

# **Environmental Assessment**

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

### **24 CFR Part 58**

#### **Project Information**

**Project ID:** PR-RGRW-01026

**Project Name:** Jose Francisco Alvarado Collazo

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

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

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

**Preparer:** Gabriela Rodríguez

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

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

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

#### **Project Location:**

The property is a 48.5 -acre site located at Carr. 155 Km 33.6, Barrio Gato, Sector Maria Auxiliadora in the Municipality of Orocovis, Puerto Rico (Parcel ID# 193-000-004-76-000). The coordinates of the project site are 18.263115, -66.393744.

This land has been used in the past and is currently used for agricultural purposes with the cultivation of plantains.

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

The intent use of grant funds for this project includes the purchase of a vehicle and the construction of a drainage system for farm operations. The purchase of the small vehicle has been submitted and approved as an exempt activity under 24 CFR 58.35 (b)(4). The potential impacts associated with the construction of the drainage system are included in the analyses below.

The Scope of Work (SOW) of the project includes the construction of a drainage system at coordinates 18.263115, -66.393744. The purpose of the drainage is to improve the management of the stormwater runoff to mitigate the existing and future landslide

damage caused to the farm's internal unpaved road. The drainage system consists of the installation of 20 feet of 24-inch diameter corrugated PVC drainage pipe to be installed at an approximate depth of 6 foot (ft) and the on-site construction of two concrete header walls to be installed at either end of the drainage pipe. The typical header wall for 24-inch pipe measures 6.5 x 5.5 x 4.25 feet and serves to stabilize both the pipe and surrounding soil. The final size of the header wall may vary due to site condition and drainage requirements.

No electrical or water connection is needed for the proposed SOW.

Project area is on an unpaved existing farm internal road with few or no vegetation due to erosion, landslide, vehicle transit, and maintenance of areas. The project site will require some clearing, grading, and little vegetation removal. However, proposal does not contemplate cutting, pruning or transplanting of trees. The Area of Potential Effect (APE) for the proposed project is approximately 0.25 acres.

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 island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities. The purpose of this project is to increase the productivity of the farm. This agricultural project associated with the construction of a drainage system is keeping with the overall objectives of the Economic Development Program.

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

The parcel where the construction of the water drainage system is proposed has been used in the past and is currently used for agricultural purposes with the cultivation of plantains. Therefore, there is no change in land use associated with the project. Project area is on an unpaved existing farm internal road with few or no vegetation due to erosion, landslide, vehicle transit, and maintenance of areas. The purpose of the drainage is to improve the management of the stormwater runoff to mitigate the existing and future landslide damage caused to the farm's internal unpaved road. 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-17-DM-72-0001,	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162,230
B-18-DP-72-0001,	CDBG-DR, Re-Grow Puerto Rico	
B-19-DP-78-0002,	Urban-Rural Agricultural Program	
B-18-DE-72-0001		

**Estimated Total HUD Funded Amount:** \$6,773.36

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$6,773.36

## **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 a runoff water drainage system. The nearest civil airport, “Aeropuerto Internacional Mercedita”, is approximately 108,184 feet from the proposed site. The nearest military airport, “Aeropuerto Internacional Luis Muñoz Marín”, is

		approximately 145,745 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 Central Region Puerto Rico. The distance to the nearest CBRS unit is 71,229 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 located in Zone X, area of minimal flood hazard, as per Floodplain Insurance Map 72000C0670J, 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>		
<b>Clean Air</b>  Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Project site is not located in a county or air quality management district that is non-attainment status for any criteria pollutants. The Municipio of Orocovis is not listed in the EPA Green Book "Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants". The project consists of the construction of a runoff water drainage system. Project 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>
<b>Coastal Zone Management</b>  Coastal Zone Management Act, sections 307(c) & (d)	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project is located 66,816 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><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 December 18, 2023, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were identified at the project site. The project consists of the construction of a runoff water drainage system.</p> <p>Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project.</p> <p>The Kaufel International Inc, 2,733 feet northwest of the project site, is a RCRA. As a RCRA site it is considered inactive with no violations over the last 3 years. With these conditions and the distance, there would not be any impacts to the project site. See ECHO report in <b>Appendix C</b>.</p> <p>Refer to Figures 8 and 9 in <b>Appendix B</b> and the Site inspection report and photos in <b>Appendix A</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 consists of the construction of a runoff water drainage system. The proposed location of project is an area that has been used for agricultural purposes.</p> <p>According to EPA NEPAAssist Enviromapper, the nearest critical or proposed critical habitat is 52,469 feet to the northwest of the project location. The Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website lists the Puerto Rican Boa, Puerto Rican Broad-winged Hawk, and the Puerto Rican Parrot as being able to be found in the area, but there are no critical habitats for them at this location.</p> <p>A site-specific review of endangered species was conducted in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) (See <b>Appendix D</b>).</p> <p>The proposed project will have No Effect on listed species or habitats. Based on the nature of</p>

		<p>the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, it was determined that there would be No Effect for any of the listed species.</p> <p>If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers will be notified for safe capture and relocation of the animal, in accordance with the USFWS Puerto Rican Boa Conservation Measures guidelines.</p> <p>Refer to Figures 10 and 11 in <b>Appendix B</b> and the Endangered Species Package 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 consists of the construction of a runoff water drainage system. The project site area is not designated as farmland of statewide importance or prime farmland. However, part of the parcel is identified as prime farmland. The project does not include any activities that could potentially convert agricultural land to nonagricultural use. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required.</p> <p>This project is in compliance with the Farmland Protection Policy Act. Refer to Figure 12 in <b>Appendix B</b>.</p>
<p><b>Floodplain Management</b></p>	<p>Yes    No</p>	<p>The Project site is not located in a 100-year floodplain per Floodplain Insurance Map</p>

<p>Executive Order 11988, particularly section 2(a); 24 CFR Part 55</p>	<p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>72000C0670J, effective date November 18, 2009. The project site is not located in an Advisory Base Flood Elevation (ABFE) special flood hazard area. PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canovanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of Orocovis; therefore, PFIRM information was not available for the area and therefore not considered in the review. This project is in compliance with Executive Order 11988. See Figures 4, 5, and 6 in <b>Appendix B</b>.</p>
<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The site was evaluated on February 5, 2024, by an SOI Qualified Archaeologist. SHPO concurred with a finding of <b>No Historic Properties Affected</b> within the project's Area of Potential on Effects on March 6, 2024.</p> <p>Refer to Figure 13 in <b>Appendix B</b> and the Section 106 Consultation Package in <b>Appendix E</b>. 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 <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the construction of a runoff water drainage system. HUD's noise regulations protect residential properties from excessive noise exposure. 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 <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>There are no EPA sole source aquifers in Puerto Rico. The nearest Sole Source Aquifer is 5,374,529 feet to the northwest of the project site. The project is in compliance with Sole Source Aquifer requirements.</p> <p>Refer to Figure 17 in <b>Appendix B</b>.</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No <input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the construction of a runoff water drainage system.</p> <p>The north coast is 78,244 feet northwest of the property. The closest fresh-water bodies include two unnamed creeks tributaries of the Quebrada Grande, 490 feet southeast and 841 feet</p>

		<p>northwest of the project location The Quebrada Grande is 1,115 ft to the northwest of project site area.</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.</p> <p>The project is in compliance with Executive Order 11990. Refer to Figure 14 in <b>Appendix B</b>.</p>
<p><b>Wild and Scenic Rivers</b></p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 208,440 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in <b>Appendix B</b>.</p>

<b>ENVIRONMENTAL JUSTICE</b>		
<p><b>Environmental Justice</b></p> <p>Executive Order 12898</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>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.</p>

**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 / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>The project consists of the construction of a runoff water drainage system. The proposed project is located on a private farm. The project site is zoned as “Agrícola Productivo (A-P)”. The proposed action is compliant with the current agricultural land use of the Project area and will not contribute to urban sprawl.</p>
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	1	<p>The project consists of the construction of a runoff water drainage system. The proposed project is located in mountainous terrain, previously used for agricultural purposes, and now used for growing plantains.</p> <p>Soils in the proposed project area are classified as Maricao clay soil (MoF), 20 to 60 percent percent slopes, surrounded by farmland with mature forest vegetation cover further south, 550-590 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 0.25 acres.</p> <p>The project site will require some clearing, grading, and vegetation removal. However, proposal does not contemplate cutting, pruning or transplanting of trees.</p> <p>The project site area is rated “high to very high” for landslide susceptibility (see Figure 16 in <b>Appendix B</b>). The purpose of the proposed drainage is to improve the management of the stormwater runoff to mitigate the existing and future landslide damage caused to the farm’s internal unpaved road. The construction of this drainage will allow the management of the runoff water during raining events reducing the erosion and transportation of sediments therefore reducing the landslides of this part of the internal road.</p> <p>There will be no human habitation associated with the area and therefore extensive mitigation measures will not be required,</p>

		such as retaining walls or special engineering design. There will be little to no additional runoff associated with the project.
Hazards and Nuisances including Site Safety and Noise	2	The project consists of the construction of a runoff water drainage system. 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. There is no access to the project area by the public.
Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	The project consists of the construction of a runoff water drainage system. Temporary employment of workers related to construction activities would result, but no new permanent jobs would be created as a result of this project. These workers are expected to come from the local region. However, since the project will include an economic component, it may aid in restoring some employment opportunities and increase income.  The proposed project would not negatively impact employment or income patterns.
Demographic Character Changes, Displacement	2	The project consists of the construction of a runoff water drainage system. The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.
Environmental Justice	2	In the area (one mile radius) in which project will occur. 100% are people of color compared to PR average of 96% 94% are low income compared to PR average of 70% 32% are unemployed compared to PR average of 15%  The project consists of the construction of a runoff water drainage system. This project may result in restoration and increase in income and potential employment opportunities in the local area. The impacts would be beneficial.  See EJSscreen Report in <b>Appendix C</b>

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	The project consists of the construction of a runoff water drainage system. The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The project consists of the construction of a runoff water drainage system. The agricultural activity of the project property will improve. Other commercial facilities would not be impacted by the proposed project.
Health Care and Social Services	2	The project consists of the construction of a runoff water drainage system. 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	<p>The project consists of the construction of a runoff water drainage system.</p> <p>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, others) would be stored for later use. The remaining construction solid waste materials would be collected for transport to the local landfill. The amount of impact of solid waste resulting from the construction of the proposed project would be minor. During operations, the products and by-products would be agricultural, which waste would be biodegradable. Other waste components related to the operation of the proposed project includes recyclable materials such as plastics and cardboard. Recyclables will be set aside and dispose according to the local recycling management plan. The remaining municipal solid waste would be collected for the transport to the local landfill.</p>
Wastewater / Sanitary Sewers	2	The project consists of the construction of a runoff water drainage system. The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current farm conditions would remain unchanged.
Water Supply	2	The project consists of the construction of a runoff water drainage system. The SOW does not involve water connections

		or use water for operational purposes. The proposed project does not represent an increase in current water demand.
Public Safety – Police, Fire and Emergency Medical	2	The project consists of the construction of a runoff water drainage system. The proposed project would not create any new demand for emergency or health services.
Parks, Open Space and Recreation	2	The project consists of the construction of a runoff water drainage system. 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 project consists of the construction of a runoff water drainage system. 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 project consists of the construction of a runoff water drainage system. The proposed project will be situated on land used for agricultural purposes. The proposed project will have no impact to unique natural features or water resources.
Vegetation, Wildlife	2	The project consists of the construction of a runoff water drainage system. The proposed project will occur on land previously used for agricultural purposes and will continue in that capacity. Waste vegetation from clearing activities will either be composted on site or at regional composting centers. Proposal does not contemplate cutting, pruning or transplanting of trees. The proposed project will have minimal impact on vegetation and no impact on wildlife.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>CLIMATE AND ENERGY</b>		
Climate Change Impacts	2	The project consists of the construction of a runoff water drainage system. The project area is rural and does not have urban heat island effects. There would be no changes to the site



		configuration or structure that would specifically address the possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity. This is a small agricultural project with no measurable impact on climate change factors.
Energy Efficiency/Energy Consumption	2	The project consists of the construction of a runoff water drainage system. The proposed project is an agricultural project that does not involve energy use. There would be no change in energy demand in the area.

**Additional Studies Performed:** None required.

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

Site inspection was conducted on December 18, 2023 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/npas/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npas/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)

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

National Wild and Scenic Rivers System: [www.rivers.gov/puerto-rico.php](http://www.rivers.gov/puerto-rico.php)

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

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

US Environmental Protection Agency, National Ambient Air Quality Standards, Nonattainment Areas for Criteria Pollutants (Green Book):  
[www3.epa.gov/airquality/greenbook/anayo\\_pr.html](http://www3.epa.gov/airquality/greenbook/anayo_pr.html)

US EPA, Environmental Topics, Air Topics: [www.epa.gov/environmental-topics/air-topics](http://www.epa.gov/environmental-topics/air-topics)

US Fish and Wildlife Service, Environmental Conservation Online System:  
<https://ecos.fws.gov/ecp/report/species-listings-by-state?stateAbbrev=PR&stateName=Puerto%20Rico&statusCategory=Listed>

Federal Emergency Management Agency, Flood Mapping Service:  
<https://msc.fema.gov/portal/home> (compilation of numerous maps)

US Fish and Wildlife Service, National Wetlands Inventory:  
[www.fws.gov/wetlands/data/mapper.html](http://www.fws.gov/wetlands/data/mapper.html) (compilation of numerous maps)

Puerto Rico Coastal Zone Management Program Plan, September 2009.

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

US Geological Survey, Data Release of May Showing Concentration of Landslides Caused by Hurricane Maria,  
[www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8](http://www.sciencebase.gov/catalog/item/59de6459e4b05fe04ccd39d8)

### **List of Permits Obtained:**

None

### **Public Outreach** [24 CFR 58.43]:

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

### **Cumulative Impact Analysis** [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The project consists of the construction of a runoff water drainage system. The purpose of the drainage is to improve the management of the stormwater runoff to mitigate the existing and future landslide damage caused to the farm's internal unpaved road. The project would allow the secure mobility of equipment and operations of the farm leading to a more efficient processing and growing of the agricultural products. The SOW does not involve the connection of the electric or water utilities. Therefore, project have no impact on the local utilities supply or demand.

### **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. Alternative locations off and on property may represent an impact to undisturbed and/or uneven ground, sloped terrain or within forested areas, which could require heavier clearing and grading activities. Any alternative that would involve an off-property location might require the purchase of land, the movement of products, equipment, infrastructure, water and power utility connections, among others, representing an additional cost. An off-property alternative will not enhance and expand agricultural production or allow for the economic development for this

applicant. Given the above-mentioned possible impacts of an alternative location, an off-property alternative was not selected.

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

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

**Summary of Findings and Conclusions:**

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

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

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

The environmental review topics addressed in this environmental review include all formal compliance steps with federal agencies and mitigations (listed in table below) needed for compliance with 24 CFR 58.

Any permits or approvals that have been issued during the preparation of this environmental review have been included in the evaluation of impacts and mitigations. Any special permit conditions or requirements associated with these permits are listed in the Mitigation Measures and Conditions table below.

Law, Authority, or Factor	Mitigation Measure
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Standard construction BMPs would be used to control erosion and runoff during construction.
Endangered Species	Implement Puerto Rican Boa conservation measures prior to and during construction to avoid or minimize impacts to this species. If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa. PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124.
<b>Permits or Agency Approvals Required</b>	
Permit or Approval	Permit Conditions
Ground disturbance	Projects whose earthworks are more than 40 m <sup>3</sup> must submit an Incidental Permit. The permit must be submitted via the Single Business Portal to the OGPe to be evaluated and physicalized by the Water Quality Division of the PRDNER. Any necessary permits should be obtained by the applicant and/or contractor prior to construction activities.
Clearing activities	Activities involving the excavation or movement of any component of the terrestrial cortex material that exceeds five hundred (500) cubic meters and up to a maximum of five thousand (5,000) cubic meters require the submittal and approval of a Simple Terrestrial Cortex Removal Permit. Applications are submitted via the Single Business Portal of the OGPe to be evaluated and physicalized by terrestrial Cortex Extraction Permit Division of the PRDNER.

**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: 4/25/2024

Name/Title/Organization: Gabriela Rodríguez, Senior Environmental Scientist, Tetra Tech Inc.

Certifying Officer Signature:  Date: April 29, 2024

Name/Title: Mónica M. Machuca Ríos / 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**

## **Site Inspection and Photos**

## Environmental Field Observation - Puerto Rico Department of Housing

APPLICANT INFORMATION			
Application ID	PR-RGRW-01026		
Applicant Name	Jose Francisco Alvarado Collazo		
Property Address	CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA		
Parcel ID	193-000-004-76		
Coordinates	18.263115, -66.393744		
Inspector Name	Carlos O. Medina		
Inspection Date	12/18/2023		
Building Type	vacant		
Number of Units	0		
Number of Stories	0		
Year Built; Data Source	----; Historian		
ENVIRONMENTAL OBSERVATIONS (attach photos and notes, as necessary, for any YES answers)			
OBSERVATION ITEMS	YES	NO	COMMENTS
A. Is the <b>structure in use</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
B. Is <b>structure a greenhouse</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C. Is <b>Electricity connected</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D. Is <b>water connected</b> ? (Utilities or Well)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1. Are there signs of <b>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"/>	
2. Are there any <b>55-gallon drums</b> visible on site? If yes, are they leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are there any (or signs of any) <b>underground storage tanks</b> on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Are there signs of <b>ASTs</b> on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5. Is there any <b>stained soil or pavement</b> on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is a water <b>drainage system</b> in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is a warehouse in use for storage of <b>Fertilizer or Pesticides</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Are there any <b>groundwater monitoring wells</b> on the site or adjacent parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Is there evidence of a <b>faulty septic system</b> ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Is there <b>distressed vegetation</b> on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11. Is there any visible indication of <b>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-01026  
Project Name: Jose Francisco Alvarado Collazo  
Coordinates: 18.263115, -66.393744

Is the field graded? For what purpose the field was graded? Month, Year: none

Scope of Work: The scope of work includes the purchase of small vehicle and the construction of a drainage system for farm operations.

Land current in use for: plantains

Past Land use was: plantains

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

Scope of work 1: Construction of a drainage system in the coordinates 18.263115, -66.393744. This drainage system will be consist in corrugated PVC tube of 24" of diameter and 20' long. This tube will be buried at approximately 6 feet underground. Two concrete head walls at the begins and in the end will be installed to connected the tube. This drainage system will improved the rainwater runoff form the high adjacent elevation and avoid future damaged of the farm road.

Any new water connection or power connection?  
No water neither electrical connection needed.

If the scope of work included tools, machinery or farms products, Where the applicant will be storing them?  
Small vehicle Pick up, will be storage in the applicant house in the coordinates: 18.259335, -66.397667



## Site Sketch



**Front of Structure**

Photo Direction: Northwest



**Facing Away From Front**

Photo Direction: Southeast





**Side #1 of Structure**

Photo Direction: Southeast



**Facing Away From Side #1**

Photo Direction: Northwest





**Back of Structure**

Photo Direction: North



**Facing Away From Back**

Photo Direction: South





**Side #2 of Structure**

Photo Direction: West



**Facing Away From Side #2**

Photo Direction: East



**Streetscape #1**

Photo Direction: East



**Streetscape #2**

Photo Direction: West





Address

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: West





Structural Details

Photo Description: Architectural details

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: East



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest

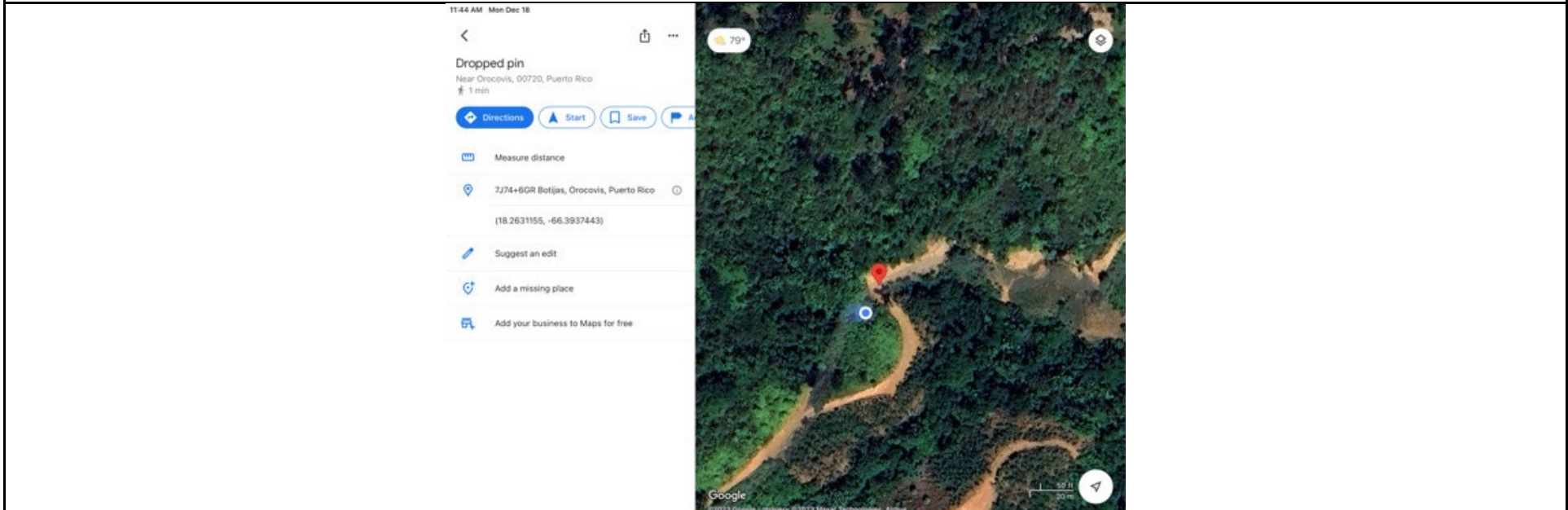




Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: Northwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest





**Scope Of Work**

Photo Description: Scope of work: Construction of a drainage system

Photo Direction: North



**Scope Of Work**

Photo Description: Scope of work: Construction of drainage system

Photo Direction: Northwest



Scope Of Work

Photo Description: Scope of work: Construction of a drainage system

Photo Direction: East



Scope Of Work

Photo Description: Scope of work: Construction of a drainage system

Photo Direction: West





**Scope Of Work**

Photo Description: Scope of work: Construction of a drainage system

Photo Direction: West



**Scope Of Work**

Photo Description: Scope of work: Construction of a drainage system

Photo Direction: West



**Scope Of Work**

Photo Description: Scope of work: Construction of a drainage system

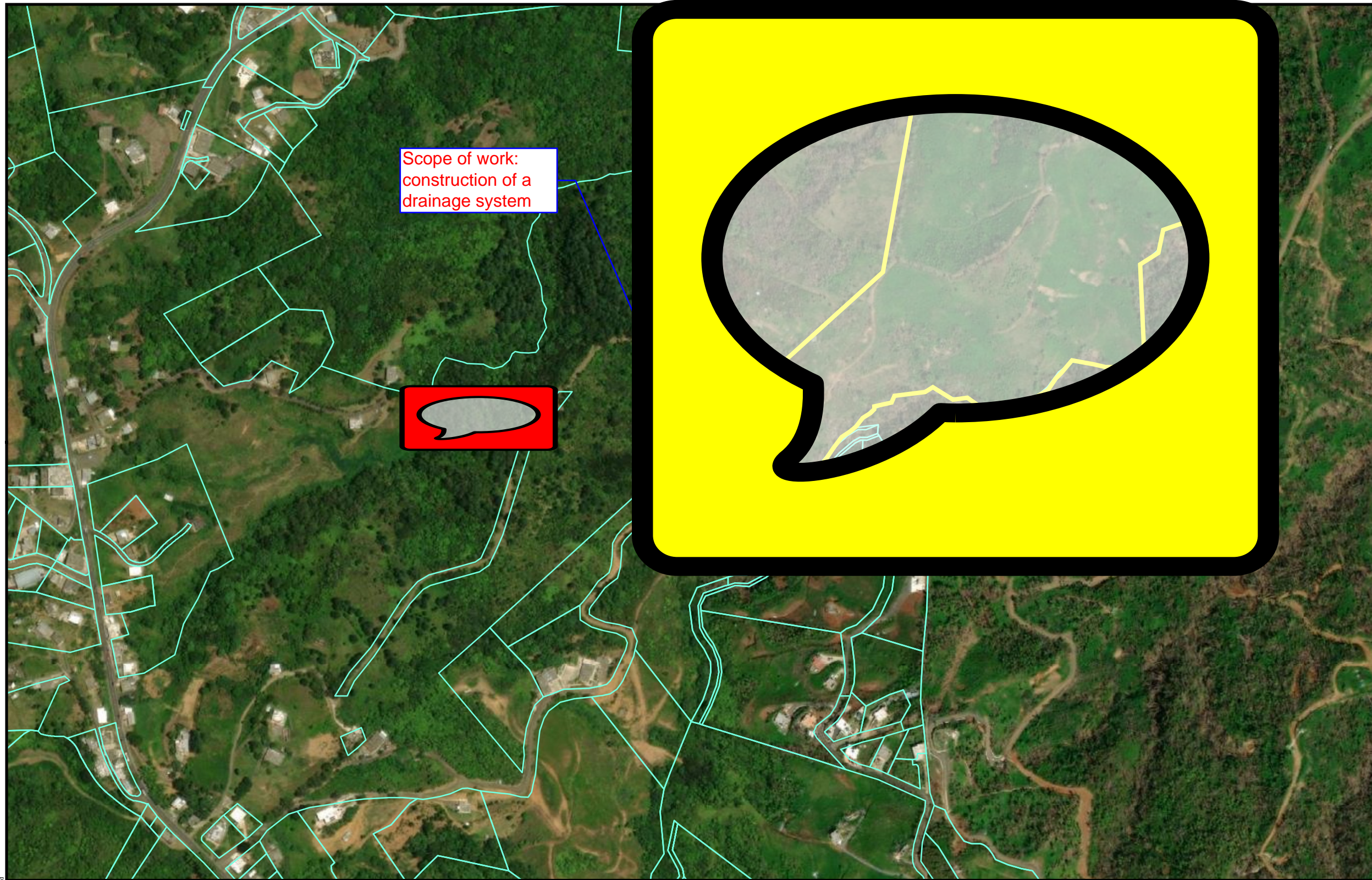
Photo Direction: West







# APPENDIX B

## Maps





Scope of work:  
construction of a  
drainage system

- Legend**
-  Project Parcel
  -  Parcels
  -  Area of Potential Effect
  -  Project Parcel Boundaries

**PUERTO RICO**

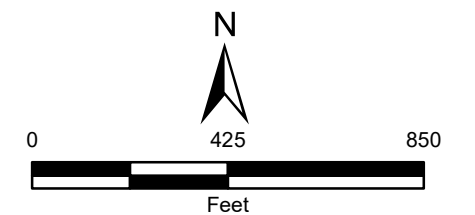


**APPLICANT ID: PR-RGRW-01026**  
 PR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOYUE  
 Zone of Development 1, Final Environmental Impact Statement



Source: CRIM  
<https://catastro.crimpr.net/cdprpc/>

Author: TG Date: 2/29/2024







**Legend**

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

**Distance to Nearest Airport  
in Feet: 108,184**

**Distance to Nearest Civilian Airport  
in Feet: 108,184**

**Distance to Nearest Military Airport  
in Feet: 145,745**

**PUERTO RICO**



**Figure 2: AIRPORT ZONES**  
**APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

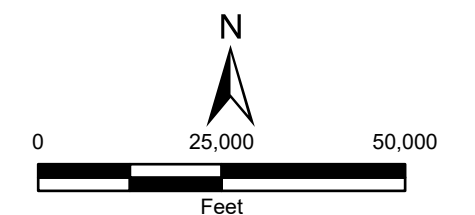
**Name of Development: Jose Francisco Alvarado Collazo**

**Parcel Coordinates: 18.263115 , -66.393744**

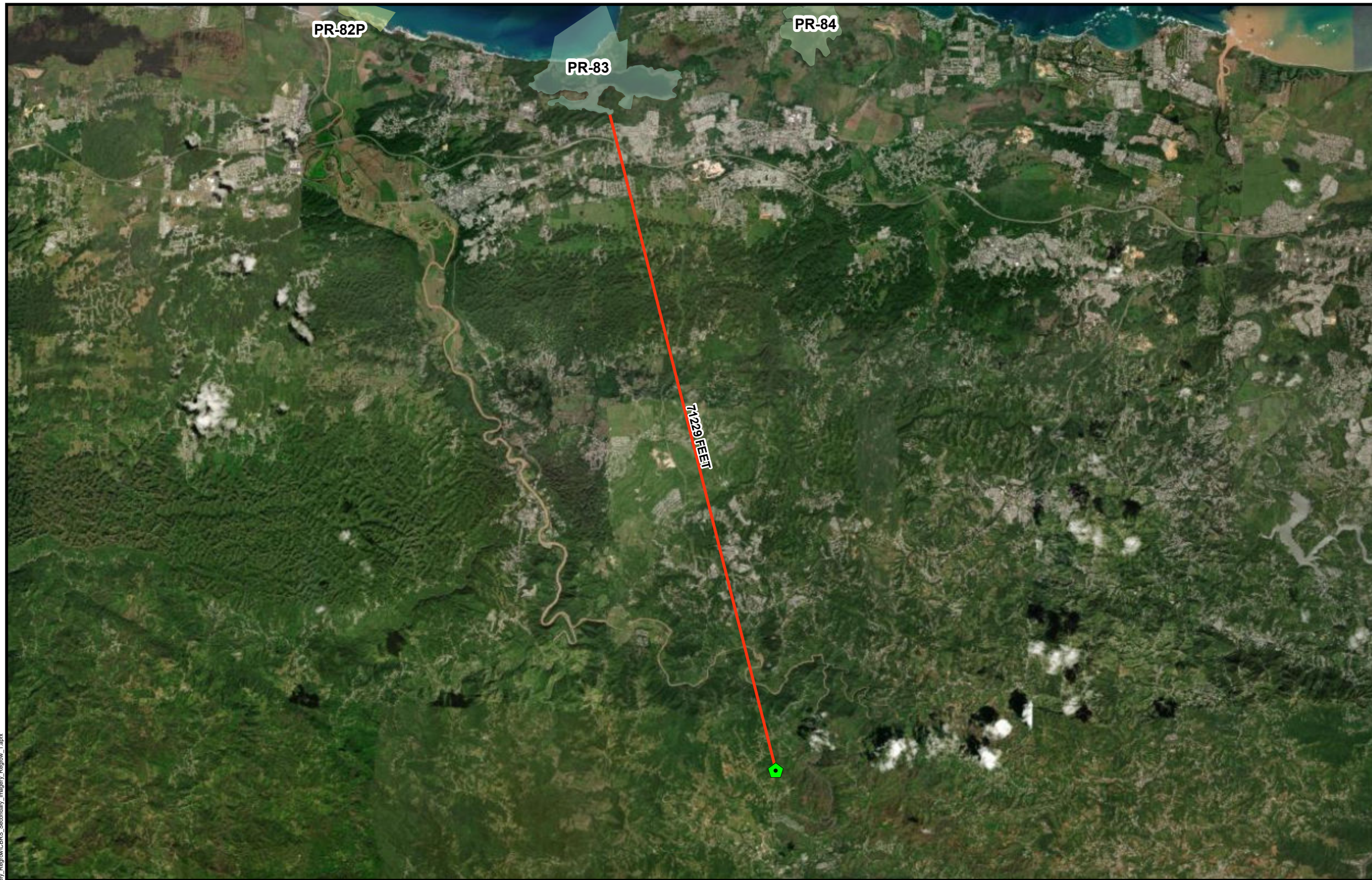


Source: USDOT  
<https://www.faa.gov>

Author: TG Date: 2/14/2024







**Legend**

Project Parcel

**Coastal Barrier Resources System Boundary**

**Unit**

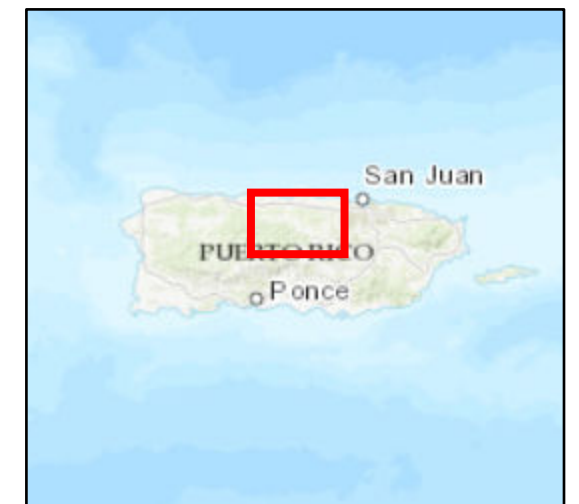
PR-82P

PR-83

PR-84

Distance to Nearest Coastal Barrier Resources System:  
71229 Feet

**PUERTO RICO**



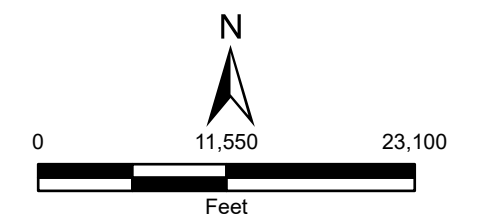
Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>

**Figure 3: COASTAL BARRIERS IMPROVEMENT ACT**  
**APPLICANT ID: PR-RGRW-01026**

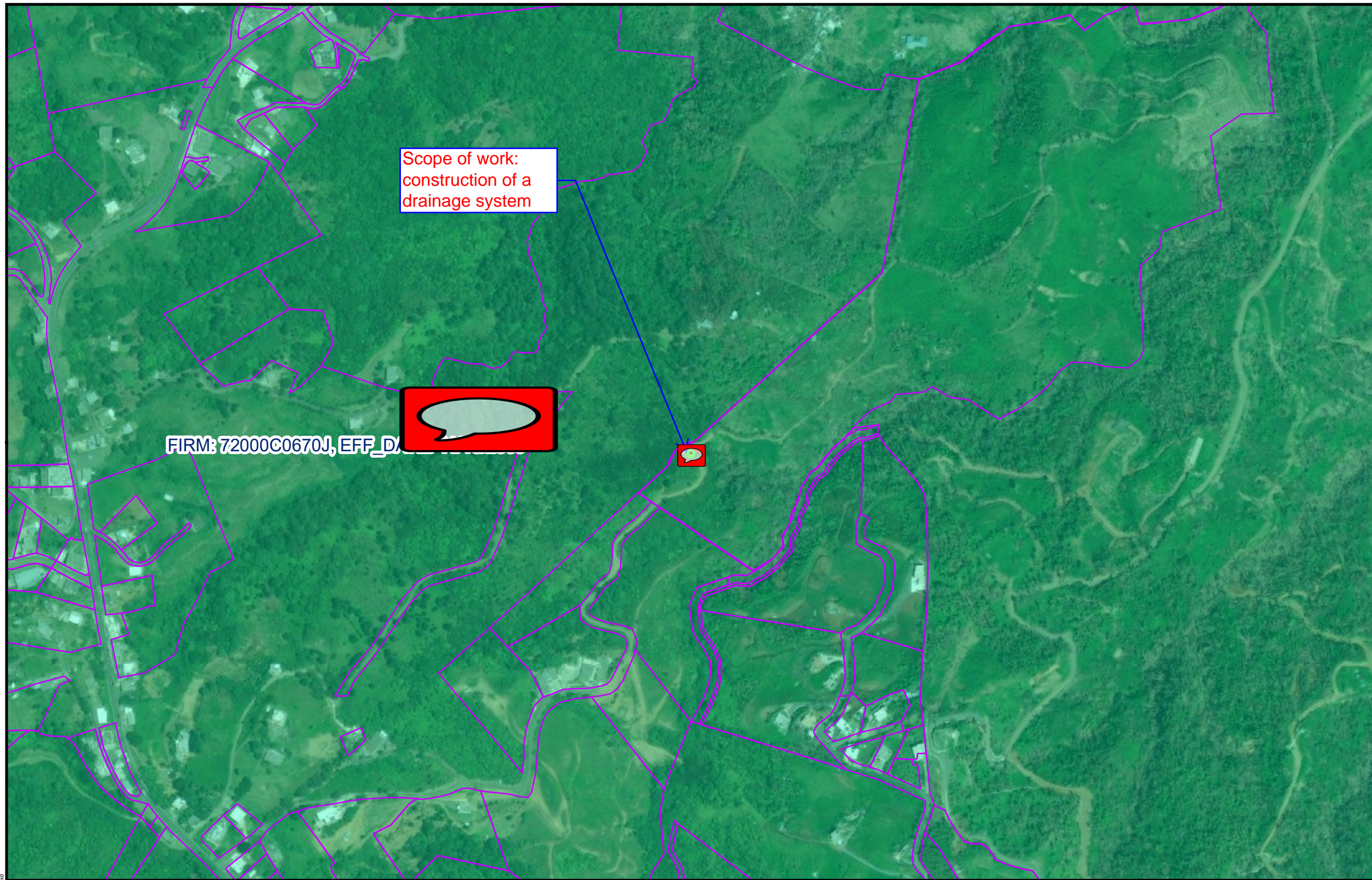
ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720

Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744







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

**PUERTO RICO**



**Figure 4: FLOODPLAIN MANAGEMENT  
APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS PR 00720**

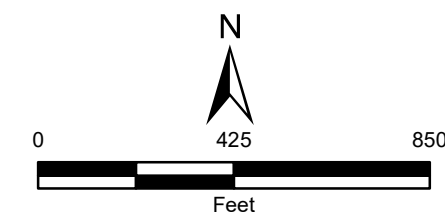
Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744



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

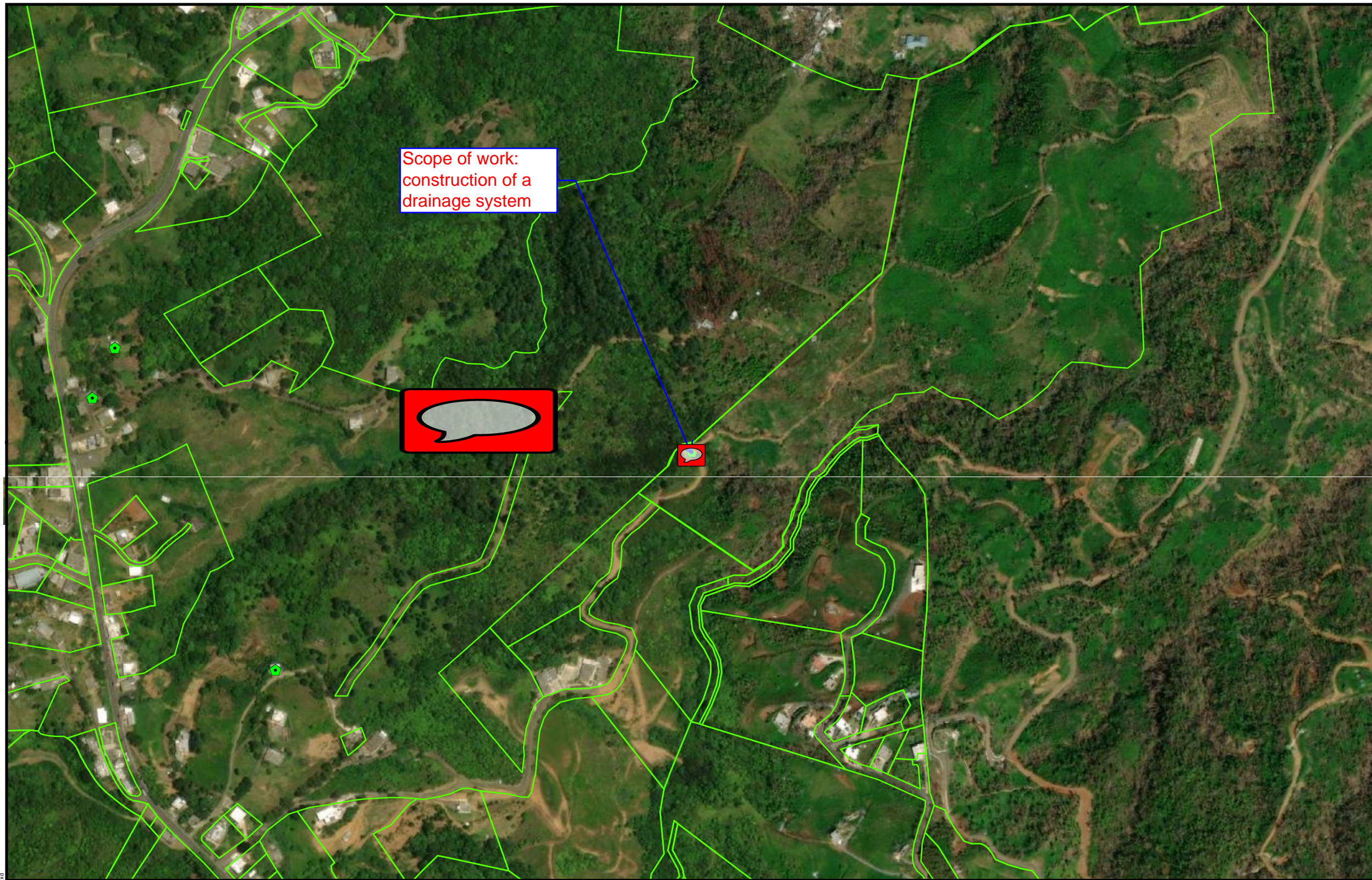
Author: TG Date: 2/29/2024











- Legend**
- Project Parcel
  - Parcels
- Legend**
- PuertoRico\_ABE\_1PCT  
Advisory Base Flood Elevation (zoom in to make visible)
- Puerto Rico ABE\_1PCT
- Flood Hazard Boundary (zoom in to make visible)  
Limit of Moderate Wave Action (LMWA)
- LMWA
- Flood Hazard Extent
- 1% Annual Chance Flood
  - 0.2% Annual Chance Flood
- Zone/BFE Boundary
- Zone/BFE Boundary
- Flood Hazard Area (zoom in to make visible)
- Flood Hazard Zone
- A
  - AO
  - AE
  - Coastal A Zone
  - VE
  - X 0.2% Annual Chance Flood
  - A-Floodway
  - AE-Floodway
  - Coastal A Zone and Floodway
- Area of Potential Effect

**PUERTO RICO**



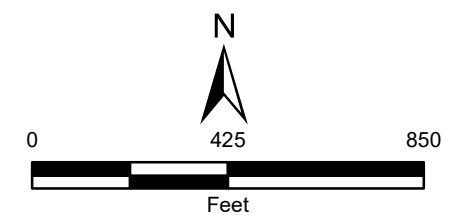
**Figure 6: ADVISORY BASE FLOOD ELEVATION**  
**APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720  
 Name of Development: Jose Francisco Alvarado Collazo  
 Parcel Coordinates : 18.263115 , -66.393744



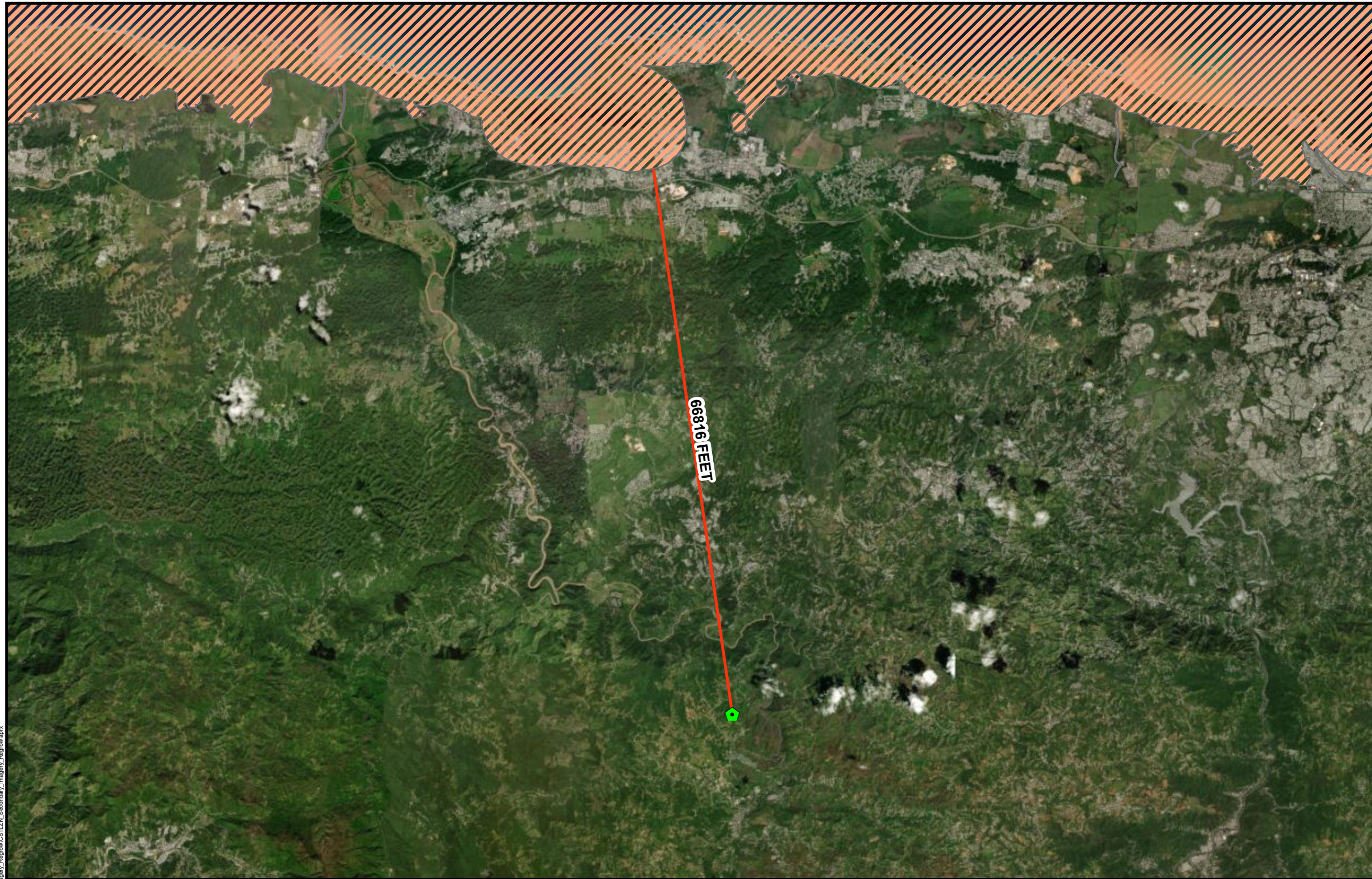
Source: FEMA  
<https://gis.fema.gov>

Author: TG Date: 2/29/2024





File Path: Z:\data\USPRT\Tetra\ABE\_Secutory\_Imagery\_Region.mxd





**Legend**

-  Project Parcel
-  Coastal Zone Management Boundary

Distance to Nearest Coastal Zone:  
66816 Feet

**PUERTO RICO**



**Figure 7: COASTAL ZONE MANAGEMENT  
APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

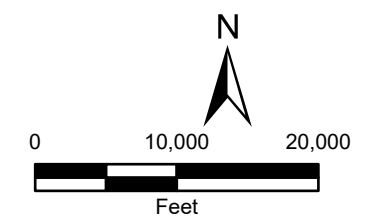
Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744

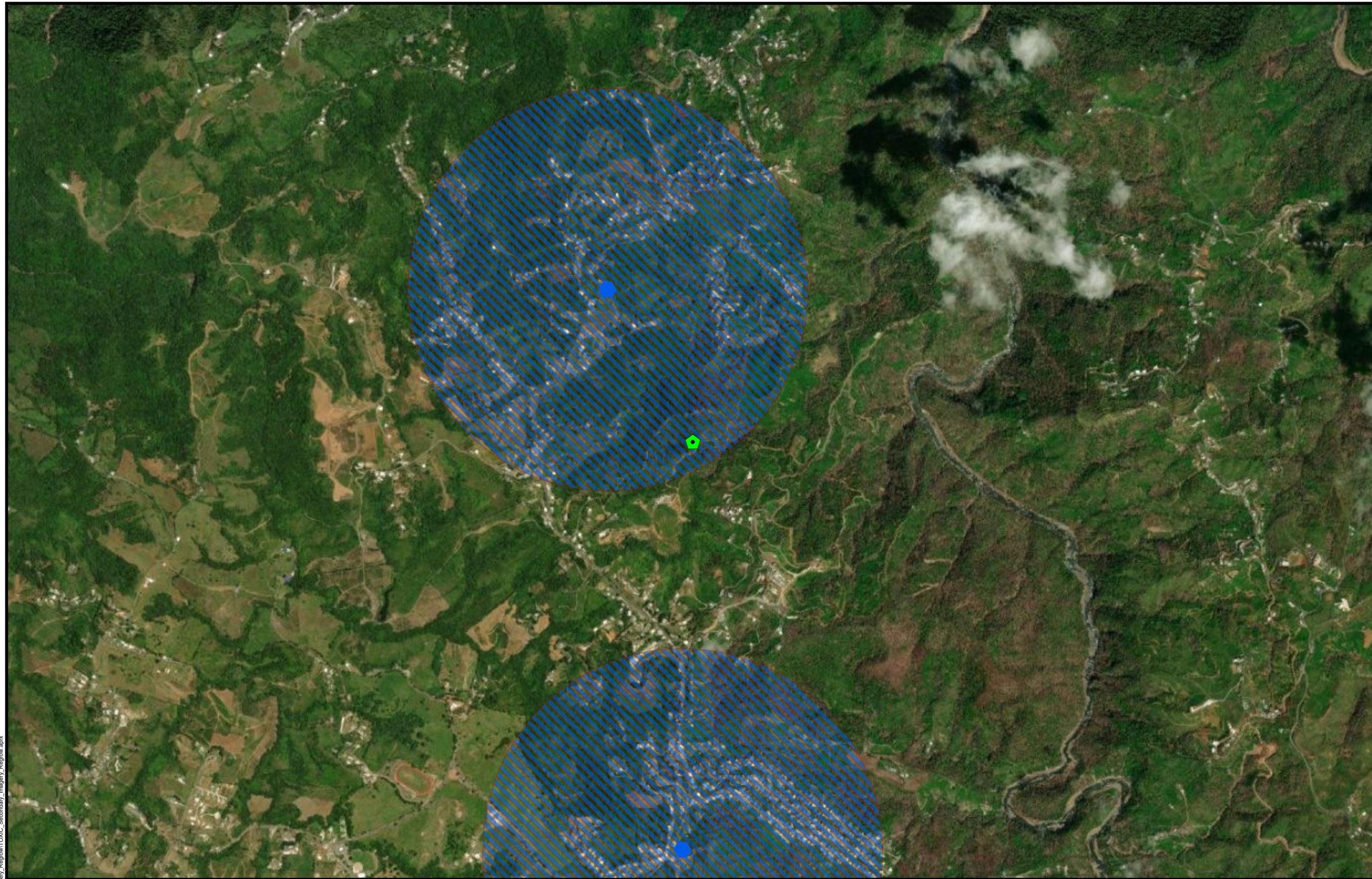


Source: NOAA's Ocean Service  
<https://data.noaa.gov>

Author: TG Date: 10/17/2023







- Legend**
- ⬠ Project Parcel
  - ⬠ 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**



**Figure 8: TOXIC CHEMICALS AND GASES, HAZARDOUS MATERIALS,  
CONTAMINATION, AND RADIOACTIVE SUBSTANCES**  
**APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720

Name of Development: Jose Francisco Alvarado Collazo

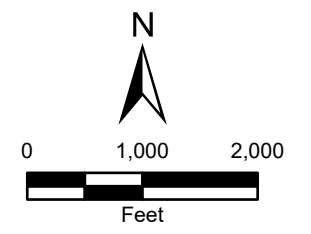
Parcel Coordinates: 18.263115, -66.393744



Source: E.P.A.

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

Author: JB/AK Date: 11/27/2023

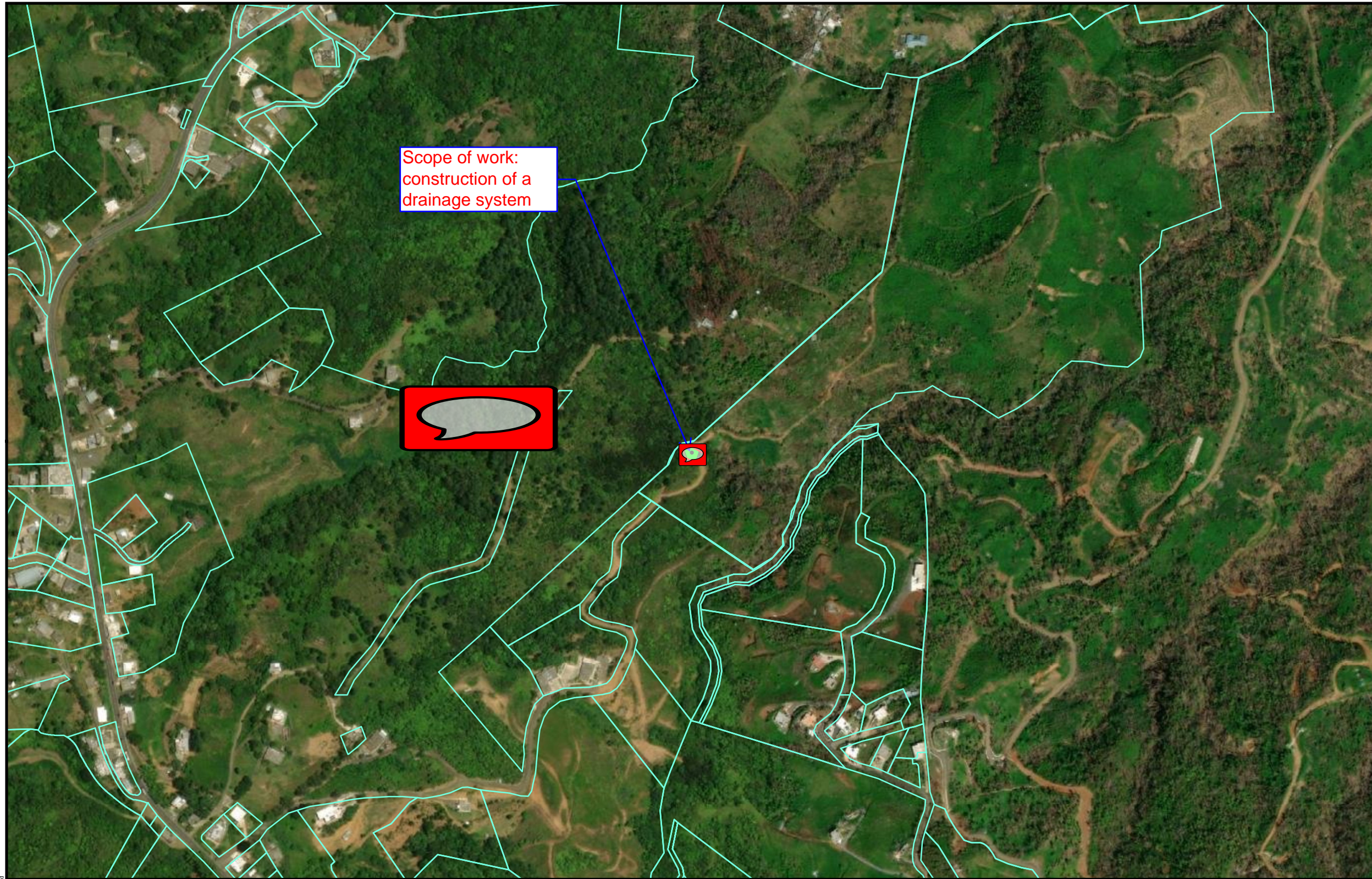


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Scope of work:  
construction of a  
drainage system

- Legend**
-  Project Parcel
  -  Parcels
  -  Area of Critical Habitat
  -  Area of Potential Effect

**PUERTO RICO**

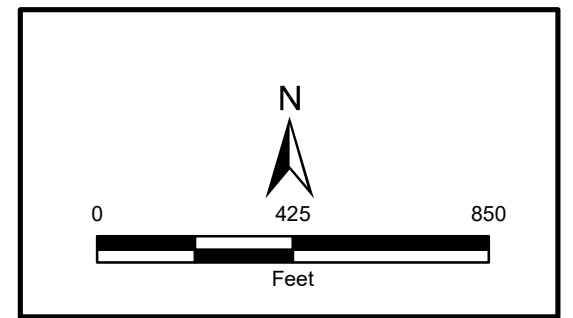


**Figure 10: ENDANGERED SPECIES ACT  
APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720

Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744



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

Author: TG Date: 2/29/2024

File Path: Z:\data\USFWS\PR\ESA\_Secundary\_Imagery\_Regrow.mxd





- Legend**
- ▣ Project Parcel
  - Common Name**
  - ▣ Puerto Rico harlequin butterfly

**Distance to Nearest Critical Habitat:**  
52469 Feet

**PUERTO RICO**



**Figure 11: CRITICAL HABITATS**  
**APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

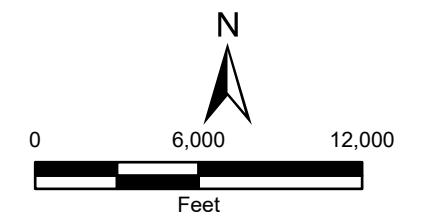
Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744



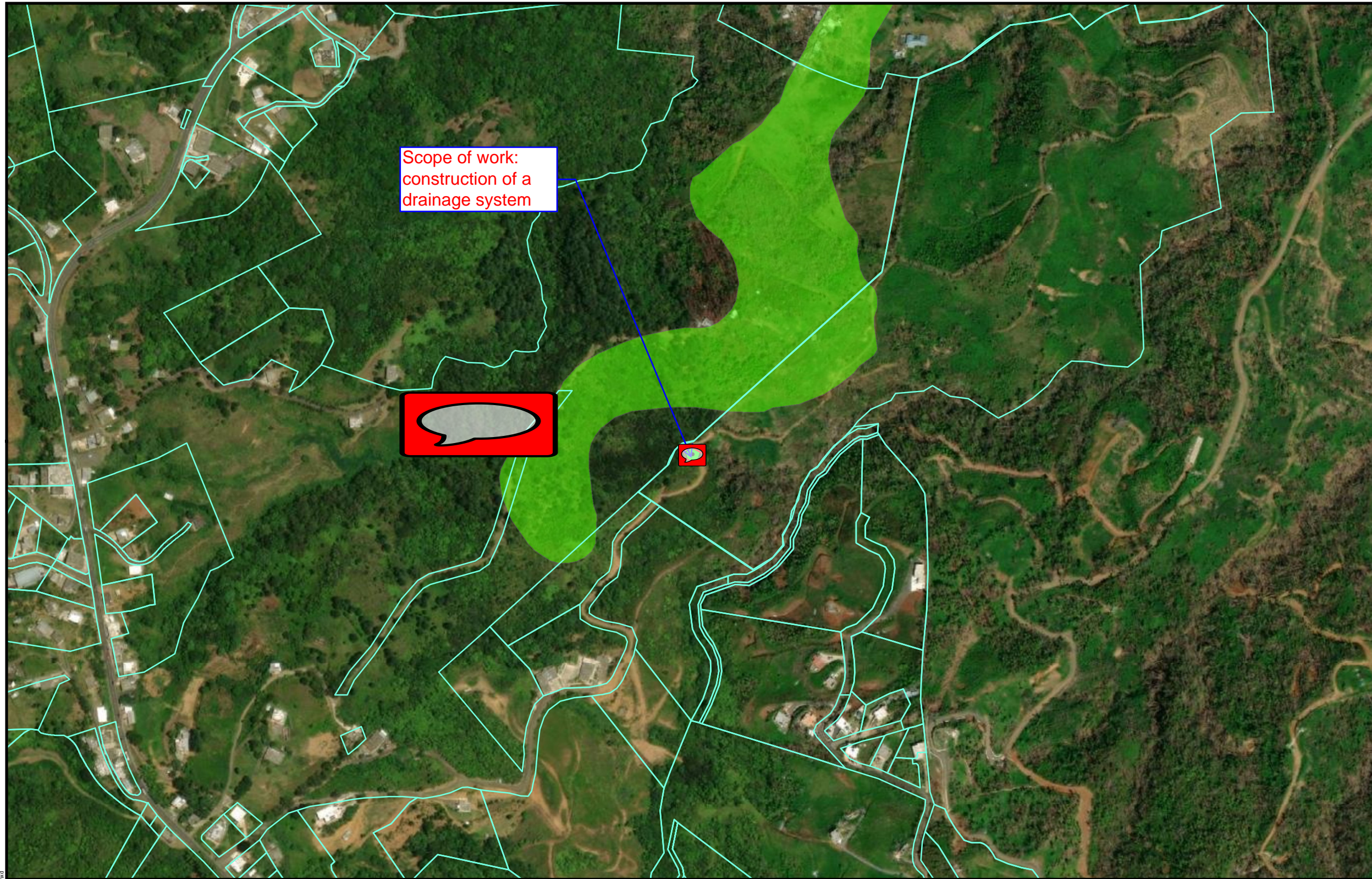
Source: U.S. FISH & WILDLIFE SERVICE  
<https://ecos.fws.gov>

Author: TG Date: 11/3/2023



File Path: Z:\data\USFWS\PR\Regrow\PR-CRITICAL\_HABITATS\_Secondary\_Imagery\_Regrow.aprx





**Legend**

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

**PUERTO RICO**



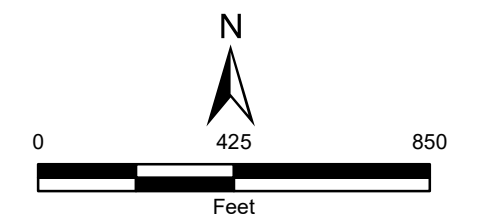
**Figure 12: FARMLAND PROTECTION**  
**APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720  
 Name of Development: Jose Francisco Alvarado Collazo  
 Parcel Coordinates: 18.263115, -66.393744

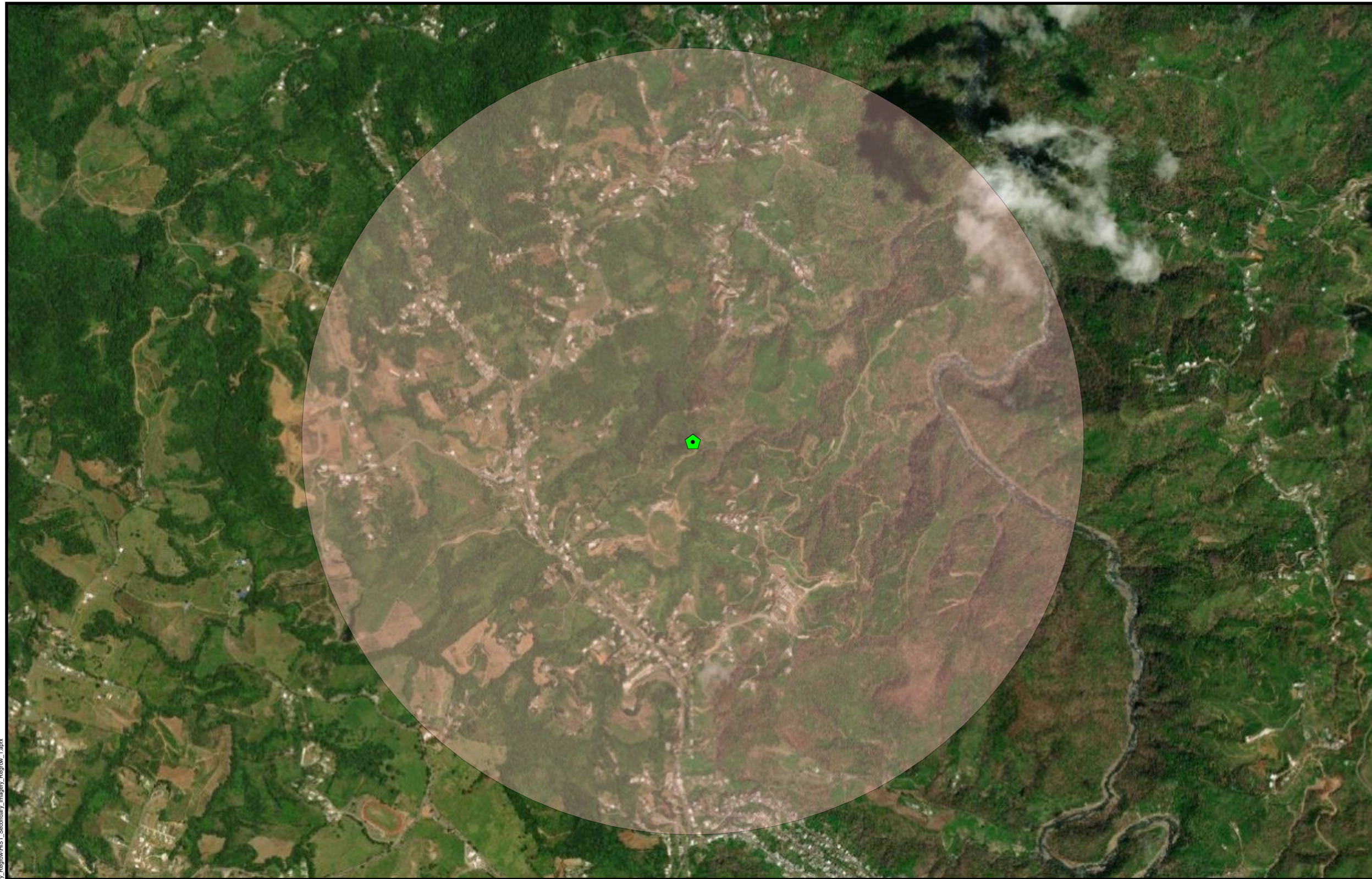


Source: USDA  
<https://websoilsurvey.sc.egov.usda.gov>

Author: TG Date: 2/29/2024







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

**PUERTO RICO**

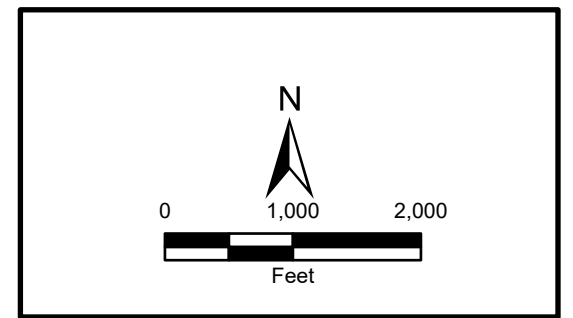


**Figure 13: HISTORIC PRESERVATION  
 APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720

Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744,

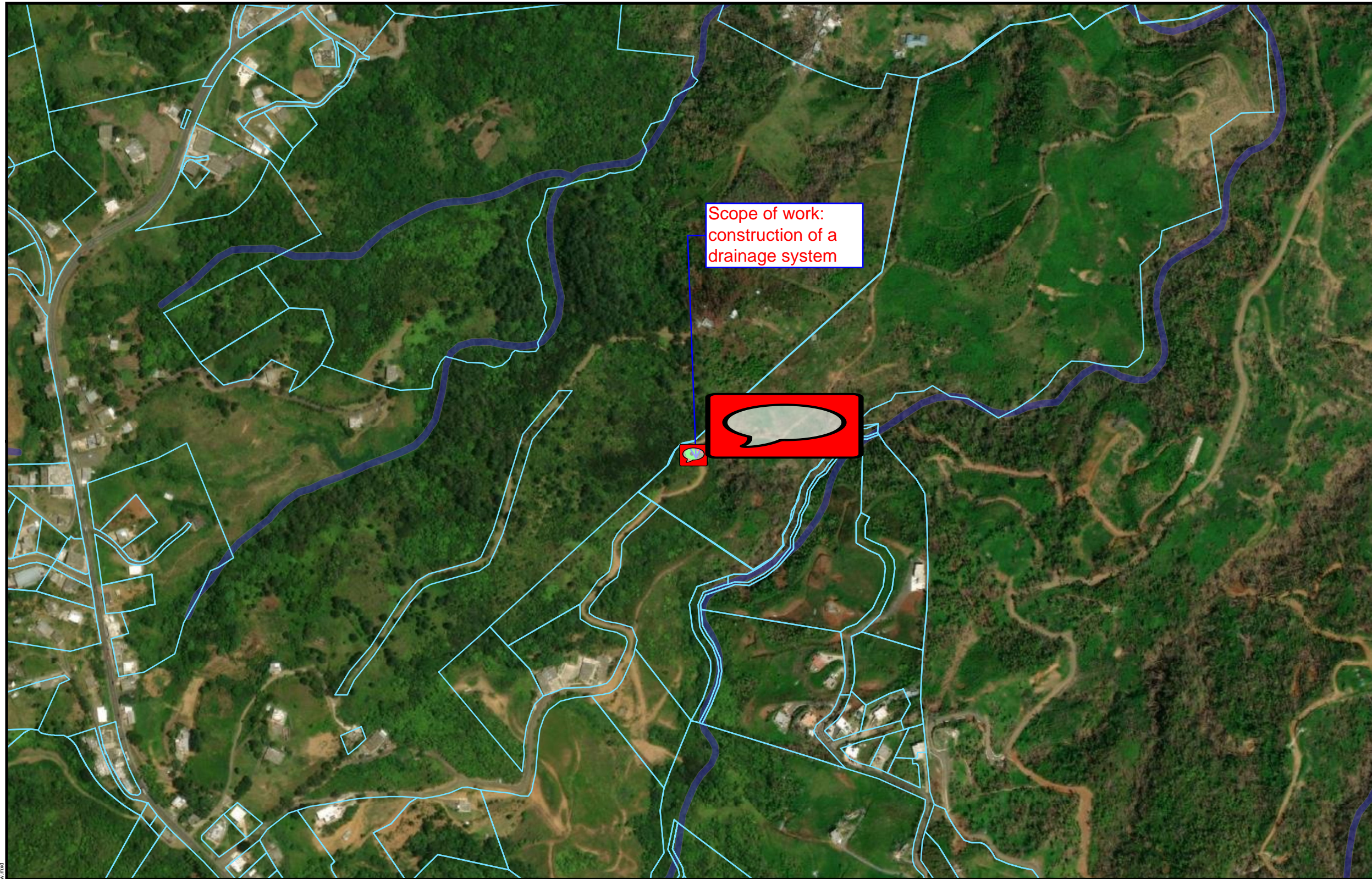


Source: National Park Service  
<https://www.nps.gov/>

Author: TG Date: 11/3/2023

File Path: Z:\data\USPRT\Tier2\Region\Map\Secondary\_Imagery\_Regional\_1.aprx





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

**PUERTO RICO**

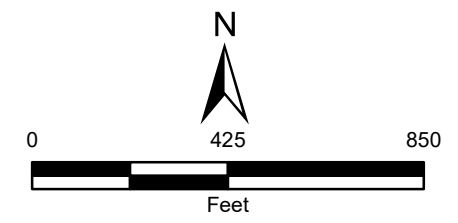


**Figure 14: WETLANDS**  
**APPLICANT ID: PR-RGRW-01026**

ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720  
 Name of Development: Jose Francisco Alvarado Collazo  
 Parcel Coordinates: 18.263115, -66.393744

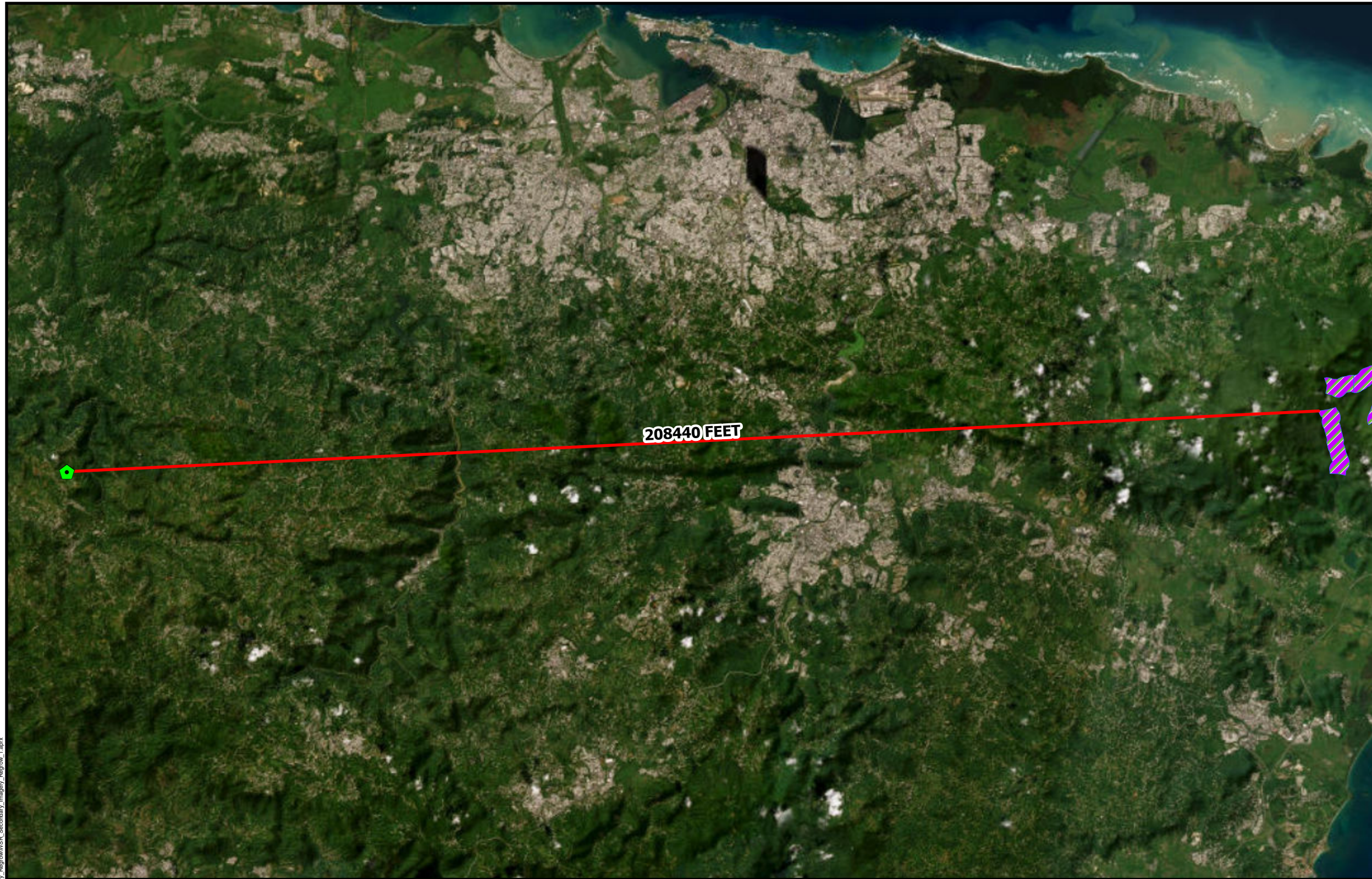


Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>  
 Author: TG Date: 2/29/2024





File Path: Z:\data\USFWS\PR\WETLANDS\_Secordary\_Imagery\_Register.mxd



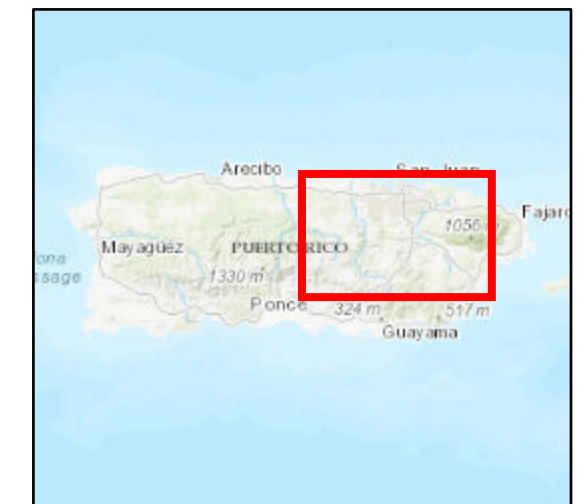


**Legend**

-  Project Parcel
-  Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River: 208440 Feet

**PUERTO RICO**



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

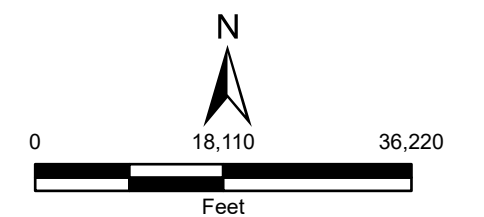
Author: TG Date: 10/23/2023

**Figure 15: WILD AND SCENIC RIVERS ACT  
 APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

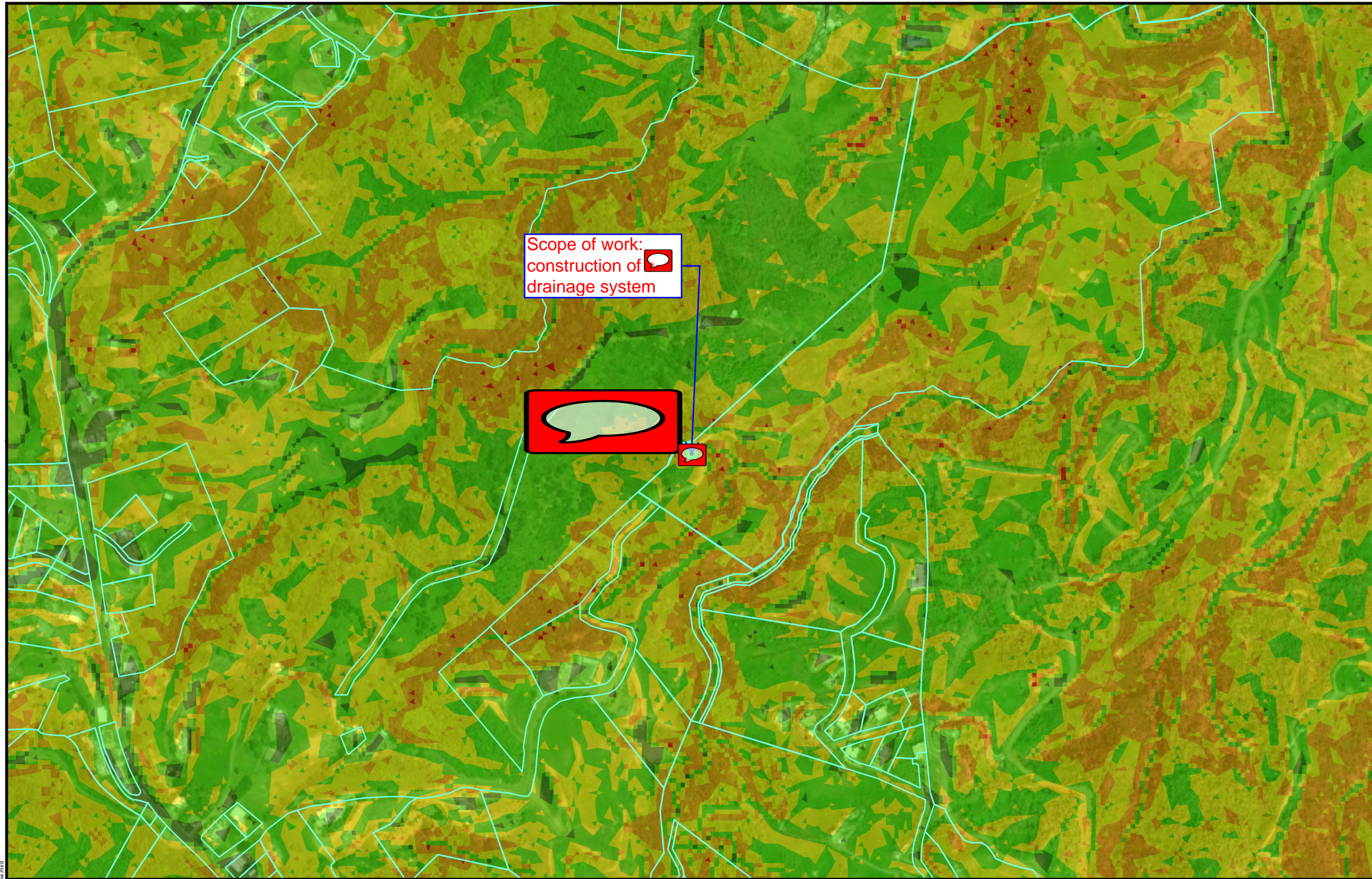
Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744



File Path: Z:\data\USFR\Tier2\Regrow\SR\_Secondary\_Imagery\_Regrow\SR\_Secondary\_Imagery\_Regrow\_1.aprx





- Legend**
- Project Parcel
  - Parcels
- Landslide Susceptibility**
- Extremely High
  - Very High
  - High
  - Moderate
  - Low
- Area of Potential Effect

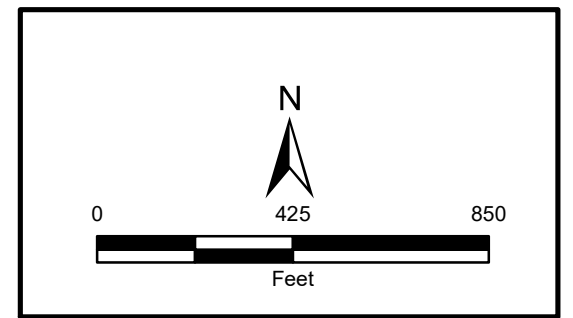
**PUERTO RICO**



**Figure 16: SLOPE AND EROSION**  
**APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

Name of Development: Jose Francisco Alvarado Collazo  
 Parcel Coordinates: 18.263115, -66.393744



Source: PRDOH  
<https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=10506ecc7f15491daee17647f19248ee>  
 Author: TG Date: 2/29/2024

File Path: Z:\external\SPRTR\Final\SLIDE\_Secundary\_Images\16\_Region.mxd





- Legend**
- ◆ Project Parcel
  - Biscayne Aquifer SSA Streamflow and Recharge Source Zones
  - Sole Source Aquifer
  - Biscayne Aquifer SSA

Distance to Nearest Aquifer:  
5,374,529 FT

**PUERTO RICO**



Source: USGS  
<https://catalog.data.gov/dataset/epa-sole-source-aquifers>

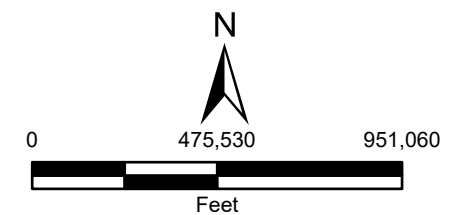
Author: TG Date: 2/27/2024

**Figure 17: SOLE SOURCE AQUIFERS**  
**APPLICANT ID: PR-RGRW-01026**

**ADDRESS: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720**

Name of Development: Jose Francisco Alvarado Collazo

Parcel Coordinates: 18.263115, -66.393744



File Path: Z:\data\USRT\Tier2\Regrow\SSA\QUIFER\_Sec\Secondary\_Imagery\_Regrow\_L1.aprx



# **APPENDIX C**

## **Additional Information**



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 29, 2024

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

\* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/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:

PUERTO RICO

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	1112131415161718192021222324	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18192021222324	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	52,441	72/137

Important Notes

Search EPA.gov

**You are here:** EPA Home

[<https://www.epa.gov/>](https://www.epa.gov/)

» Envirofacts [<https://epa.gov/>](https://epa.gov/)

» RCRAInfo

[<https://epa.gov/envirofacts/rcrainfo/>](https://epa.gov/envirofacts/rcrainfo/)

CONTACT US [<https://www.epa.gov/enviro/forms/contact-us-about-envirofacts>](https://www.epa.gov/enviro/forms/contact-us-about-envirofacts)

# RCRAInfo Facility

[Home <https://epa.gov/>](https://epa.gov/) | [Multisystem Search <https://epa.gov/envirofacts/multisystem/search>](https://epa.gov/envirofacts/multisystem/search) | [Topic](#)

[Searches <https://www.epa.gov/enviro/topic-searches>](https://www.epa.gov/enviro/topic-searches) | [System Data Searches](#)

[<https://www.epa.gov/enviro/system-data-searches>](https://www.epa.gov/enviro/system-data-searches) | [About the Data <https://www.epa.gov/enviro/about-data>](https://www.epa.gov/enviro/about-data) |

[Data Downloads <https://www.epa.gov/enviro/data-downloads>](https://www.epa.gov/enviro/data-downloads) | [Widgets <https://www.epa.gov/enviro/widgets>](https://www.epa.gov/enviro/widgets) |

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[Other Datasets <https://www.epa.gov/enviro/other-datasets>](https://www.epa.gov/enviro/other-datasets)

## Facility Information

**KAUFEL INTERNATIONAL INC**

**Handler ID: PRD987378981**

**CARR 155 KM 31.0 - BARRIO GATO**

**OROCOVIS, PR 00720**

**County Name: OROCOVIS**

**Latitude: 18.269343**

**Longitude: -66.397411**

**Hazardous Waste Generator:**

**Owner Name: FOMENTO INDUSTRIAL**

**DE PR**

# BIENNIAL REPORT SUMMARY

No Biennial Report data is available for the facility listed above.

## LIST OF FACILITY CONTACTS

NAME	STREET	CITY	STATE	ZIP CODE
	PO BOX 2109	OROCOVIS	PR	00720-21
	PO BOX 2109	OROCOVIS	PR	00720-21



## HANDLER / FACILITY CLASSIFICATION

Unspecified Universe for the facility listed above.

HANDLER TYPE
Not in a universe

## LIST OF PROCESS UNIT INFORMATION FOR GROUP

[https://epa.gov/envirofacts/metadata/table/rcra/rcr\\_pm\\_unit](https://epa.gov/envirofacts/metadata/table/rcra/rcr_pm_unit)

No Process Information is available for the facility listed above.

## LIST OF NAICS CODES AND DESCRIPTIONS

No NAICS Codes are available for the facility listed above.

## LIST OF WASTE CODES AND DESCRIPTIONS

No Waste Codes are available for the facility listed above.





## Discover.

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<https://www.epa.gov/accessibility/epa-accessibility-statement>

### Budget & Performance

<https://www.epa.gov/planandbudget>

### Contracting

<https://www.epa.gov/contracting>

### EPA www Web Snapshot

<https://www.epa.gov/utilities/wwwepagov-snapshots>

### Grants

<https://www.epa.gov/grants>

### No FEAR Act Data

<https://www.epa.gov/ocr/whistleblower-protections-epa-and-how-they-relate-non-disclosure-agreements-signed-epa>

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<https://www.epa.gov/web-policies-and-procedures/plain-writing>

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### Frequent Questions

<https://www.epa.gov/home/frequent-questions-specific-epa-programstopics>

## Follow.



Last updated on March 14, 2024





# Detailed Facility Report

## Facility Summary

KAUFEL INTERNATIONAL INC

PR-155 KM 31.0 BO GATO, OROCOVIS, PR  
00720

FRS (Facility Registry Service) ID: 110004890048

EPA Region: 02

Latitude: 18.269343

Longitude: -66.397411

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

## Enforcement and Compliance Summary

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): No Information

## Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

**Resource Conservation and Recovery Act (RCRA):** Inactive Other, (PRD987378981) **Compliance and Emissions Data Reporting Interface (CEDRI):**

**Safe Drinking Water Act (SDWA):** No Information No Information

Go To Enforcement/Compliance Details

Known Data Problems <<https://epa.gov/resources/echo-data/known-data-problems>>

## Facility/System Characteristics

### Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004890048					N	18.269343	-66.397411
RCRAInfo	RCRA	PRD987378981	Other	Inactive ( )			N	18.269343	-66.397411

### Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		110004890048	KAUFEL INTERNATIONAL INC	PR-155 KM 31.0 BO GATO, OROCOVIS, PR 00720	Orocovis Municipio
RCRAInfo	RCRA	PRD987378981	KAUFEL INTERNATIONAL INC	CARR 155 KM 31.0 - BARRIO GATO, OROCOVIS, PR 00720	Orocovis Municipio

### Facility SIC (Standard Industrial Classification) Codes

No data records returned

System	Identifier	SIC Code	SIC Description
--------	------------	----------	-----------------

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

No data records returned

System	Identifier	NAICS Code	NAICS Description
--------	------------	------------	-------------------

### Facility Tribe Information

No data records returned

Reservation Name	Tribe Name	EPA Tribal ID	Distance to Tribe (miles)
------------------	------------	---------------	---------------------------

## Enforcement and Compliance

### Compliance Monitoring History

Last 5 Years

No data records returned

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
---------	-----------	--------	---------------	----------------------------	-------------	------	-------------------------

Entries in italics are not included in ECHO's Compliance Monitoring Activity counts because they are not compliance monitoring strategy <<https://www.epa.gov/compliance/compliance-monitoring-programs>> activities or because they are not counted as inspections within EPA's Annual Results <<https://www.epa.gov/enforcement/enforcement-data-and-results>>.

### 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
RCRA	PRD987378981	No	03/09/2024	0	03/08/2024

## 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+
	RCRA (Source ID: PRD987378981)	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	04/01-06/30/23	07/01-09/30/23	10/01-12/31/23	01/01-03/31/24
	Facility-Level Status	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
	Violation	Agency											

## Informal Enforcement Actions

Last 5 Years

No data records returned

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

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

## Formal Enforcement Actions

Last 5 Years

No data records returned

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 Value	Comp Action Cost
---------	--------	-------------	-----------	----------------	----------	-------------	-----------	-------------------	---------------------	------------------------	--------------------------	------------------------------	--------------------------	-----------	------------------

## Environmental Conditions

### Watersheds

No data records returned

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?
--	---	---	---------------------------------	--------------------------------------	--	---

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

No data records returned

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Ecological Use	Fish Consumption Use	Recreation Use	Other Use
-------	--------------	--------------------	----------------------	-----------------	-----------------------	--------------------	----------------	----------------------	----------------	-----------

### Air Quality Nonattainment Areas

No data records returned

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

## Pollutants

## Toxics Release Inventory History of Reported Chemicals Released



## or Transferred in Pounds per Year at Site

No data records returned

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

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

No data records returned

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

## Community

### Environmental Justice

This section shows indexes from EJScreen, EPA's screening tool for environmental justice (EJ) concerns. EPA uses these indexes to identify geographic areas that may warrant further consideration or analysis for potential EJ concerns. 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.

#### EJScreen Indexes Shown

Compare to  US  State

Index Type  Environmental Justice  Supplemental

#### Related Reports

EJScreen Community Report

Download Data

Census Block Group ID: 721079548012	US (Percentile)	
Supplemental Indexes	Facility Census Block Group	1-mile Max
<b>Count of Indexes At or Above 80th Percentile</b>	<b>5</b>	<b>6</b>
Particulate Matter 2.5	0	--
Ozone	0	--
Diesel Particulate Matter	6	10
Air Toxics Cancer Risk	38	38
Air Toxics Respiratory Hazard Index	23	37
Toxic Releases to Air	<b>1</b> 99	<b>1</b> 99
Traffic Proximity	55	70
Lead Paint	0	<b>1</b> 93
Risk Management Plan (RMP) Facility Proximity	<b>1</b> 98	<b>1</b> 99
Hazardous Waste Proximity	52	60
Superfund Proximity	<b>1</b> 99	<b>1</b> 99
Underground Storage Tanks (UST)	<b>1</b> 96	<b>1</b> 96
Wastewater Discharge	<b>1</b> 99	<b>1</b> 99

Facility 1-mile Radius  Facility Census Block Group





Earthstar Geographics | Esri, TomTom, Garmin, Foursquare, SafeGraph, GeoTechnolog... Powered by Esri <<http://www.esri.com/>>

## Demographic Profile of Surrounding Area (1-Mile Radius)

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 2017 - 2021 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 <<https://epa.gov/help/reports/dfr-data-dictionary#demographic>>.

General Statistics (U.S. Census)		Age Breakdown (U.S. Census) - Persons (%)	
Total Persons	1,520	Children 5 years and younger	93 (6%)
Population Density	485/sq.mi.	Minors 17 years and younger	384 (25%)
Housing Units in Area	607	Adults 18 years and older	1,136 (75%)
		Seniors 65 years and older	159 (10%)
General Statistics (ACS (American Community Survey))		Race Breakdown (U.S. Census) - Persons (%)	
Total Persons	1,436	White	1,338 (88%)
Percent People of Color	100%	African-American	68 (4%)
Households in Area	386	Hispanic-Origin	1,514 (100%)
Households on Public Assistance	33	Asian/Pacific Islander	0 (0%)
Persons With Low Income	1,345	American Indian	4 (0%)
Percent With Low Income	94%	Other/Multiracial	109 (7%)
Geography			
Radius of Selected Area	1 mi.		
Center Latitude	18.269343		

<b>Geography</b>	
Center Longitude	-66.397411
Land Area	100%
Water Area	0%
<b>Income Breakdown (ACS (American Community Survey)) - Households (%)</b>	
Less than \$15,000	189 (48.84%)
\$15,000 - \$25,000	66 (17.05%)
\$25,000 - \$50,000	84 (21.71%)
\$50,000 - \$75,000	45 (11.63%)
Greater than \$75,000	3 (.78%)

<b>Education Level (Persons 25 &amp; older) (ACS (American Community Survey)) - Persons (%)</b>	
Less than 9th Grade	154 (16.58%)
9th through 12th Grade	72 (7.75%)
High School Diploma	356 (38.32%)
Some College/2-year	66 (7.1%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	190 (20.45%)

# EJScreen Community Report

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

## Orocovis Municipio, PR

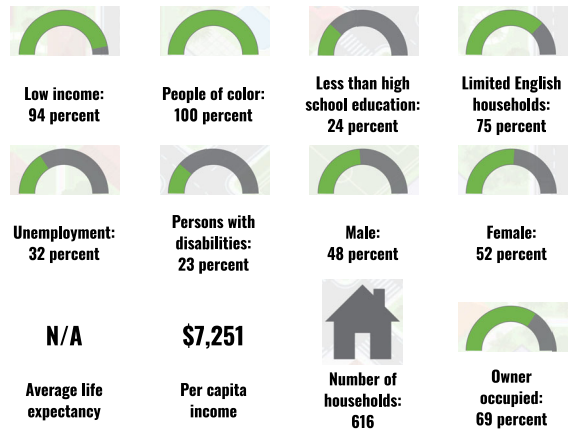
1 mile Ring around the Area  
Population: 2,271  
Area in square miles: 3.22

A3 Landscape



March 12, 2024  
PR-RGRW-01026  
Search Result (point)  
1:282  
0 0.01 0.02 0.01 mi  
0 0.01 0.02 0.02 km  
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, HERE, Garmin, IGC

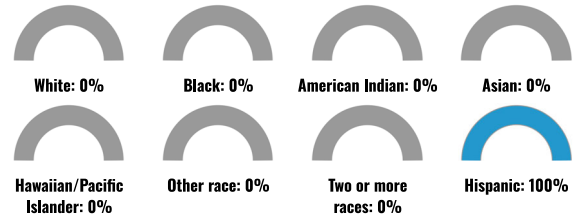
### COMMUNITY INFORMATION



### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	2%
Spanish	98%
Total Non-English	98%

### BREAKDOWN BY RACE



### BREAKDOWN BY AGE



### LIMITED ENGLISH SPEAKING BREAKDOWN



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

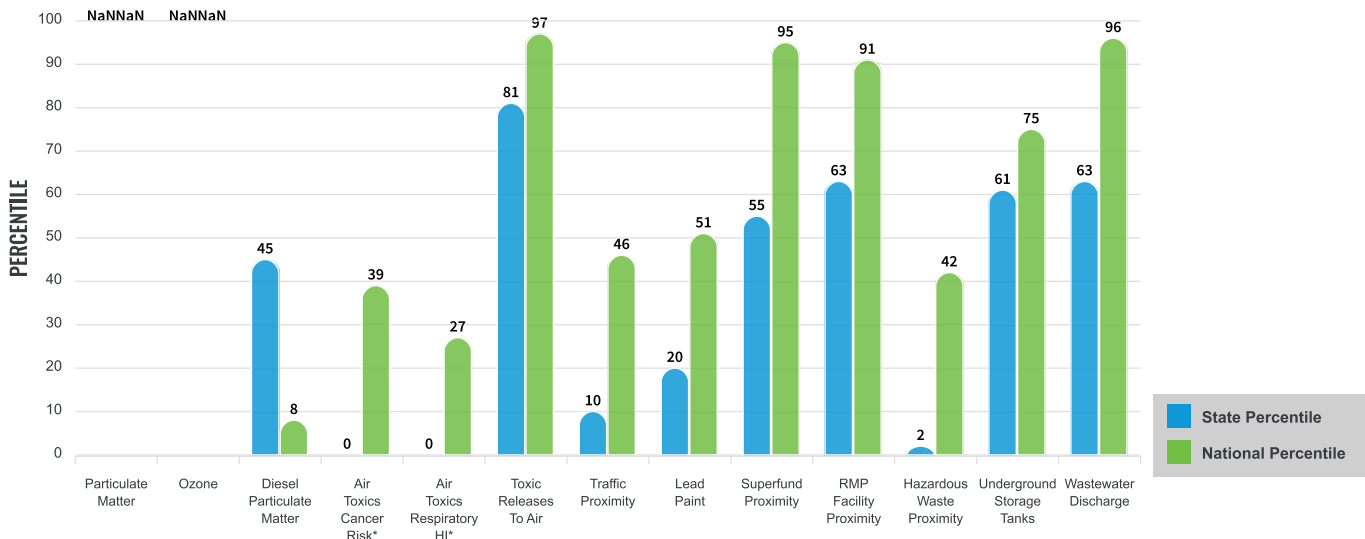
# Environmental Justice & Supplemental Indexes

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

## EJ INDEXES

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

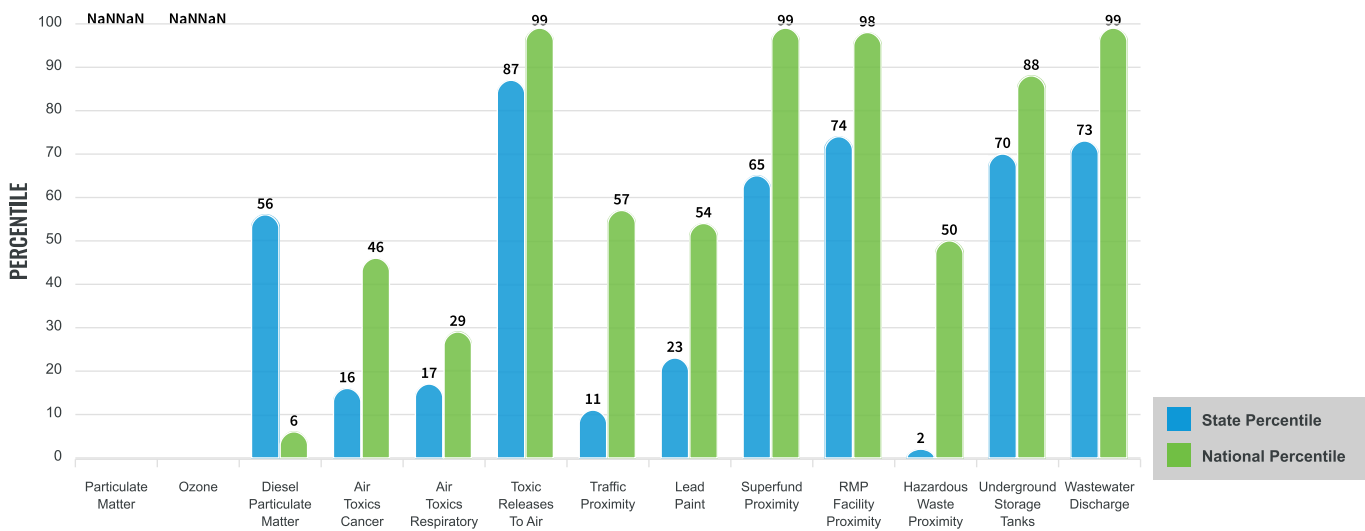
### EJ INDEXES FOR THE SELECTED LOCATION



## SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

### SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



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

Report for 1 mile Ring around the Area



# EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
<b>POLLUTION AND SOURCES</b>					
Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	N/A	N/A	N/A	8.08	N/A
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A
Diesel Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	0.0288	0.0667	39	0.261	1
Air Toxics Cancer Risk* (lifetime risk per million)	13	20	0	25	1
Air Toxics Respiratory HI*	0.13	0.19	0	0.31	1
Toxic Releases to Air	1,600	4,300	71	4,600	67
Traffic Proximity (daily traffic count/distance to road)	6.4	180	8	210	13
Lead Paint (% Pre-1960 Housing)	0.028	0.16	24	0.3	21
Superfund Proximity (site count/km distance)	0.08	0.15	50	0.13	59
RMP Facility Proximity (facility count/km distance)	0.2	0.47	55	0.43	58
Hazardous Waste Proximity (facility count/km distance)	0.053	0.76	2	1.9	10
Underground Storage Tanks (count/km <sup>2</sup> )	0.38	1.7	61	3.9	37
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0063	2.3	55	22	63
<b>SOCIOECONOMIC INDICATORS</b>					
Demographic Index	97%	83%	89	35%	99
Supplemental Demographic Index	56%	43%	84	14%	99
People of Color	100%	96%	31	39%	98
Low Income	94%	70%	89	31%	99
Unemployment Rate	32%	15%	88	6%	98
Limited English Speaking Households	76%	67%	64	5%	99
Less Than High School Education	24%	21%	60	12%	86
Under Age 5	6%	4%	78	6%	59
Over Age 64	13%	22%	16	17%	37
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A

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

## Sites reporting to EPA within defined area:

Superfund .....	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities .....	0
Water Dischargers .....	1
Air Pollution .....	0
Brownfields .....	0
Toxic Release Inventory .....	0

## Other community features within defined area:

Schools .....	1
Hospitals .....	0
Places of Worship .....	0

## Other environmental data:

Air Non-attainment .....	No
Impaired Waters .....	Yes

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

Report for 1 mile Ring around the Area

# EJScreen Environmental and Socioeconomic Indicators Data

## HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	6.1	N/A
Asthma	N/A	N/A	N/A	10	N/A
Cancer	N/A	N/A	N/A	6.1	N/A
Persons with Disabilities	23.6%	21.6%	60	13.4%	93

## CLIMATE INDICATORS

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

## CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	26%	32%	42	14%	83
Lack of Health Insurance	4%	7%	22	9%	29
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Report for 1 mile Ring around the Area

**APPENDIX D**  
Endangered Species

Date: January 23, 2024

Applicant ID: PR-RGRW-01026

Street Address: CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA

Municipality: Orocovis

### **Subject – Endangered Species No Effect Determination for PR-RGRW-01026**

Tetra Tech conducted a site-specific review of endangered species in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 *et seq.*) for the proposed project located at CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, in the Municipality of Orocovis, Puerto Rico (Parcel ID# 193-000-004-76).

The proposed project consists of construction of a drainage system in the coordinates 18.263115, -66.393744. This drainage system will consist of corrugated PVC tube of 24" of diameter and 20' long. This tube will be buried at approximately 6 feet underground. Two concrete head walls at the begins and in the end will be installed to connect the tube. This drainage system will improv the rainwater runoff from the high adjacent elevation and avoid future damaged of the farm road.

Surrounding landscape of the project area is heavily forested on all sides, to the south west there is a roadway with residential homes. No trees are located within the area where the drainage system will be placed and therefore there will be no effect to the habitat for nesting birds, nor arboreal snakes. The area where the drainage system will be placed currently has a farm roadway running through the area, this project will help improve the roadway. Trees will not be removed during this project.

The National Wetlands Inventory indicated that no wetlands are located within the parcel (Figure 14).

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

<b>Species</b>	<b>Status</b>
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	Endangered
Puerto Rican Broad-winged Hawk ( <i>Buteo platypterus brunnescens</i> )	Endangered
Puerto Rican Parrot ( <i>Amazona vittate</i> )	Endangered

No Critical Habitats were noted within the project area (Figure 10). Based on site review and site photos, suitable habitat was found within the proposed project area for the Puerto Rican Boa however the scope of work will have no effect on the habitat. Based on the nature of the project, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, we have made the following effects determinations:

<b>Species</b>	<b>Effect Determination</b>	<b>Conservation Measures to be implemented (if needed)</b>
Puerto Rican Boa ( <i>Chilabothrus inornatus</i> )	No Effect	No Conservation Measures
Puerto Rican Broad-winged Hawk ( <i>Buteo platypterus brunnescens</i> )	No Effect	No Conservation Measures
Puerto Rican Parrot ( <i>Amazona vittate</i> )	No Effect	No Conservation Measures

A 'No Effect' determination has been made based on the lack of potential effect to the habitat for the Puerto Rican Boa, Puerto Rican Broad-winged Hawk, and Puerto Rican Parrot as well as previous disturbance and current land use of the proposed project area.

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

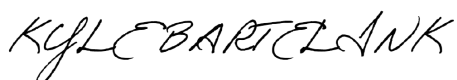
If a Puerto Rican Broad-winged Hawk is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

If a Puerto Rican Parrot is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

**Attachments:**

IPaC Resource List

Kyle Bartelink



B.S. Biologist, Tetra Tech





## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Caribbean Ecological Services Field Office  
Post Office Box 491  
Boqueron, PR 00622-0491  
Phone: (787) 834-1600 Fax: (787) 851-7440  
Email Address: [CARIBBEAN\\_ES@FWS.GOV](mailto:CARIBBEAN_ES@FWS.GOV)

In Reply Refer To:  
Project Code: 2024-0049851  
Project Name: PR-RGRW-01026

February 15, 2024

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

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

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

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

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

to [caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov). To obtain guidance for completing this process and the minimum requirements for project packages, please visit:

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

When a federal agency, after discussions with the Service, determines that the proposed action is not likely to adversely affect any listed species, or adversely modify any designated critical habitat, and the Service concurs, the informal consultation is complete, and the proposed project moves ahead. If the proposed action is suspected to affect a listed species or modify designated critical habitat, the Federal agency may then prepare a Biological Assessment (B.A.) to assist in its determination of the project's effects on species and their habitat. However, a B.A. is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a B.A. where the agency provides the Service with an evaluation on the likely effects of the action to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a B.A. are described at 50 CFR 402.12.

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

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

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species.

This list is provided pursuant to Section 7 of the Endangered Species Act and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action". Please use this list to determine whether your project requires consultation and to make your effects determination. For more guidance, use the Guideline for Consultation under Section 7 of the Endangered Species Act with the Caribbean Ecological Services Field Office by clicking [here](#).

This species list is provided by:



Caribbean Ecological Services Field Office

[caribbean\\_es@fws.gov](mailto:caribbean_es@fws.gov)

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

## OFFICIAL SPECIES LIST

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

This species list is provided by:

**Caribbean Ecological Services Field Office**

Post Office Box 491

Boqueron, PR 00622-0491

(787) 834-1600

## PROJECT SUMMARY

Project Code: 2024-0049851

Project Name: PR-RGRW-01026

Project Type: Restoration / Enhancement - Agricultural

Project Description: The proposed project consists of construction of a drainage system in the coordinates 18.263115, -66.393744. This drainage system will consist of corrugated PVC tube of 24" of diameter and 20' long. This tube will be buried at approximately 6 feet underground. Two concrete head walls at the begins and in the end will be installed to connect the tube. This drainage system will improve the rainwater runoff from the high adjacent elevation and avoid future damaged of the farm road.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.26300055,-66.39387852959499,14z>



Counties: Orocovis County, Puerto Rico



## ENDANGERED SPECIES ACT SPECIES

There is a total of 3 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

## BIRDS

NAME	STATUS
Puerto Rican Broad-winged Hawk <i>Buteo platypterus brunnescens</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/5512">https://ecos.fws.gov/ecp/species/5512</a>	Endangered
Puerto Rican Parrot <i>Amazona vittata</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/3067">https://ecos.fws.gov/ecp/species/3067</a>	Endangered

## REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/6628">https://ecos.fws.gov/ecp/species/6628</a> General project design guidelines: <a href="https://ipac.ecosphere.fws.gov/project/PURYAW5O2JCMTAOC6J367KH76U/documents/generated/7159.pdf">https://ipac.ecosphere.fws.gov/project/PURYAW5O2JCMTAOC6J367KH76U/documents/generated/7159.pdf</a>	Endangered

## CRITICAL HABITATS

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

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

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

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

## BALD & GOLDEN EAGLES

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

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

## MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty 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<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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



## WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

## **IPAC USER CONTACT INFORMATION**

Agency: Tetra Tech  
Name: Kyle Bartelink  
Address: 2301 Lucien Way  
City: Maitland  
State: FL  
Zip: 32751  
Email: [kyle.bartelink@tetratech.com](mailto:kyle.bartelink@tetratech.com)  
Phone: 4072523619



# APPENDIX E

## Section 106 Consultation



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

Executive Director | Carlos A. Rubio-Cancela | [carubio@prshpo.pr.gov](mailto:carubio@prshpo.pr.gov)

March 06, 2024

**Lauren Bair Poche**

HORNE- Architectural Historian Manager  
10000 Perkins Rowe, Suite 610 Bldg G  
Baton Rouge, LA 70810

SHPO: CF-02-29-24-01 PUERTO RICO DISASTER RECOVERY, CDBG-DR RE-GROW PR URBAN-RURAL AGRICULTURAL RE-GROW PROGRAM, PR-RGRW-01026, JOSÉ FRANCISCO ALVARADO COLLAZO, CARR. 155 KM 33.6, BO. GATO, SECTOR MARÍA AUXILIADORA, OROCOVIS, PUERTO RICO

Dear Ms. Poche,

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

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

Please note that should the Agency discover any 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/LGC





February 29, 2024

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

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

**Section 106 NHPA Effect Determination Submittal: PR-RGRW-01026 – Jose Francisco Alvarado Collazo – CARR 155 KM 33.6, Barrio Gato, Sector Maria Auxiliadora, Orocovis, Puerto Rico – *No Historic Properties Affected***

Dear Architect Rubio Cancela,

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

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Jose Francisco Alvarado Collazo located at CARR 155 KM 33.6, Barrio Gato, Sector Maria Auxiliadora, in the municipality of Orocovis. The undertaking for this project includes the construction of a new drainage system to improve the management of the stormwater runoff and mitigate the existing and future landslide damage to the farm's internal unpaved road. The drainage system consists of the installation of 20 feet of 24-inch diameter corrugated PVC drainage pipe to be installed at an approximate depth of 6 foot (ft) and the on-site construction of two concrete header walls to be installed at either end of the drainage pipe. The typical header wall for a 24-inch pipe measures 6.5 x 5.5 x 4.25 feet and serves to stabilize both the pipe and surrounding soil. The final size of the header wall may vary due to site condition and drainage requirements.

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

Please contact me by email at [lauren.poche@horne.com](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, EHP Senior Manager  
LBP/JLE

Attachments



<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>RE-GROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Subrecipient:</b> Jose Francisco Alvarado Collazo		
<b>Case ID:</b> PR-RGRW-01026		<b>City:</b> Orocovis

<b>Project Location:</b> CARR 155 KM 33.6, BARRIO GATO, SECTOR MARIA AUXILIADORA, OROCOVIS, PR 00720	
<b>Project Coordinates:</b> 18.263115, -66.393744	
<b>TPID (Número de Catastro):</b> 193-000-004-76-000	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> n/a	<b>Property Size (acres):</b> 48.5

<b>SOI-Qualified Archaeologist:</b> Pollyanna Clark, MA, RPA
<b>Date Reviewed:</b> 2/5/2024


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

### Project Description (Undertaking)

The intent use of grant funds for this project includes the construction of a drainage system for farm operations. The potential impacts associated with the purchase and installation of the drainage system are included in the analyses below. The land has been used in the past and is currently used for the growing of plantains.

The Scope of Work (SOW) of the project includes the construction of a drainage system at coordinates 18.263115, -66.393744. The purpose of the drainage is to improve the management of the stormwater runoff to mitigate the existing and future landslide damage caused to the farm's internal unpaved road. The drainage system consists of the installation of 20 feet of 24-inch diameter corrugated PVC drainage pipe to be installed at an approximate depth of 6 foot (ft) and the on-site construction of two concrete header walls to be installed at either end of the drainage pipe. The typical header wall for a 24-inch pipe measures 6.5 x 5.5 x 4.25 feet and serves to stabilize both the pipe and surrounding soil. The final size of the header wall may vary due to site condition and drainage requirements.

No electrical or water connection is needed for the proposed SOW. Field has not been graded.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>RE-grow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Jose Francisco Alvarado Collazo	
<b>Case ID:</b> PR-RGRW-01026	<b>City:</b> Orocovis

## Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the proposed location of the new drainage system with a 15-meter buffer to allow for variation in the final placement of the drainage system. 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 no archaeological sites have been identified within the quarter-mile radius from the project. One archaeological survey was conducted at a location 0.24 miles southwest of the project area, titled "Proyecto Alcantarillado Sanitario" (SHPO ID#12-19-00-01) by Juan Gonzalez Colon in 2001, with reported negative results.

The APE is comprised of Maricao clay soil (MoF) with slopes ranging from 20 to 60 percent. This well-drained soil type is characterized by a very-fine and mixed texture, primarily found on summits and side slopes.

Considering these soil conditions and the absence of archaeological sites within a quarter mile of the project area, the likelihood of discovering new, intact, and significant archaeological sites within the APE is assessed as low to moderate.


### Determination

The following historic properties have been identified within the APE:

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


The project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. There are no



<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>RE-grow PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Jose Francisco Alvarado Collazo	
<b>Case ID:</b> PR-RGRW-01026	<b>City:</b> Orocovis

reported archaeological materials or significant cultural properties within a quarter-mile radius of the proposed project location. No known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-01026 is located.

The topography characterized by steep slopes and the soil composition, combined with the absence of archaeological sites, as well as a lack of archaeological evidence from prior investigations in the quarter-mile search radius, indicate a low to moderate potential for the discovery of new, well-preserved archaeological sites within the APE. Therefore, no historic properties will be affected by the proposed project activities.

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>ReGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
<b>Subrecipient:</b> Jose Francisco Alvarado Collazo	
<b>Case ID:</b> PR-RGRW-01026	<b>City:</b> Orocovis

**Recommendation**

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

No Historic Properties Affected

No Adverse Effect

Condition (if applicable):

Adverse Effect

Proposed Resolution (if applicable)

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

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









Subrecipient: Jose Francisco Alvarado Collazo

Case ID: PR-RGRW-01026

City: Orocovis

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







**TETRA TECH**

Source: USGS

Author: TG

Date: 9/19/2023

#### Legend

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







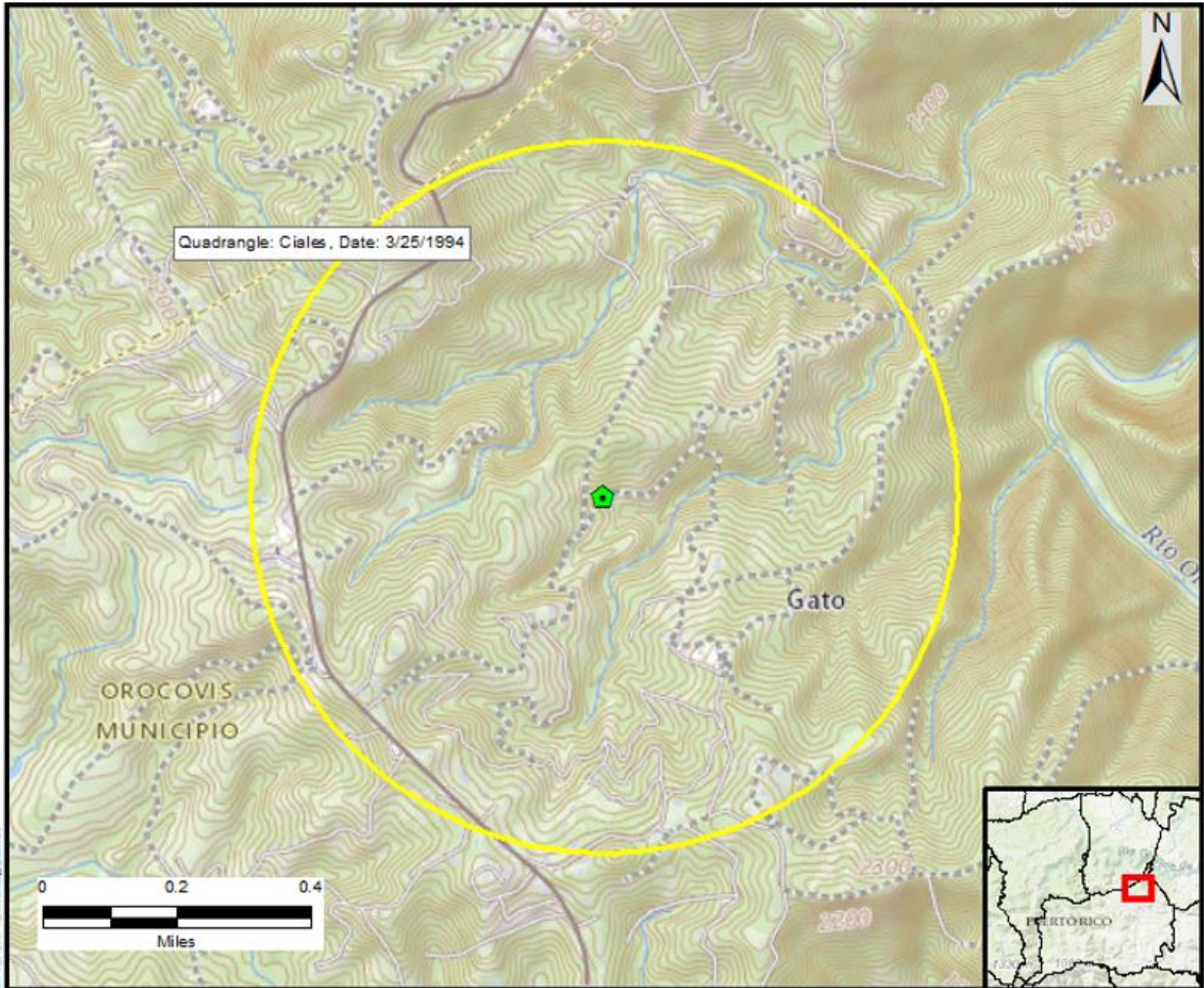


Subrecipient: Jose Francisco Alvarado Collazo

Case ID: PR-RGRW-01026

City: Orocovis

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



Map Data: 1994 USGS 7.5-MINUTE QUADRANGLE, CIALES, PR. DATE: 3/25/1994. SOURCE: NATIONAL PARK SERVICE.



Source: National Park Service

Author: TG

Date: 7/21/2023

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



Subrecipient: Jose Francisco Alvarado Collazo

Case ID: PR-RGRW-01026

City: Orocovis

### Photograph Key



**Subrecipient:** Jose Francisco Alvarado Collazo

**Case ID:** PR-RGRW-01026

**City:** Orocovis



**Photo #:** 1

**Description (include direction):** Scope of work: Construction of a drainage system, view to the southwest.

**Date:** 12/18/2023



**Photo #:** 2

**Description (include direction):** Scope of work: Construction of a drainage system, view to the northeast.

**Date:** 12/18/2023



Subrecipient: Jose Francisco Alvarado Collazo

Case ID: PR-RGRW-01026

City: Orocovis



Photo #: 3

Description (include direction): Scope of work: Construction of a drainage system, view to the southwest.

Date: 12/18/2023



Photo #: 4

Description (include direction): Scope of work: Construction of a drainage system, view to the northeast.

Date: 12/18/2023



October 20, 2022

**Arch. Carlos A. Rubio Cancela**

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

**Re: Authorization to Submit Documents**

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT