

# **Environmental Assessment**

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

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-00976

**Project Name:** Alex O. Rivera Morales

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

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

**State/Local Identifier:** Puerto Rico/Yabucoa, 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:** Angel G. López-Guzmán (environmentcdbg@vivienda.pr.gov)

#### **Project Location:**

The property is a 30.44-acre site located at Carr. PR-182 Ramal 900 Km 1 Bo. Calabazas in the Municipality of Yabucoa, Puerto Rico (Parcel ID# 376-000-009-66-000). The coordinates of the project site are 18.04270, -65.88961.

This terrain was used for cultivating sugar cane over fifty years ago. It is currently used for growing plantains.

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

The proposed use of grant funds is for the purchase of a tractor and the construction of two greenhouses with metal frame. The tractor will be used for the cultivation of plantains in the land on the farm to the west of the proposed greenhouses.

The proposed project area is approximately 0.307 acres. Each 100 feet long by 35 feet wide greenhouse would be used for growing culantro in soil-growing benches. The area of disturbance is 200 feet long by 70 feet wide, including both greenhouses centered at 18.04270, -65.88961.

The site has existing water connection to the local utility. No new water or electric power connection is required.

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. This agricultural project associated with the construction of two new greenhouses and the purchase of a tractor 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 installation of the two greenhouses is used for agricultural purposes. Therefore, there is no change in land use associated with the project. Some ground disturbance will be required.

**Structure of this Environmental Review Report (ERR).**

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

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

**Funding Information**

<b>Grant Number</b>	<b>HUD Program</b>	<b>Funding Amount</b>
B-18-DP-72-0001 B-17-DM-72-0001	CDBG-DR, Re-Grow Puerto Rico Urban-Rural Agricultural Program	\$172,500,000

**Estimated Total HUD Funded Amount:** \$50,000

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$50,000

## **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 two new greenhouses and the purchase of a tractor. The nearest civil airport is approximately 109,714 feet from the proposed site. The nearest military airport is approximately 151,675 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>
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in eastern Puerto Rico. The distance to the nearest CBRS unit is 16,512 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>
<b>Flood Insurance</b>  Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C1795J, effective date November 18, 2009. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in <b>Appendix B.</b> )

<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 Yabucoa is not listed in the EPA Green Book “Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants” The construction of two new greenhouses and the purchase of a tractor 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 7,266 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>24 CFR Part 58.5(i)(2)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>A site visit conducted on November 16, 2022, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were noted at the project site.</p> <p>The Yabucoa Filtration Plant, 2,842 feet southeast of the project site, is a RCRA and a CWA listed site. As a RCRA site it is considered inactive with no violations over the last 3 years. As a CWA site it is permitted with only Limit Violations over the past three years with each violation listed as Resolved Pending.” With these conditions and the distance, there would not be any impacts to the project site.</p> <p>The project consists of the construction of two new greenhouses and the purchase of a tractor. 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 4,410 feet to the southwest of the project location. Per the Official Species List from the</p>

		<p>U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa and the Guajon 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 two new greenhouses would be located in an area that has been used for agricultural purposes and the tractor 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 USFWS will be notified to relocate the Boa. 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.</p>
<p><b>Explosive and Flammable Hazards</b></p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project does not include development, construction, or rehabilitation that will increase residential density.</p> <p>The project is in compliance with Explosive and Flammable Hazard requirements.</p> <p>Refer to site visit report in <b>Appendix A</b>.</p>
<p><b>Farmlands Protection</b></p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The project site is designated as farmland of statewide importance. The project consists of the construction of two new greenhouses and the purchase of a tractor. 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>.</p>
<p><b>Floodplain Management</b></p> <p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C1795J, effective date November 18, 2009. The project site is not located in an Advisory Base Flood Elevation (ABFE) special flood hazard area. See Figures 4, 5, and 6 in <b>Appendix B</b>. This project is in compliance with Executive Order 11988.</p>
<p><b>Historic Preservation</b></p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Cementerio Municipal de Yabucoa, a historic municipal cemetery is located 0.30 miles southeast of the property. The project site is not</p>

<p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>		<p>in the Yabcoa Centros Urbanos. (See Figure 13 in <b>Appendix B</b>).</p> <p>The site was evaluated on January 15, 2023, by and SOI Qualified Archaeologist. Documentation with maps was subsequently submitted to SHPO on February 13, 2023 (<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 March 9, 2023. This project is in compliance with Historic Preservation requirements.</p>
<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 two new greenhouses and the purchase of a tractor 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 east coast is 15,259 feet southeast of the property. The closest fresh-water bodies include Quebrada Aguas Largas 950 feet northeast of the property, Caño de Santiago 3,538 feet northwest of the property, and Río Guayanés 5,386 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>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 87,122 feet. The</p>

Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)		project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in <b>Appendix B</b> .
-----------------------------------------------------------------------	--	---------------------------------------------------------------------------------------------------------

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

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

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans /	2	The proposed project is located on a private farm. The project consists of the construction of two new greenhouses and the

Compatible Land Use and Zoning / Scale and Urban Design		purchase of a tractor. 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	<p>The proposed project is located in relatively flat terrain, previously used for cultivating sugar cane over fifty years ago, and now used for growing plantains. Soils in the proposed project area are classified as Mayo loam (MIC), 3 to 10 percent slopes, surrounded by farmland with secondary forest vegetation cover further south, 25 meters above mean sea level.</p> <p>Projects larger than 1 acre must comply with the CWA and develop a SWPPP with the NPDES. The proposed project area is approximately 0.307 acres.</p> <p>The project site is already graded and used for cultivation of plantains.</p> <p>The project site area is rated “low” for landslide susceptibility (see Figure 16 in <b>Appendix B</b>). The proposed location of the greenhouses has been evenly graded and is currently under cultivation. There will be little to no additional runoff associated with the project.</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>During implementation of the project, construction activities may result in temporary elevation of ambient noise levels in immediate areas around active construction areas. The only nearby receptors are the residents of the farm.</p> <p>There is no access to the project area by the public. Standard BMPs, such as construction fencing, would be applied to protect the farm residents and public from typical construction hazards.</p>
Energy Consumption	2	The project would not be connected to the local electricity provider. There would be no change in energy demand in the area.
Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	Temporary employment of workers related to construction activities would result, but no new permanent jobs would be

		<p>created as a result of this project. These workers are expected to come from the local region.</p> <p>The proposed project would not negatively impact employment or income patterns.</p>
Demographic Character Changes, Displacement	2	The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
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 clearing activities will either be composted on site or at regional composting centers. Soil from grading would be recycled on the farm as fill. Left over construction materials that could be reused on the farm (e.g., piping, structural materials, greenhouse covering fabrics) would be stored for later use. The remaining construction solid waste materials would be collected for transport to the local landfill. The amount of impact of solid waste resulting from the construction of the proposed project would be minor. During operations, the products and by-products would be agricultural, which waste would be biodegradable.
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 with auxiliary water storage tanks for collection of rainwater. The proposed project will have minor impact on water usage.
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.

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 previously 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 previously used for agricultural purposes and will continue in that capacity. The proposed project will have no impact on vegetation and wildlife.
Climate Change	2	There will be no impact to the climate as a result of this project as land use does not change. The project site was already used for cultivation of plantains.

**Additional Studies Performed:** None required.

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

Site inspection was conducted on November 16, 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/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)

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

[www.fws.gov/CBRA/Maps/Locator/PR.pdf](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 growth of agricultural products at the farm would not increase. The project would allow more efficient processing of the agricultural products. Water use would increase to a minor degree in the new greenhouses but would only impact the existing site water supply. There are no other wells nearby to be affected.

**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 two new greenhouses and the purchase of a tractor. Any alternative that would involve an off-property location would not enhance and expand agricultural production or allow for the economic development for this applicant. The actions are proposed in an area in front of the existing residence and existing water connections. The proposed site has been previously cleared and cultivated. Alternative locations on the property would be farther from the residence and water connections.

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

Under the No Action Alternative, the applicant would not receive federal funding for the construction of a two new greenhouses and the purchase of a tractor 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 any agency. There are no environmental review topics addressed that result in the need for formal compliance steps or the requirement for mitigation.

**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

**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: 03/27/23

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

Certifying Officer Signature:  Date: May 22, 2023

Name/Title: Santa D. Ramirez Lebrón / Permits and Environmental Compliance Specialist

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

# Appendix A

## Environmental Field Observation - Puerto Rico Department of Housing

APPLICANT INFORMATION			
<b>Application ID</b>	PR-RGRW-00976		
<b>Applicant Name</b>	Alex O. Rivera Morales Agricultor		
<b>Property Address</b>	Carr PR-182 Ramal 900 Km 1 Bo. Calabazas		
<b>Parcel ID</b>	376-000-009-66-000		
<b>Coordinates</b>	18.042771, -65.889579 - Corrected to 18.04270, -65.88961		
<b>Inspector Name</b>	Carlos O. Medina		
<b>Inspection Date</b>	11/16/2022		
<b>Building Type</b>	Pipe Metal Frame		
<b>Number of Units</b>	1		
<b>Number of Stories</b>	1		
<b>Year Built; Data Source</b>	NA		
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 type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>B. Is structure a greenhouse?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>C. Is Electricity connected?</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>D. Is water connected?</b> (Utilities or Well)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Applicant stated no new water connection is needed, Water come from public services and from a stream in the mountains.
<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</b> in use for storage of <b>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-00976

Alex O. Rivera Morales Agricultor  
Correct coordinates: 18.04270° N, -65.88961° W

Scope of Work: The purchase of a tractor and construction of 2 greenhouse.

Land current in use for: The area for the Scope of work is not in used. West of the Scope of Work Area at approximately 50' is a plantation of plantains own by the applicant.

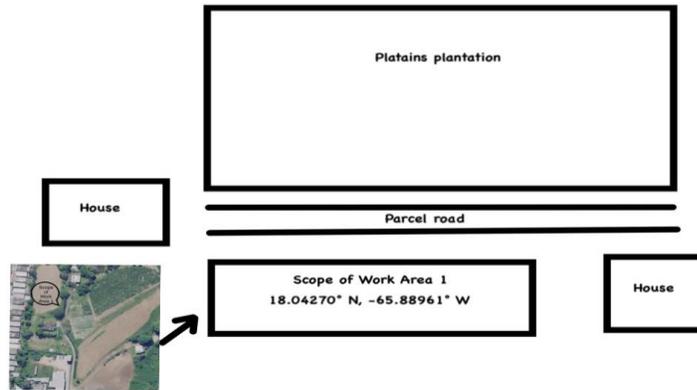
Past land use was: Applicant stated that more than 60 years ago this land was used for sugar cane.

What the applicant plans to do: Applicant stated he will construct two greenhouse (metal frame) for growing of Culantro in soil growing bench. Two greenhouse, footprint approximately will be 100' x 35' each.

Where the applicant plans to do the ground disturbance for the new structures:  
The Scope Area 1, coordinates are: 18.04270° N, -65.88961° W

Any new water connection, well, cisterns or power connection: No new water connection needed.

## Site Sketch



**Front of Structure**

Photo Direction: Southeast



**Facing Away From Front**

Photo Direction: Northwest



**Side #1 of Structure**

Photo Direction: South



**Facing Away From Side #1**

Photo Direction: North



**Back of Structure**

Photo Direction: Southeast



**Facing Away From Back**

Photo Direction: Northwest



**Side #2 of Structure**

Photo Direction: East



**Facing Away From Side #2**

Photo Direction: West



**Streetscape #1**

Photo Direction: North



**Streetscape #2**

Photo Direction: South



Address

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



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: Northwest



Structural Details

Photo Description: Architectural details

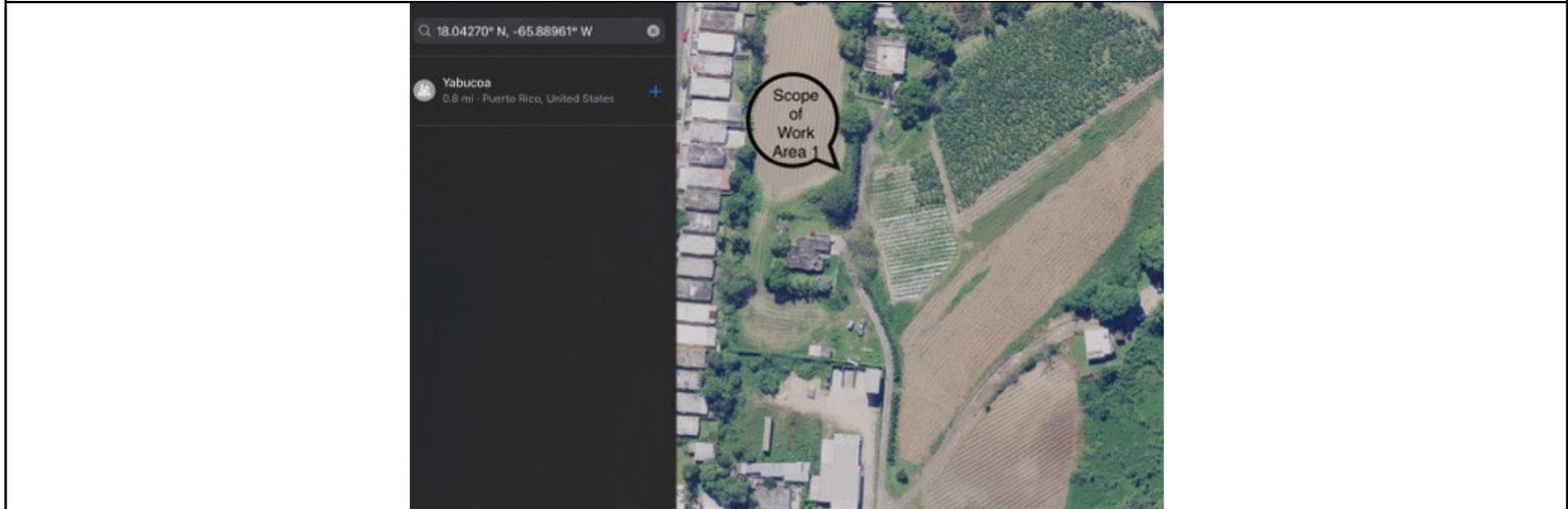
Photo Direction: Northwest



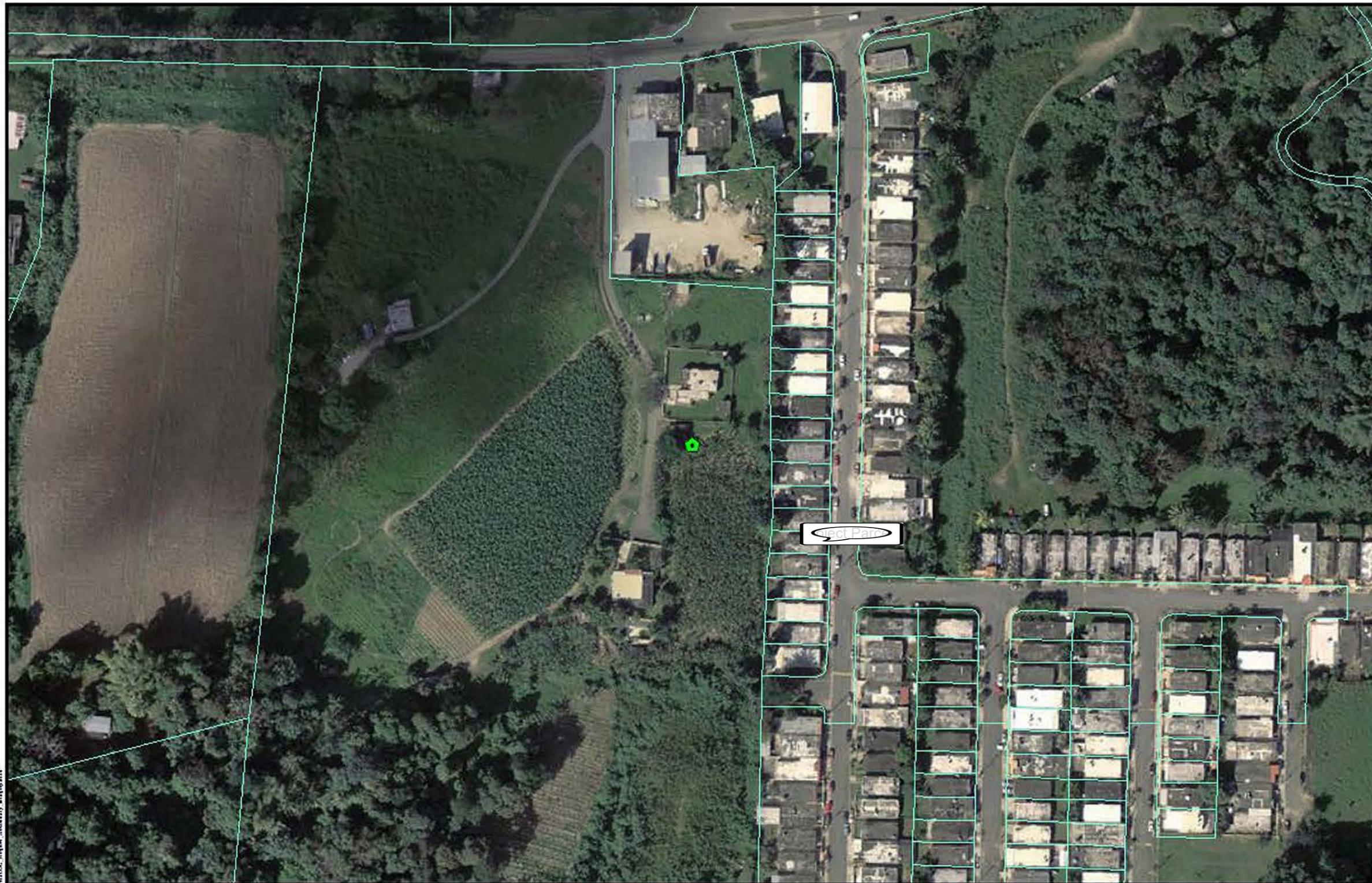
Structural Details

Photo Description: Architectural details

Photo Direction: South



# Appendix B



Legend

- Subject Parcel
- Parcels

### PUERTO RICO



IN THE INTEREST OF THE PEOPLE OF PUERTO RICO, THE SECRETARY OF AGRICULTURE



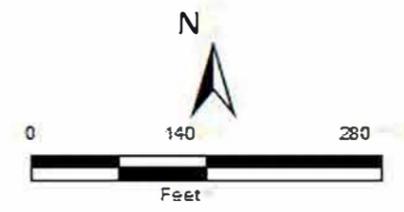
Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>

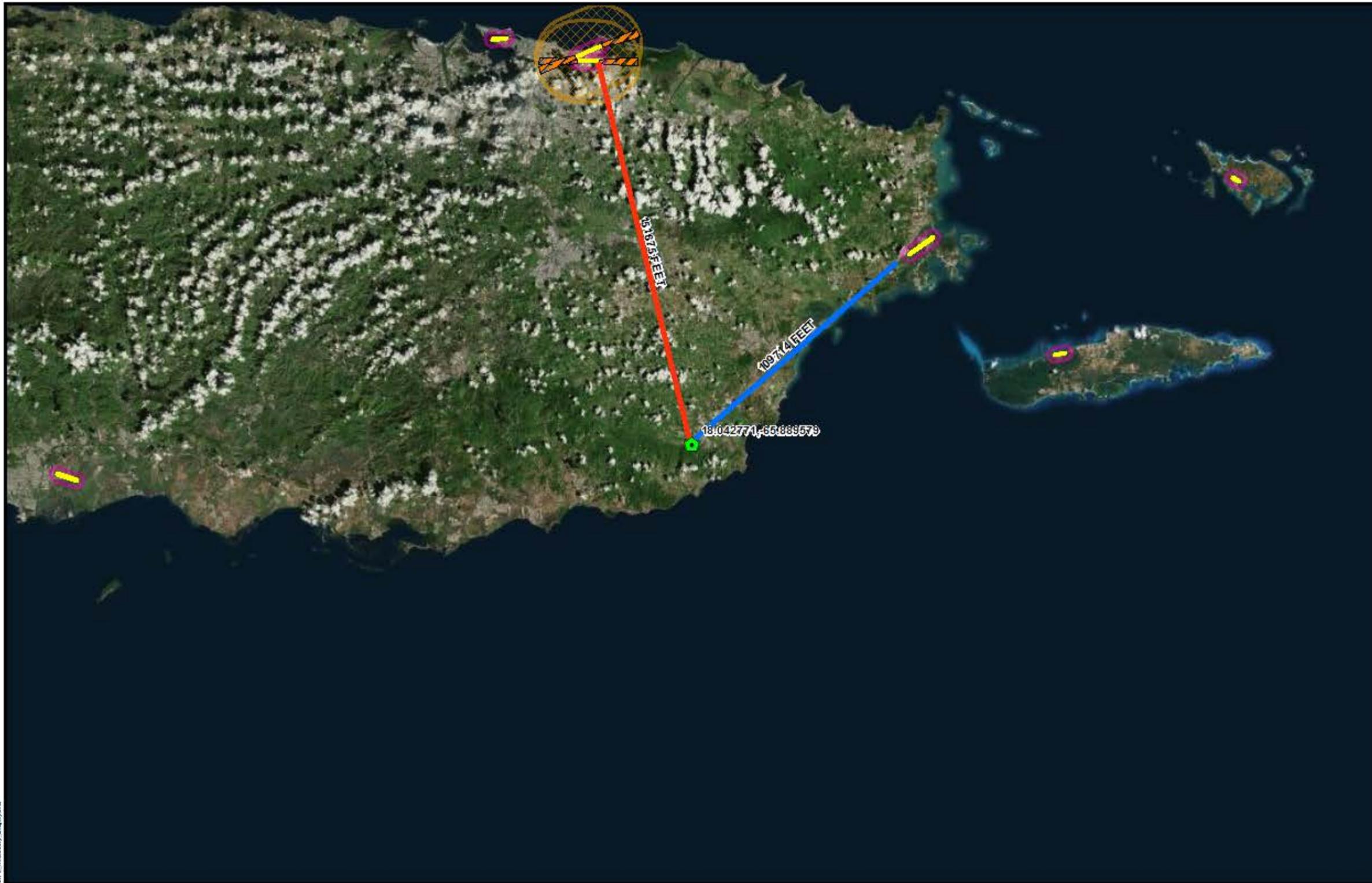
Author: TS Date: 2/20/2023

**PROJECT LOCATION**

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Agri  
Coordinates: 18.042771, -65.880577





**Legend**

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

**Distance to Nearest Airport  
in Feet: 109714**

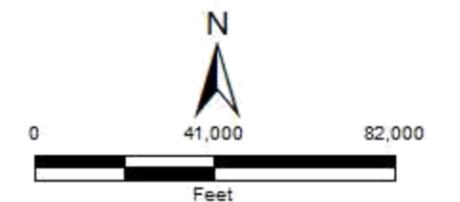
**PUERTO RICO**



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

Author: TG Date: 10/4/2022

**APPLICANT ID: PR-RGRW-00976**







FIRM: 72000C1795J, EFF\_DATE: 11/18/2009

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

**PUERTO RICO**



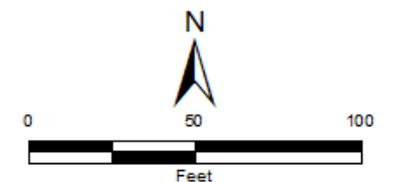
Source: FEMA  
<https://msc.fema.gov>

Author: TG | Date: 11/1/2022

4. FLOODPLAIN MANAGEMENT

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Arqu...



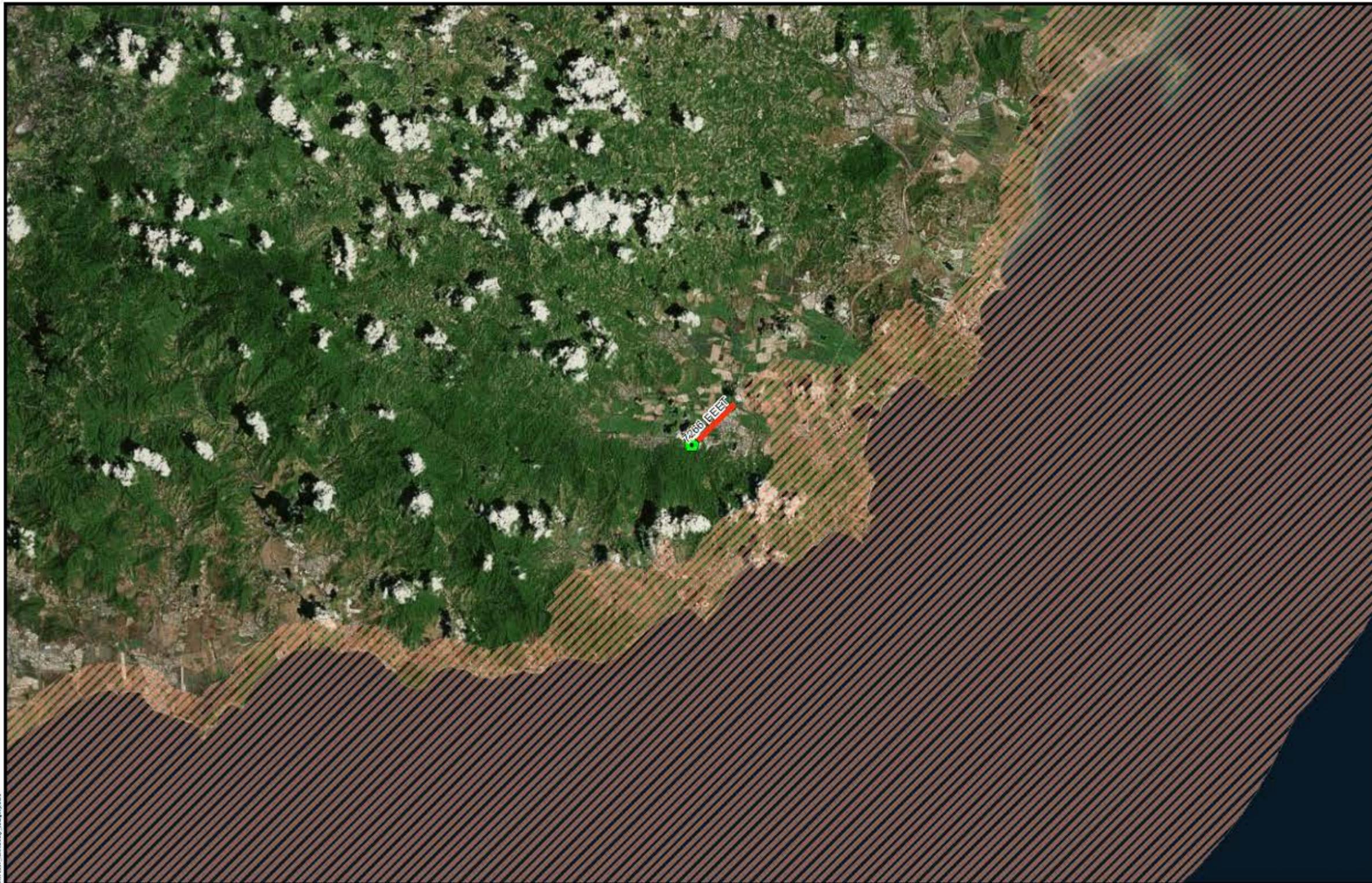


**TETRA TECH**

Date: 11/02/2022

Development: Alex O. Rivera Morales Agricultura





**Legend**

- Project Point
- Coastal Zone Management Boundary

Distance to nearest Coastal Zone Management Boundary in feet: 7,226

**PUERTO RICO**



100% REPRODUCTION RIGHTS RESERVED. ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT PERMISSION IN WRITING FROM TETRA TECH.



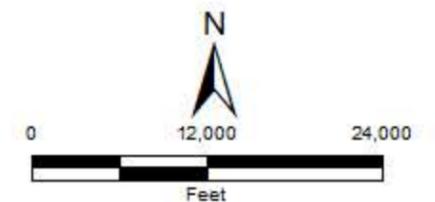
Source: NOAA's Ocean Service  
<https://data.noaa.gov>

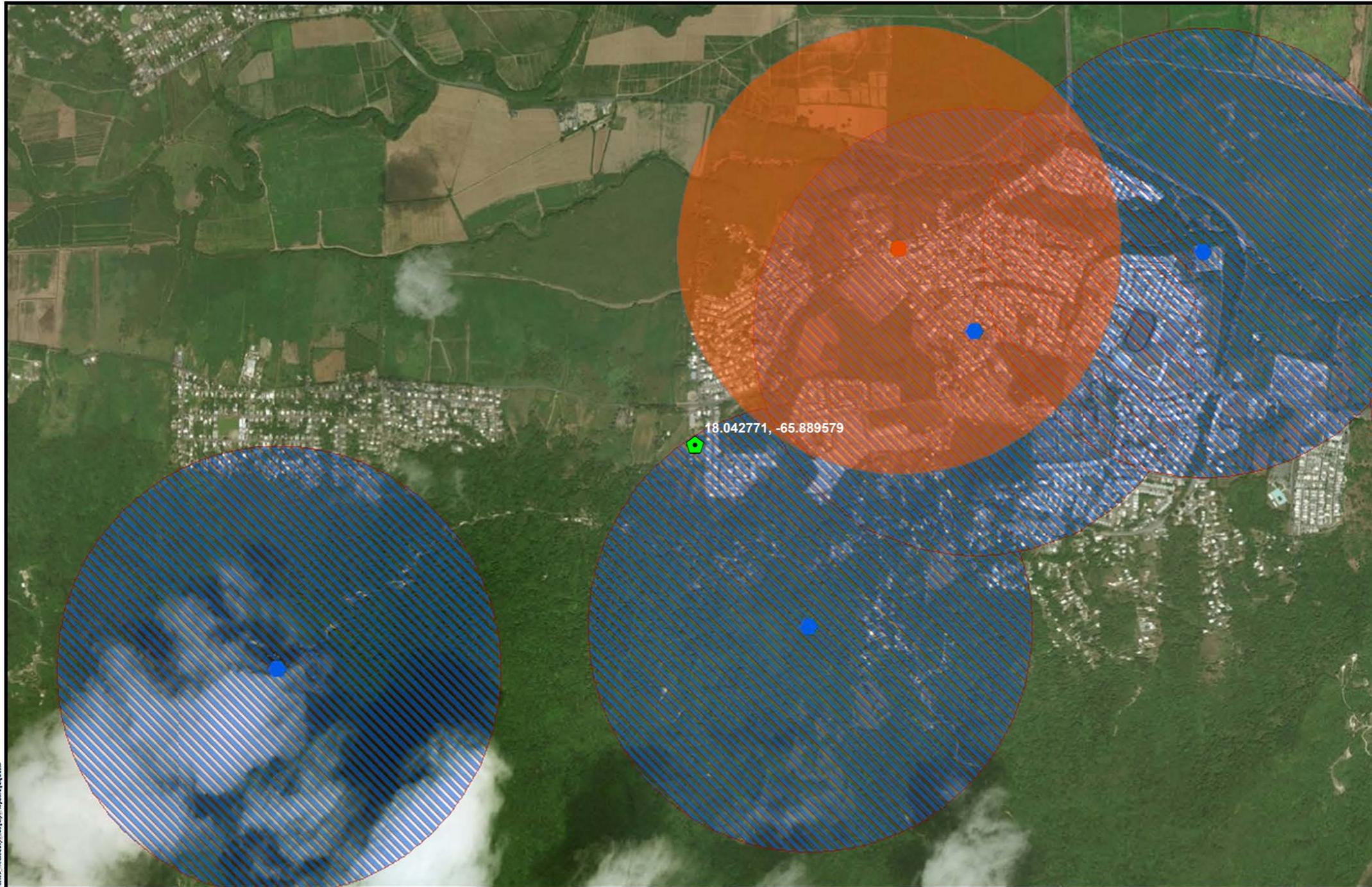
Author: TG Date: 10/4/2022

COASTAL ZONE MANAGEMENT

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Agr





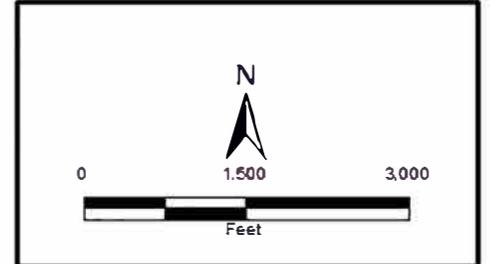
- Legend**
- RCRA
  - ⬠ Toxic Release Inventory Site
  - Superfund Site
  - Brownfield Sites
  - 3000 Ft Buffer TRI
  - 3000 Ft Buffer Superfund
  - 3000 Ft Buffer RCRA
  - 3000 Ft Buffer Brownfield

**PUERTO RICO**



Source: E.P.A.  
<https://www.epa.gov/fs/geospatial-data-download-service>  
 Date: 11/2/2022

AND RADIOACTIVE SUBSTANCES  
 DEVELOPMENT: Alex O. Rivera Morales Agricultor



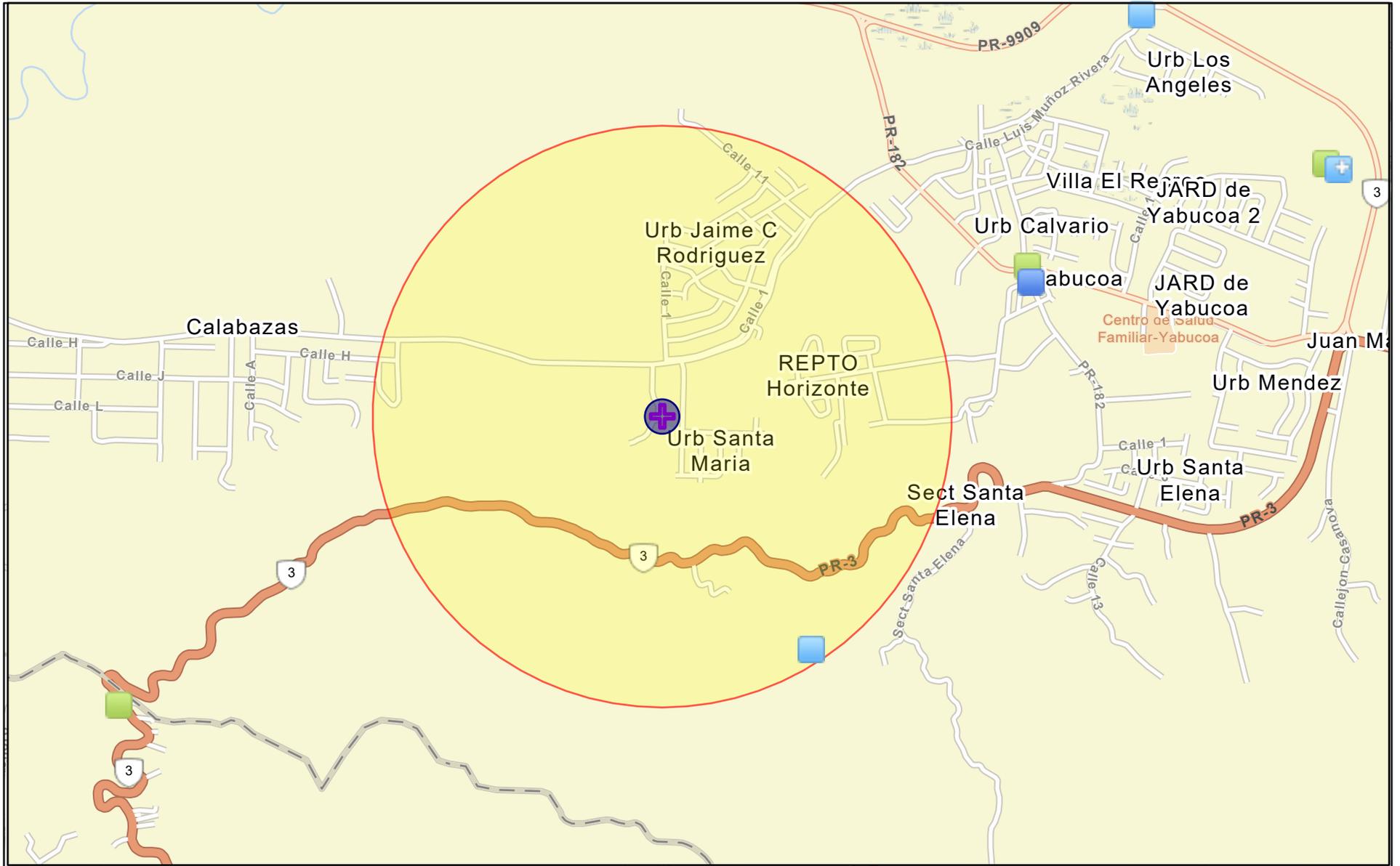
- + Water Dischargers (NPDES)
- + Water Dischargers (NPDES)
- + Air Pollution (ICIS-AIR)
- + Toxic Releases (TRI)
- + Hazardous Waste (RCRAInfo)
- + Hazardous Waste (RCRAInfo)
- Project Buffer
- + Search Result (point)

1:18,056

0 0.13 0.25 0.45 0.9 km

0 0.23 0.45 0.9 mi

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



**TETRA TECH**

Date: 11/02/2022

Development: Alex O. Rivera Morales Agricultura

N



Legend



### PUERTO RICO



THE PINK BACKGROUND INDICATES THE BOUNDARIES OF THE PROJECT AREA. SOURCE: GOOGLE EARTH



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

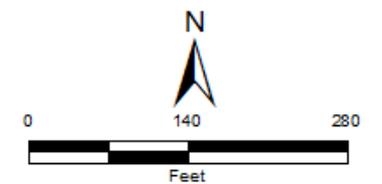
Author: TG

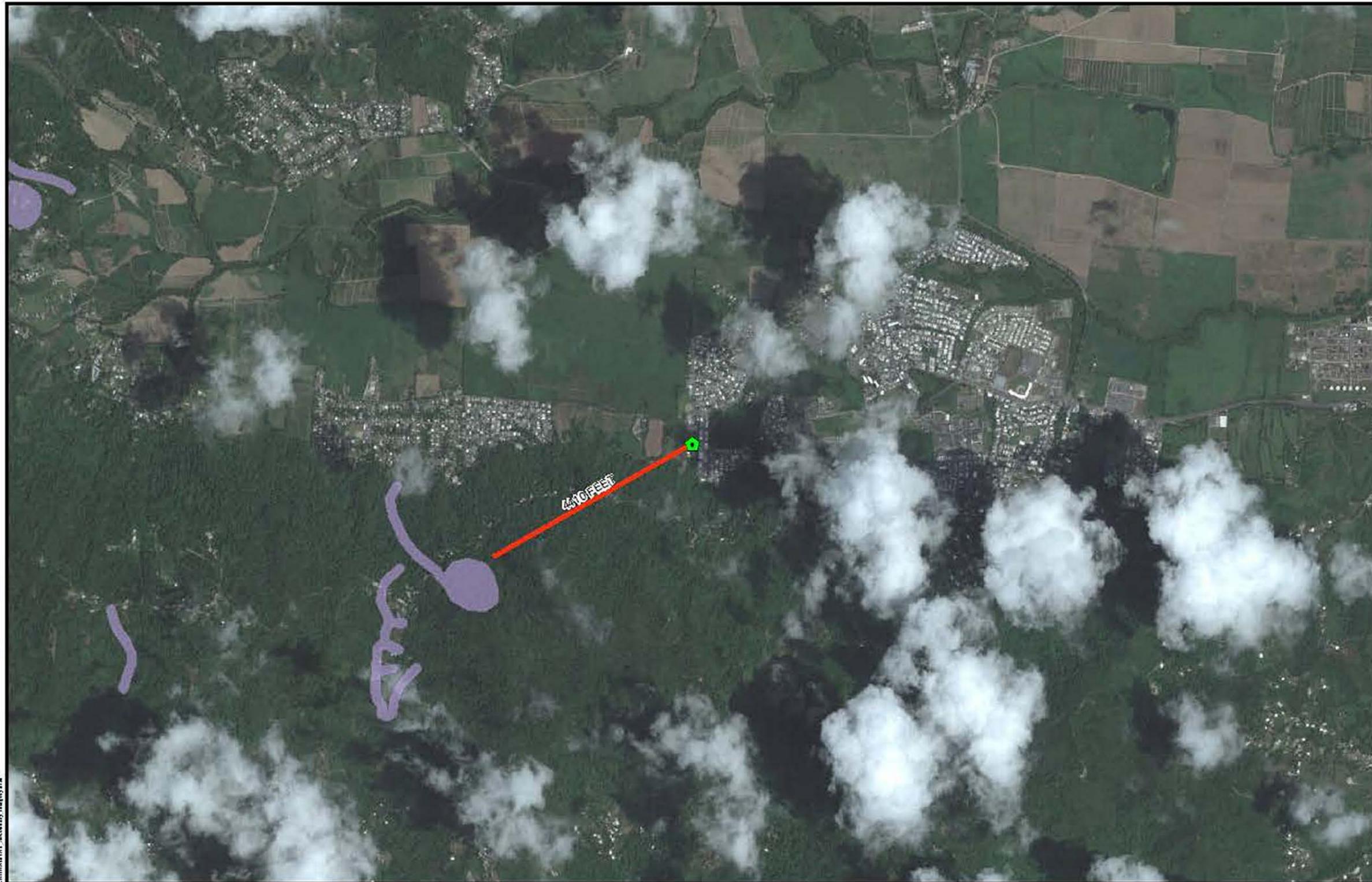
Date: 10/4/2022

TO: ENDANGERED SPECIES ACT

APPLICANT ID: PR-RGRW-00976

Development: Alex O. Rivera Morales Agr...





**Legend**



**Common Name**



Distance to nearest Critical Habitat in feet: 4,410

**PUERTO RICO**

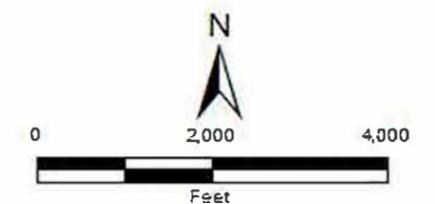


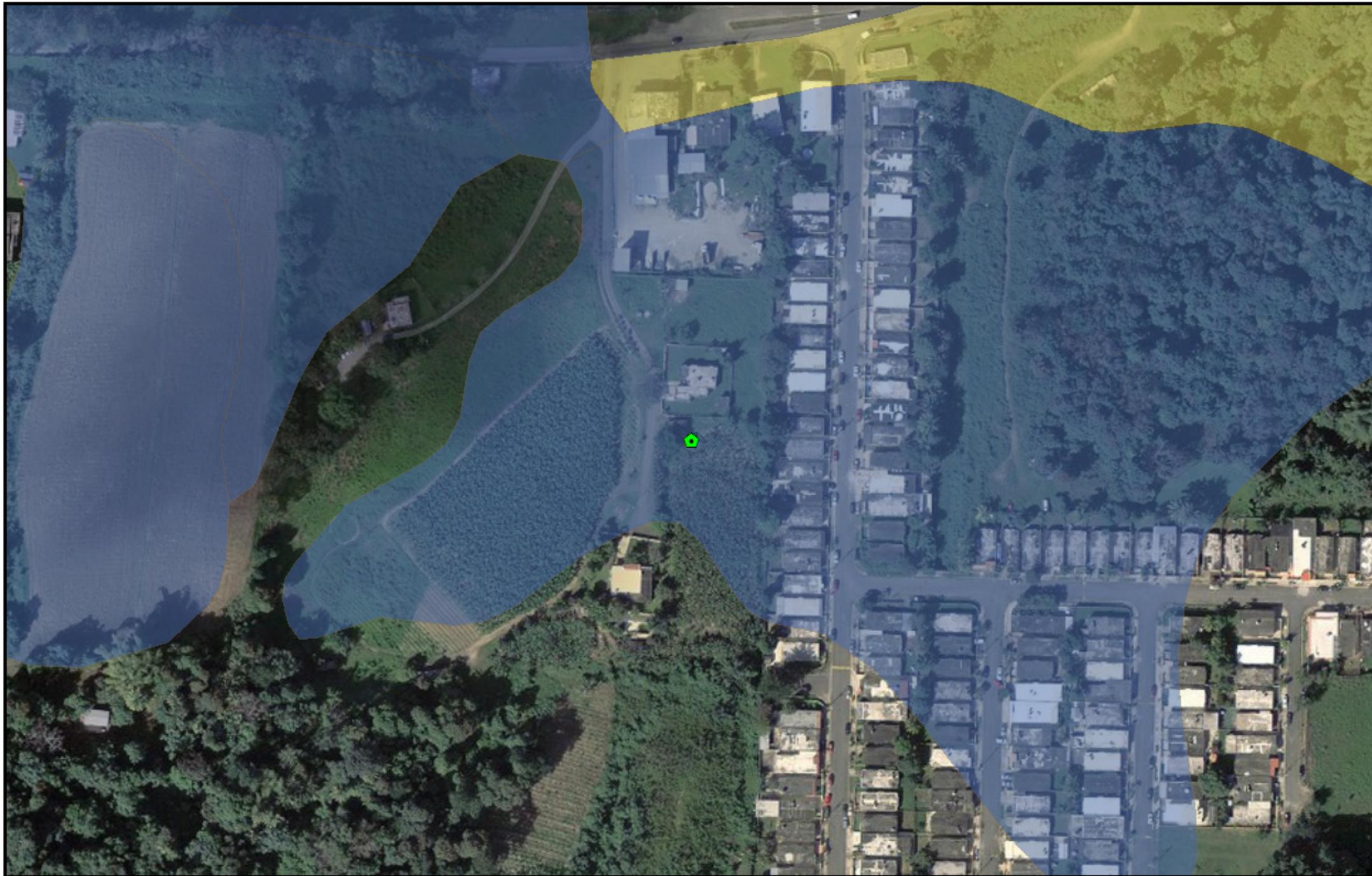
Source: U.S. FISH & WILDLIFE SERVICE  
<https://ecos.fws.gov>

Author: TC Date: 2/21/2023



**APPLICANT ID: PR-RGRW-00976**





**Legend**



**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**

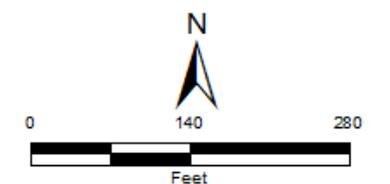


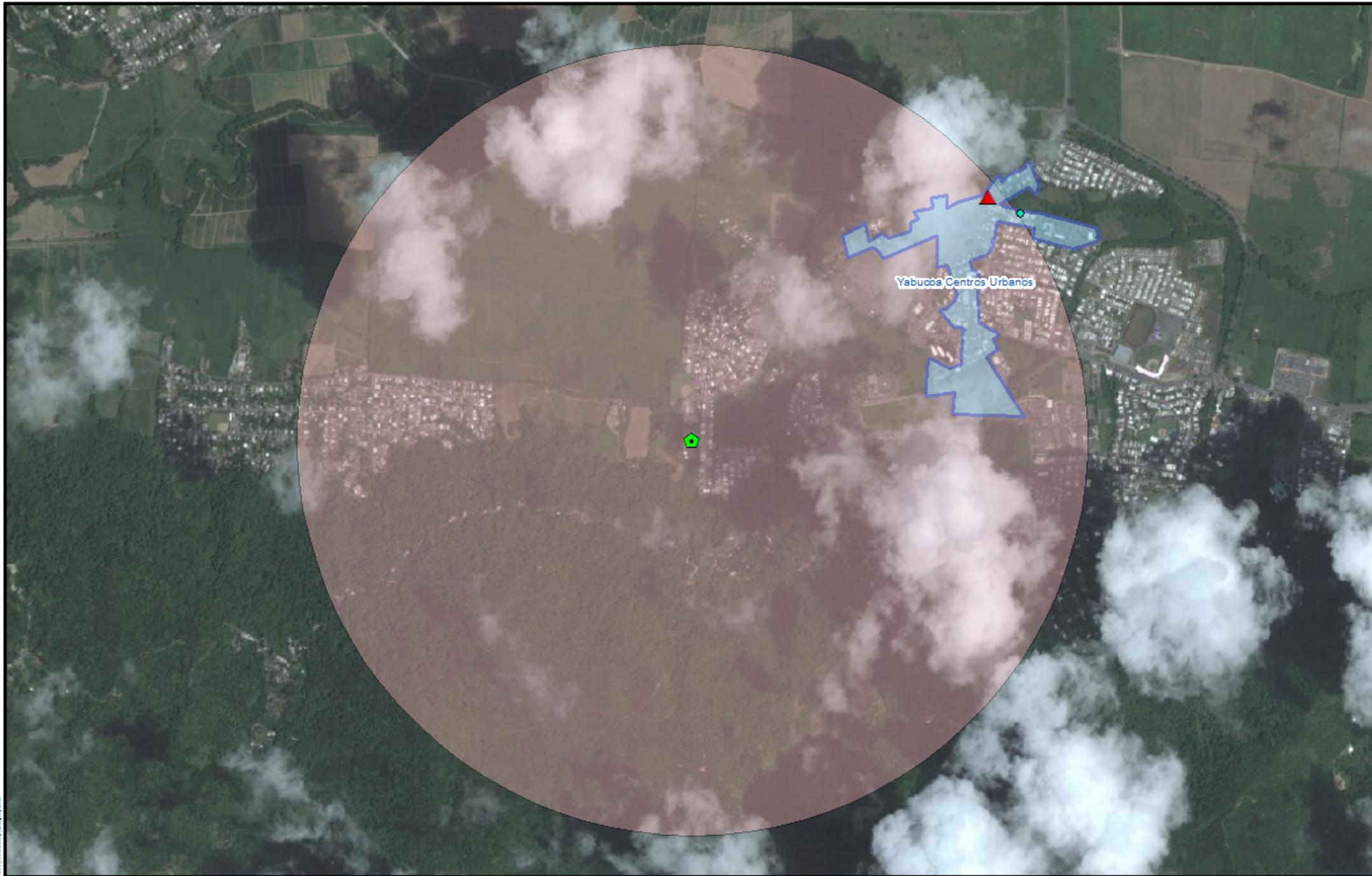
Source: USDA  
<https://websoilsurvey.sc.egov.usda.gov>

Author: TG Date: 10/24/2022

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Agri...





**Legend**

-   1 Mile Property Buffer
-  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

**PUERTO RICO**



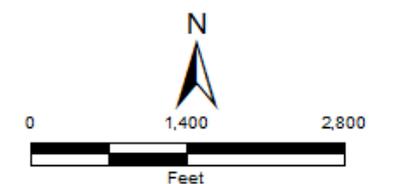
Source: National Park Service  
<https://www.nps.gov/>

Author: TG Date: 10/24/2022

PROJECT: HISTORIC PRESERVATION

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Agr...





**Legend**



**WETLAND TYPE**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine

**PUERTO RICO**



THE INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. DATE 10/4/2022 BY SP-6 BTJ/STW/STW



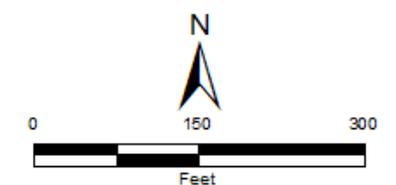
Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>

Author: TG Date: 10/4/2022

**14. WETLANDS**

**APPLICANT ID: PR-RGRW-00976**

Development: Alex O. Rivera Morales Agr...





**Legend**

-  Project Parcel
-  Nearest WSR
-  Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River in Feet: 87122

**PUERTO RICO**



File Path: Z:\data\USFRT\Fac\WSR\_Secundary\_Imagery\_Regrow.mxd



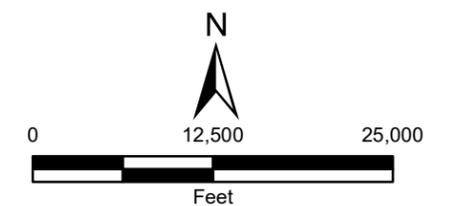
Source: U. S. Forest Service  
<https://www.fs.usda.gov>

Author: TG Date: 4/20/2023



**APPLICANT ID: PR-RGRW-00976**

**ADDRESS:** carr 182 raal 900 km1, PR 00767  
**Name Of Development:** Alex O. Rivera Morales Agricultor  
**Parcel Coordinates:** 18.042771, -65.889579





Legend



Landslide Susceptibility

- Extremely High
- Very High
- High
- Moderate
- Low

PUERTO RICO



<http://www.prdoh.gov>

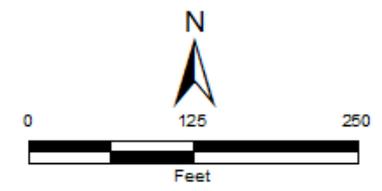


Source: PRDOH  
<http://maps.prdoh.com>  
 Date: 10/4/2022

16. SLOPE AND EROSION

APPLICANT ID: PR-RGRW-00976

Development: Alex O. Rivera Morales Agr...



# 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

ApplicantId	FullAddress	REGISTRY_ID	PGM_SYS_ACR	PRIMARY_NAME	LOCATION_ADDRESS	CITY_NAME	STATE	POSTAL	LATITUDE83	LONGITUDE83	DFR_URL	DistanceFeet
PR-RGRW-00976	carr 182 raal 900 km1, PR 00767	110004889210	RCRAINFO	YABUCOA FILTRATION PLANT	PR-3 KM 100.5 BARRIO LA PICA	YABUCOA	PR	00767	18.03607600	-65.88516200	<a href="http://echo.epa.gov/detailed-facility-report?fid=110004889210">http://echo.epa.gov/detailed-facility-report?fid=110004889210</a>	2842 feet

# Detailed Facility Report



## Detailed Facility Report

---

### Facility Summary

**YABUCOA FILTRATION PLANT**

**PR-3 KM 100.5 BARRIO LA PICA, YABUCOA, PR 00767**

**FRS (Facility Registry Service) ID:** 110004889210

**EPA Region:** 02

**Latitude:** 18.036076

**Longitude:** -65.885162

**Locational Data Source:** NPDES

**Industries:** Utilities

**Indian Country:** N

## Enforcement and Compliance Summary

<b>Statute</b>	<b>CAA</b>
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
Compliance Status	--
Qtrs in Noncompliance (of 12)	--
Qtrs with Significant Violation	--
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--
<b>Statute</b>	<b>CWA</b>
Compliance Monitoring Activities (5 years)	2
Date of Last Compliance Monitoring Activity	07/24/2019
Compliance Status	No Violation Identified
Qtrs in Noncompliance (of 12)	3
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

Statute	RCRA
Compliance Monitoring Activities (5 years)	--
Date of Last Compliance Monitoring Activity	--
<b>Compliance Status</b>	No Violation Identified
Qtrs in Noncompliance (of 12)	0
Qtrs with Significant Violation	0
Informal Enforcement Actions (5 years)	--
Formal Enforcement Actions (5 years)	--
Penalties from Formal Enforcement Actions (5 years)	--
EPA Cases (5 years)	--
Penalties from EPA Cases (5 years)	--

## Regulatory Information

**Clean Air Act (CAA):** No Information  
**Clean Water Act (CWA):** Minor, Permit Effective (PR0022837)  
**Resource Conservation and Recovery Act (RCRA):** Inactive Other, (PRD980535413)  
**Safe Drinking Water Act (SDWA):** No Information

[Go To Enforcement/Compliance Details](#)  
[Known Data Problems](#)

## Other Regulatory Reports

**Air Emissions Inventory (EIS):** No Information  
**Greenhouse Gas Emissions (eGGRT):** No Information  
**Toxic Releases (TRI):** No Information  
**Compliance and Emissions Data Reporting Interface (CEDRI):** No Information

## Facility/System Characteristics

### Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		<a href="#">110004889210</a>					N	18.036076	-65.885162
ICIS		40692					N	18.039444	-65.884444
RMP	CAA	100000123886		INACTIVE			N	18.039444	-65.884444
ICIS-NPDES	CWA	PR0022837	Minor: NPDES Individual Permit	Effective		04/30/2024	N	18.038056	-65.885556
RCRAInfo	RCRA	PRD980535413	Other	Inactive ( )			N		

## Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110004889210</u>	YABUCOA FILTRATION PLANT	PR-3 KM 100.5 BARRIO LA PICA, YABUCOA, PR 00767	Yabucoa Municipio
ICIS		40692	PRASA WTP YABUCOA	ROAD 3, KM 100.5, YABUCOA, PR 00767	Yabucoa Municipio
RMP	CAA	100000123886	YABUCOA FILTRATION PLANT	CARR. 3, KM 100.5, YABUCOA, PR 00767	Yabucoa Municipio
ICIS-NPDES	CWA	PR0022837	PRASA YABUCOA WTP	ROAD 3, KM 100.5, YABUCOA, PR 00767	Yabucoa Municipio
RCRAInfo	RCRA	PRD980535413	PRASA LA PICA YABUCOA FILTER PLT	CARR 3 KM 100.5 BARRIO LA PICA, YABUCOA, PR 00767	Yabucoa Municipio

## Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PR0022837	4941	Water Supply

## Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RMP	100000123886	22131	Water Supply and Irrigation Systems

## Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
PR0022837	000	No Applicable Effluent Guidelines

## Facility Tribe Information

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
No data records returned			

## Enforcement and Compliance

### Compliance Monitoring History Last 5 Years ▼

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
CWA	PR0022837	ICIS-NPDES	Inspection/Evaluation	Biosolids - Evaluation	EPA	07/24/2019	
CWA	PR0022837	ICIS-NPDES	Inspection/Evaluation	Base Program - Evaluation	EPA	05/09/2018	

*Entries in italics are not counted as EPA official inspections.*

## Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PR0022837	No	12/31/2022	3	03/24/2023
RCRA	PRD980535413	No	03/25/2023	0	03/24/2023

## Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
CWA	(Source ID: PR0022837)	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/24/23

Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	<b>Facility-Level Status</b>				Violation Identified	Violation Identified	Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Undetermined
	<b>Quarterly Noncompliance Report History</b>				Reportable Noncompliance	Reportable Noncompliance	Reportable Noncompliance	Resolved - Pending									
	<b>Pollutant</b>	<b>Disch Point</b>	<b>Mon Loc</b>	<b>Freq</b>													
► CWA	<u>BOD, 5-day, 20 deg. C</u>	001 - A	Effluent Gross	NMth	267%											20%	
► CWA	<u>Color [PT-CO units]</u>	001 - A	Effluent Gross	NMth											LIMIT VIOLATION		
► CWA	<u>Solids, total dissolved</u>	001 - A	Effluent Gross	NMth	120%												240%
► CWA	<u>pH</u>	001 - A	Effluent Gross	Neither	LIMIT VIOLATION			LIMIT VIOLATION	LIMIT VIOLATION			LIMIT VIOLATION					
	<b>Late or Missing Discharge Monitoring Report (DMR) Measurements</b>																
	Counts of Late DMR Measurements								10								
Statute	Program/Pollutant/Violation Type				QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+	
	RCRA (Source ID: PRD980535413)				04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22	01/01-03/31/23	
	<b>Facility-Level Status</b>				No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	
	<b>Violation</b>	<b>Agency</b>															

**Informal Enforcement Actions** Last 5 Years ▼

Statute	System	Source ID	Type of Action	Lead Agency	Date
---------	--------	-----------	----------------	-------------	------

No data records returned

*Entries in italics are not counted as "informal enforcement actions" in EPA policies pertaining to enforcement response tools.*

## Formal Enforcement Actions

Last 5 Years ▼

Statute	System	Law/Section	Source ID	Type of Action	Case No.	Lead Agency	Case Name	Issued/Filed Date	Settlements/Actions	Settlement/Action Date	Federal Penalty Assessed	State/Local Penalty Assessed	Penalty Amount Collected	SEP Cost	Comp Action Cost
---------	--------	-------------	-----------	----------------	----------	-------------	-----------	-------------------	---------------------	------------------------	--------------------------	------------------------------	--------------------------	----------	------------------

No data records returned

## Environmental Conditions

### Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100050102	Caño de Santiago at mouth	AGUAS LARGAS CRE	No	No	BOD, 5-day, 20 deg. C   Oxygen, dissolved (DO)   Turbidity	Yes

### Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
PR	2020	<a href="#">PREE35.1</a>	CAÑO DE SANTIAGO ESTUARY	Impaired - 303(d) Listed - With Restoration Plan	ORGANIC ENRICHMENT/OXYGEN DEPLETION   OTHER CAUSE   PATHOGENS   TURBIDITY	--	Not Supporting	-	Not Supporting	-

### Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
-----------	-----------------------------------	---------------------------------------------	---------------------------------	-------------------------------------------

No data records returned

## Pollutants

### Toxics Release Inventory History of Reported Chemicals Released in Pounds per Year at Site

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
-----------------	------	---------------------	--------------------------	--------------------------------------------------------------	------------------------	------------------	------------------------	--------------------------

No data records returned

### Toxics Release Inventory Total Releases and Transfers in Pounds by Chemical and Year

Chemical Name
---------------

No data records returned

## Community

## EJScreen EJ Indexes

Twelve environmental justice (EJ) indexes of EJScreen, EPA's screening tool for EJ concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. The index values below are for the Census block group or 1-mile maximum (US or State) in which the facility is located. Note that use of these indexes does not designate an area as an "EJ community" or "EJ facility." EJScreen provides screening level indicators, not a determination of the existence or absence of EJ concerns. For more information, see the [EJScreen home page](#).

Show EJ Indexes calculated based on: Census Block Group - US ▼

Census Block Group EJ Indexes (percentile)	
Particulate Matter 2.5	--
Ozone	--
Diesel Particulate Matter	0
Air Toxics Cancer Risk	68
Air Toxics Respiratory Hazard Index	44
Traffic Proximity	37
Lead Paint	67
Risk Management Plan (RMP) Facility Proximity	98
Hazardous Waste Proximity	77
Superfund Proximity	99
Underground Storage Tanks (UST)	0
Wastewater Discharge	91

Number of EJ Indexes Above 80th Percentile
3

[View EJScreen Report](#) (US/regional/state percentiles, 1-mile average)

## Demographic Profile of Surrounding Area (1 mile)

This section provides demographic information regarding the community surrounding the facility. ECHO compliance data alone are not sufficient to determine whether violations at a particular facility had negative impacts on public health or the environment. Statistics are based upon the 2010 U.S. Census and 2016 - 2020 American Community Survey (ACS) 5-year Summary and are accurate to the extent that the facility latitude and longitude listed below are correct. EPA's spatial processing methodology considers the overlap between the selected radii and the census blocks (for U.S. Census demographics) and census block groups (for ACS demographics) in determining the demographics surrounding the facility. For more detail about this methodology, see the [DFR Data Dictionary](#).

General Statistics (U.S. Census)	
Total Persons	5,085
Population Density	1,638/sq.mi.
Housing Units in Area	2,270

General Statistics ( <a href="#">ACS (American Community Survey)</a> )	
Total Persons	3,959
Percent People of Color	100%
Households in Area	1,488
Households on Public Assistance	115
Persons With Low Income	3,246
Percent With Low Income	82%

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	316 (6%)
Minors 17 years and younger	1,284 (25%)
Adults 18 years and older	3,801 (75%)
Seniors 65 years and older	829 (16%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,299 (65%)
African-American	787 (15%)
Hispanic-Origin	5,060 (100%)
Asian/Pacific Islander	10 (0%)
American Indian	25 (0%)
Other/Multiracial	964 (19%)

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.036076
Center Longitude	-65.885162
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	752 (50.54%)
\$15,000 - \$25,000	327 (21.98%)
\$25,000 - \$50,000	304 (20.43%)
\$50,000 - \$75,000	70 (4.7%)
Greater than \$75,000	35 (2.35%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	459 (17.03%)
9th through 12th Grade	244 (9.05%)
High School Diploma	719 (26.68%)
Some College/2-year	480 (17.81%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	487 (18.07%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

 An official website of the United States government

MENU

Search EPA.gov

**Related Topics: Envirofacts** <../>

**CONTACT US** <<https://www.epa.gov/enviro/forms/contact-us-about-envirofacts>>

**Home** <<https://enviro.epa.gov>> | **Multisystem Search** <<https://enviro.epa.gov/facts/multisystem.html>> | **Topic Searches** <<https://www.epa.gov/enviro/topic-searches>> | **System Data Searches** <<https://www.epa.gov/enviro/system-data-searches>> | **About the Data** <<https://www.epa.gov/enviro/about-data>> | **Data Downloads** <<https://www.epa.gov/enviro/data-downloads>> | **Widgets** <<https://www.epa.gov/enviro/widgets>> | **Services** <<https://www.epa.gov/enviro/web-services>> | **Mobile** <<https://www.epa.gov/enviro/uv-index-mobile-app>> | **Other Datasets** <<https://www.epa.gov/enviro/other-datasets>>

**Data Disclaimer** <<http://www.epa.gov/wastes/disclaimer2.htm>>

## RCRAInfo Facility Information

<< Return

**PRASA LA PICA YABUCOA FILTER PLT**

Handler ID: PRD980535413

CARR 3 KM 100.5 BARRIO LA PICA  
YABUCOA, PR 00767

**County Name:** YABUCOA

**Latitude:** 18.036076

**Longitude:** -65.885162

**Hazardous Waste Generator:**

**Owner Name:** PR AQUADUCT SEWER  
AUTH

*\*You can navigate within the map with your mouse.*

**No BIENNIAL REPORT data is available for the facility listed above.**

**LIST OF FACILITY CONTACTS**

<b>NAME</b>	<b>STREET</b>	<b>CITY</b>	<b>STATE</b>	<b>ZIP CODE</b>	<b>PHONE</b>	<b>TYPE OF CONTACT</b>
CASADO JORGE	PO BOX 7066 BARRIO OBRERO STA	SANTURCE	PR	00916- 7066	787-852- 1405	Public
JORGE CASADO	PO BOX 7066 BARRIO OBRERO STA	SANTURCE	PR	00916- 7066	787-852- 1405,	Permit

**HANDLER / FACILITY CLASSIFICATION**

Unspecified Universe for the facility listed above.

HANDLER TYPE
Not in a universe

**No PROCESS INFORMATION is available for the facility listed above.**

**No NAICS Codes are available for the facility listed above.**

**No Waste Codes are available for the facility listed above.**

[Go To Top Of The Page](#)

**Total Number of Facilities Retrieved: 1**

**Data Refresh Information** <<https://epa.gov/resources/echo-data/about-the-data#sources>>

# 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

Yabucoa 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>	<p>Endangered</p>

## Amphibians

NAME	STATUS
<p>Guajon <i>Eleutherodactylus cooki</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p><a href="https://ecos.fws.gov/ecp/species/6963">https://ecos.fws.gov/ecp/species/6963</a></p>	<p>Threatened</p>

## 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.

# 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](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

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](mailto:carubio@prshpo.pr.gov)

March 9, 2023

**Lauren Bair Poche**  
HORNE- Architectural Historian Manager  
10000 Perkins Rowe, Suite 610 Bldg. G  
Baton Rouge, LA 70810

SHPO: 02-10-23-04 PR-RGRW-00976 ALEX O. RIVERA MORALES AGRICULTOR  
LOCALIZADO EN LA CARR. PR-182 RAMAL 900 KM. 1, BO. CALABAZAS,  
YABUCOA, PUERTO RICO

Dear Ms. Bair,

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

Our records support your finding of **no historic properties affected** within the project's area of potential effects. Please note that should the Agency discover other historic properties at any point during project implementation, you should notify the SHPO immediately.

If you have any questions concerning our comments, do not hesitate to contact our Office.

Sincerely,

*for*   
Carlos A. Rubio-Cancela  
State Historic Preservation Officer

CARC/GMO/IMC



February 13, 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-00976 – Alex O. Rivera Morales, Agricultor – Carr. PR-182 Ramal 900 Km 1, Bo. Calabazas, Yabucoa, Puerto Rico – No Historic Properties Affected**

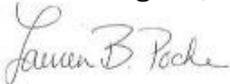
Dear Architect Rubio Cancela,

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 Alex O. Rivera Morales in Carr. PR-182 Ramal 900 Km 1, Bo. Calabazas in the municipality of Yabucoa. This undertaking will consist of the purchase of a tractor and the construction of two metal frame greenhouses measuring 100' long by 35' wide. These activities will require ground disturbance. 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

Enclosures

<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> Alex O. Rivera Morales, Agricultor		
<b>Case ID:</b> PR-RGRW-00976		<b>City:</b> Yabucoa

<b>Project Location:</b> Carr. PR-182 Ramal 900 Km 1, Bo. Calabazas	
<b>Project Coordinates:</b> 18.042771, -65.889579	
<b>TPID (Número de Catastro):</b> 376-000-009-66-000	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> ca. 1990	<b>Property Size (acres):</b> 30.44

<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.
<b>Date Reviewed:</b> January 15, 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 the farm of Alex O. Rivera is the purchase of a tractor and the construction of two greenhouses with metal frame, in compliance with Section 106 NHPA Effect Determination. The purpose of the greenhouses is for growing culantro in soil-growing benches. The footprint for each greenhouse is approximately 100 feet long by 35 feet wide. The correct coordinates of Scope of Work #1 are 18.04270° N, -65.88961° W. No new water or electric power connection is required. Approximately 50 feet west of the Scope of Work is a plot of plantains owned by the applicant. The farm of Alex O. Rivera is located at Carr. PR-182 Ramal 900 Km 1 Bo. Calabazas in the Municipality of Yabucoa. This activity will require ground disturbance.

### 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 a footprint slightly over 200 feet long by 70 feet wide, including both greenhouses, centered at 18.04270° N, -65.88961° W. The Scope of Work #1

<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> Alex O. Rivera Morales, Agricultor		
<b>Case ID:</b> PR-RGRW-00976		<b>City:</b> Yabucoa

consists of purchasing of a tractor and constructing the two greenhouses. This terrain was used for cultivating sugar cane over fifty years ago. It is currently used for growing plantains and the proponent also wants to grow cilantro in the new greenhouses. The direct APE includes a 15-meter buffer to all sides. The visual APE is the viewshed of the proposed project.

### Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that there is one archaeological site and/or NRHP listed/eligible historic property within a half-mile radius of the property, as shown in Table 1 below. This is the Cementerio Municipal de Yabucoa (SHPO# No data), a historic municipal cemetery located 0.30 miles southeast of the property. The proposed project is located in relatively flat terrain, previously used for cultivating sugar cane over fifty years ago, and now used for growing plantains. Soils in the proposed project area are classified as Mayo loam (MIC), 3 to 10 percent slopes, surrounded by farmland with secondary forest vegetation cover further south, 25 meters above mean sea level. The east coast is 2.89 miles southeast of the property. The closest fresh-water bodies include Quebrada Aguas Largas 0.18 miles northeast of the property, Caño de Santiago 0.67 miles northwest of the property, and Río Guayanés 1.02 miles northwest of the property. There are two Phase 1A-1B archaeological studies within a half-mile radius, by González Colón (1996) and Font Negrón (1995), listed in Table 2.

**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
Cementerio Municipal de Yabucoa	No data	No data	0.30 mi SE	Historic municipal cemetery	No data

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

Author	Title	Year	SHPO/IPRC ID	Results	Location
Juan González Colón	Phase 1A-1B, Paseo Horizonte	1996	CAT-SN-96-04-02	Positive	0.30 mi SE
Aramis Font Negrón	Phase 1A-1B, Escuela Elemental Urbana Reparto Horizonte	1995	CAT-YB-95-02-04	Negative	0.32 mi NE

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>REGrow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
<b>Subrecipient:</b> Alex O. Rivera Morales, Agricultor	
<b>Case ID:</b> PR-RGRW-00976	<b>City:</b> Yabucoa

### 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 or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed Historic District or Traditional Urban Center.

### 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 is one reported historic site or significant cultural property within a half-mile radius of the proposed project area, the Cementerio Municipal de Yabucoa (SHPO# No data). This is a historic cemetery located 0.30 miles from the APE. 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-00976 is located. 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.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>RE-grow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
<b>Subrecipient:</b> Alex O. Rivera Morales, Agricultor	
<b>Case ID:</b> PR-RGRW-00976	<b>City:</b> Yabucoa

**Recommendation**

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

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

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

<p>The Puerto Rico State Historic Preservation Office has reviewed the above information and:</p> <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>	
<p><b>Comments:</b></p>	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Subrecipient: Alex O. Rivera Morales, Agricultor

Case ID: PR-RGRW-00976

City: Yabucoa

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



TETRA TECH

Source: CRIM

Author: TG

Date: 10/7/2022

#### Legend

-  Tier 2 Site
-  Area of Potential Effect
-  Parcelario

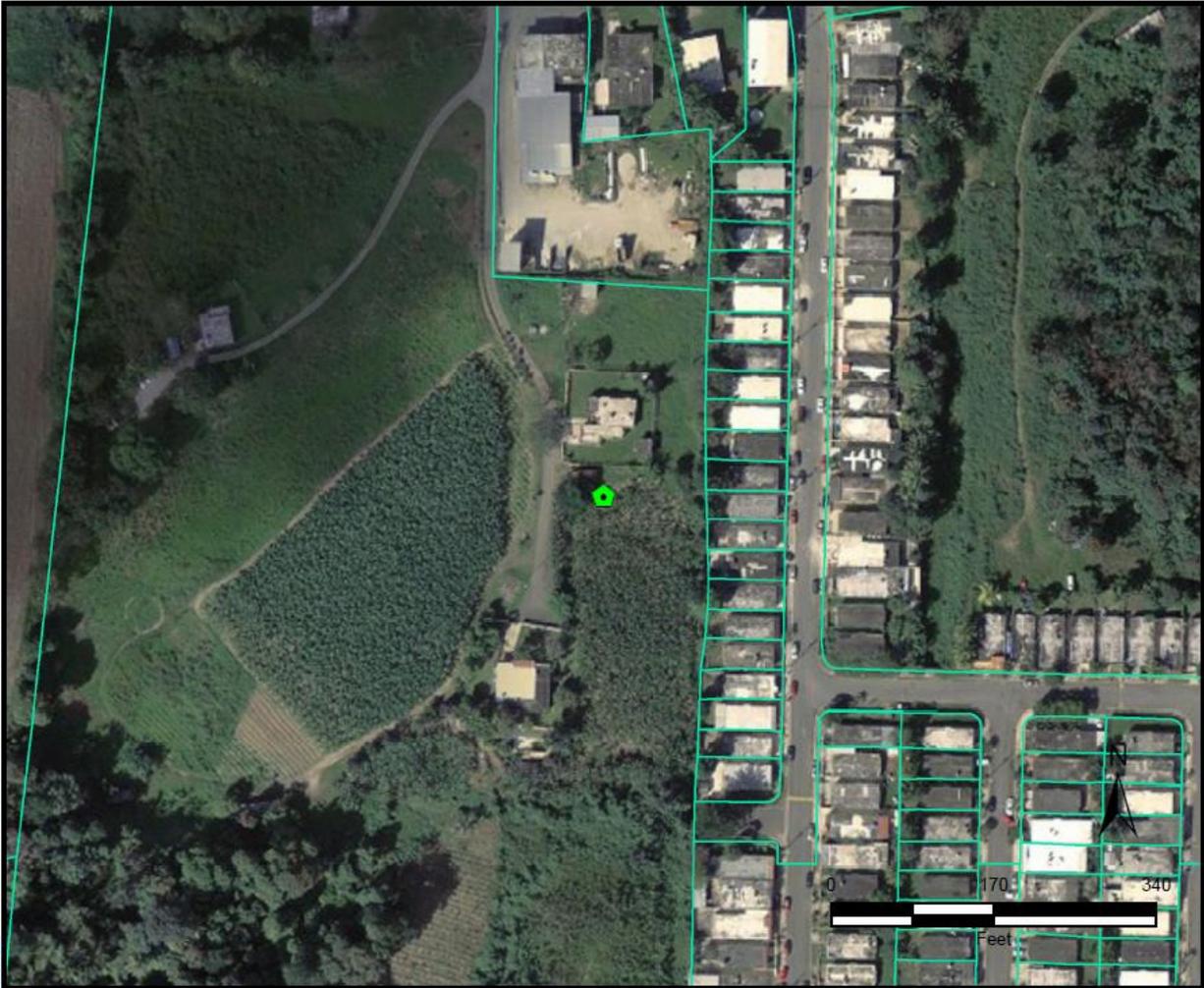


Subrecipient: Alex O. Rivera Morales, Agricultor

Case ID: PR-RGRW-00976

City: Yabucoa

### Project (Parcel) Location - Aerial Map



Source: CRIM

Author: TG

Date: 9/22/2022

**Legend**

-  Tier 2 Site
-  Historic Comunidades
-  Traditional Urban Centers
-  Cultural Resource District Polygon
-  Parcelario





Subrecipient: Alex O. Rivera Morales, Agricultor

Case ID: PR-RGRW-00976

City: Yabucoa

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



Source: USGS

Author: TG

Date: 9/29/2022

#### Legend

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

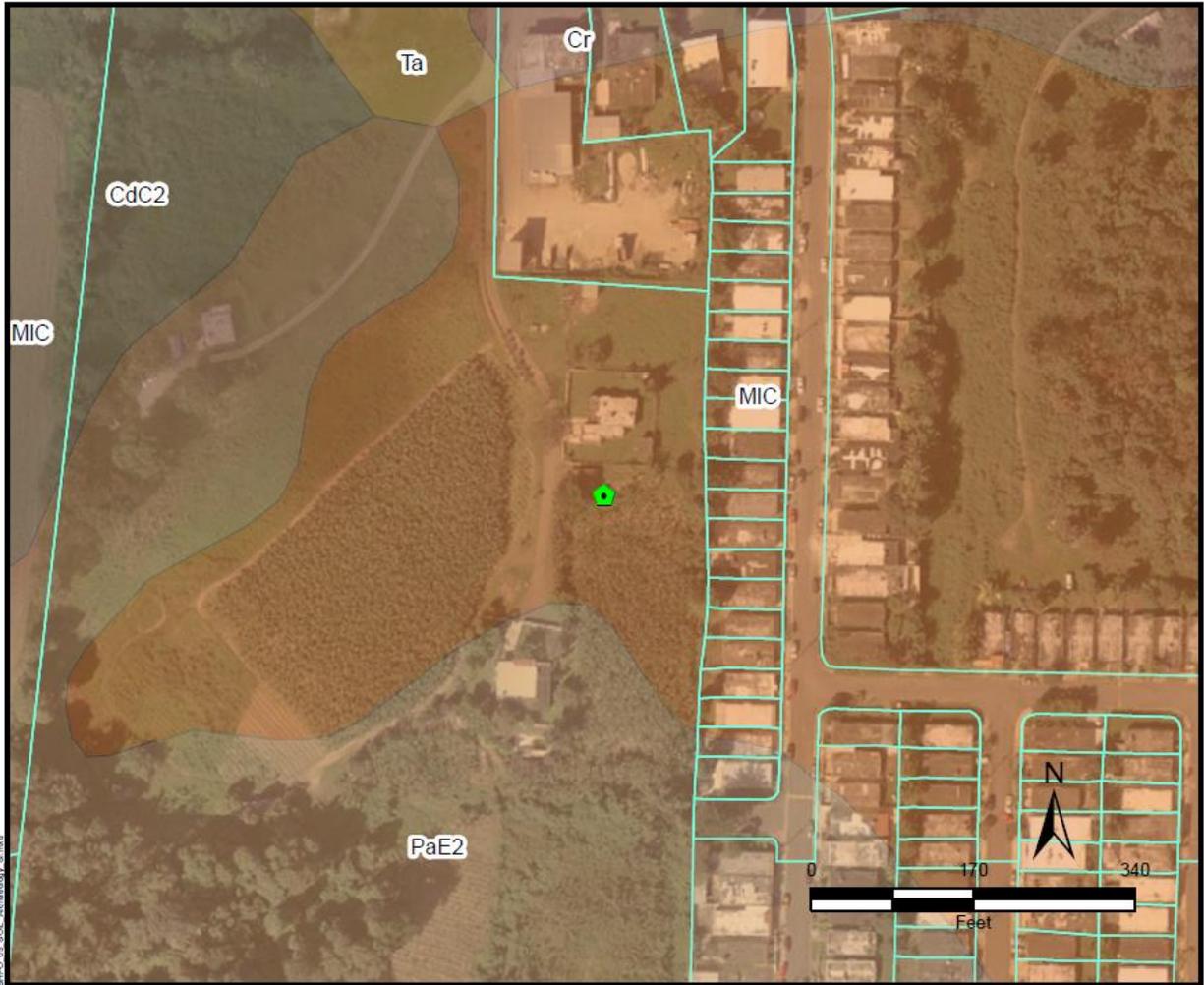


Subrecipient: Alex O. Rivera Morales, Agricultor

Case ID: PR-RGRW-00976

City: Yabucoa

### Project (Parcel) Location – Soils Map



Source: USDA

Author: TG

Date: 9/30/2022

**Legend**

-  Tier 2 Site
-  Parcelario
- Soil Type**
-  CdC2; Candelero loam, 5 to 12 percent slopes, eroded
-  Cr; Coloso silty clay
-  MIC; Mayo loam, 3 to 10 percent slopes
-  PaE2; Pandura loam, 12 to 40 percent slopes, eroded
-  Ta; Talante soils



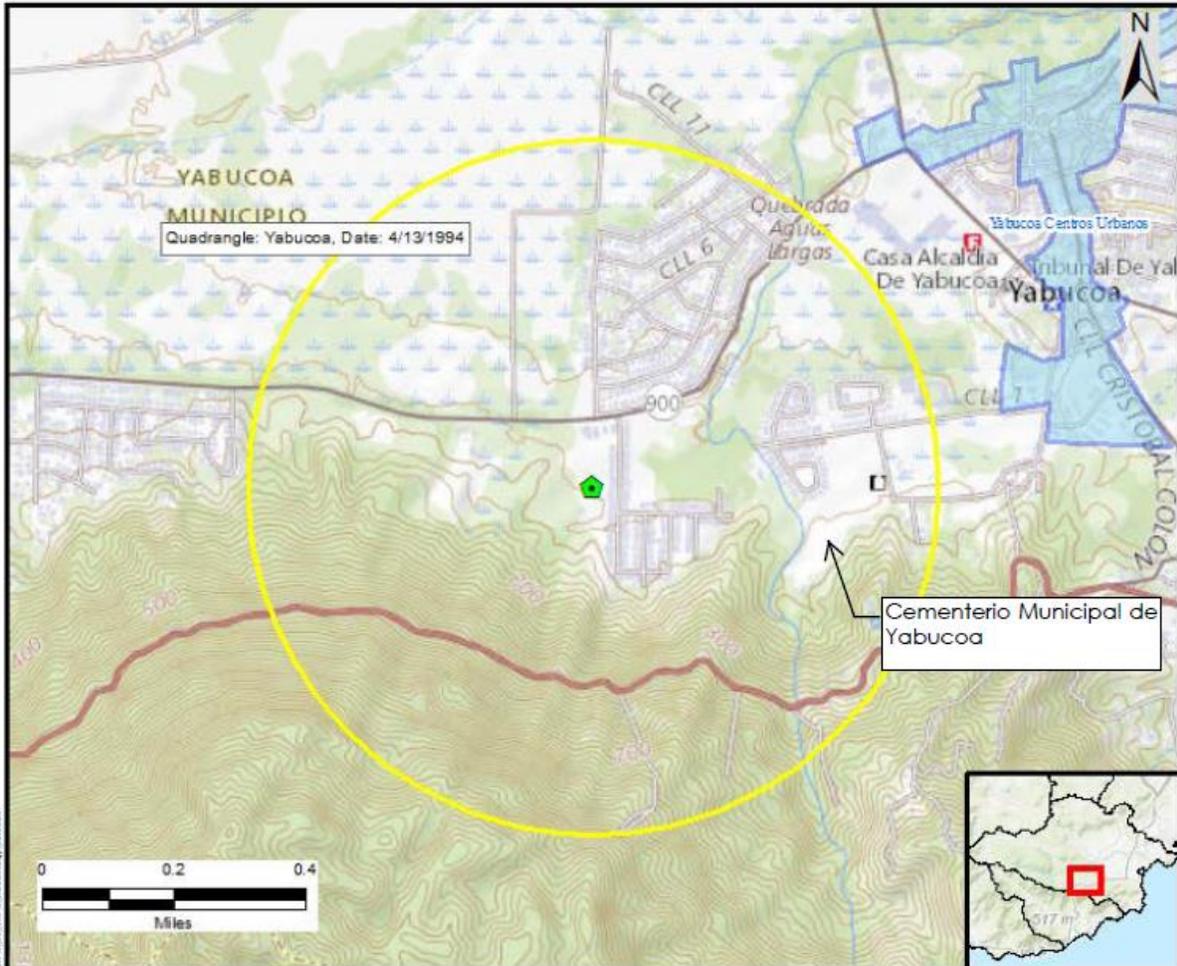


Subrecipient: Alex O. Rivera Morales, Agricultor

Case ID: PR-RGRW-00976

City: Yabucoa

### 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:** Alex O. Rivera Morales, Agricultor

**Case ID:** PR-RGRW-00976

**City:** Yabucoa

### Photograph Key



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

**ReGROW PUERTO RICO PROGRAM**

**Section 106 NHPA Effect Determination**



**Subrecipient:** Alex O. Rivera Morales, Agricultor

**Case ID:** PR-RGRW-00976

**City:** Yabucoa



**Photo # 1:**

**Description (include direction):** Scope of work area 1

**Date:** 11/16/2022

East

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

**ReGROW PUERTO RICO PROGRAM**

**Section 106 NHPA Effect Determination**



**Subrecipient:** Alex O. Rivera Morales, Agricultor

**Case ID:** PR-RGRW-00976

**City:** Yabucoa



**Photo # 2:**

**Description (include direction):** Scope of work area 1

**Date:** 11/16/2022

South



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 typed name of the sender.

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT