:</b>   	
Carlos Rubio-Cancela State Historic Preservation Officer	<b>Date:</b>

Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

### Project (Parcel) Location – Area of Potential Effect Map (Aerial)



File Path: Z:\Mapa USFPR17\GVAPE\_Archivos\Mapa\_Secundario\_171019.mxd



**TETRA TECH**

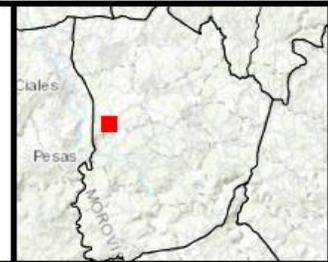
Source: CRIM

Author: TG

Date: 10/7/2022

#### Legend

-  Tier 2 Site
-  Parcelario
-  Area of Potential Effect

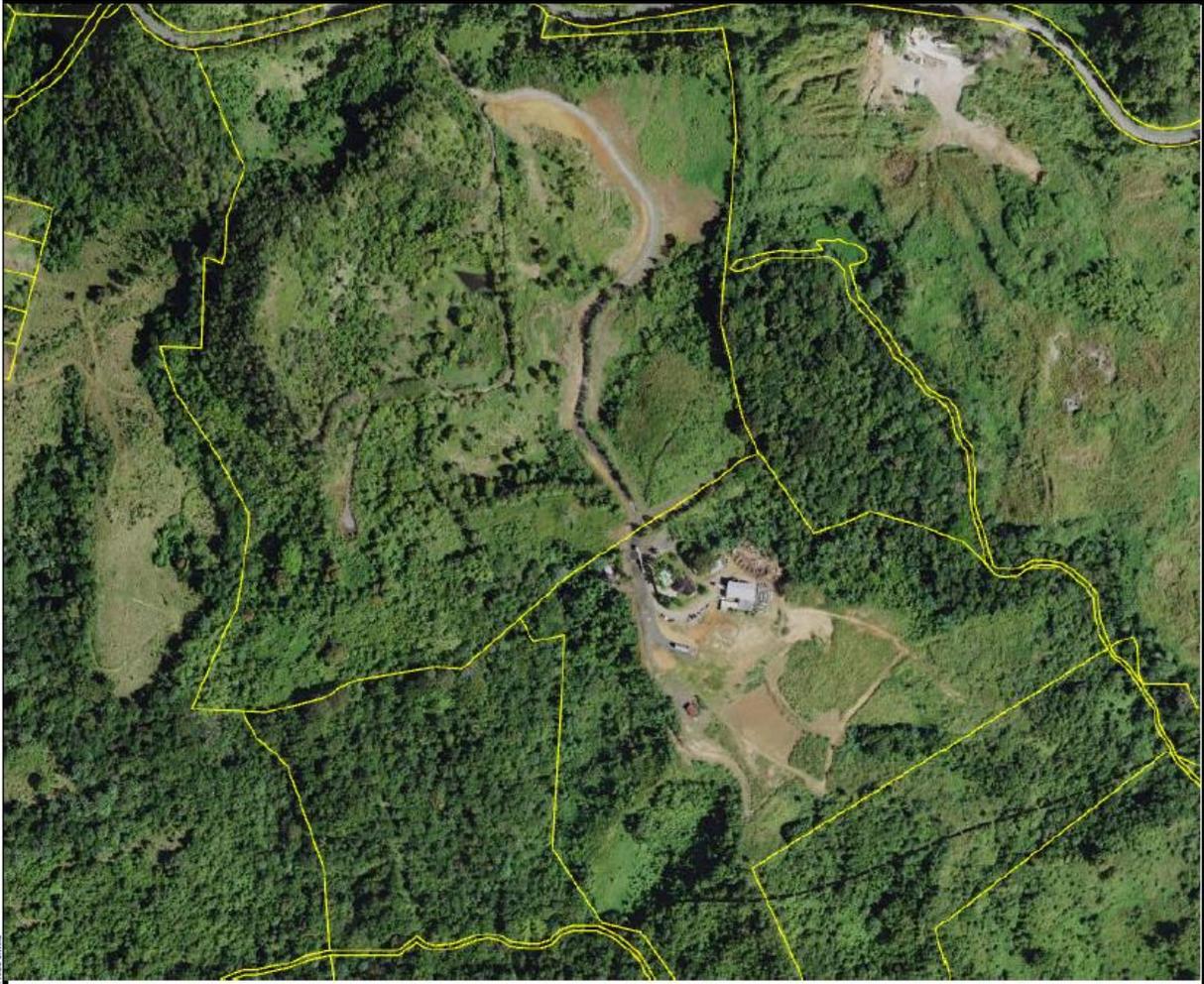


Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

### Project (Parcel) Location - Aerial Map



 <p><b>TETRA TECH</b></p> <p>Source: CRIM</p> <p>Author: TG      Date: 9/22/2022</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"><li> Tier 2 Site</li><li> Historic Comunidades</li><li> Traditional Urban Centers</li><li> Cultural Resource District Polygon</li><li> Parcelario</li></ul>	
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Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

### Project (Parcel) Location - USGS Topographic Map



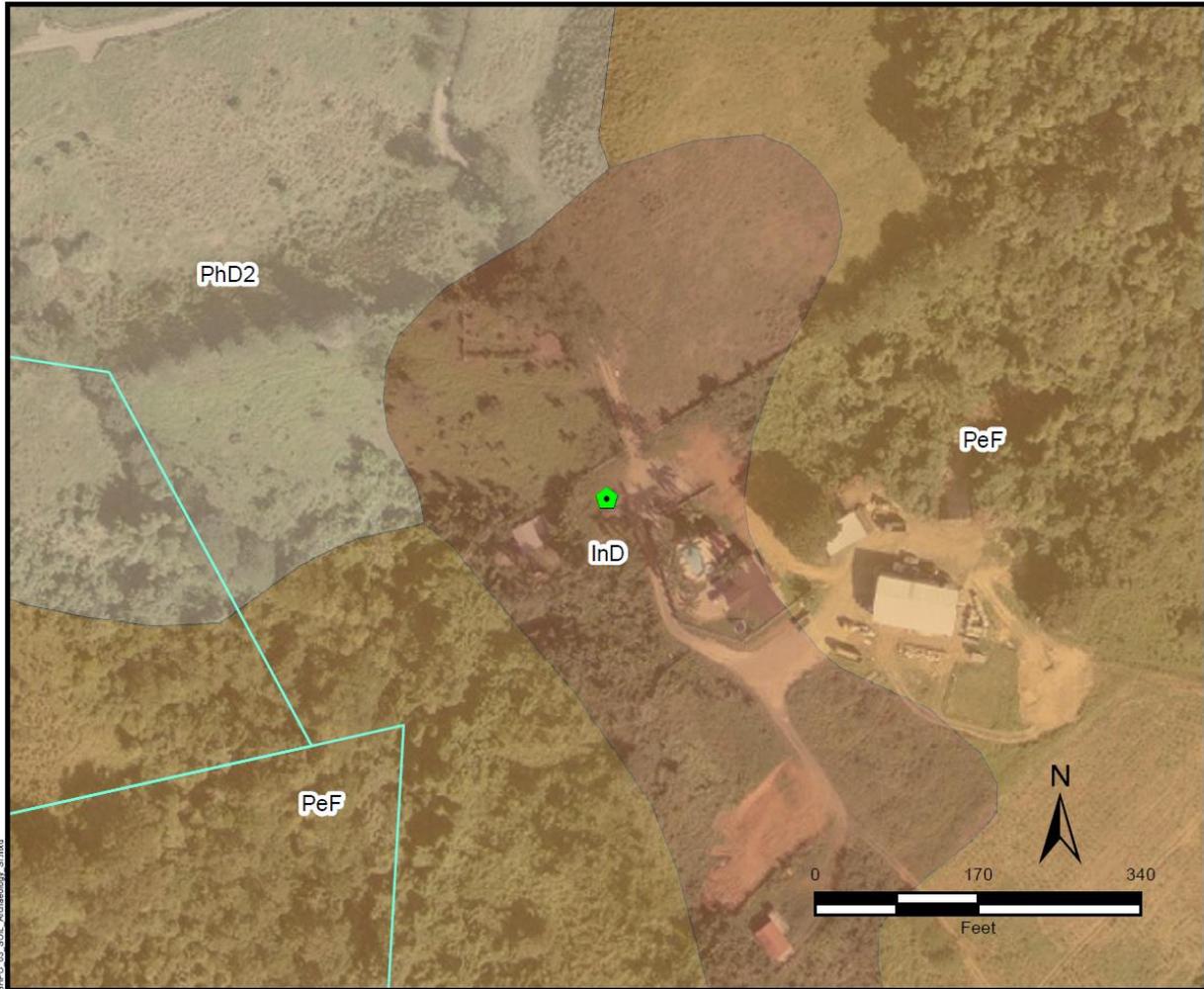
 <p><b>TETRA TECH</b></p> <p>Source: USGS</p> <p>Author: TG      Date: 9/29/2022</p>	<p><b>Legend</b></p> <ul style="list-style-type: none"><li> Tier 2 Site</li><li> Historic Comunidades</li><li> Traditional Urban Centers</li><li> Cultural Resource District Polygon</li></ul>	
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Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

### Project (Parcel) Location – Soils Map



File path: \\snp11102\paw\csh\shant\DW\data\USP\m\1725\BUIPO\_03\_S01\_Arcasology\_S1.mxd



**TETRA TECH**

Source: USDA

Author: TG

Date: 9/30/2022

**Legend**

-  Tier 2 Site
-  Parcelario
- Soil Type**
-  InD; Ingenio clay loam, 5 to 20 percent slopes
-  PeF; Pellejas clay loam, 40 to 60 percent slopes
-  PhD2; Perchas clay, 12 to 20 percent slopes, eroded



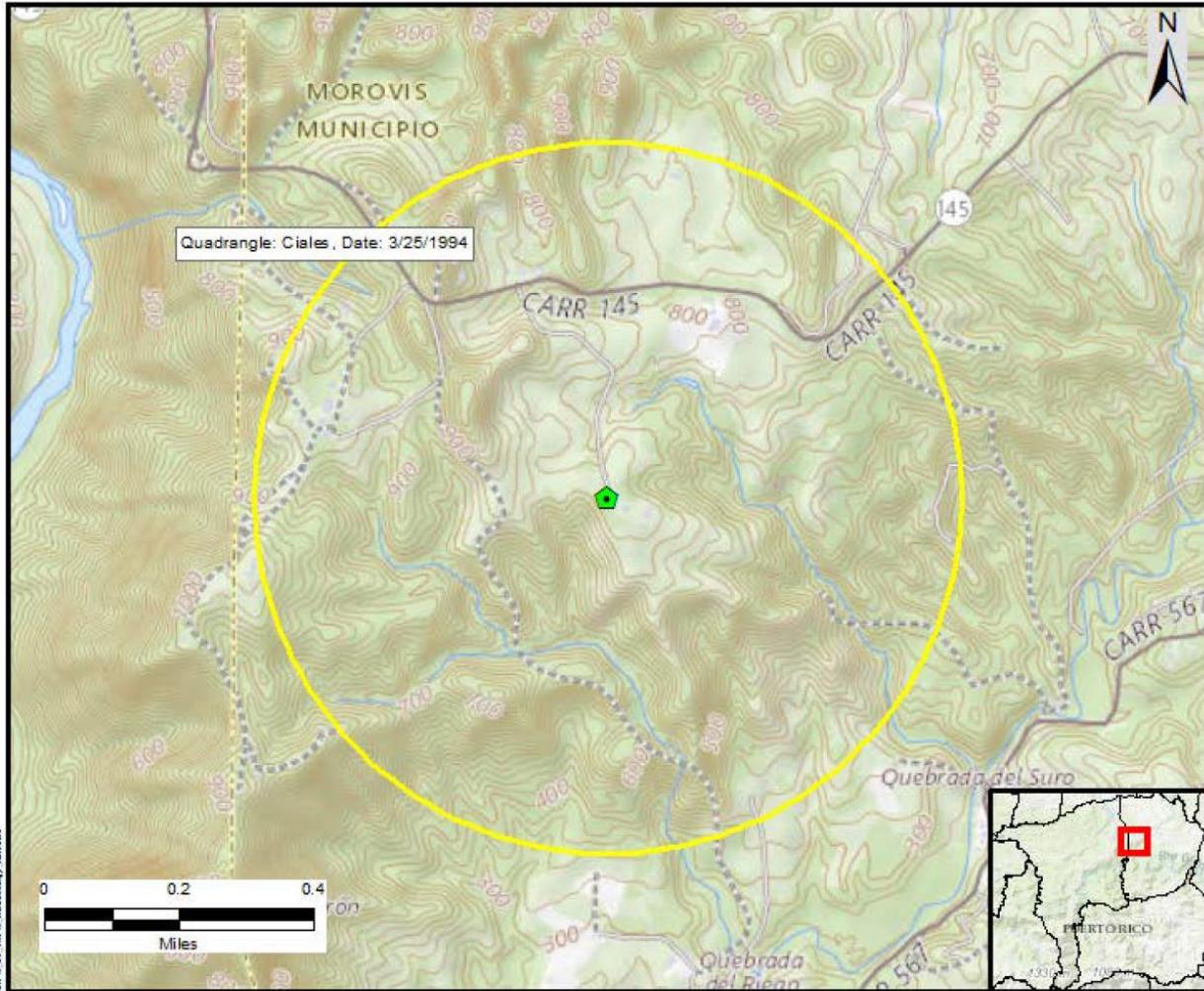


Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

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



Source: National Park Service

Author: TG

Date: 9/29/2022

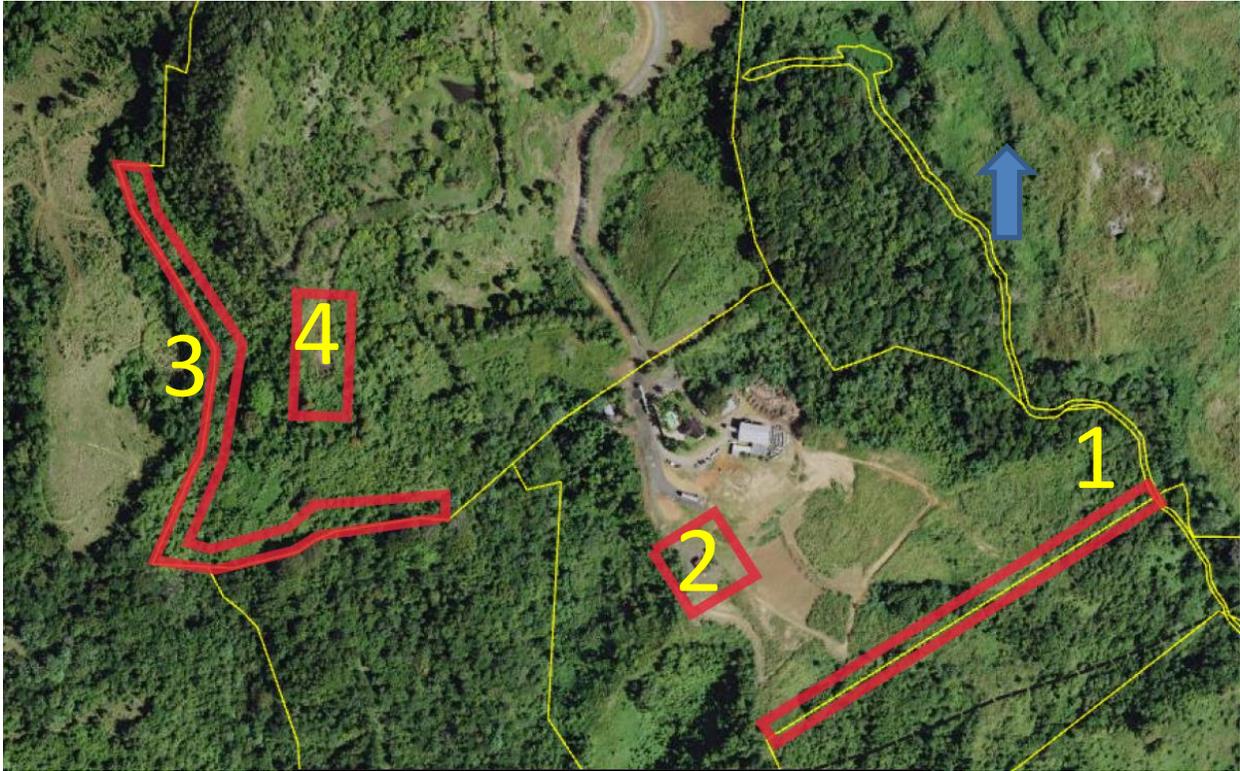
- Legend
-  Tier 2 Site
  -  Half Mile Buffer
  -  Historic Comunidades
  -  Traditional Urban Centers
  -  Cultural Resource District Polygon

Subrecipient: Hacienda JKJ, Inc.

Case ID: PR-RGRW-00588

City: Morovis

### Photograph Key



**Subrecipient:** Hacienda JKJ, Inc.

**Case ID:** PR-RGRW-00588

**City:** Morovis



**Photo # 1:**

**Description (include direction):** Southeast

**Date:** 11/14/2022

Scope of work area 1



**Photo # 2:**

**Description (include direction):** West

**Date:** 11/14/2022

Scope of work area 2

**Subrecipient:** Hacienda JKJ, Inc.

**Case ID:** PR-RGRW-00588

**City:** Morovis



**Photo # 3:**

**Description (include direction):** Southwest

**Date:** 11/14/2022

Scope of work area 3



**Photo # 4:**

**Description (include direction):** Northwest

**Date:** 11/14/2022

Scope of work area 4



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.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT