

# **Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58**

## **Project Information**

Project ID: PR-RGRW-03940

**Project Name:** Luis Daniel Alvarado Declet DBA Alvarado Products

**Responsible Entity:** Puerto Rico Department of Housing (PRDOH)

**Grant Recipient** (if different than Responsible Entity):

**State/Local Identifier:** Puerto Rico/Municipio of Orocovi

**Preparer:** Angela L. Dahlgren

**Certifying Officer Name and Title:**

Permit and Compliance Officers:

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

**Direct Comments to:** PRDOH ([environmentcdbg@vivenda.pr.gov](mailto:environmentcdbg@vivenda.pr.gov))

**Project Location:** Carr 155 Km 31.1, Barrio Gato Sector Estancias del Paraíso, Orocovi, PR 00720

The property is 6.56-acre site located at Carr 155 Km 31.1, Barrio Gato Sector Estancias del Paraíso, Orocovi, PR 00720 (Parcel ID: **193-000-009-87-000**). The coordinates of the project site are 18.259505, -66.395352.

The land is currently vacant. Previous land use was a coffee plantation 20 years ago. The land was graded and leveled in June 2021 prior to the applicant applying for assistance through the Re-Grow Puerto Rico Program, with the purpose of building a greenhouse in the future. These activities created an artificial terrace measuring approximately 50 feet by 220 feet.

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

The proposed total project area is approximately 0.25 acres. The proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator. Water will be supplied to the greenhouse using an above ground PVC connection to the existing water supply. Power will be supplied by the diesel power generator. Additional ground disturbances within the previously disturbed artificial terrace are expected in two general areas.

#### **Scope of Work #1:**

Scope of work 1 consists of the installation of a new greenhouse. The greenhouse will be 50-feet by 20-feet. The location of the greenhouse will be at coordinates 18.260109, -66.395049. The greenhouse will be made of metal. The size of the terrace where the greenhouse will be installed is approximately 220 feet by 50 feet. The area was graded in June of 2021 before the applicant program applied to the ReGrow Program on January 20, 2022. The greenhouse will be installed on the southeastern portion of the artificial terrace. The greenhouse will be used to grow hydroponic cilantro.

#### **Scope of Work #2:**

Scope of work 2 consists of the construction of a 10-foot by 10-foot concrete pad for the installation of the proposed diesel-powered generator located in the northwestern portion of the artificial terrace. This power generator will provide energy to the greenhouse components through a buried utility line to be run between the generator site and the greenhouse. This will require a 3 feet underground disturbance of approximately 75 feet long for the tubes/ cables.

The new water connection also will be made from the existing water service. The water connection will use PVC tube, overground; therefore, there will be no ground disturbance for the water connection. All power will be generated by the diesel power generator.

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)]:**

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

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



The Re-grow PR Urban-Rural Agriculture Program promotes and increases food security throughout the Island. It also improves and expands agricultural production related to economic revitalization and the development of activities.

The applicant does not have the resources to purchase farming equipment and materials for their agricultural operation. The new greenhouse will help increase the agricultural production of cilantro and the power generator will provide energy to the greenhouse components and will deliver the overall objectives of the economic development program. The proposed project will promote the production of traditional crops in high demand and contribute to the food sustainability of Puerto Rico.

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

The general topography of the property is rural, mountainous terrain with some vegetation and grass areas surrounding the property. The property is classified as rustic agricultural land. The existing area for the proposed installation of a greenhouse, purchase of a sprayer, Ford Transit vehicle, and diesel-powered generator is and traditionally has been used for agricultural purposes. Therefore, there is no change in land use associated with this project. Some ground disturbance will be required.

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

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

- Appendix A – Site Inspection and Photos
- 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, B-18-DP-72-0001, B-19-DP-78-0002, B-18-DE-72-0001	Community Development Block Grant – Disaster Recovery (CDBG-DR)	\$11,938,162,230

**Estimated Total HUD Funded Amount: \$98,260.80**

**Estimated Total Project Cost** (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$98,260.80

## **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 or 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 proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator. The nearest civil airport is approximately 107,503 feet from the proposed site. The nearest military airport is approximately 146,365 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.  See <b>Figure 2</b> 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"/>	This proposed project is not located in a CBRS Unit. The proposed project is located 72,127 feet southeast of the nearest CBRS. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act.  See <b>Figure 3</b> in <b>Appendix B</b> .
<b>Flood Insurance</b>	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The proposed project site is not located in a 100-year floodplain per FEMA Flood Insurance Rate Map (FIRM) 72000C0670J,

Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]		effective date 11/18/2009. The proposed project will not require flood insurance.  See <b>Figure 4</b> and <b>5</b> 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 proposed project site is not located in a county or air quality management district that is in non-attainment status for any criteria pollutants. The Municipio of Orocovis is not listed in the EPA Green Book as being in non-attainment. (Municipalities of Puerto Rico listed as being in non-attainment are Arecibo, Bayamon, Catano, Guaynabo, Salinas, San Juan, and Toa Baja). The proposed purchase and installation of a greenhouse and concrete pad for a generator would have no impact on air quality. The project is in compliance with Clean Air Act.  See 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 proposed project is located 67,743 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 <b>Figure 7</b> in <b>Appendix B</b> .
<b>Contamination and Toxic Substances</b>  24 CFR Part 58.5(i)(2)	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	A site visit conducted on May 11, 2023, noted no debris, rubbish, visible signs vegetative stress, contamination, or toxic substances at the project site.  Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project. There are no sites of environmental concern identified within 3,000 feet of the project site. The project is in compliance with contamination and toxic substances.

<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>See <b>Figures 8 and 9</b> in <b>Appendix B</b>.</p> <p>The proposed project will have No Effect on listed species. The proposed project is located 52,361 feet from the nearest endangered species critical habitat. The proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator will not involve cutting down any trees. Additionally, there are no critical habitats in the proposed project area.</p> <p>Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa, Puerto Rican Broad-winged Hawk, and Puerto Rican Parrot can be found, but there are no critical habitats at this location. The proposed project will have no potential to affect species or habitats due to the agricultural nature of the activities involved in the project. The new greenhouse and concrete pad will be located in an area that was previously cleared and includes no trees.</p> <p>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.</p> <p>See <b>Figures 10 and 11</b> in <b>Appendix B</b> and IPaC report in <b>Appendix D</b>. The proposed 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. The project is in compliance with</p>

		Explosive and Flammable Hazard requirements. Refer to site visit report in <b>Appendix A</b> .
<b>Farmlands Protection</b>  Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project site is not designated as prime farmland. The proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator and does not include any activities that could potentially convert agricultural land to nonagricultural use. This project is in compliance with the Farmland Protection Policy Act.  See <b>Figure 12</b> in <b>Appendix B</b> .
<b>Floodplain Management</b>  Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project is located in a Zone X, FIRM Panel 72000C0670J, effective date 11/18/2009. The site is not located in an Advisory Base Flood Elevation (ABFE) special flood hazard area. The project is in compliance with Floodplain management requirements.  See <b>Figure 5 and 6</b> in <b>Appendix B</b> .
<b>Historic Preservation</b>  National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The project site was evaluated on June 12, 2023, by and SOI Qualified Archaeologist. Documentation with maps was subsequently submitted to SHPO on June 27, 2023. SHPO concurred with a finding of " <b>No Historic Properties Affected</b> " within the project's Area of Potential on Effects on July 17, 2023.  See <b>Figure 13</b> in <b>Appendix B</b> and SHPO Submittal and Concurrence Documentation in <b>Appendix E</b> .
<b>Noise Abatement and Control</b>  Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	HUD's noise regulations protect residential properties from excessive noise exposure. The proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator.

		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.
<b>Sole Source Aquifers</b>  Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.
<b>Wetlands Protection</b>  Executive Order 11990, particularly sections 2 and 5	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	NWI maps show no wetlands on the proposed project area or adjacent to the proposed project area. The nearest wetland is located approximately 536-feet east of the proposed project location. This proposed project will not impact any on or off-site wetlands and includes no activities that would require further evaluation under Executive Order 11990.  See <b>Figure 14</b> in <b>Appendix B</b> .
<b>Wild and Scenic Rivers</b>  Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 208,863 feet. The project is in compliance with the Wild and Scenic Rivers Act.  See <b>Figure 15</b> in <b>Appendix B</b> .
<b>ENVIRONMENTAL JUSTICE</b>		
<b>Environmental Justice</b>  Executive Order 12898	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	No adverse environmental impacts were identified in any other compliance review portion of this project that may disproportionately be high for low-income and/or minority communities. Therefore, the proposed activity complies with Executive Order 12898.

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

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

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

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed project consists of the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator. The project site is zoned as SREP-A. The proposed action is compliant with the current rural residential/agricultural land use of the project area.

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>The proposed project is located in a rural, mountainous terrain with some vegetation and grass areas surrounding the property. The soil is classified as Maricao Clay (MoF), 20 to 60 percent slopes.</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 0.26 acres.</p> <p>The project sites are in area is rated "moderate" to "high" for landslide susceptibility (see <b>Figure 16</b> in <b>Appendix B</b>). There will be no human habitation associated with the structure and therefore extensive mitigation measures will not be required, such as retaining walls or special engineering design.</p> <p>There will be little to no additional runoff associated with the project.</p>
Hazards and Nuisances including Site Safety and Noise	2	<p>During implementation of the project, construction activities may result in temporary elevation of ambient noise levels in immediate areas around active construction areas.</p> <p>There is no access to the project area by the public. Standard BMPs, such as construction fencing, would be applied to protect the farm residents and public from typical construction hazards.</p>
Energy Consumption	2	Electricity will be supplied to the new greenhouse by a diesel-powered generator. There would be no change in energy demand.
Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	2	Temporary employment of workers related to construction activities would result, in addition the associated business plan for the proposed projects indicated that three permanent jobs could be created as a result of this project. These workers are expected to come from the local region. The proposed project would not negatively impact employment or income patterns.
Demographic Character	2	The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of



Changes, Displacement		residential structures or businesses would occur as part of this project.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The agricultural activity of the project property will improve. Other commercial facilities would not be impacted by the proposed project.
Health Care and Social Services	2	Health care and social services facilities would not be impacted by the proposed project. The project would not increase demand for health care and social services facilities.
Solid Waste Disposal / Recycling	2	Waste vegetation from any clearing activities will either be composted on site or at regional composting centers. Soil from any 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) 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 byproducts would be agricultural, which waste would be biodegradable.
Wastewater / Sanitary Sewers	2	The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current conditions would remain unchanged.
Water Supply	2	Water will be supplied to the new greenhouse from the existing connection via above ground PVC piping. The proposed project will have minor impact on water usage.
Public Safety - Police, Fire and	2	The proposed project would not create any new demand for emergency or health services.

Emergency Medical		
Parks, Open Space and Recreation	2	The proposed project would not create or destroy any new parks, open space, or recreational activities. It also would not increase use of those facilities.
Transportation and Accessibility	2	The proposed project would not involve the creation of new roads nor any increase in long-term traffic on existing roads. There would be some minor use of the existing road during construction. All residents and businesses would retain access to their properties during and after the project.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	The proposed project will be situated on an existing agriculture property and will have no impact to unique natural features or water resources.
Vegetation, Wildlife	2	The proposed project will occur in land previously used for agricultural purposes and will continue in that capacity. The proposed project will have no impact on vegetation and wildlife.
Climate Change	2	This is a small project with no measurable impact on climate change factors. With respect to climate change impact on the project, agricultural activities could be affected by drought.

**Additional Studies Performed:** None Required

**Field Inspection** (Date and completed by): **Carlos O. Medina, 5/11/2023**

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

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

[www.faa.gov/airports/planning\\_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf](http://www.faa.gov/airports/planning_capacity/npias/reports/NPIAS-Report-2017-2021-Appendix-B-Part6.pdf)

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

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

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

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

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

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

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

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

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

Puerto Rico Coastal Zone Management Program Plan, September 2009.

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

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

**List of Permits Obtained:** None Required

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

The local community has been very proactive in the recovery process. Puerto Rico Department of Agriculture has worked closely with the agricultural community. The project 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. Agricultural activities would increase to a minor degree above current levels due to the implementation of the project. Water usage would increase to a minor degree in the new greenhouse.

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

The RGRW Program's goal is to increase agricultural capacity while promoting and increasing food security island wide. This Program seeks to enhance and expand agricultural production related to economic revitalization and sustainable development activities. The applicant submitted a proposal to enhance and expand agricultural production on their property. The proposed use of grant funds will allow the applicant to expand the cultivation of agricultural products in the new greenhouse. Any alternative that would involve an off-property location would not enhance and expand agricultural production or allow for the economic development for this applicant. The actions are proposed in an area that was graded and leveled in June 2021 prior to the applicant applying for assistance through the Re-Grow Puerto Rico Program, with the purpose of building a greenhouse in the future. These activities created an artificial terrace measuring approximately 50 feet by 220 feet. Alternative locations on the property would require extensive tree removal, land clearing, and grading.

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

Under the No Action Alternative, the applicant would not receive federal funding for the purchase and installation of a greenhouse, purchase of a sprayer, purchase of a Ford Transit vehicle, and the purchase and installation of a diesel-powered generator. Consequently, this would inhibit the economic growth opportunity for the applicant. As a result, the applicant 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 would not result in 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.

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

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

Law, Authority, or Factor	Mitigation Measure
In accordance with Puerto Rico Permit requirements any generator above 10HP requires an Emergency Generators	Applicant will obtain generator general permit prior to generator installation.

General Permit of the Puerto Rico Natural and Environmental Resources Department prior to installation.	
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**Determination:**

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

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

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature: 

Date: 8/30/2023

Name/Title/Organization: **Angela L. Dahlgren** | CDBG-DR Program Manager | **Tetra Tech**

Certifying Officer Signature:  Date: August 30, 2023

Name/Title: Santa D. Ramirez Lebron / 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-03940		
Applicant Name	Luis Daniel Alvarado Declet DBA Alvarado Products		
Property Address	Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso		
Parcel ID	193-000-009-87-000		
Coordinates	18.260109, -66.395049		
Inspector Name	Carlos O. Medina		
Inspection Date	05/11/2023		
Building Type	vacant		
Number of Units	0		
Number of Stories			
Year Built; Data Source	c1975; 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 checked="" type="checkbox"/>	<input type="checkbox"/>	250 gallons Water
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</b>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	



peeling paint, or hazardous materials present in or on the structure?			
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:

##### Re Grow Additional Notes:

Case: PR-RGRW-03940

Project Name: Luis Daniel Alvarado Declet DBA Alvarado Products

Coordinates: 18.260109, -66.395049

Is the field graded? For what purpose the field was graded? Month, Year: June, 2021, for the purpose to construct a greenhouse in the future.

Scope of Work: Purchase of greenhouse, sprayer, Ford Transit vehicle, and electric generator.

Land current in use for: vacant

Past Land use was: Coffee plantation, 20 years ago

The applicant plans to do: Construction of a greenhouse and a concrete pad for a power generator.

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: 18.260109, -66.395049

New Greenhouse installation of 50' x 20'. The greenhouse will be in metal. The size of the terrace where the greenhouse will be installed is approximately 220' x 50'. Applicant use of this greenhouse is for a hydroponic Cilantro.

Scope of work 2: 18.260409, -66.395218

Concrete pad of 10' x 10' for the installation of the diesel power generator. This power generator will provide energy to the greenhouse components. The installation will require a 3' feet underground disturbance for the tubes/cables of approximately 75' long.

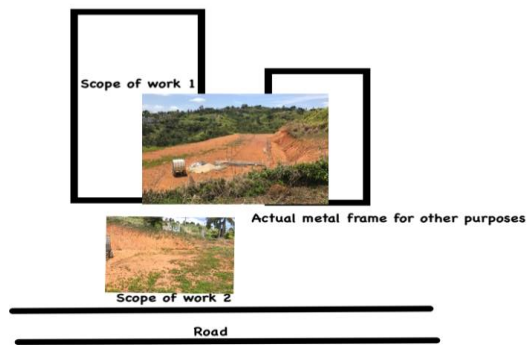
Any new water connection or power connection?

Water new connection from existing water service. The water connection will use PVC tube, overground, not ground disturbance.

Power will be generated by the diesel power generator.



## Site Sketch



**Front of Structure**

Photo Direction: Southeast



**Facing Away From Front**

Photo Direction: Northwest





**Side #1 of Structure**

Photo Direction: Southeast



**Facing Away From Side #1**

Photo Direction: Northwest





**Back of Structure**

Photo Direction: South



**Facing Away From Back**

Photo Direction: North



**Side #2 of Structure**

Photo Direction: Northwest



**Facing Away From Side #2**

Photo Direction: Southeast





**Streetscape #1**

Photo Direction: Southwest



**Streetscape #2**

Photo Direction: Northeast



Address

Photo Direction: South





Outbuildings

Photo Description: Metal frame, for other agricultural use

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast





Structural Details

Photo Description: Architectural details

Photo Direction: East



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

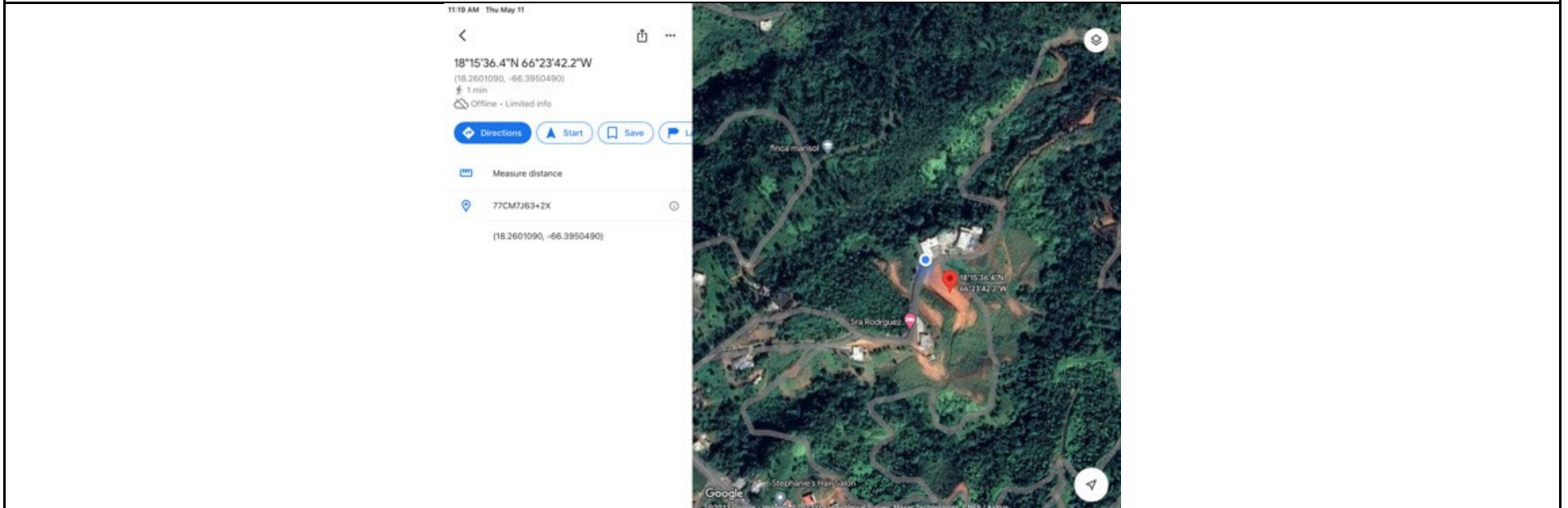
Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: North





Aboveground Storage Tanks

Photo Description: Water tank

Photo Direction: Southwest



**Scope Of Work**

Photo Description: Scope of work 1: New greenhouse installation

Photo Direction: East



**Scope Of Work**

Photo Description: Scope of work 1: New greenhouse installation

Photo Direction: South



**Scope Of Work**

Photo Description: Scope of work 1: New greenhouse installation

Photo Direction: Southwest





**Scope Of Work**

Photo Description: Scope of work 2: Concrete pad/generator

Photo Direction: West



**Scope Of Work**

Photo Description: Scope of work 2: Concrete pad/ generator

Photo Direction: Southwest



**Scope Of Work**

Photo Description: Scope of work 2: Concrete pad/ generator

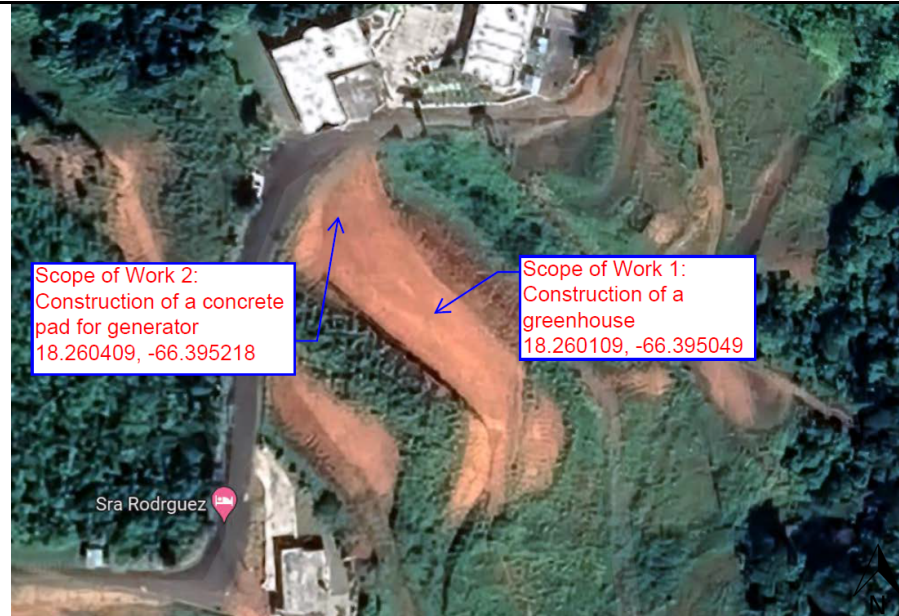
Photo Direction: Northwest



**Scope Of Work**

Photo Description: Scope of work: Location of Scope of Work

Photo Direction: North




## **APPENDIX B**

### Maps





- Legend**
-  Project Parcel
  -  Parcels

## PUERTO RICO



### Figure 1: PROJECT LOCATION

#### APPLICANT ID: PR-RGRW-03940

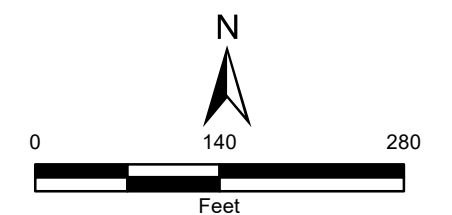
ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109 , -66.395049



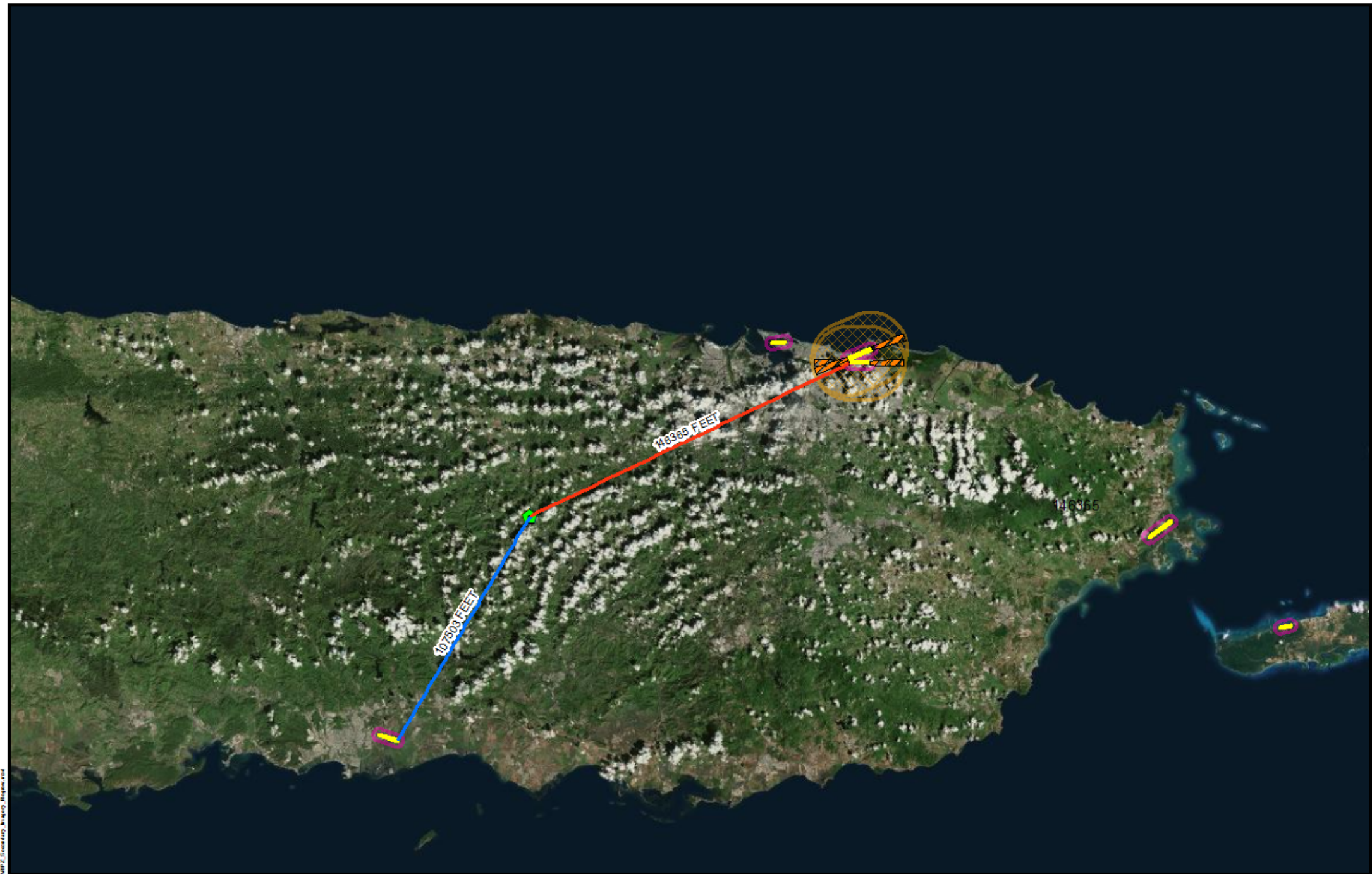
Source: U. S. Fish & Wildlife Service  
<https://www.fws.gov>

Author: TG

Date: 6/6/2023







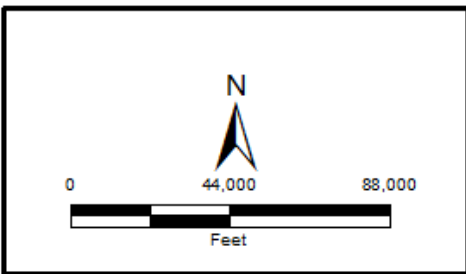
- Legend**
- Project Parcel
  - Civilian Runway Protection Zones
  - Military Accident Potential Zones
  - Airport Runways
  - Civilian Airport 2,500 Feet Buffer
  - Military Airport 15,000 Feet Buffer

**Distance to Nearest Airport  
in Feet: 107503 FEET**



**Figure 2: AIRPORT ZONES**  
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109, -66.395049

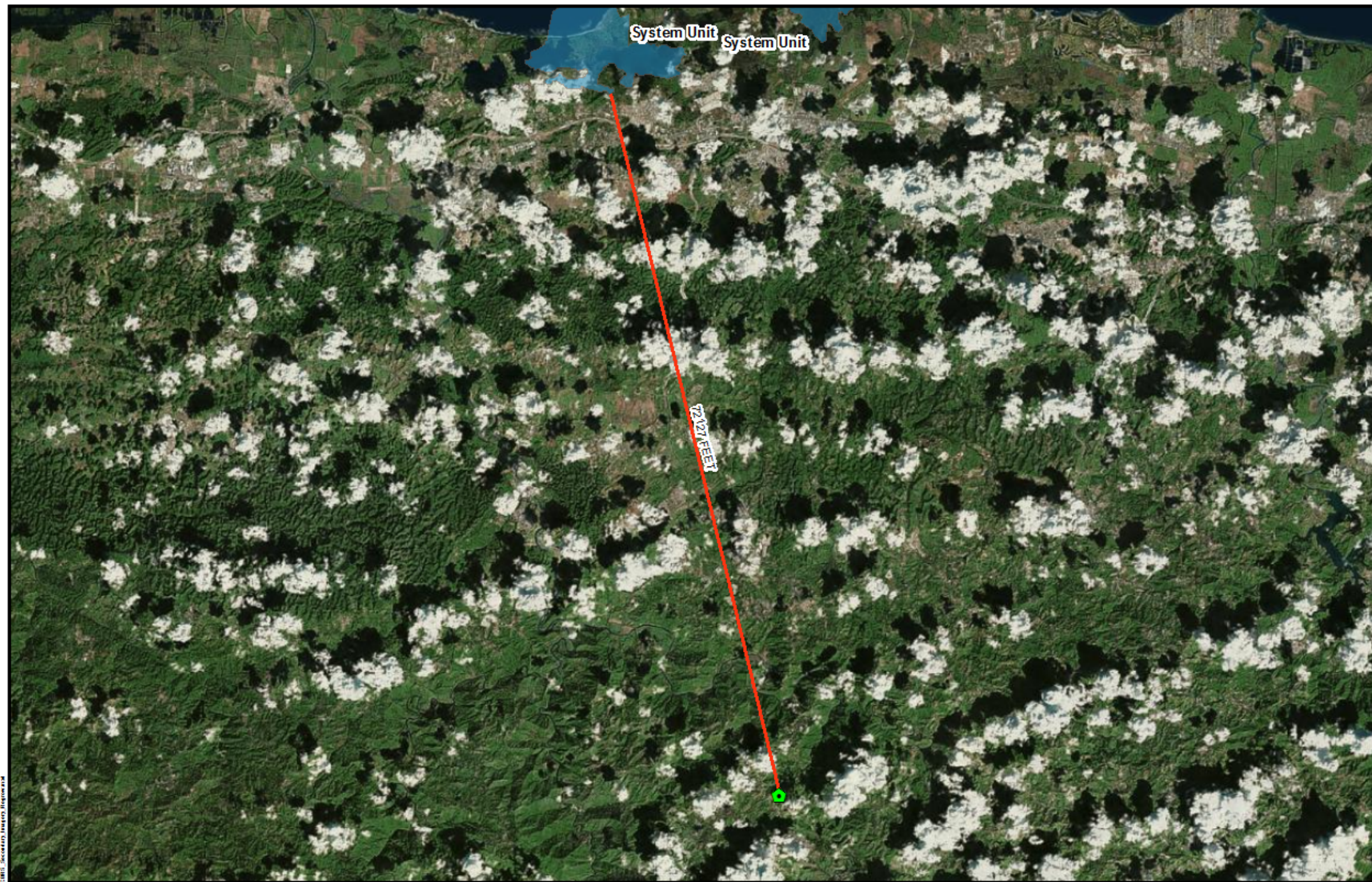


Source: USDOT  
<https://www.faa.gov>

Author: TG Date: 6/2/2023

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#### Legend

Project Parcel

#### Coastal Barrier Resources System Unit Type

Otherwise Protected  
 System Unit

Distance to Nearest Coastal Barrier  
Resources System in Feet: 72127 FEET

#### PUERTO RICO



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

Author: TG

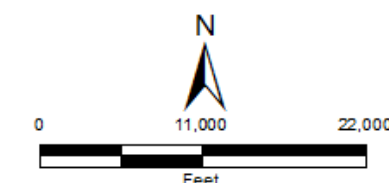
Date: 6/5/2023

### Figure 3: COASTAL BARRIERS IMPROVEMENT ACT APPLICANT ID: PR-RGRW-03940

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

Parcel Coordinates: 18.260109, -66.395049







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

## PUERTO RICO



## Figure 4: FLOODPLAIN MANAGEMENT APPLICANT ID: PR-RGRW-03940

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

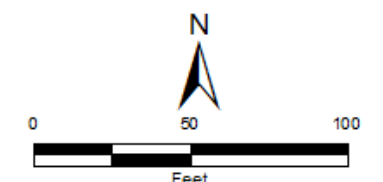
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

Parcel Coordinates: 18.260109, -66.395049

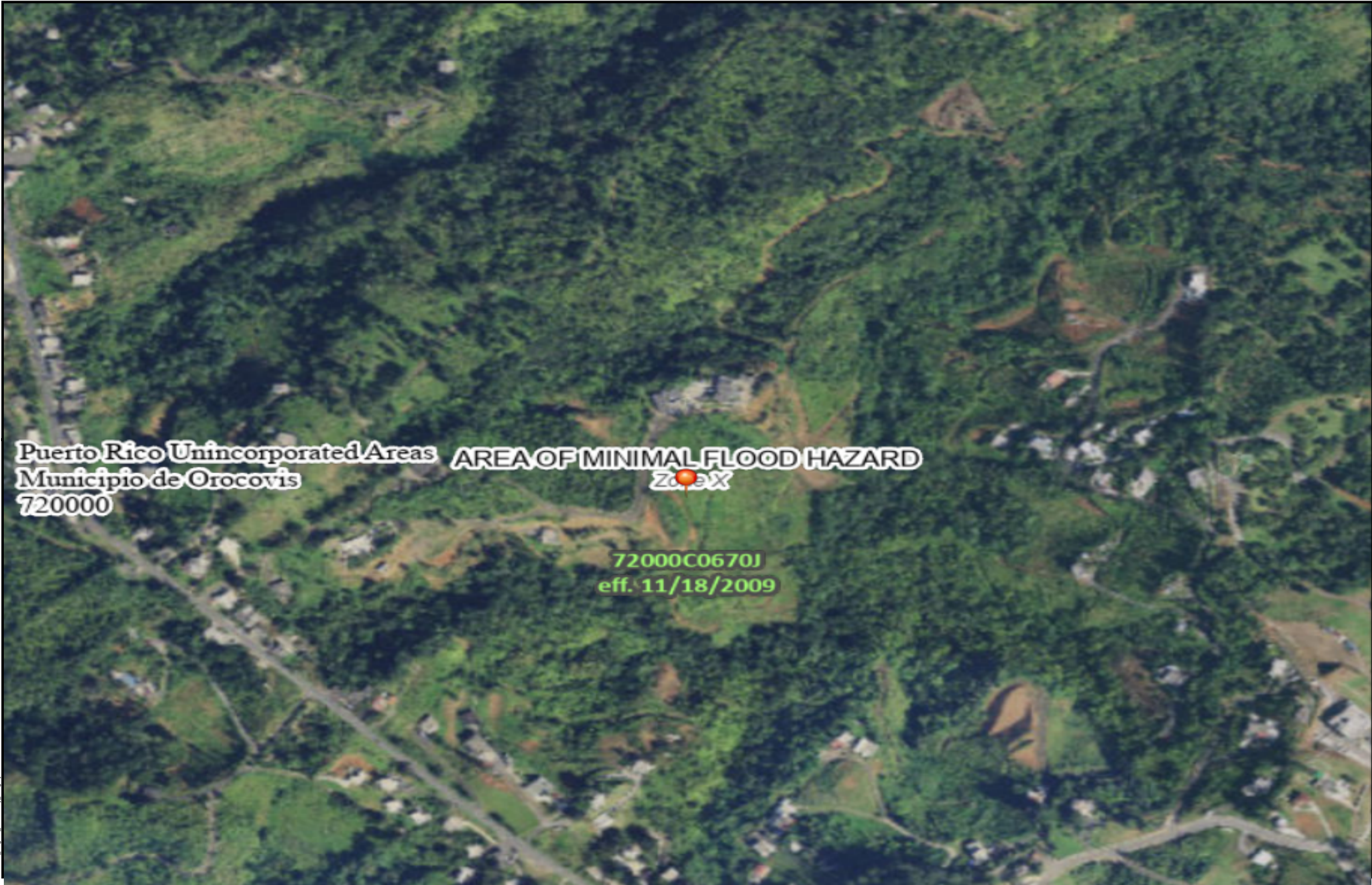


Source: FEMA  
<https://msc.fema.gov>

Author: TG Date: 6/1/2023







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

**SPECIAL FLOOD HAZARD AREAS**

Without Base Flood Elevation (BFE)  
*Zone A, V, A99*

With BFE or Depth *Zone AE, AO, AH, VE, AR*

Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**

0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*

**OTHER AREAS**

NO SCREEN Area of Minimal Flood Hazard *Zone X*

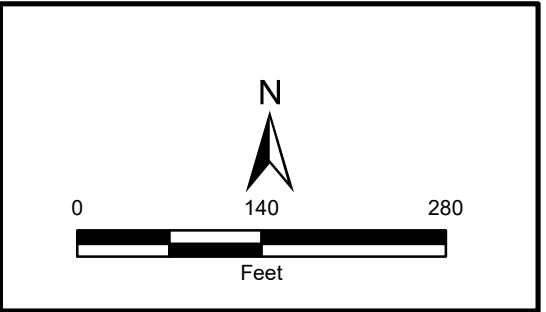
**GENERAL STRUCTURES**

Channel, Culvert, or Storm Sewer

**OTHER FEATURES**

Cross Sections with 1% Annual Chance Water Surface Elevation

**MAP PANELS**

Digital Data Available

**TETRA TECH**  
Source: FEMA  
<https://www.msc.fema.gov>  
Author: TG      Date: 5/31/2023

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

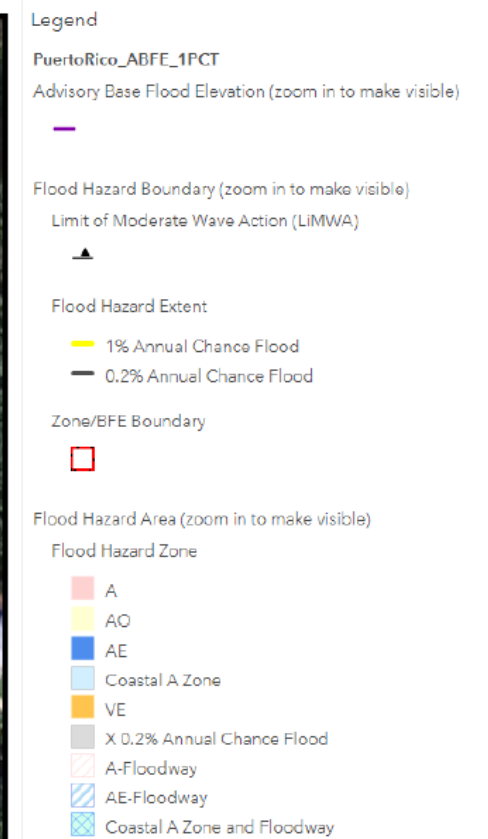
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

Name of Development: Luis Daniel Alvarado Delet DBA Alvarado Products

Parcel Coordinates: 18.260109 , -66.395049





## PUERTO RICO



### Figure 6: ADVISORY BASE FLOOD ELEVATION APPLICANT ID: PR-RGRW-03940

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

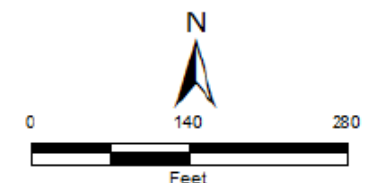
Name of Development: Siembra Vida Inc

Parcel Coordinates : 18.260109 , -66.395049



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



Author: TG Date: 6/5/2023





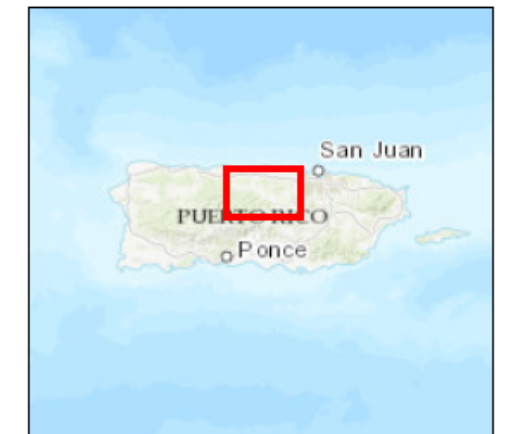


Legend

-  Project Parcel
-  Coastal Zone Management Boundary

Distance to Nearest Coastal Zone: 67743 FEET

PUERTO RICO

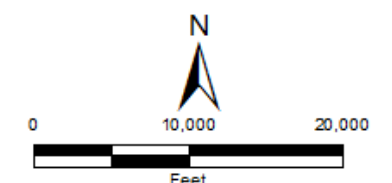


**Figure 7: COASTAL ZONE MANAGEMENT**  
**APPLICANT ID:PR-RGRW-03940**

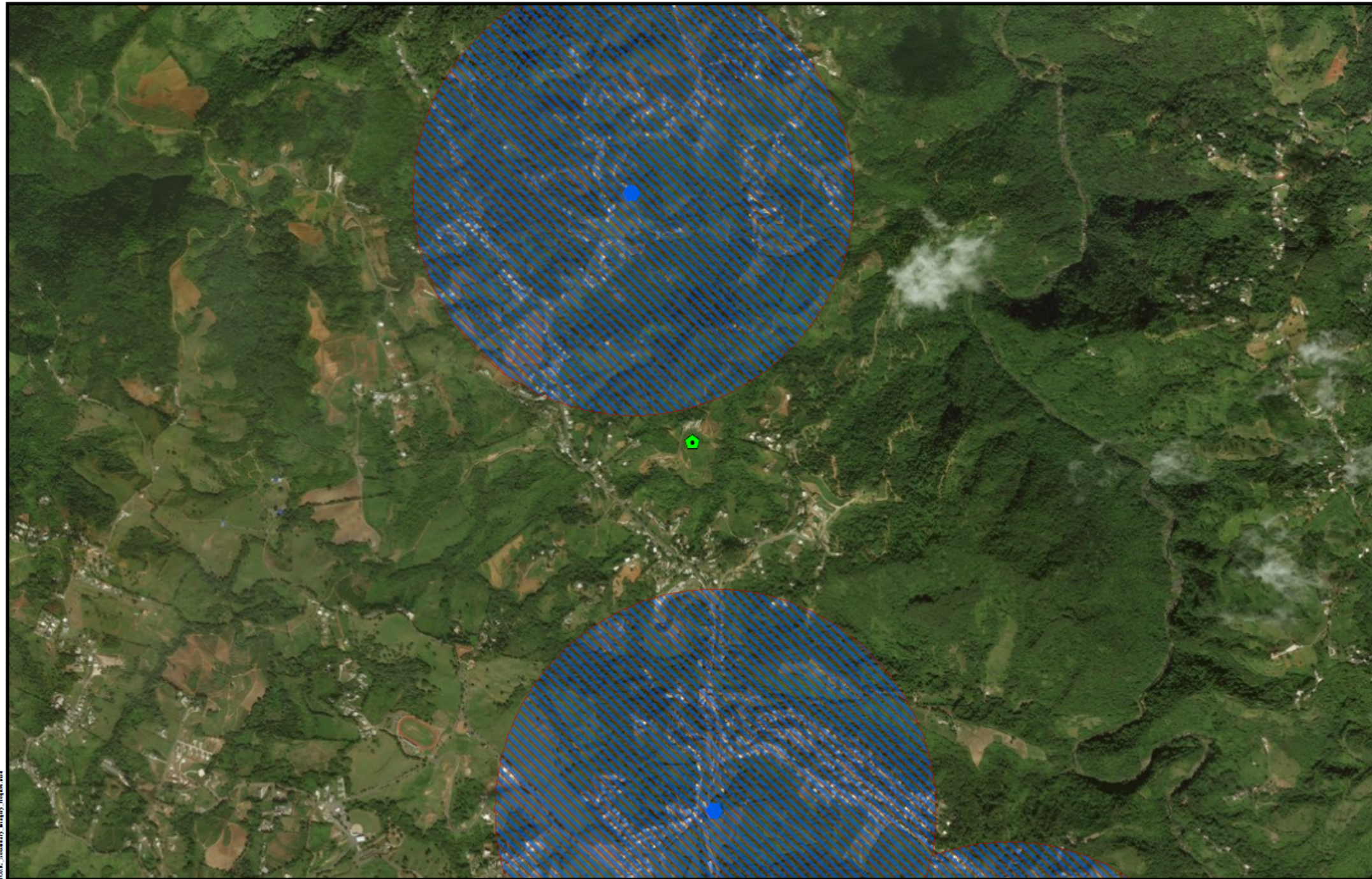
ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109, -66.395049



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







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

**PUERTO RICO**



**Figure 8: TOXIC CHEMICALS AND GASES, HAZARDOUS MATERIALS, CONTAMINATION, AND RADIOACTIVE SUBSTANCES**  
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109, -66.395049

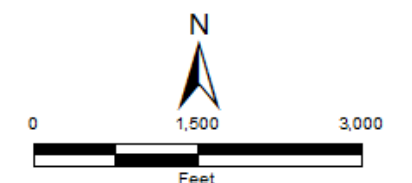


Source: E.P.A.

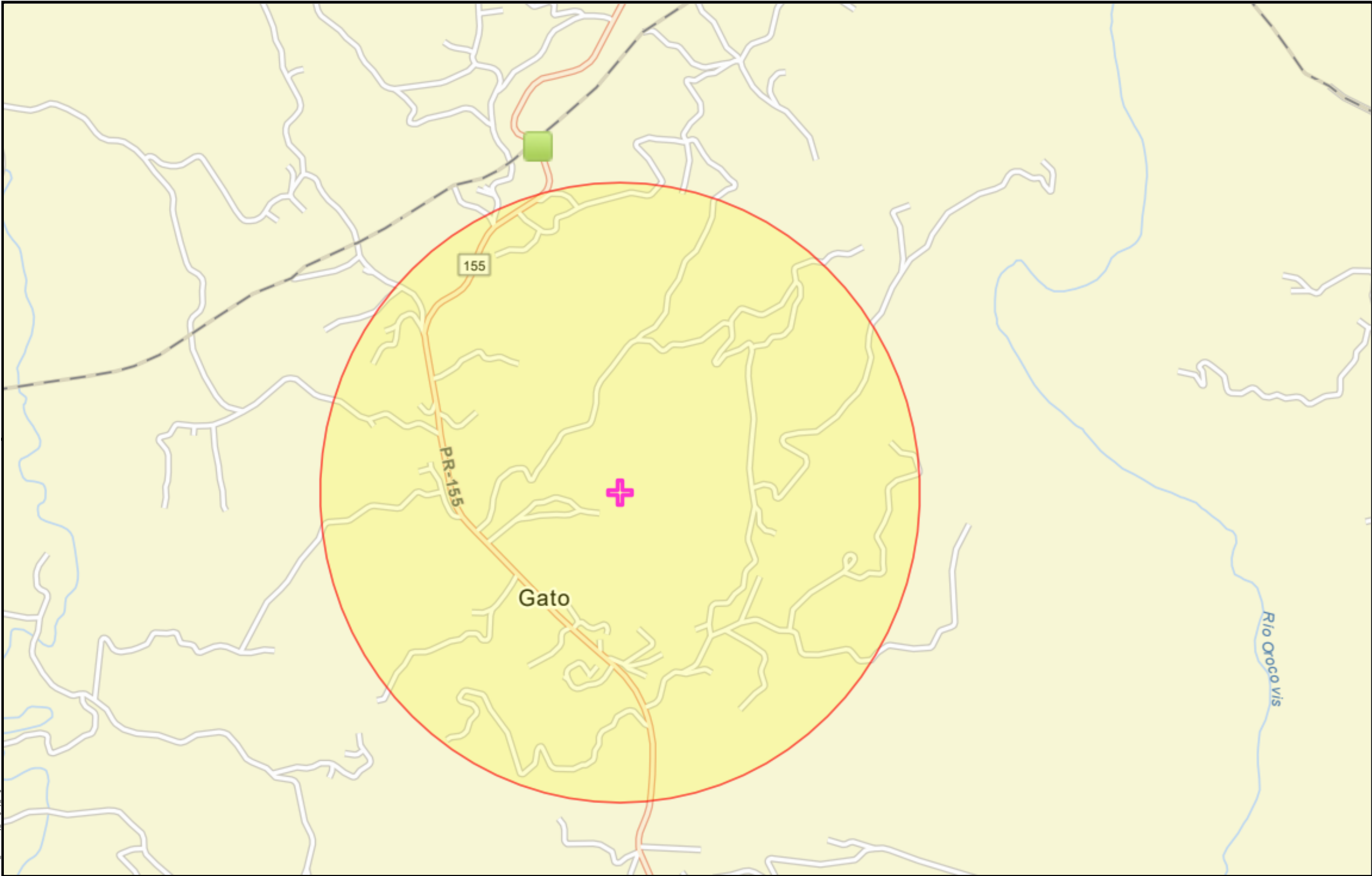
<https://www.epa.gov/fs/geospatial-data-download-service>

Author: JBI/AK

Date: 6/1/2023

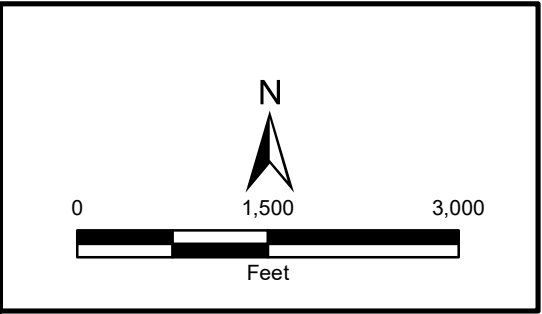






- Legend**
- Superfund (NPL)
  - Toxic Substances Control Act (TSCA)
  - Toxic Releases (TRI)
  - Brownfields (ACRES)
  - Hazardous Waste (RCRAInfo)

**PUERTO RICO**



**Figure 9: NEPA Assist Map**  
**APPLICANT ID: PR-RGRW-03940**  
**ADDRESS:** Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
**Name of Development:** Luis Daniel Alvarado Declet DBA Alvarado Products  
**Parcel Coordinates:** 18.260109 , -66.395049



Source: E.P.A.  
<https://www.epa.gov/frs/geospatial-data-download-service>  
Author: JB/AK      Date: 5/18/2023

File Path: \\slas20glas1\CORP\AccessShare\TDR\data\USPRTier2\TOXIC\_Secondary\_Imagery\_Register.mxd

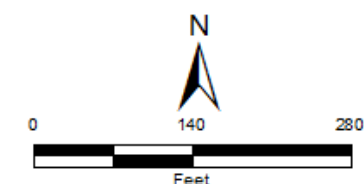




### Legend



Project Parcel

**PUERTO RICO**

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

Author: TG

Date: 6/1/2023

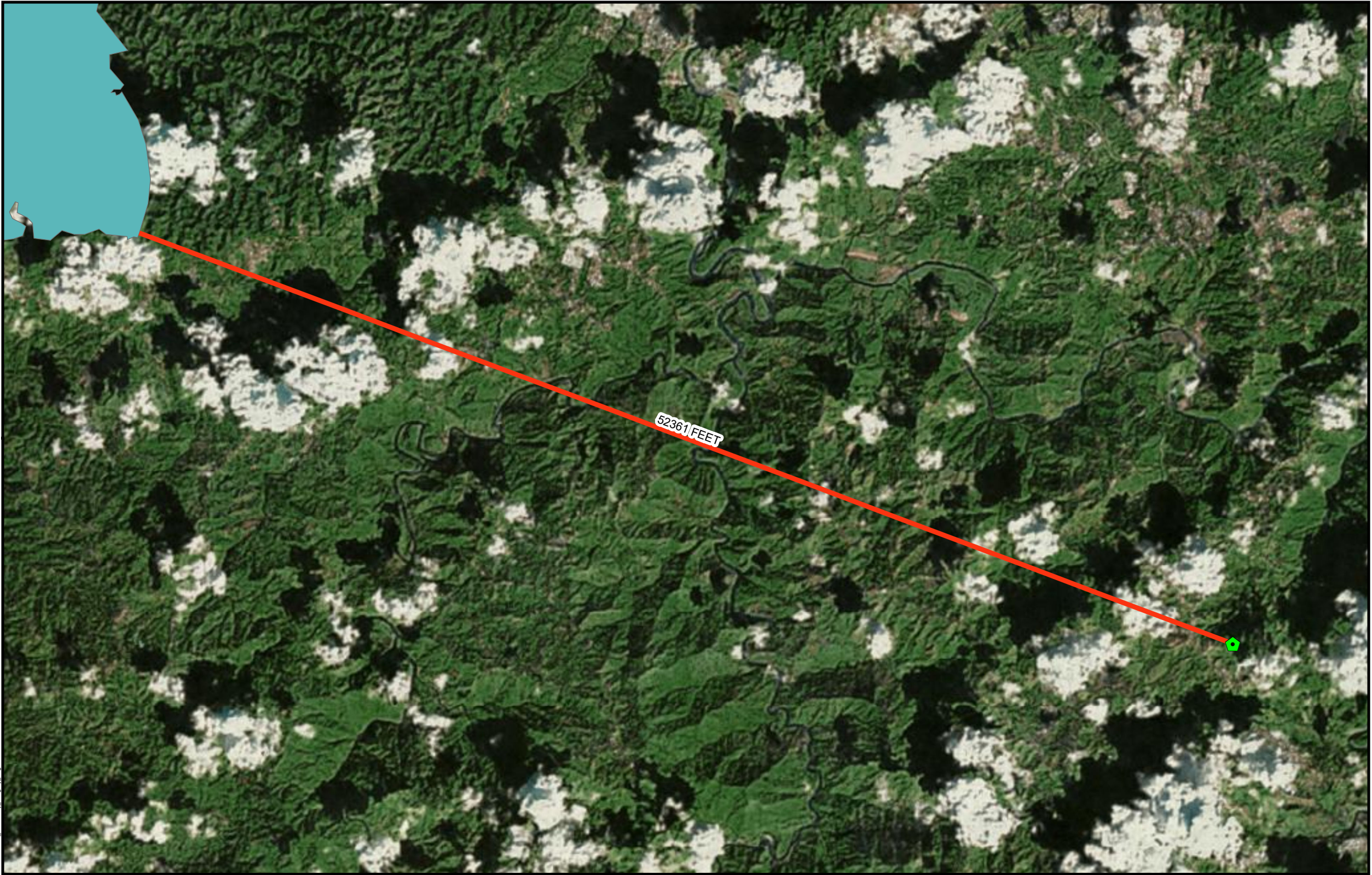
**Figure 10: ENDANGERED SPECIES ACT**  
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720


Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

Parcel Coordinates: 18.260109, -66.395049






**Legend**

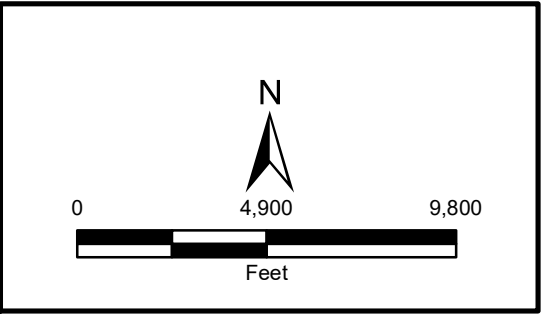
 Project Parcel

**comname**

 Puerto Rico harlequin butterfly

Distance to Nearest Critical Habitat in Feet: 52361 FEET

**PUERTO RICO**



**Figure 11: CRITICAL HABITATS**  
**APPLICANT ID: PR-RGRW-03940**

**ADDRESS:** Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

**Name of Development:** Luis Daniel Alvarado Declet DBA Alvarado Products

**Parcel Coordinates:** 18.260109, -66.395049



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

Author: TG      Date: 6/1/2023

File Path: \\nas206\gis\TCORP\AccessShare\TDR\data\USFWS\PR\CRITICALHABITAT\Secondary Imagery\Figrow.mxd





#### Legend

Project Parcel

#### Farm Class

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

#### PUERTO RICO

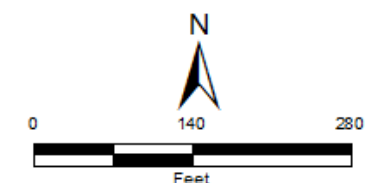


### Figure 12: FARMLAND PROTECTION APPLICANT ID: PR-RGRW-03940

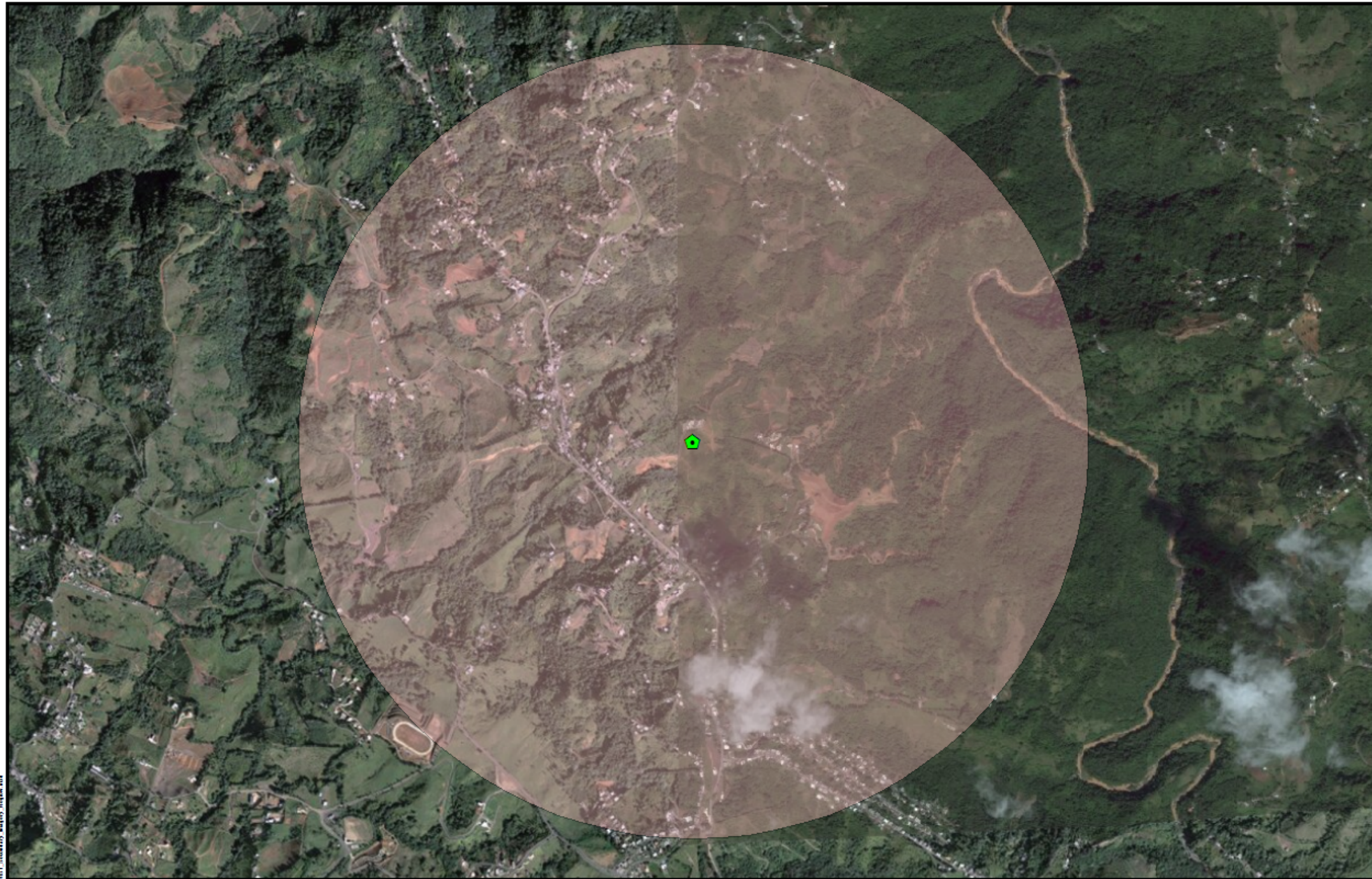
ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109, -66.395049
















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







#### 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

#### PUERTO RICO



### Figure 13: HISTORIC PRESERVATION APPLICANT ID: PR-RGRW-03940

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

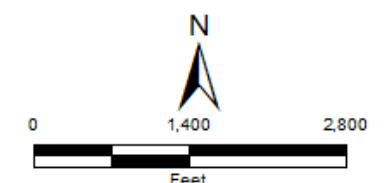
Parcel Coordinates: 18.260109, -66.395049



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

Author: TG

Date: 6/1/2023







**Legend**

Project Parcel

**WETLAND TYPE**

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

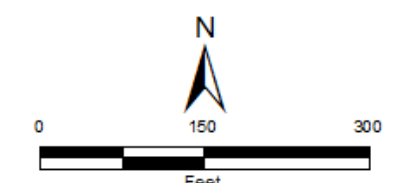
Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Riverine

**PUERTO RICO**



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

Author: TG Date: 6/1/2023

**Figure 14: WETLANDS**  
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

Parcel Coordinates: 18.260109, -66.395049



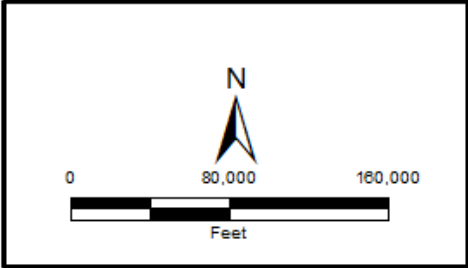


**Legend**

- Project Parcel
- Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River in Feet: 208863 FEET

**PUERTO RICO**



**TETRA TECH**

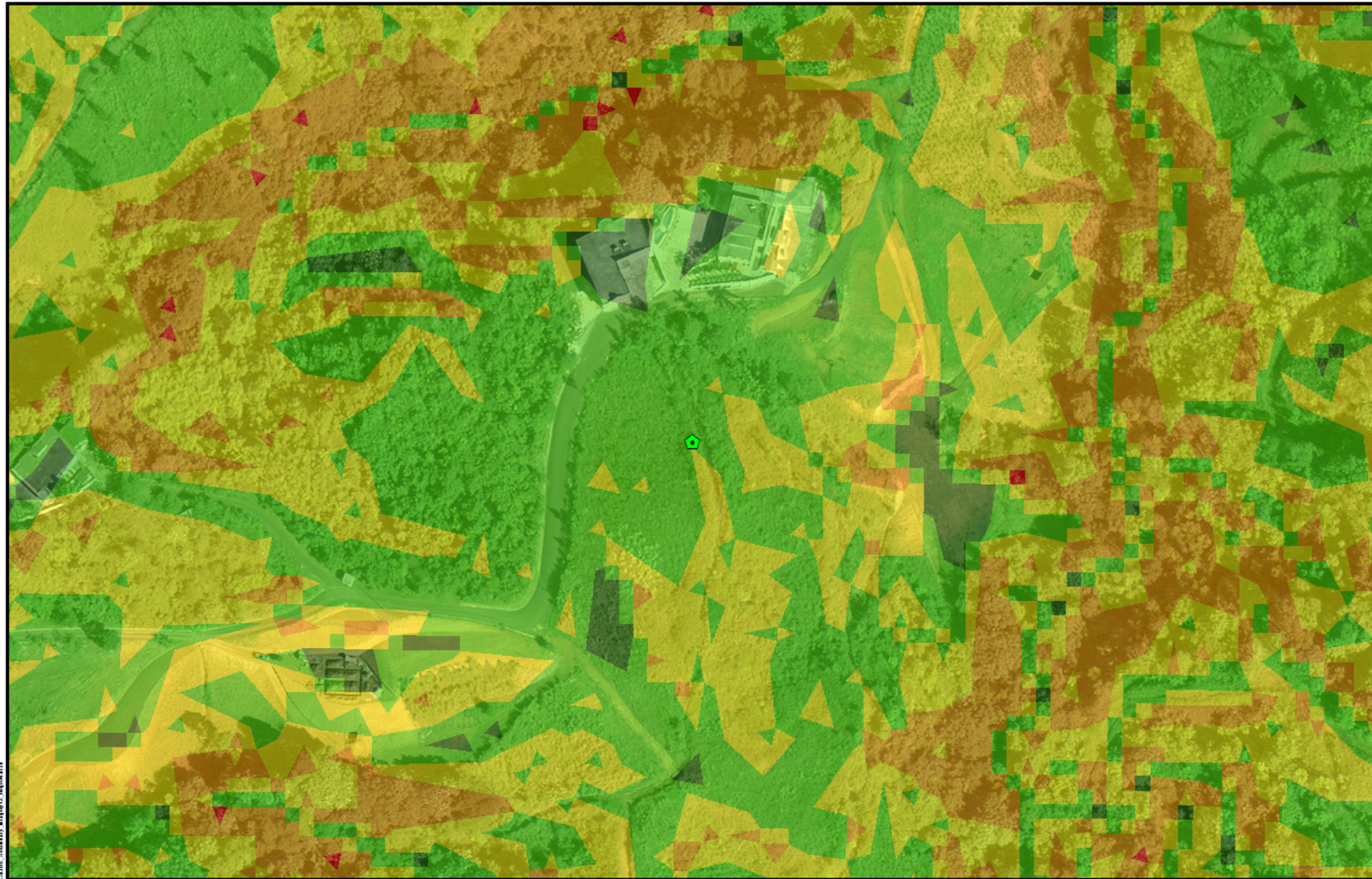
Source: U. S. Forest Service  
<https://www.fs.usda.gov>

Author: TG | Date: 6/1/2023







**Figure 15: WILD AND SCENIC RIVERS ACT**  
**APPLICANT ID: PR-RGRW-03940**

ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720  
Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products  
Parcel Coordinates: 18.260109, -66.395049





**Legend**

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

**PUERTO RICO**



**Figure 16: SLOPE AND EROSION  
APPLICANT ID: PR-RGRW-03940**

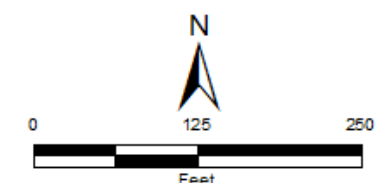
ADDRESS: Carr 155 km 31.1 Bo Gato Sector Estancias del Paraiso, Orocovis, PR 00720

Name of Development: Luis Daniel Alvarado Declet DBA Alvarado Products

Parcel Coordinates: 18.260109, -66.395049



Source: PRDOH  
<http://maps.mps.aigis.com>  
<http://ps.wiretap.com/lewe/index.html?k=10506ec07f15491daee17647f19248ee>  
 Author: TG Date: 6/1/2023





# APPENDIX C

## Additional Information





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

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

Data is current as of April 30, 2023

Listed by State, County, NAAQS (W=Whole County,P=Partial County designated nonattainment as of report date)  
The 8-hour Ozone (1997) standard was revoked on April 6, 2015 and the 1-hour Ozone (1979) standard was revoked on June 15, 2005.

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

▼

GO

Important Notes

Download National Dataset: dbf | xls | Data dictionary (PDF)

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

Important Notes

Discover.

Connect.

Ask.

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2023-04-30

# **APPENDIX D**

## **IPaC Report**

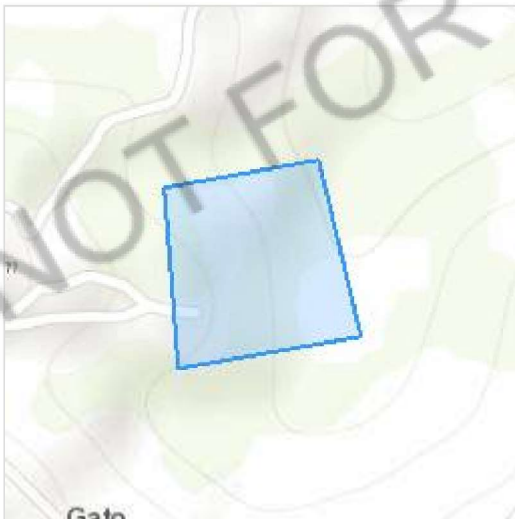
# IPaC resource list

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

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

## Location

Orocovis County, Puerto Rico



## Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📅 (787) 851-7440

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

MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

NOT FOR CONSULTATION

# Endangered species

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

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

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

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

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

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

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

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



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

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

## Birds

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

## Reptiles

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

## Critical habitats

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

There are no critical habitats at this location.

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

## Migratory birds

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

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

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

Additional information can be found using the following links:

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

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

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

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

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

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

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

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

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

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

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

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

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

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

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

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

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

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

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



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

### **What if I have eagles on my list?**

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

### **Proper Interpretation and Use of Your Migratory Bird Report**

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

## Facilities

### **National Wildlife Refuge lands**

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

There are no refuge lands at this location.

# Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

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

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

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.

This location overlaps the following wetlands:

RIVERINE

[R5UBH](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

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

### Data limitations

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

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

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

### **Data exclusions**

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

### **Data precautions**

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



# **APPENDIX E**

## **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)

July 17, 2023

**Lauren Bair Poche**

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

SHPO: 06-27-23-01 PUERTO RICO DISASTER RECOVERY, CDBG-DR RE-GROW  
PR URBAN-RURAL AGRICULTURAL RE-GROW PROGRAM, PR-RGRW-03940,  
LUIS DANIEL ALVARADO DECLET, BO. GATO, SECTOR ESTANCIAS DEL PARAÍSO,  
CARR. 155 KM 31.1, 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,

Carlos A. Rubio-Cancela  
State Historic Preservation Officer  
CARC/GMO/LGC



June 27, 2023

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

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

**Section 106 NHPA Effect Determination Submittal: PR-RGRW-03940– Luis Daniel Alvarado Declet – Bo. Gato Sector Estancias del Paraiso, Carr 155 KM 31.1, 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) and the Home Repair, Reconstruction, or Relocation (R3) Program. On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds was approved by the United States Department of Housing and Urban Development (HUD) under the Federal Register Volume 83, No. 28, 83 FR 5844, to assist the Commonwealth of Puerto Rico in meeting unmet needs in the wake of Hurricanes Irma and Maria. On August 14, 2018, an additional \$8.22 billion recovery allocation was allocated to Puerto Rico under the Federal Register Volume 83, No. 157, 83 FR 40314. With these funding allocations, the Puerto Rico Department of Housing (Housing) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents.

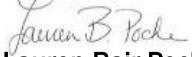
On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, we are submitting documentation for activities proposed by Luis Daniel Alvarado Declet at the property located at Bo Gato Sector Estancias del Paraiso Carr 155 Km 31.1 in the municipality of Orocovis. The proposed activities consist of two scopes of work: Scope of Work 1 consists of the installation of a new greenhouse measuring approximately 50 feet by 20 feet. The greenhouse is made of metal. The greenhouse will be installed on the southeastern portion of the artificial terrace. The applicant will use this greenhouse for growing hydroponic Cilantro. Scope of Work 2 consists of the construction of a concrete pad of 10 feet by 10 feet for the installation of the diesel power generator located in the northwestern portion of the artificial terrace. This power generator will provide energy to the greenhouse components through a buried utility line to be run between the generator site and the greenhouse. This will require a 3 feet underground disturbance of approximately 75 feet long for the tubes/cables. The new water connection will also be made from the existing water service. The water connection will use PVC tube, overground; therefore, there will be no ground disturbance for the water connection. All power will be generated by the diesel power generator.



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, Historic Preservation Senior Manager  
Attachments

<b>PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM</b> <b>ReGROW PUERTO RICO PROGRAM</b> <b>Section 106 NHPA Effect Determination</b>		
<b>Subrecipient:</b> Luis Daniel Alvarado Declet		
<b>Case ID:</b> PR-RGRW-03940	<b>City:</b> Orocovis	

<b>Project Location:</b> Bo Gato Sector Estancias del Paraíso Carr 155 Km 31.1	
<b>Project Coordinates:</b> 18.259505, -66.395352	
<b>TPID (Número de Catastro):</b> 193-000-009-87-000	
<b>Type of Undertaking:</b> <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
<b>Construction Date (AH est.):</b> 1980	<b>Property Size (acres):</b> 6.56

<b>SOI-Qualified Architect/Architectural Historian:</b> Maria Lopez Schmid
<b>Date Reviewed:</b> June 10, 2023
<b>SOI-Qualified Archaeologist:</b> Roberto G. Muñoz-Pando, PhD
<b>Date Reviewed:</b> June 12, 2023

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


### Project Description (Undertaking)

The scope of work for this project is to purchase a greenhouse, sprayer, Ford Transit vehicle, and electric generator. The land is currently vacant. Previous land use was a coffee plantation 20 years ago. The land was graded and leveled in June 2021 prior to the applicant applying for assistance through the Re-Grow Puerto Rico Program, with the purpose of building a greenhouse in the future. These activities created an artificial terrace measuring approximately 50 feet by 220 feet. Additional ground disturbances within the previously disturbed artificial terrace are expected in two general areas.

Scope of Work 1 is in coordinates: 18.260109, -66.395049. Scope of Work 1 consists of the installation of a new greenhouse measuring approximately 50 feet by 20 feet. The greenhouse is made of metal. The greenhouse will be installed on the southeastern portion of the artificial terrace. The applicant will use this greenhouse for growing hydroponic Cilantro.

Scope of Work 2 is in coordinates: 18.260409, -66.395218. Scope of Work 2 consists of the construction of a concrete pad of 10 feet by 10 feet for the installation of the diesel power generator located in the northwestern portion of the artificial terrace. This power generator will provide energy to the greenhouse components through a buried utility line to be run



<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> Luis Daniel Alvarado Declet	
<b>Case ID:</b> PR-RGRW-03940	<b>City:</b> Orocovis

between the generator site and the greenhouse. This will require a 3 feet underground disturbance of approximately 75 feet long for the tubes/ cables.

The new water connection also will be made from the existing water service. The water connection will use PVC tube, overground; therefore, there will be no ground disturbance for the water connection. All power will be generated by the diesel power generator.

### **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 composed of the approximately 50 feet by 220 feet artificial terrace previously cleared by the applicant containing Scopes of Work 1 and 2 as described in the undertaking section of this form; no ground disturbance is proposed outside of that previously cleared portion of the parcel (see APE Map). The visual APE is the viewshed of the proposed project.

### **Identification of Historic Properties - Archaeology**

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area does not have any known archaeological sites 0.5 miles from the APE. There is one previous cultural resources study 0.44 miles west of the APE.

No archaeological sites within 0.5 miles of APE.

N/A

One cultural resources survey within 0.5 miles of the APE:

Title: Segregación (10) lotes. Proiedad de la Sucn. Antonio López Torres

ICPR survey number: ICP/CAT-OR-14-05-04


Researcher: Roberto Martinez Torrez

Date: 2014

Phase: 1A and 1B

Results: Negative

Location: 0.44 miles west of APE

<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> Luis Daniel Alvarado Declét		
<b>Case ID:</b> PR-RGRW-03940	<b>City:</b> Orocovis	

In 2021, the APE was cleared by the applicant; clearing activities included leveling of the ground surface resulting in significant alteration and disturbance of the ground surface. After analysis of the available data on the APE, the probability of finding intact cultural resources on or near the APE is low.

### Identification of Historic Properties - Architecture


Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this undertaking. The review of this existing information, by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61), shows that the project area is **not** within the boundaries of the National Register of Historic Places (NRHP)-eligible or listed Traditional Urban Center or Historic District. Additionally, there are **no** NRHP-listed historic properties within the quarter mile buffer zone from the APE.

The proposed project is located in a rural, mountainous terrain with some vegetation and grass areas surrounding the property. The property lies east of State Route 155 north of town in Orocovis. A building circa 1980 is located north of the property. The building is not visible in 1977 aerial imagery, but it is visible in 1983 aerial imagery. The building is a two-story single-family concrete house built on a sloped terrain concrete fence to the west and a retaining wall to the south. The house has slab on grade foundation, a flat concrete roof supported by concrete columns and walls. This building shown below is modern and **does not** meet the requirements to be eligible for listing on the National Register of Historic Places.



**Figures 1 & 2.** USGS 1977 aerial photograph indicating the house, and Northeast view of the building.




<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> Luis Daniel Alvarado Declet	
<b>Case ID:</b> PR-RGRW-03940	<b>City:</b> Orocovi

## Determination

The following historic properties have been identified within the APE:

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

Based on the results of our historic property identification efforts, the Program has determined that project actions will not affect any known historic properties that compose the Area of Potential Effect. No previous archaeological sites have been identified within 0.5 miles of the APE. There is a considerable natural slope (40 to 60 degrees) in the vicinity of the APE. In addition, ground disturbing activities are limited to the 50 feet by 220 feet artificial terrace. With the available data, the program believes No Historic Properties will be Affected by the proposed undertaking.

<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> Luis Daniel Alvarado Declét		
<b>Case ID:</b> PR-RGRW-03940		<b>City:</b> Orocovis

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

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

☒ No Historic Properties Affected

☐ No Adverse Effect

Condition (if applicable):

☐ Adverse Effect

Proposed Resolution (if applicable)

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

The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
<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:** Luis Daniel Alvarado Declét

**Case ID:** PR-RGRW-03940

**City:** Orocovis

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






**TETRA TECH**

Source: CRIM

Author: TG

Date: 10/7/2022

#### Legend

-  Tier 2 Site
-  Area of Potential Effect
-  Parcelario





Subrecipient: Luis Daniel Alvarado Declét

Case ID: PR-RGRW-03940

City: Orocovis

### Project (Parcel) Location - Aerial Map








**TETRA TECH**

Source: CRIM

Author: TG

Date: 9/22/2022

#### Legend

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





**Subrecipient:** Luis Daniel Alvarado Declét

**Case ID:** PR-RGRW-03940

**City:** Orocovis





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



**TETRA TECH**

Source: USGS

#### Legend

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



Subrecipient: Luis Daniel Alvarado Declét

Case ID: PR-RGRW-03940

City: Orocovis

### Project (Parcel) Location – Soils Map



**TETRA TECH**

Source: USDA

Author: TG

Date: 9/30/2022

**Legend**



Tier 2 Site



Parcelario

**Soil Type**



MoF; Maricao clay, 20 to 60 percent slopes



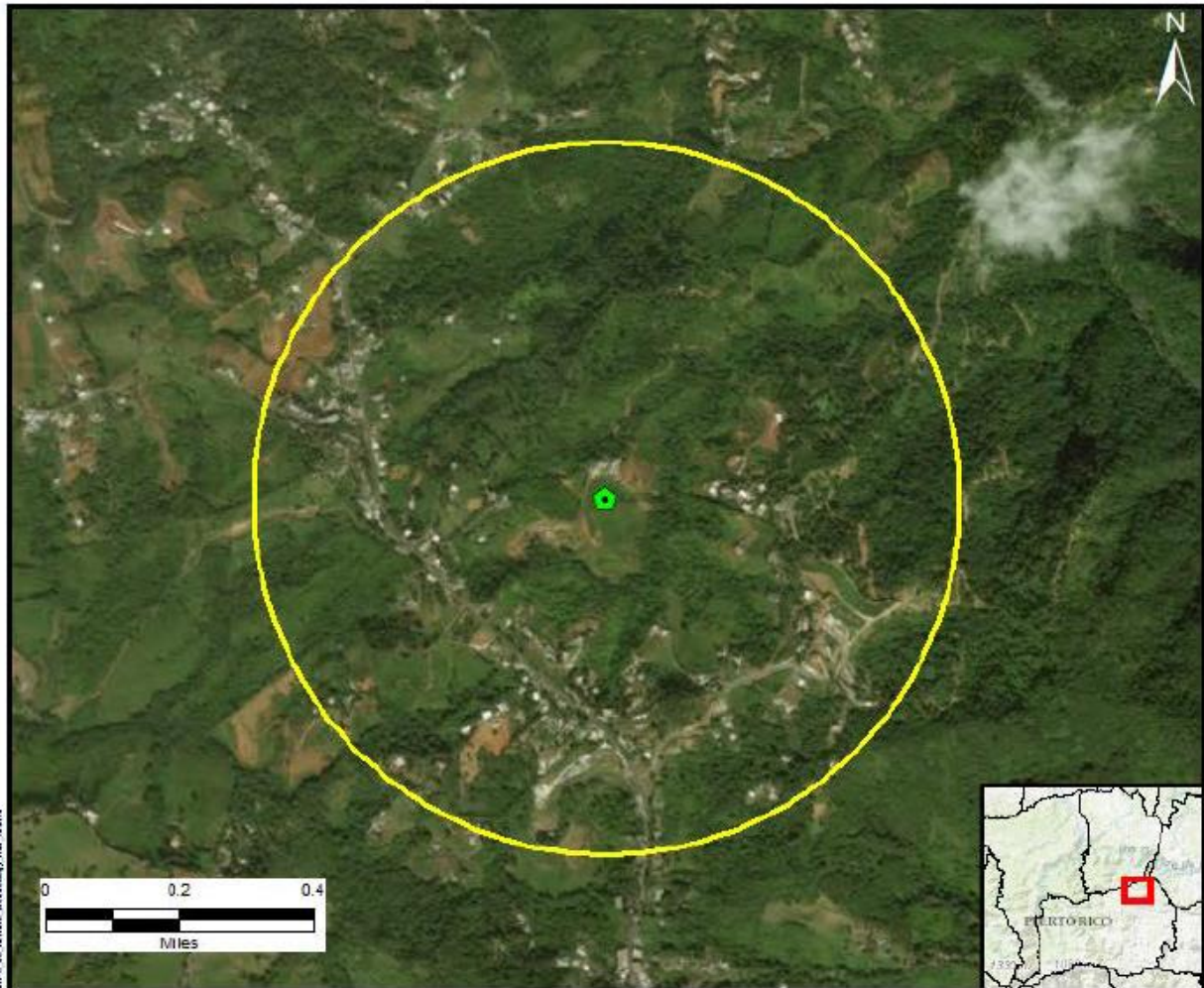


Subrecipient: Luis Daniel Alvarado Declét

Case ID: PR-RGRW-03940

City: Orocovis

### Project (Parcel) Location with Previous Investigations - Aerial Map



Source: National Park Service

Author: TG

Date: 9/29/2022

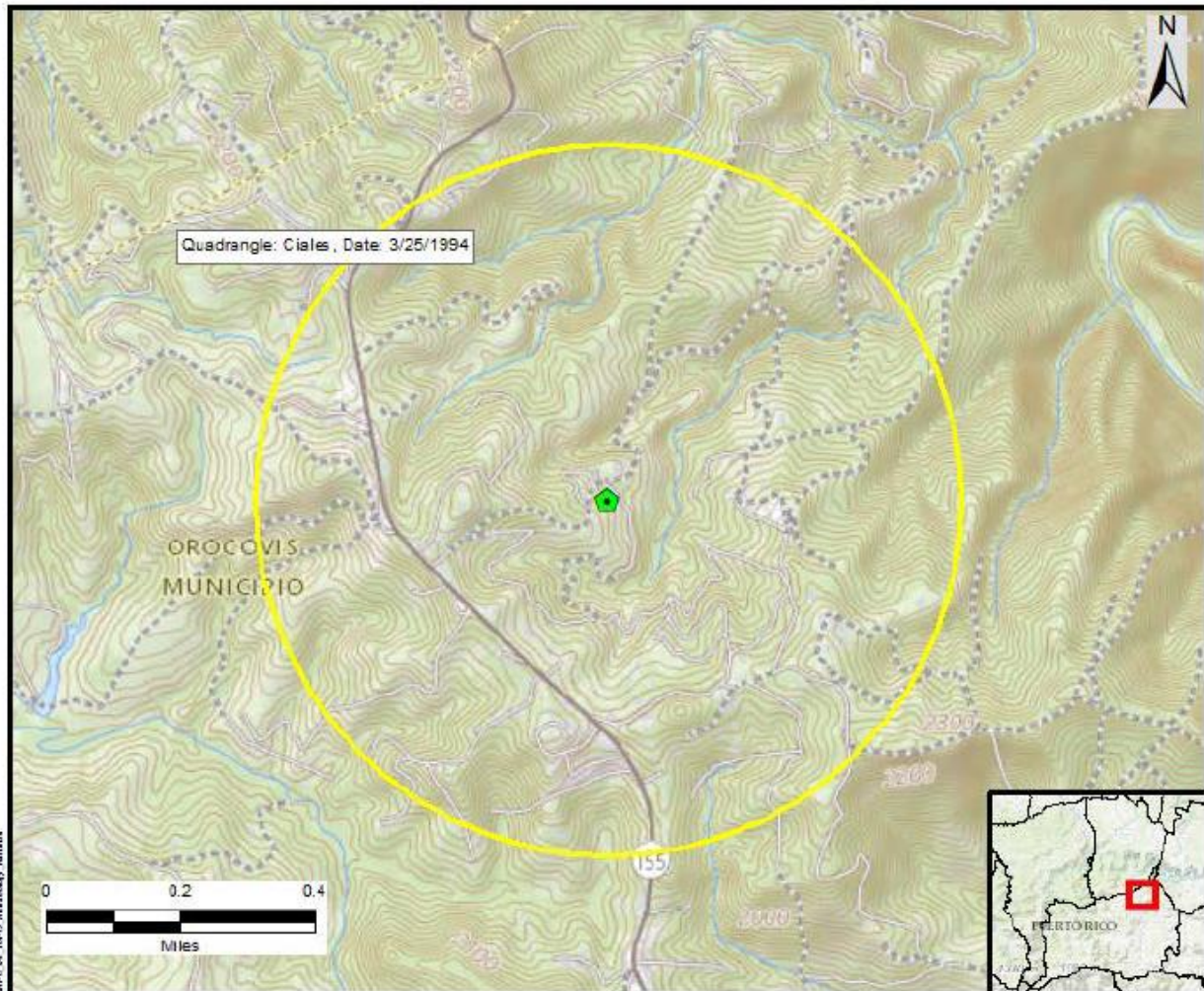
- Legend
-  Tier 2 Site
  -  Half Mile Buffer
  -  Historic Comunidades
  -  Traditional Urban Centers
  -  Cultural Resource District Polygon

Subrecipient: Luis Daniel Alvarado Declét

Case ID: PR-RGRW-03940

City: Orocovis

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



Source: National Park Service

Author: TS

Date: 9/29/2022

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

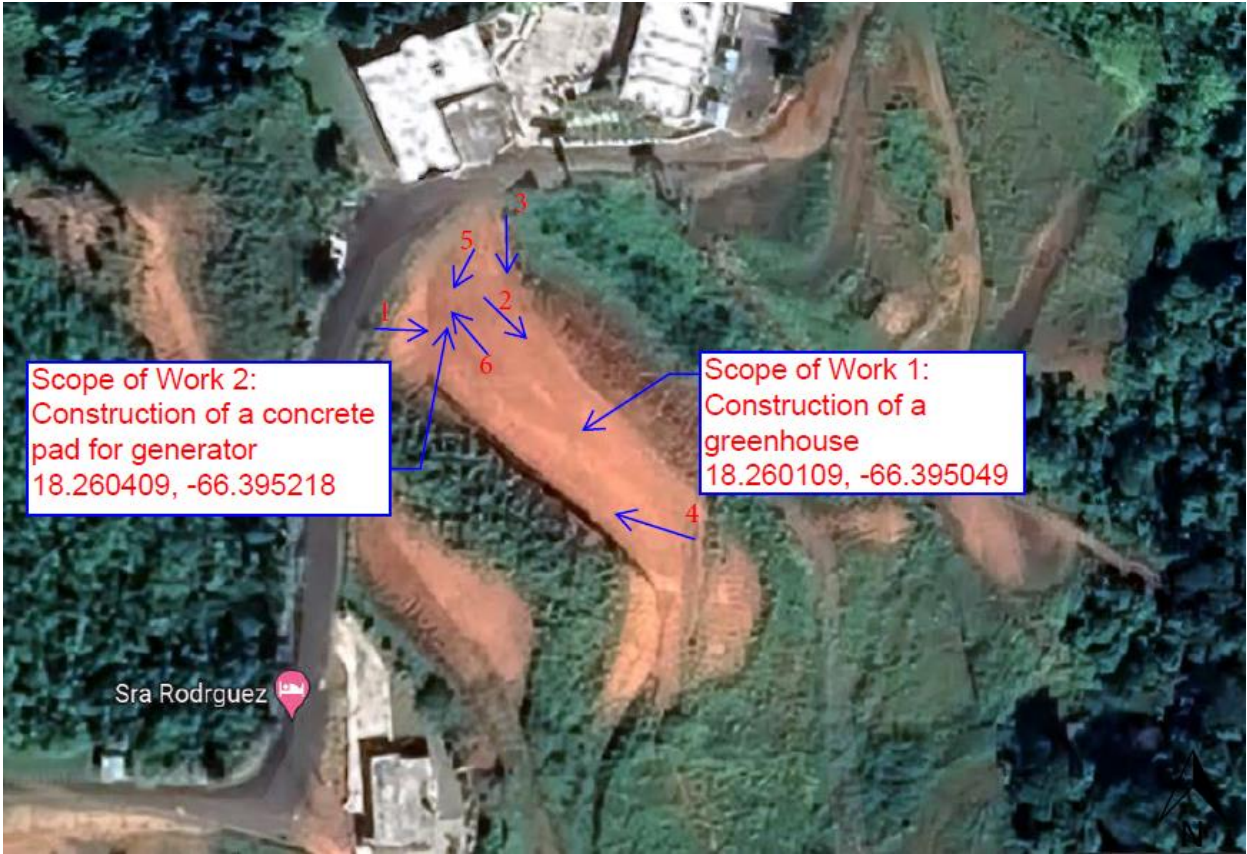


**Subrecipient:** Luis Daniel Alvarado Declét

**Case ID:** PR-RGRW-03940

**City:** Orocovis

### Photograph Key



**Subrecipient:** Luis Daniel Alvarado Declét

**Case ID:** PR-RGRW-03940

**City:** Orocovich



**Photo #:** 1

**Description (include direction):** East

**Date:**

Scope Of Work: Construction of a greenhouse



**Photo #:** 2

**Description (include direction):** Southeast

**Date:**

Scope Of Work: Construction of a greenhouse



**Subrecipient:** Luis Daniel Alvarado Declet

**Case ID:** PR-RGRW-03940

**City:** Orocovis



**Photo #:** 3

**Description (include direction):** South

**Date:**

Scope Of Work: Construction of a greenhouse



**Photo #:** 4

**Description (include direction):** Northwest

**Date:**

Scope Of Work: Construction of a greenhouse

**Subrecipient:** Luis Daniel Alvarado Decler

**Case ID:** PR-RGRW-03940

**City:** Orocovis



**Photo #: 5**

**Description (include direction):** Southwest

**Date:**

Scope Of Work: Construction of a concrete pad



**Photo #: 6**

**Description (include direction):** Northwest

**Date:**

Scope Of Work: Construction of a concrete pad





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