

Environmental Assessment

Determinations and Compliance Findings for HUD-assisted Projects

24 CFR Part 58

Project Information

Project ID: PR-RGRW-04129

Project Name: Agronat, LLC

Responsible Entity: Puerto Rico Department of Housing

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

State/Local Identifier: Puerto Rico/ San Lorenzo, PR

Preparer: Andrew McCadden, revised by Gabriela Rodríguez

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

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

Project Location:

The properties are a 11.45-acres and a 24.81-acres sites located at Quebrada Arrenas Ward Carr. 902 Km. 4.3 in the Municipality of San Lorenzo, Puerto Rico (Parcel ID# 327-000-004-40-000 and 327-000-004-43-001). The coordinates of the project parcel are various depending on the SOW outlined below.

Parcel 1 ID: 327-000-004-43

Coordinates: 18.1147837, -65.9542979

Area Property: 100,383.02 m² = 24.81 acres

Parcel 2 ID: 327-000-004-40

Coordinates: 18.113564, -65.952593

Area Property: 46320.92 m² = 11.45 acres

The land was previously used for tobacco and vegetable farming. The land is currently used for vegetable farming.

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

The proposed project includes the purchase of farm equipment and production supplies. The farm equipment includes the purchase of moto culture implements, a Utility Task Vehicle (UTV), and two solar well pump systems. The motorized farm implements include the purchase of a mower, harrow, roller, and chipper/shredder. The production supplies include the purchase of fertilizer, and the materials for the installation of a shade structure and the equipment to produce vegetables. The solar well pump system consist of a submersible water pump with the solar panels to provide power needed for the pump. From 1920 to 1970 the land was used as a tobacco and vegetables crop farm. Currently the land is still in used for vegetables farming.

The Scope of Work-1 (SOW-1) is to install a solar submersible well pump system at coordinates 18.1146458, -65.9545688 to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. New pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate cropping area. The installation of the solar system to operate the pump will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The Scope of Work 2 (SOW-2) is the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931. The pump will be used to irrigate a new cropping area. The SOW-2 includes the installation of a storage tank and the solar panel system. As in SOW-1 the applicant proposes to use a solar powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The Scope of Work 3 (SOW-3) is the installation of a shade structure at coordinates 18.1133144, -65.9527449. The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 ft, at an approximated depth of 3 ft, to cover a 100 ft x 20 ft area. The proposed action does not include enclosed buildings, residential occupation, or mid- to long-term occupation (more than 4 hours a day) of proposed cropping area structure.

The intended use of fund includes the purchase of fertilizer, a motor culture, and a UTV. The applicant plans to store new farm equipment at an existing steel storage container located at 18.1135770, -65.9528130 next to the area that the applicant plans to prepare for new cropping.

No power or water connections are needed for the proposed project. However, the farm is connected to local power and water utilities. Applicant's future plan is to have refrigerated storage. If connection is needed the applicant plans to connect the power via an aboveground electrical conduit from the main power connection. Materials and

installation costs of power and utility connection activities are not included as part of the intent use of funds. If needed, the applicant plans to pay for the materials and installation of utilities themselves and no HUD funds would be utilized for this portion of work.

The project areas have been previously cleared as part of the operations and maintenance activities. Some clearing, grading, and vegetation removal activities will be required. The project site will require clearing, some grading, vegetation and/or underbrush removal. However, proposal does not contemplate cutting, pruning or transplanting of trees. The APE for the proposed project is approximately 0.94 acres.

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

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

The Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) will increase agricultural capacity while promoting and increasing food security island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities. The purpose of this project is to increase the productivity of the farm. This agricultural project associated with the purchase fertilizers, an UTV, a motorized farm implements (mower, harrow, roller, and chipper/shredder), farm supplies (including materials and installation for new saran crop coverings) and the purchase and installation of 2 new solar water pumps is keeping with the overall objectives of the Economic Development Program.

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

The land proposed for the purchase of fertilizers, an UTV, a motorized farm implements (mower, harrow, roller, and chipper/shredder), farm supplies (including materials and installation for new saran crop coverings) and the purchase and installation of 2 new solar water pumps is used for agricultural purposes with vegetable farming activities. Therefore, there is no change in land use associated with the project.

Proposed SOWs locations are areas have been previously impacted with clearing activities and installations activities. The project site will require clearing, grading, vegetation and/or underbrush removal. However, proposal does not contemplate cutting, pruning or transplanting of trees.

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

Funding Information

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

Estimated Total HUD Funded Amount: \$50,000.00

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$50,253.55

Compliance with 24 CFR 58.5 and 58.6 Laws and Authorities

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors: Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop covering, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper/shredder).</p> <p>The nearest civil airport is the José Aponte de la Torre (RVR), approximately 112,228 feet from the proposed site. The military airport Luis Muñoz Marín (SJU) is approximately 117,584 feet from the proposed site. The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. Refer to Figure 2 in Appendix B.</p>

<p>Coastal Barrier Resources</p> <p>Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>Puerto Rico has various Coastal Barrier Resources Systems (CBRS). The project is in eastern central region Puerto Rico. The distance to the nearest CBRS unit (PR-39) is 46,567 feet. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. Refer to Figure 3 in Appendix B.</p>
<p>Flood Insurance</p> <p>Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is located in Zone X, area of minimal flood hazard per Flood Insurance Rate Map (FIRM) 72000C1780H, effective date April 19, 2005. This project is in compliance with Floodplain Insurance requirements. (See Figures 4 and 5 in Appendix B.)</p>

<p>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 58.5</p>		
<p>Clean Air</p> <p>Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The Project site is not located in a county or air quality management district that is in non-attainment status for any criteria pollutants. The Municipio of San Lorenzo is not listed in the EPA Green Book “Puerto Rico Nonattainment/Maintenance Status for Each County by Year for all Criteria Pollutants”. (See the List in Appendix C). The purchase and installation of 2 solar well pump systems and a Saran shade covering, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper/shredder) would have no impact on air quality. The project is in compliance with Clean Air Act. Refer to EPA listing in Appendix C.</p>
<p>Coastal Zone Management</p> <p>Coastal Zone Management Act, sections 307(c) & (d)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project is located 33,406 feet from the nearest Coastal Zone Management area and does not affect a Coastal Zone as defined in the PR Coastal Zone Management Plan. The project is in compliance with the Coastal Zone Management Act. See Figure 7 in Appendix B.</p>
<p>Contamination and Toxic Substances</p> <p>24 CFR Part 58.5(i)(2)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>A site visit conducted on October 17, 2023, no debris or rubbish or visible signs vegetative stress, contamination, or toxic substances were identified at the project site. The project consists</p>

		<p>of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).</p> <p>No demolition of structures nor mid- to long-term occupation of structures that would require testing for lead-based paint and asbestos containing materials is proposed.</p> <p>The proposed action does not include enclosed buildings, residential occupation, or mid- to long-term occupation (more than 4 hours a day) of structures. Therefore, the consideration of radon in the contamination analysis is exempted under the CPD Notice #CPD-23-103 and no further consideration or action with respect to radon is needed.</p> <p>Site contamination was evaluated through online data searches to determine if toxic sites are located within 3,000-feet of the proposed project.</p> <p>There are no sites of environmental concern identified within 3,000 feet of the project site.</p> <p>Refer to Figures 8 and 9 in Appendix B and the Site inspection report and photos in Appendix A. The project is in compliance with Contamination and Toxic Substances.</p>
<p>Endangered Species</p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes No</p> <p><input checked="" type="checkbox"/> <input type="checkbox"/></p>	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper) located in an area that has been previously used for agricultural purposes.</p> <p>According to EPA NEPAAssist Enviromapper, the nearest critical or proposed critical habitat is 13,735 feet to the northeast of the project location. The Official Species List from the U.S.</p>

Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website lists, the Puerto Rican Boa, Puerto Rican Plain Pigeon, and Guajón as being able to be found in the area, but there are no critical habitats for them at this location.

A site-specific review of endangered species was conducted in accordance with the Fish and Wildlife Act (47 Stat. 401, as amended: 16 U.S.C. 661 et seq.) (See **Appendix D**).

The project is “May affect, but not likely to adversely affect” (NLAA) the Puerto Rican Boa, Puerto Rican Plain Pigeon, and Guajón, provided conservation measures are implemented as part of the project. USFWS concurred with a NLAA determination on September 20, 2024.

If a Puerto Rican Boa is found in the project activity site, work shall cease until the Boa moves off on its own. If the Boa does not move off, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the Boa. PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124. Conservation measures can be found at [Caribbean ES Puerto Rican Boa \(fws.gov\)](https://www.fws.gov).

If a Puerto Rican Plain Pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124). All construction work activities will be confined to daylight hours. If the pigeon is determined present, whenever possible regimen modification activities will not be conducted during breeding season (late January to early July). If is not possible to avoid breeding season, buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds.

Confirmation on the presence/absence of the guajón at the project site must be done prior to any construction activities. All project involved

		<p>personnel must be informed about the potential presence of the guajón in areas where the proposed work will be conducted. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly marked in the project plan and in the field. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the FWS and/or the PDNER. Capture and relocation of frogs should be conducted only by qualified personnel. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections (if detected), including date, time, location, and approximate number of individuals should be established. If a coquí guajón is detected, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the coquí guajón.</p> <p>Refer to Figures 10 and 11 in Appendix B and ESA Package with IPaC Report and conservation measures in Appendix D. This project is in compliance with the Endangered Species Act.</p>
<p>Explosive and Flammable Hazards</p> <p>24 CFR Part 51 Subpart C</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The project does not include development, construction, or rehabilitation that will increase residential density.</p> <p>The project is in compliance with Explosive and Flammable Hazard requirements.</p> <p>Refer to site visit report in Appendix A.</p>
<p>Farmlands Protection</p> <p>Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project site is designated as farmland of statewide importance. The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The project does not include any</p>

		<p>activities that could potentially convert agricultural land to nonagricultural use. Although the project includes new construction, the project is exempt from review under the Farmland Protection Policy Act (FFPA) as the project is limited to construction of on-farm structures needed for farm operations. No further review is required.</p> <p>This project is in compliance with the Farmland Protection Policy Act. Refer to Figure 12 in Appendix B.</p>
<p>Floodplain Management</p> <p>Executive Order 11988, as amended by Executive Order 13690, particularly section 2(a); 24 CFR Part 55</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).</p> <p>The proposed project is not located in a Federal Flood Risk Management Standard (FFRMS) floodplain. FFRMS was determined using the 0.2-Percent-Annual-Chance (PAC) (500-Year) Flood Approach.</p> <p>The Project site is located in Zone X, area of minimal flood hazard per Flood Insurance Rate Map (FIRM) 72000C1780H, effective date April 19, 2005.</p> <p>The Project site is not located in an Advisory Base Flood Elevation (ABFE) special flood hazard area as per ABFE Map, number 72000C1780H, effective date April 19, 2018. Since the project site does not lie within the 0.2 PAC floodplain on the ABFE, it is not within the FFRMS.</p> <p>PFIRMs in Puerto Rico were only developed for certain sections of the municipalities of Carolina, Canóvanas, Loiza, San Juan and Trujillo Alto. The proposed project is located in the municipality of San Lorenzo; therefore, PFIRM information was not available for the area and therefore not considered in the review.</p> <p>See Figures 4, 5 and 6 in Appendix B. This project is in compliance with Executive Order 11988 and Order 13690.</p>

<p>Historic Preservation</p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The site was evaluated on August 2, 2023, by an SOI Qualified Archaeologist. Documentation with maps was subsequently submitted to SHPO on August 14, 2023. Consultation for this project was initiated in August of 2023, with a concurrence with the finding of No Historic Properties Affected received in a letter dated August 21, 2023. Consultation was re-initiated on November 6, 2024 due to a change in the location coordinates of the solar well-pump locations (SOW 1 and 2), and the shade structure (SOW-3). The site was re-evaluated on October 26, 2023, by an SOI Qualified Architect/Architectural Historian. Additionally, the site was evaluated on December 27, 2023 and re-evaluated on November 1, 2024, by an SOI Qualified Archaeologist. SHPO concurred with a finding of No Historic Properties Affected within the project’s Area of Potential on Effects on November 21, 2024.</p> <p>Refer to Figure 13 in Appendix B and the report in Appendix E. This project is in compliance with Historic Preservation requirements.</p>
<p>Noise Abatement and Control</p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>HUD’s noise regulations protect residential properties from excessive noise exposure. The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). HUD noise regulations do not apply as the project does not include new construction for residential use or rehabilitation of an existing residential property. The proposed project is in compliance with Noise Abatement and Control.</p>
<p>Sole Source Aquifers</p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>There are no EPA sole source aquifers in Puerto Rico. The project is in compliance with Sole Source Aquifer requirements.</p>
<p>Wetlands Protection</p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).</p>

		<p>The east coast is 49,027 feet southeast of the property. The closest fresh-water bodies include an unnamed creek that passes through both parcels at an estimated distance of 145 feet to the southeast of the Saran crop coverings APE, the Rio Cayaguas 1,447 feet northeast of the property, an unnamed lake 1,241 feet west of the south of the property. There are several other unnamed creeks within 0.5 miles of the property.</p> <p>The NWI maps identify the unnamed creek in the parcels as a riverine wetland. As mentioned above the closest APE to the identified wetland is for the proposed Saran crop coverings area, to be located at an estimated distance of 145 ft from the wetland (see Figure 14).</p> <p>An undisturbed natural buffer equal or greater than 100 feet, supplemented by standard construction BMPs, and erosion and sediment controls will be kept at all times before and during ground disturbance activities. APE will be clearly delimited prior to the initiation of the construction activities. With these mitigations the construction of the shade structure for the vegetables cropping area would not impact the wetlands and includes no activities that would require further evaluation under this section. The locations of the proposed solar well pump systems (2) are located at distances greater than 320 feet away from the identified wetland. During operation the applicant is responsible for the maintenance of the undisturbed natural buffer.</p> <p>The project is in compliance with Executive Order 11990. Refer to Figure 14 in Appendix B.</p>
<p>Wild and Scenic Rivers</p> <p>Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)</p>	<p>Yes No</p> <p><input type="checkbox"/> <input checked="" type="checkbox"/></p>	<p>This project is not within proximity of a National Wild and Scenic River (WSR). The distance to the nearest WSR is approximately 78,560 feet. The project is in compliance with the Wild and Scenic Rivers Act. Refer to Figure 15 in Appendix B.</p>

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

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
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The proposed project is located on a private farm. The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The project site is zoned as "Suelo Rústico Especialmente Protegido-Agrícola (SREP-A)". The proposed action is compliant with the

		current agricultural land use of the Project area.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p>The proposed project is located within rural, mountainous terrain surrounded by crop lands and vegetation. The parcel was previously used for tobacco and vegetable farming and now is used for vegetable farming. There are three soil types in the APE. The project area is composed of eroded Jagüeyes loam with 20 to 60 percent slopes (LoF2); and Pandura sandy loam with 40 to 60 percent slopes. The proposed project area is 280 meters above mean sea level.</p> <p>The project site has previously been cleared, ground disturbance and vegetation removal will be required. The total APE is estimated in 0.94 acres. The APE is divided as follow: the SOW-1 with an estimated area of 0.10 acres, SOW-2 with an estimated area of 0.10 acre, and SOW-3 with an estimated area of 0.74 acres.</p> <p>The project site will require clearing, grading, and vegetation removal. However, proposal does not contemplate cutting, pruning or transplanting of trees.</p> <p>Activities involving clearing, excavation, or movement of more than 40 cubic meters of any component of the terrestrial cortex material require the submittal and approval of the applicable permit by the PRDNER. Applicant is responsible for any permits or actions to ensure legalization of proposed activities.</p> <p>The project site area is rated as “moderate” to “high” for landslide susceptibility (see Figure 16 in Appendix B). The proposed project areas are located on a relatively flat plot that has been previously cleared.</p> <p>There will be no human habitation associated with the structure and therefore extensive mitigation measures will not be required, such as retaining walls or special engineering design. Undisturbed natural buffer zone of more than 100 feet will be maintained from the riverine wetland and standard construction BMPs would be used to control erosion and runoff during construction. There will be little to no additional runoff associated with the project.</p>

Hazards and Nuisances including Site Safety and Noise	2	<p>During implementation of the project, construction activities may result in temporary elevation of ambient noise levels in immediate areas around active construction areas. The only nearby receptors are the residents of the farm.</p> <p>There is no access to the project area by the public. Standard BMPs, such as construction fencing, would be applied to protect the farm residents and public from typical construction hazards.</p>
Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	2	<p>Temporary employment of workers related to construction activities would result, but no new permanent jobs would be created as a result of this project. These workers are expected to come from the local region. However, since the project will include an economic component, it may aid in restoring some employment opportunities and increase income. The proposed project would not negatively impact employment or income patterns.</p>
Demographic Character Changes, Displacement	2	<p>The proposed project would not result in demographic character changes or displacement. Given the nature of the project area, no relocations or demolition of residential structures or businesses would occur as part of this project.</p>
Environmental Justice	1	<p>In the area (one mile radius) in which project will occur.</p> <p>100% are people of color compared to PR average of 96%</p> <p>83% are low income compared to PR average of 70%</p> <p>17% are unemployed compared to PR average of 15%</p> <p>The purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper) will result in restoration and increase in income and potential employment opportunities in the local area. The impacts would be beneficial.</p> <p>See EJSscreen Report in Appendix C.</p>

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The project would not result in any change to regional or local area educational and cultural facilities or increase demand for them.
Commercial Facilities	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The agricultural activity of the project property will improve. Other commercial facilities would not be impacted by the proposed project.
Health Care and Social Services	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). Health care and social services facilities would not be impacted by the proposed project. The project would not increase demand for health care and social services facilities.

Solid Waste Disposal / Recycling	2	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).</p> <p>Waste vegetation from clearing activities will either be composted on site or at regional composting centers. Soil from grading would be recycled on the farm as fill. Left over construction materials that could be reused on the farm would be stored for later use. The remaining construction solid waste materials would be collected for transport to the local landfill. The amount of impact of solid waste resulting from the construction of the proposed project would be minor. During operations, the products and by-products would be agricultural, which waste would be biodegradable. Other waste components related to the operation of the proposed project includes recyclable materials such as plastics and cardboard. Recyclables will be set aside and dispose according to the local recycling management plan. The remaining municipal solid waste would be collected for the transport to the local landfill.</p>
Wastewater / Sanitary Sewers	2	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. The proposed project would not include any bathrooms, wastewater, or sewage facilities. Current farm conditions would remain unchanged.</p>
Water Supply	2	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).</p> <p>The proposed SOW does not include the drilling of a water well. The SOW-1 and SOW-2 are the installation of 2 solar well pumps systems to be submerged in storage tanks and be used for irrigation purposes. The farm currently connected to the local water utility service and the storage tanks receive metered water. The applicant plans to provide water to a new cropping area. This action will create a small increase in the water supply demand.</p>

Public Safety – Police, Fire and Emergency Medical	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The proposed project would not create any new demand for emergency or health services.
Parks, Open Space and Recreation	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper). The proposed project would not create or destroy any new parks, open space, or recreational activities. It also would not increase use of those facilities.
Transportation and Accessibility	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. The proposed project would not involve the creation of new roads nor any increase in long-term traffic on existing roads. There would be some minor use of the existing road during construction. All residents and businesses would retain access to their properties during and after the project.
Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. The proposed project will be situated on land previously used for agriculture and will have no impact to unique natural features or water resources. Farm is currently connected to local water service. Undisturbed natural buffer zone of more than 100 feet will be maintained from the riverine wetland and standard construction BMPs would be used to control erosion and runoff during construction.

Vegetation, Wildlife	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. The proposed project will occur on land previously used for agricultural purposes and will continue in that capacity. The proposed project will have a minor impact on vegetation with some terrestrial cortex removal and ground disturbances for the construction and the operational activities of the farm. No impact on wildlife is predicted during operational activities. No vegetative debris or clearing exceedance material will be stored at site during construction nor operational activities.
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Environmental Assessment Factor	Impact Code	Impact Evaluation
CLIMATE AND ENERGY		
Climate Change Impacts	2	<p>The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. This is a small agricultural project with no measurable impact on climate change factors.</p> <p>The project area is rural and does not have urban heat island effects.</p> <p>There would be no changes to the site configuration or structure that would specifically address the possibility and uncertainty of rising sea levels or the possibility of increases in rainfall intensity.</p> <p>With respect to climate change impact on the project, agricultural activities could be affected by drought.</p>
Energy Efficiency/Energy Consumption	2	The project consists of the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements. The proposed solar well pump system is a kit that contains the panels, pump, sensors, and a pump controller, among other installation needed items. The pump controller keeps the attached batteries charged and converts power as needed to operate the well pump. The remaining proposed SOWs does not involve energy use. The agricultural operations are not currently connected to the local utility service. There would be no change in energy demand in the area.

Additional Studies Performed: None required.

Field Inspection (Date and completed by):

Site inspection was conducted on October 17, 2023 by Antonio A. Martinez.

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

Puerto Rico State Historic Preservation Office

FAA, National Plan for Integrated Airport Systems:

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

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

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

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

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

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

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

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

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

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

Puerto Rico Coastal Zone Management Program Plan, September 2009.

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

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

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

List of Permits Obtained:

None

Public Outreach [24 CFR 58.43]:

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

Cumulative Impact Analysis [24 CFR 58.32]:

In accordance with 24 CFR 58.32 (Aggregation), there are no cumulative impacts associated with the proposed project. The growth of agricultural products at the farm would not increase. The project would allow more efficient processing and growing of the agricultural products. Water use would increase to a minor degree but would only impact the existing site water supply.

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

The RGRW Program's goal is to increase agricultural capacity while promoting and increasing food security island-wide. This Program seeks to enhance and expand agricultural production related to economic revitalization and sustainable development activities. The applicant submitted a proposal to enhance and expand agricultural production on their property. The proposed use of grant funds will allow the applicant to expand the cultivation, processing, and delivery of agricultural products through the purchase and installation of 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper).

Among the reasonable courses of action, other uses of the subject site, alternative locations (on and off property), and design modifications, were the analyzed alternatives. The actions are proposed in an area that has been used for agricultural purposes and has been cleared. The alternative to give another use to the subject site could potentially convert agricultural land to nonagricultural use, could delay current agricultural production, and would not increase, enhance or expand agricultural production. This action is not consistent with the Program's goal, the alternative to give another use to the subject site was not selected.

Among the possible impacts of alternative location, the location of the proposed SOW's off property will require transportation of equipment and products in and out of the property creating an increase in traffic and other vital impacts due to the transportation of materials and heavy equipment. Any alternative that would involve an off-property or give other uses to the site might require the relocation of current agricultural activities, purchase of land, the need for storage area, the movement of products, equipment, infrastructure, water and power utility connections, the preparation of cropping areas, among others, representing an additional cost. Given the above-mentioned possible impacts of an alternative location, an off-property alternative was not selected. Alternative locations off and on property, and design modifications to the proposed scopes of works may also represent an impact to undisturbed and/or uneven ground, sloped terrain or within forested areas, which could require heavier clearing and grading activities.

To give other uses to subject site, an alternative on and off property location, and design modifications to proposed scopes of works, will not enhance and expand agricultural production or allow for the economic development for this applicant. Given the above-mentioned possible impacts of the presented courses of action to give other

uses to the subject site, an alternative location off and on the property, and design modifications to the proposed scopes of works or were not the selected alternatives.

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 2 new solar well pump systems, the purchase and installation of new Saran crop coverings, and the purchase of fertilizers, an UTV, and motorized farm implements (mower, harrow, roller, and chipper), which would inhibit the economic growth opportunity that the applicant would not otherwise have under the PRDOH Re-Grow Puerto Rico program. As a result, these owners may not be able to experience the growth needed to recover and expand their agriculture activities. A provision of the grant allows for economic development for businesses. The No-Action alternative would not allow for the economic development for this applicant.

Summary of Findings and Conclusions:

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

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

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

Law, Authority, or Factor	Mitigation Measure
Water Supply	Prior to construction, the applicant will contact the DNRNA to determine the required permits and authorizations

Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	Standard construction BMPs would be used to control erosion and runoff during construction. The applicant must comply with all laws and regulations concerning the proper handling, storing, application, and disposal of Fertilizers and Pesticides. The applicant must follow the label instructions and requirements to prevent adverse environmental effects.
Wetlands Protection	Standard construction BMPs would be used to control erosion and runoff during construction.
Endangered Species	<p>The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat:</p> <ol style="list-style-type: none"> 1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site. 2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas. 3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area. 4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). Do not capture the boa. If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #: (787) 724-5700, (787) 230-5550, (787) 771-1124). If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own. Activities at other work sites, where no boas have been found after surveying the area, may continue. 5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and

comments on how the animal was detected and its behavior.
6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.

7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.

8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.

9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.

10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance. PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124

Conservation measures can be found at [Caribbean ES Puerto Rican Boa \(fws.gov\)](https://www.fws.gov/CaribbeanES/PuertoRicanBoa).

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

	<p>determined present, whenever possible regimen modification activities will not be conducted during breeding season (late January to early July). If is not possible to avoid breeding season, buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds.</p> <p>Confirmation on the presence/absence of the guajón at the project site must be done prior to any construction activities. All project involved personnel must be informed about the potential presence of the guajón in areas where the proposed work will be conducted. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly marked in the project plan and in the field. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the FWS and/or the PDNER. Capture and relocation of frogs should be conducted only by qualified personnel. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections (if detected), including date, time, location, and approximate number of individuals should be established. If a coquí guajón is detected, the Construction Manager shall contact the Puerto Rico Department of Natural and Environmental Resources and ask for them to relocate the coquí guajón.</p>
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Permits or Agency Approvals Required

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

<p>Utility Connections- LUMA/PRASA</p>	<p>The project does not involve new utility connections. Facilities have local utility services connections. The applicant has stated his intention to install 2 solar power system to provide power to use the submersible pumps for irrigation. However, the applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities.</p>
<p>Utility Connections- Water supply</p>	<p>The project does not involve new water utility connections. Facilities have local water utility services connections. However, the applicant is responsible for any permits or actions to ensure legalization of utility connections (if needed) prior to construction activities.</p>
<p>Clearing activities</p>	<p>Activities involving the excavation or movement of any component of the terrestrial cortex material that exceeds five hundred (500) cubic meters and up to a maximum of five thousand (5,000) cubic meters require the submittal and approval of a Simple Terrestrial Cortex Removal Permit. Applications are submitted via the Single Business Portal of the OGPe to be evaluated and physicalized by terrestrial Cortex Extraction Permit Division of the PRDNER.</p>

Determination:

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

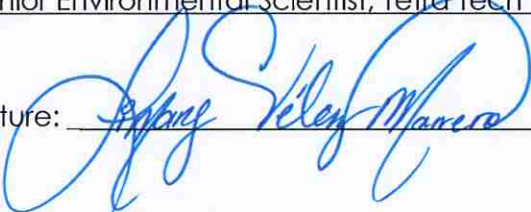
The project will not result in a significant impact on the quality of the human environment.

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: 12/3/2024

Name/Title/Organization: Andrew McCadden, Senior Biologist, Tetra Tech Inc. revised by Gabriela Rodríguez, Senior Environmental Scientist, Tetra Tech Inc.

Certifying Officer Signature:  Date: 12/11/2024

Name/Title: Limary Vélez Marrero / 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-04129		
Applicant Name	Agronat, LLC		
Property Address	Barrío Quebrada Arrenas Carr. 902 Km. 4.3		
Parcel ID	327-000-004-43, 327-000-004-40		
Coordinates	18.113564, -65.952593		
Inspector Name	Antonio A. Martinez		
Inspection Date	10/17/2023		
Building Type	vacant		
Number of Units	0		
Number of Stories	0		
Year Built; Data Source	----; Historian		
ENVIRONMENTAL OBSERVATIONS (attach photos and notes, as necessary, for any YES answers)			
OBSERVATION ITEMS	YES	NO	COMMENTS
A. Is the structure in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
B. Is structure a greenhouse?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
C. Is Electricity connected?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
D. Is water connected? (Utilities or Well)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1. Are there signs of poor housekeeping on site? (mounds of rubble, garbage, storm debris, solid waste, petroleum products, paint, pesticides, cleaning fluids, vehicle batteries, abandoned vehicles, pits, pools, ponds of hazardous substances, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Are there any 55-gallon drums visible on site? If yes, are they leaking?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3. Are there any (or signs of any) underground storage tanks on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Are there signs of ASTs on the parcel or adjacent parcel? If yes, list approximate size and contents, if known.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1x 2000 gallons 1x 600 gallons 1x 250 gallons Water
5. Is there any stained soil or pavement on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Is a water drainage system in use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7. Is a warehouse in use for storage of Fertilizer or Pesticides ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Currently in use to store fertilizer products and tools, insulated
8. Are there any groundwater monitoring wells on the site or adjacent parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Is there evidence of a faulty septic system ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10. Is there distressed vegetation on the parcel?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

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

Additional Notes:

Coordinates: 18.1147837, -65.9542979

Is the field graded? For what purpose the field was graded? Month, Year:

Scope of Work: The proposed project includes the purchase and installation of new solar covers (saran) with new posts installed (production supplies), motorculture implements, solar well pump system, UTV and fertilizers.

Land current in use for: Vegetables farming

Past Land use was: Tobacco and vegetables farming from 1920 to 1970.

The applicant plans to do: Installation of two (2) solar well pump system for pressurized water irrigation, one for existing farm land currently in use and for the empty land planned to farm vegetables. Installation of Saran cover rolls, ground covers and metal posts to cover and protect vegetable farming land. Applicant also is planning to purchase UTV, fertilizers and motorculture implements (tractor) and will be stored in a steel container next to scope of work #4 coordinates.

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

Scope of work #1: Construction of a solar well pump system

Coordinates: 18.1146458, -65.9545688

Installation of a solar well pump system to provide pressurized water irrigation to existing farming land.

Scope of work #2: Construction of a solar well pump system

Coordinates: 18.1135646, -65.9525931

Installation of a solar well pump system to provide pressurized water irrigation to farming land.

Scope of work #3: Saran and ground covers with metal posts

Coordinates: 18.1133144, -65.9527449

Installation of seven (7) Saran cover rolls, each 100' L x 20' W, ground covers and metal posts to cover and protect vegetable farming land

Scope of work #4: UTV, fertilizers and motorculture implements (tractor) purchase.

Coordinates: 18.1135770, -65.9528130

Applicant planning to purchase UTV for farming land transportation, motorculture implements (tractor) to work farming land and fertilizers.

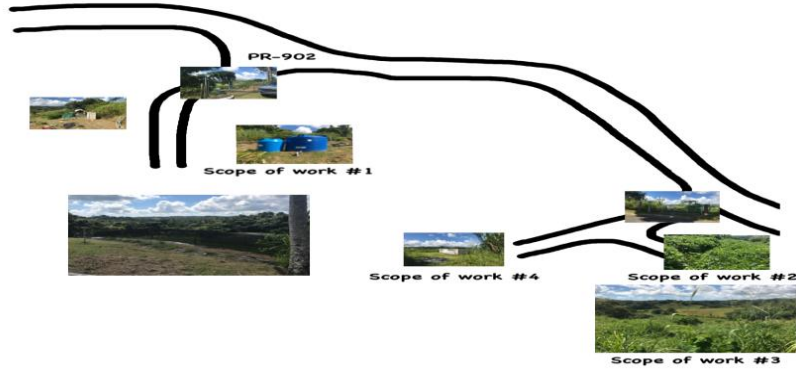
Any new water connection or power connection?

Water service will be provided by pressurized solar water well system and stored in a 2,000 and 600 gallons water tanks. Power service connection/ infrastructure not available, service will go overground to a wood pole approximately 20 feet northeast of storage container.

If the scope of work included tools, machinery or farms products, Where the applicant will be storing them?

Applicant will store UTV, tractor and fertilizers in a steel container next to scope of work #4 coordinates.

Site Sketch



Front of Structure

Photo Direction: South



Facing Away From Front

Photo Direction: North



Side #1 of Structure

Photo Direction: Southwest



Facing Away From Side #1

Photo Direction: Northeast



Back of Structure

Photo Direction: Southwest



Facing Away From Back

Photo Direction: Northeast



Side #2 of Structure

Photo Direction: Southeast



Facing Away From Side #2

Photo Direction: Northwest



Streetscape #1

Photo Direction: East



Streetscape #2

Photo Direction: West



Address

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

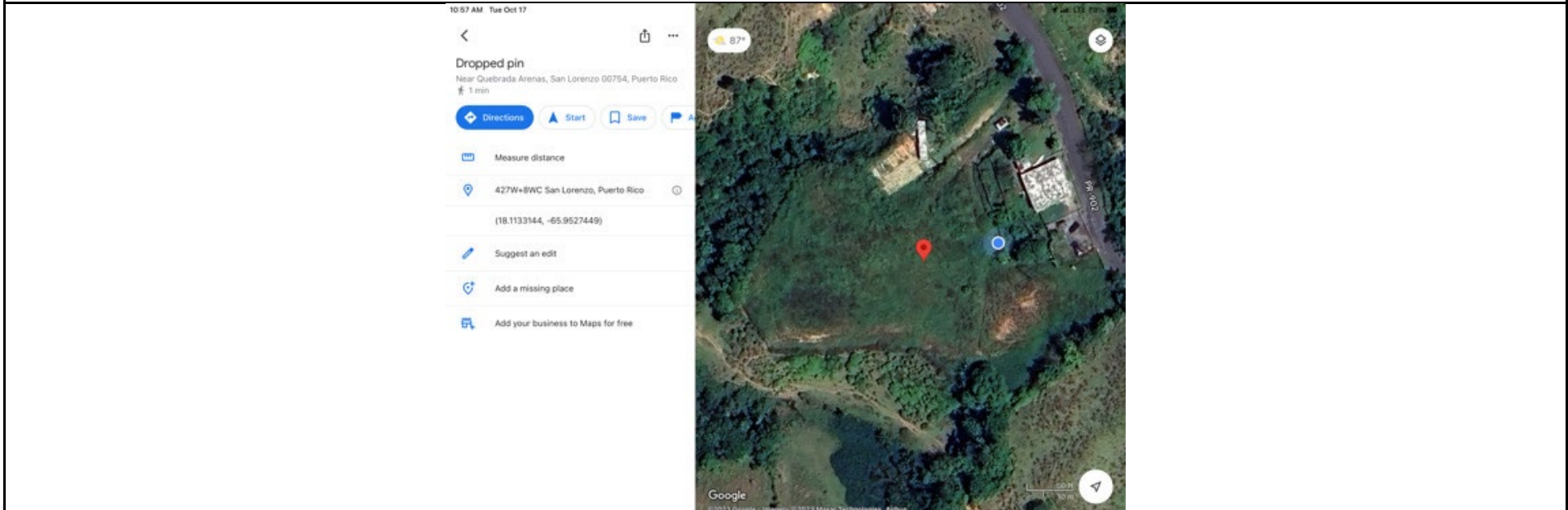
Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Aboveground Storage Tanks

Photo Description: Cistern tanks

Photo Direction: Southeast



Aboveground Storage Tanks

Photo Description: 200 gallons cistern

Photo Direction: Southwest



Warehouse Use

Photo Description: Steel container

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: North



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: South



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: West



Scope Of Work

Photo Description: Scope of work #2: Solar well pupm systemp

Photo Direction: East



Scope Of Work

Photo Description: Scooe of work #2: Solar well pump system

Photo Direction: Southeast



Scope Of Work

Photo Description: Scooe of work #2: Solar well pump system

Photo Direction: West



Scope Of Work

Photo Description: Scope of work #2: Solar well pump system

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: South



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: South



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Northeast






APPENDIX B

Maps



Legend

-  Project Parcel
-  Parcels
-  Area of Potential Effect

PUERTO RICO



Figure 1: PROJECT LOCATION
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

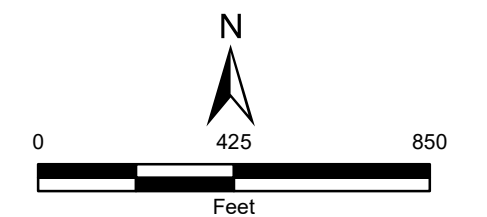
Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564 , -65.952593



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

Author: TG Date: 10/9/2023





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: 112,228**

**Distance to Nearest Civilian Airport
in Feet: 112,228**

**Distance to Nearest Military Airport
in Feet: 117,584**

PUERTO RICO



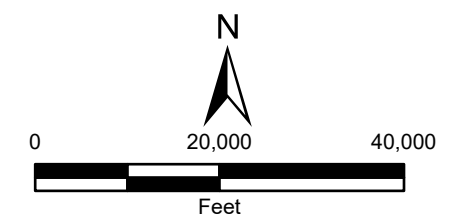
Figure 2: AIRPORT ZONES
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3, PR 00754
Name of Development: Agronat, LLC
Parcel Coordinates: 18.113564 , -65.952593



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

Author: TG Date: 2/14/2024



File Path: Z:\data\USRT\Tier2\Regrow\APRZ_Secondary_Imagery_Regrow\APRZ_Secondary_Imagery_Regrow_5.aprx



Legend

Project Parcel

Coastal Barrier Resources System Boundary

Unit

PR-39

Distance to Nearest Coastal Barrier Resources System:
46567 Feet

PUERTO RICO



Figure 3: COASTAL BARRIERS IMPROVEMENT ACT
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

Name of Development: Agronat, LLC

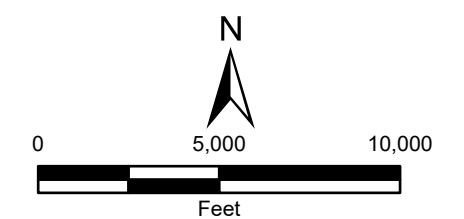
Parcel Coordinates: 18.113564 , -65.952593



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










Author: TG

Date: 10/17/2023



File Path: Z:\data\USFWS\Tier2\Regrow\pr\CBRS_Secondary_Imagery_Regrow_1.aprx



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

PUERTO RICO



**Figure 4: FLOOD INSURANCE RATE MAP (FIRM)
 APPLICANT ID: PR-RGRW-04129**

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

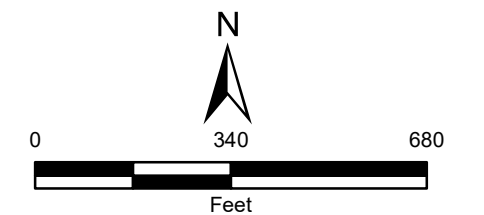
Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564 , -65.952593



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

Author: TG Date: 10/23/2023





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, AE, X
- With BFE or Depth Zone AE, AD, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
- 17.2 Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped

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



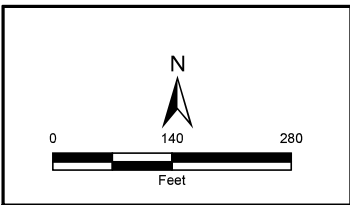
FIGURE 5: NATIONAL FLOOD HAZARD LAYER FIRMETTE

APPLICANT ID: PR-RGRW-04129
 ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564 , -65.952593

TETRA TECH

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

Author: TG Date: 5/31/2023



File Path: \\msk01\GIS\Projects\2023\20230531_04129_NFH\Map_Series\05312023\Figure 5 - National Flood Hazard Layer Firmette.mxd



- Legend**
- Project Parcel
 - Parcels
 - ABFE Flood Zone
 - A
 - AE
 - AO
 - VE
 - X (0.2% ACF)
 - Area of Potential Effect

PUERTO RICO



**Figure 6: ADVISORY BASE FLOOD ELEVATION (ABFE) MAP
 APPLICANT ID: PR-RGRW-04129**

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

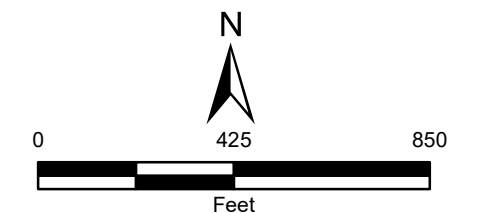
Name of Development: Agronat, LLC

Parcel Coordinates :18.113564 , -65.952593

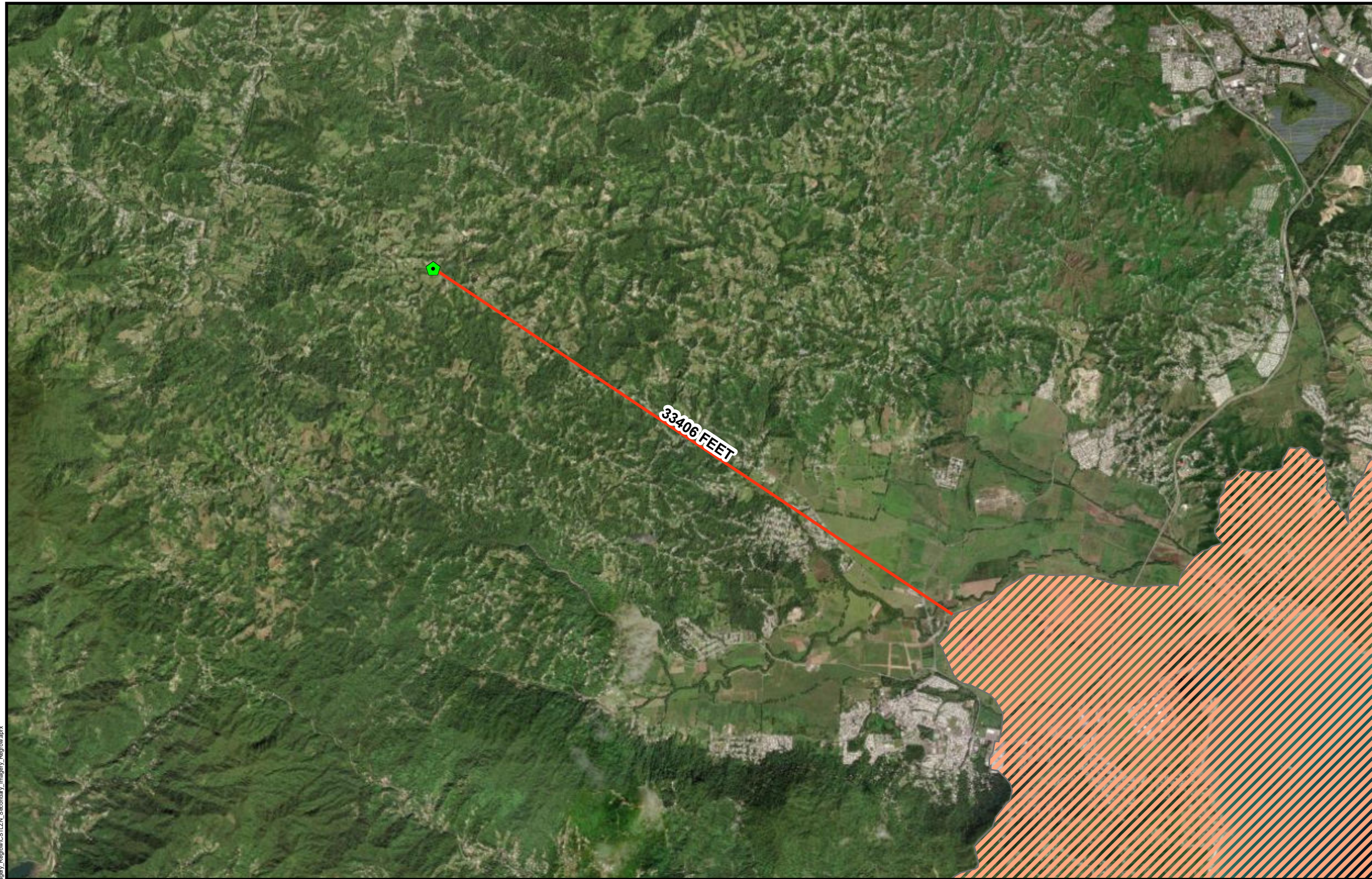


Source: FEMA
<https://gis.fema.gov>



Author: TG Date: 10/24/2023



File Path: Z:\data\USPRT\Fig\ABFE_Secundary_Imagery_Register.mxd



Legend

-  Project Parcel
-  Coastal Zone Management Boundary

Distance to Nearest Coastal Zone:
33406 Feet

PUERTO RICO



**Figure 7: COASTAL ZONE MANAGEMENT
APPLICANT ID: PR-RGRW-04129**

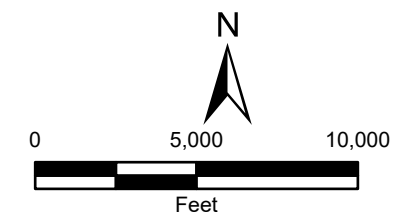
ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

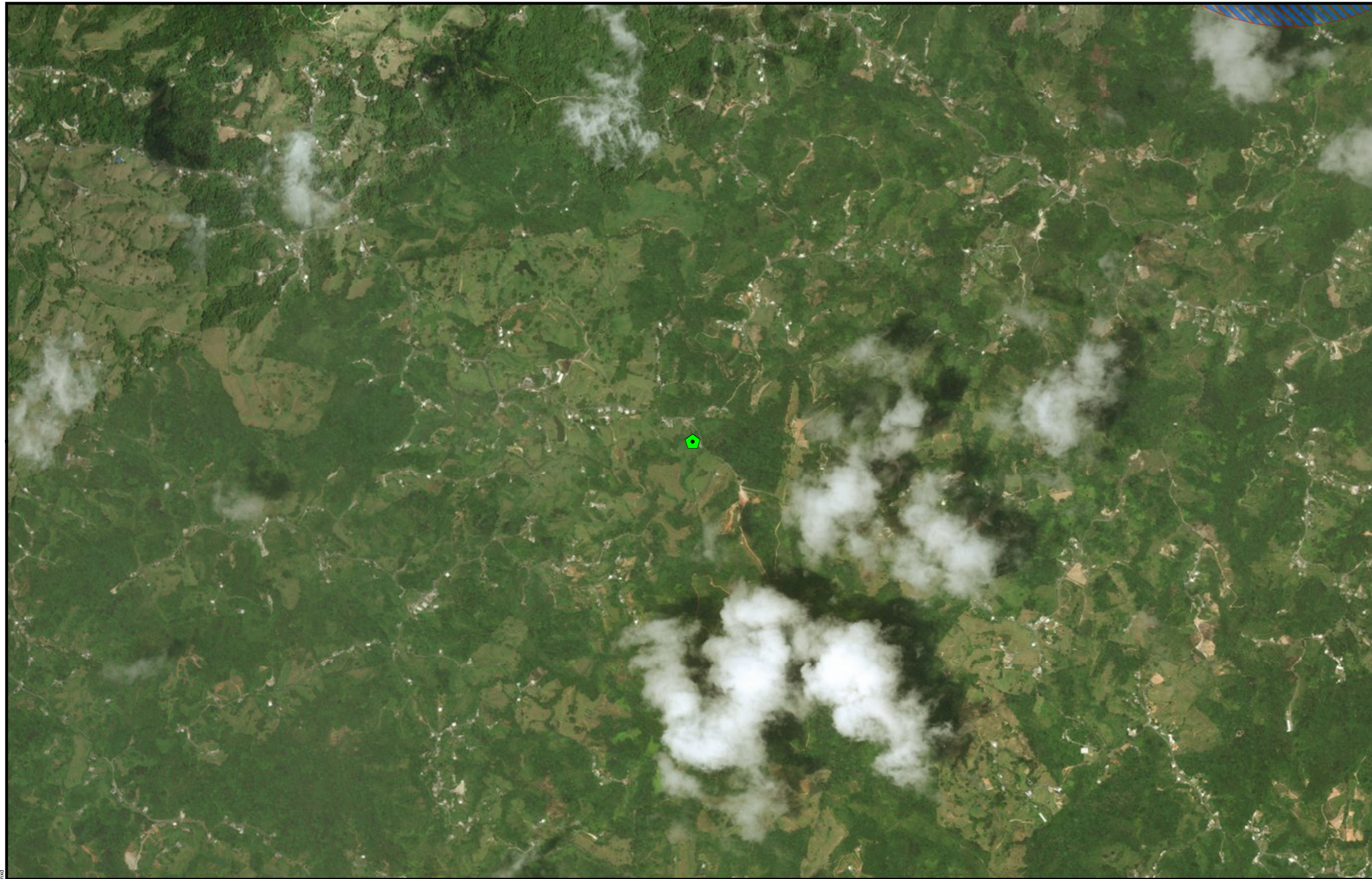
Name of Development: Agronat, LLC
Parcel Coordinates: 18.113564, -65.952593



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

Author: TG Date: 10/17/2023





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

PUERTO RICO

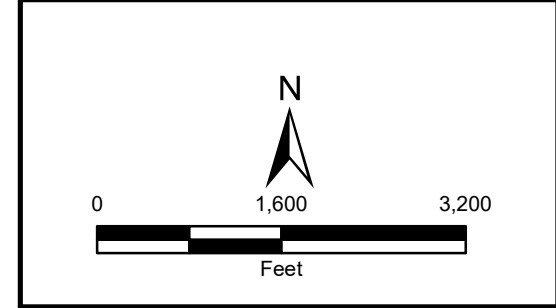


**Figure 8: TOXIC CHEMICALS AND GASES, HAZARDOUS MATERIALS,
CONTAMINATION, AND RADIOACTIVE SUBSTANCES**
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
Name of Development: Agronat, LLC
Parcel Coordinates: 18.113564, -65.952593

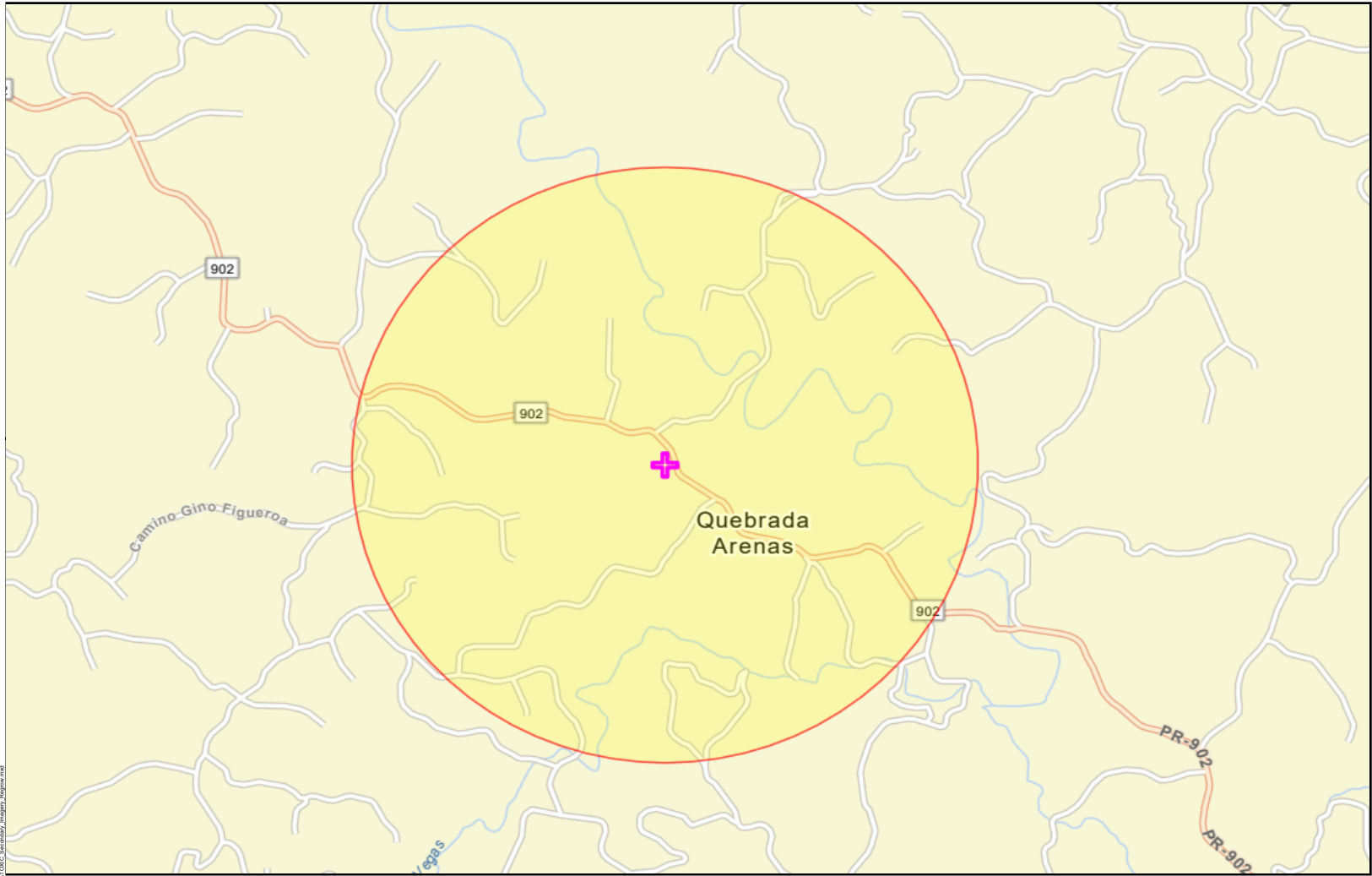


Source: E.P.A.
<https://www.epa.gov/frs/geospatial-data-download-service>



File Path: Z:\data\USPR\Tier1\TOXIC_Secondary_Imagery_Regrow.mxd

Author: JB/AK Date: 10/9/2023



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



TETRA TECH

Source: E.P.A.
<https://www.epa.gov/frs/geospatial-data-download-service>

Author: JB/AK Date: 5/18/2023

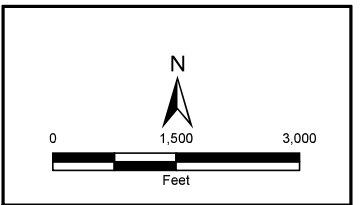
Figure 9: NEPA Assist Map

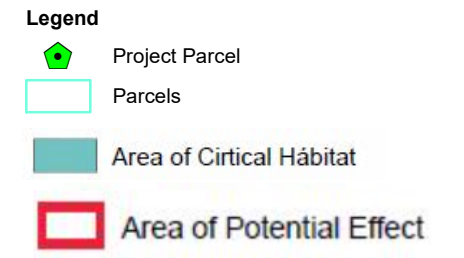
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564 , -65.952593



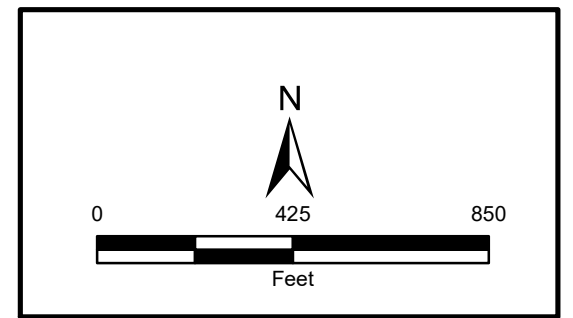


**Figure 10: ENDANGERED SPECIES ACT
 APPLICANT ID: PR-RGRW-04129**

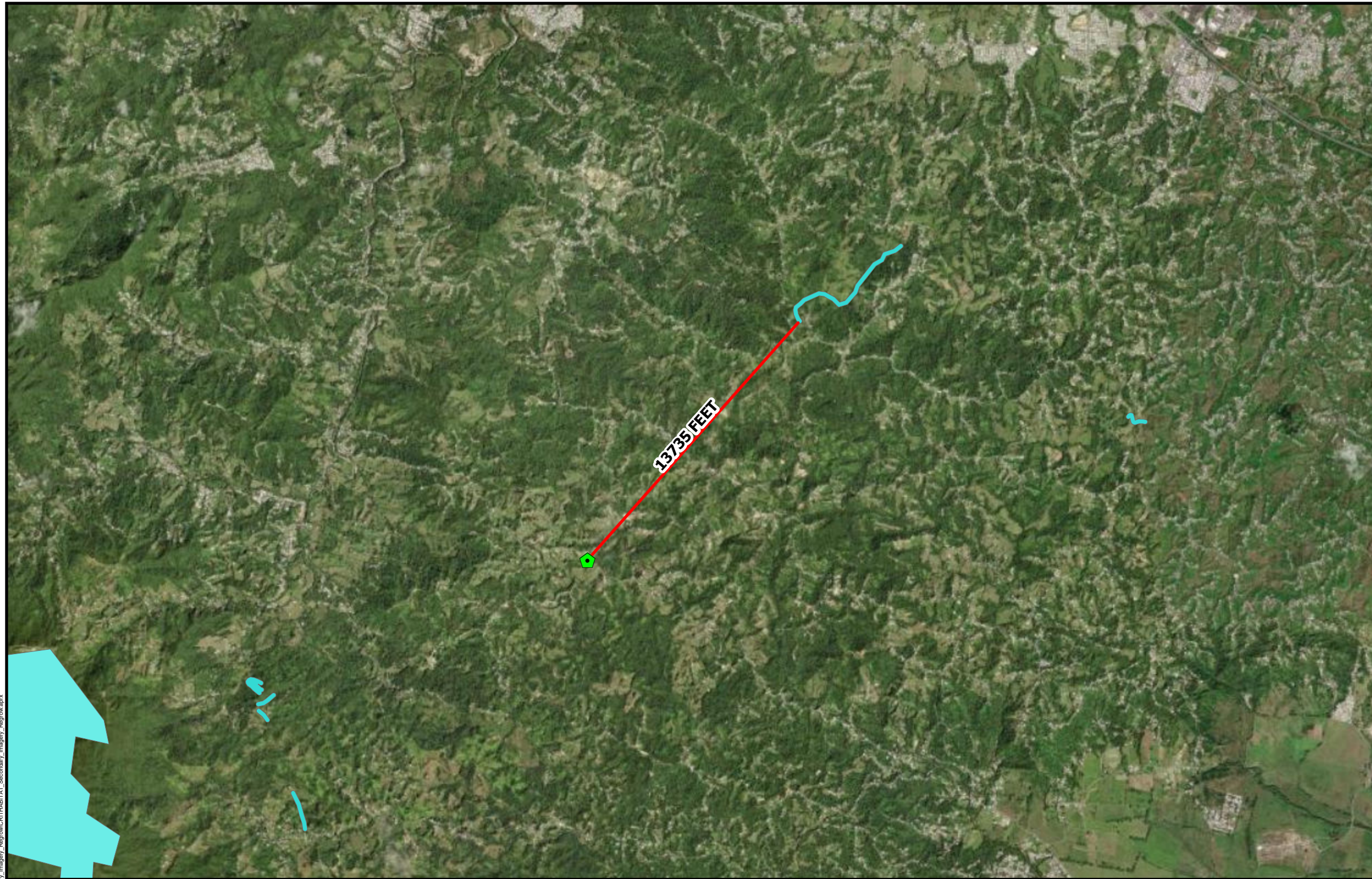
ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593







Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>
 Author: TG Date: 10/23/2023



File Path: Z:\data\USFWS\Tier2\ESA_Secundary_Imagery_Regrow.mxd



- Legend**
-  Project Parcel
 - comname**
 -  Elfin-woods warbler
 -  Guajon
 -  No common name

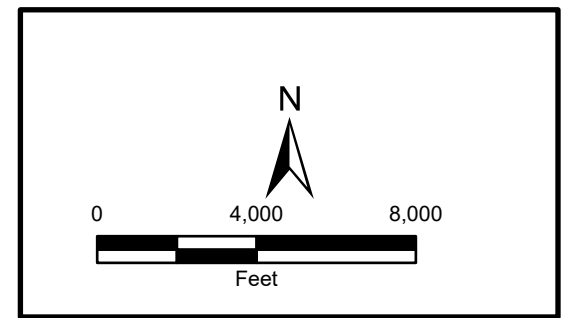
Distance to Nearest Critical Habitat:
13735 Feet

PUERTO RICO



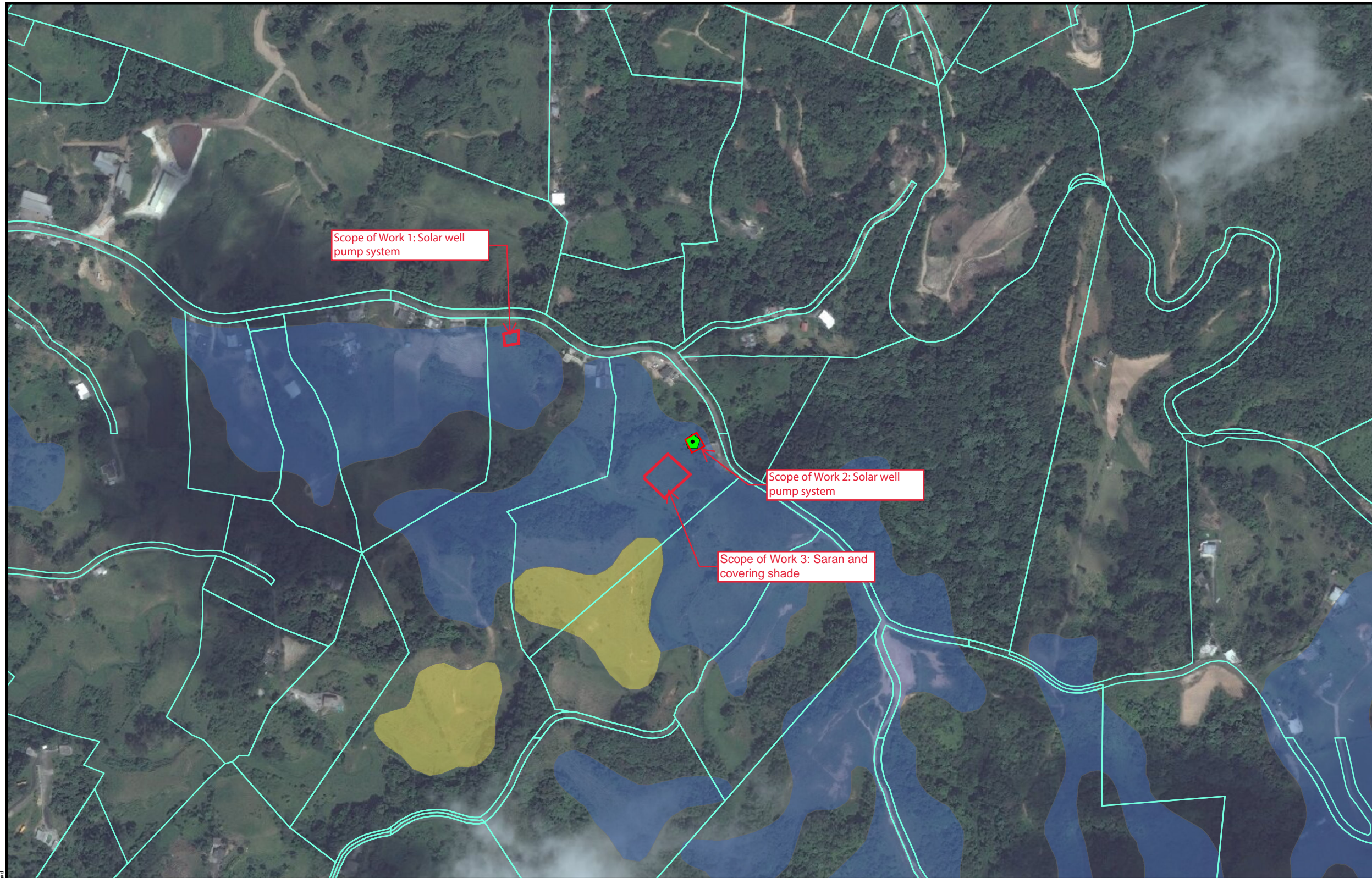
Figure 11: CRITICAL HABITATS
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrío Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593



Source: U.S. FISH & WILDLIFE SERVICE
<https://ecos.fws.gov>
 Author: TG Date: 10/21/2023

File Path: Z:\data\USFWS\PR\Regrow\GIS\CriticalHabitats_Secondary_Imagery_Regrow\CriticalHabitats_Secondary_Imagery_Regrow.aprx



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

PUERTO RICO



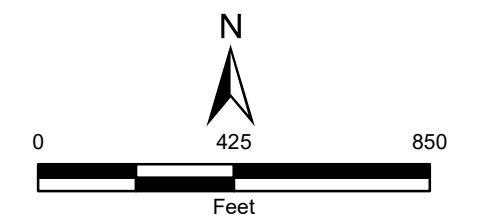
**Figure 12: FARMLAND PROTECTION
APPLICANT ID: PR-RGRW-04129**

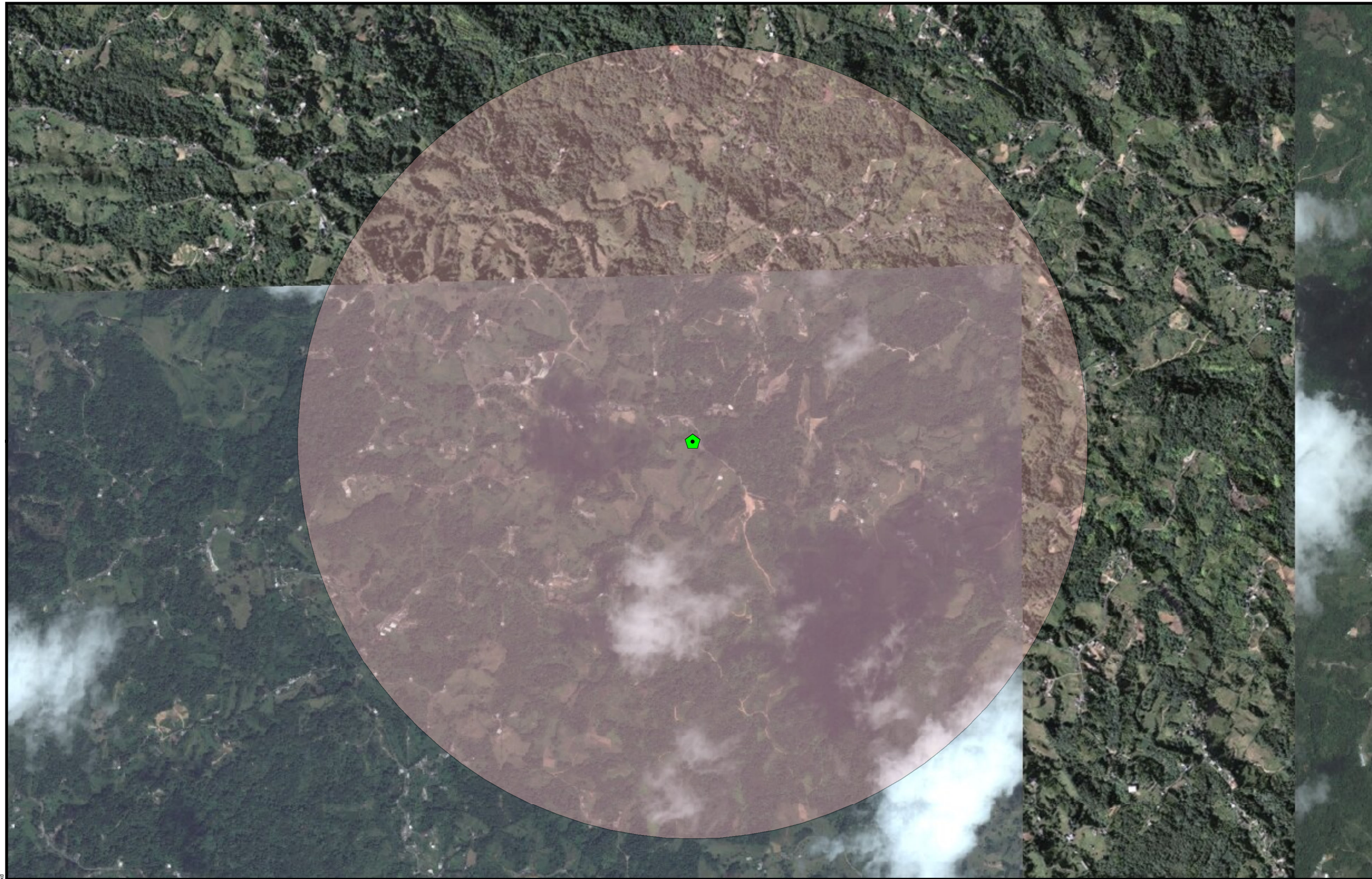
ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593
















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

Author: TG Date: 10/23/2023





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 Buffer

PUERTO RICO



**Figure 13: HISTORIC PRESERVATION
 APPLICANT ID: PR-RGRW-04129**

ADDRESS: Barrío Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754

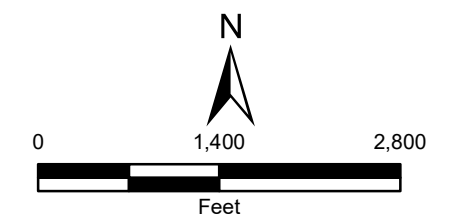
Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564, -65.952593



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

Author: TG Date: 10/9/2023





Legend

- Project Parcel
- Parcels
- Distance to Wetland 145.706 FT

WETLAND TYPE

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Area of Potential Effect

PUERTO RICO

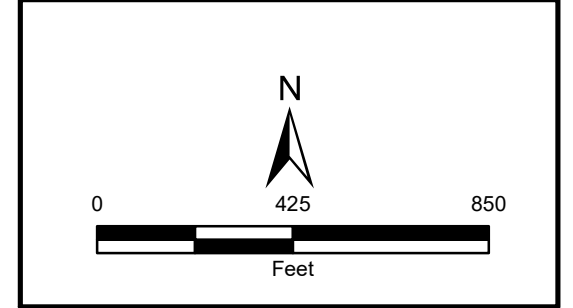


Figure 14: WETLANDS
APPLICANT ID: PR-RGRW-04129

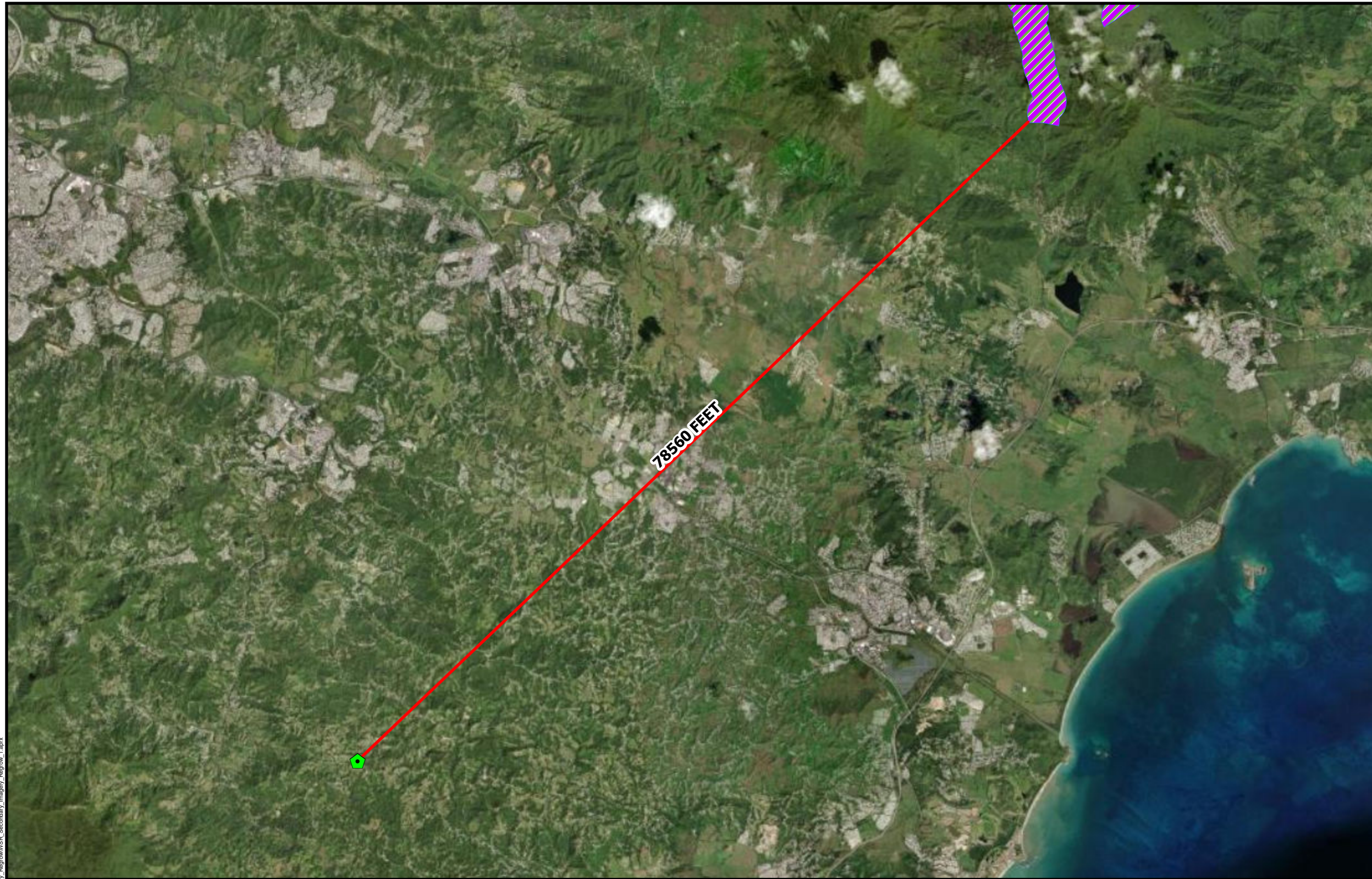
ADDRESS: Barrio Quebrada Arenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593





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



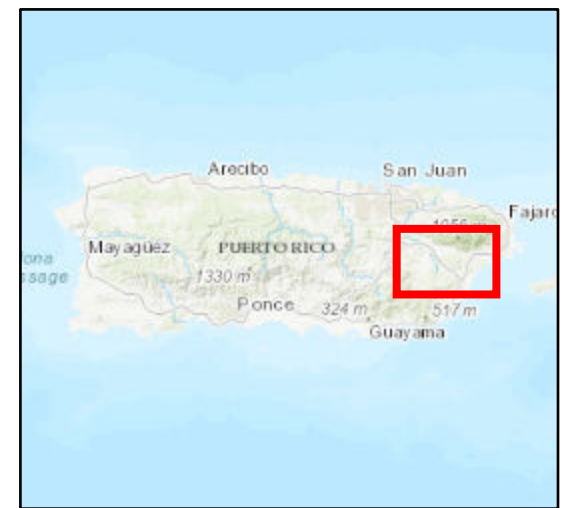
File Path: Z:\data\USFWS\PR\WETLANDS_Secondary_Imagery_Register.mxd



- Legend**
-  Project Parcel
 -  Wild and Scenic Rivers

Distance to Nearest Wild and Scenic River: 78560 Feet

PUERTO RICO



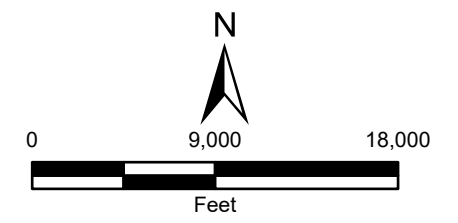
**Figure 15: WILD AND SCENIC RIVERS ACT
APPLICANT ID: PR-RGRW-04129**

ADDRESS:Barrio Quebrada Arrenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development:Agronat, LLC
 Parcel Coordinates:18.113564, -65.952593

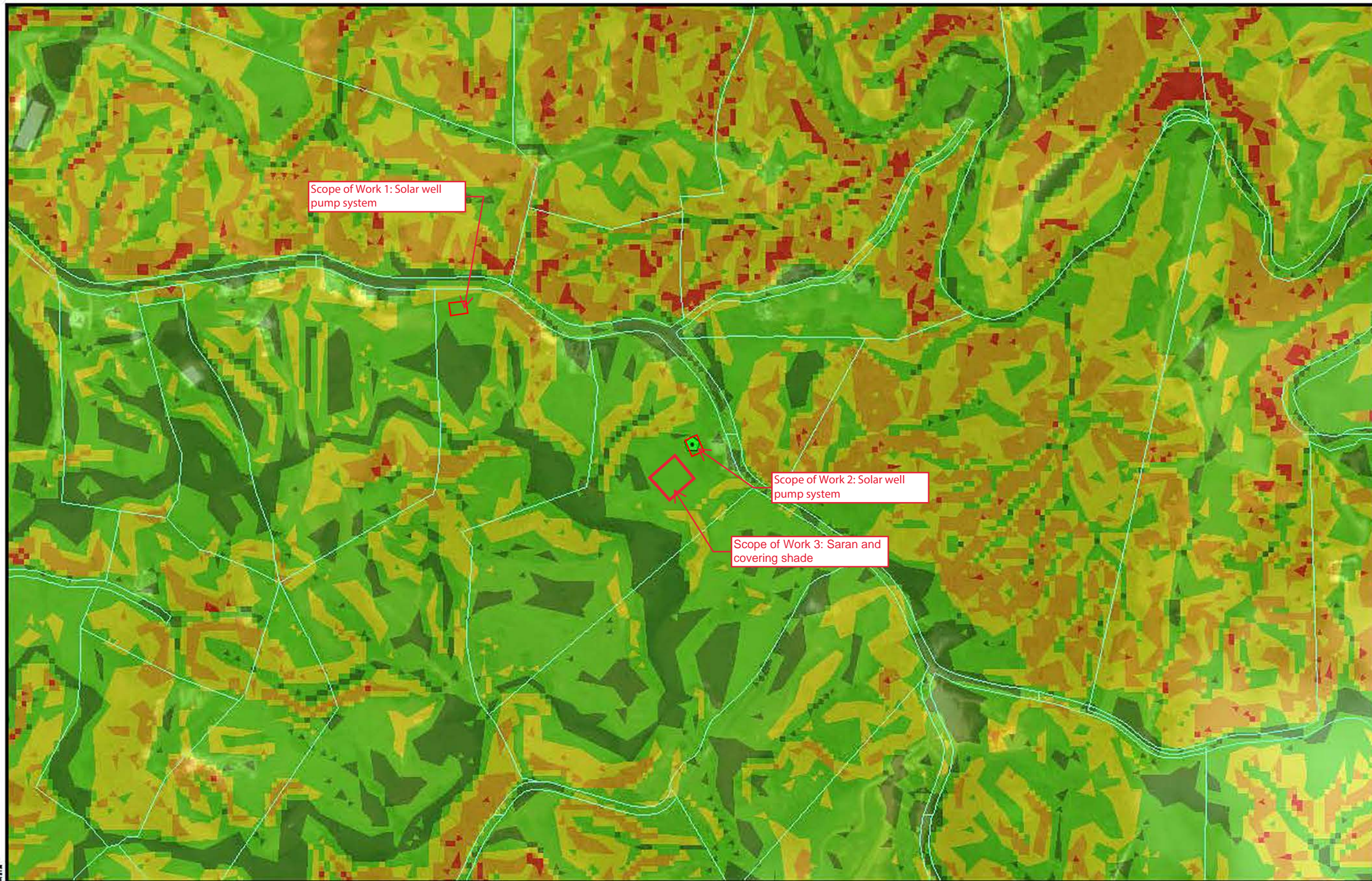


Source: U. S. Forest Service
<https://www.fs.usda.gov>

Author: TG Date: 10/23/2023



File Path: Z:\data\USFR\Tier2\Regrow\SR_Secondary_Imagery_Regrow\1.aprx



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

PUERTO RICO

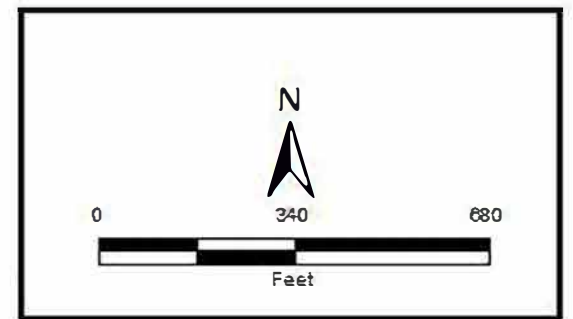


**Figure 16: SLOPE AND EROSION
 APPLICANT ID: PR-RGRW-04129**

ADDRESS: Barrio Quebrada Arenas Carr. 902 Km. 4.3 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593



Source: PFD004
 Date: 10/23/2023



APPENDIX C

Additional Information



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

Data is current as of July 31, 2024

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

* The 1997 Primary Annual PM-2.5 NAAQS (level of 15 µg/m³) is revoked in attainment and maintenance areas for that NAAQS. For additional information see the PM-2.5 NAAQS SIP Requirements Final Rule, effective October 24, 2016. (81 FR 58009)

Change the State:

PUERTO RICO

Important Notes

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

County	NAAQS	Area Name	Nonattainment in Year	Redesignation to Maintenance	Classification	Whole or/Part County	Population (2010)	State/County FIPS Codes
PUERTO RICO								
Arecibo Municipio	Lead (2008)	Arecibo, PR	1112131415161718192021222324	//		Part	32,185	72/013
Bayamon Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	22,921	72/021
Catano Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Whole	28,140	72/033
Guaynabo Municipio	PM-10 (1987)	Mun. of Guaynabo, PR	929394959697989900010203040506070809	02/11/2010	Moderate	Part	90,470	72/061
Guaynabo Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	23,802	72/061
Salinas Municipio	Sulfur Dioxide (2010)	Guayama-Salinas, PR	18192021222324	//		Part	23,401	72/123
San Juan Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	147,963	72/127
Toa Baja Municipio	Sulfur Dioxide (2010)	San Juan, PR	18192021222324	//		Part	52,441	72/137

Important Notes

Discover.

Connect.

Ask.

Follow.

2024-07-31

EJScreen Community Report

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

San Lorenzo Municipio, PR

1 mile Ring Centered at 18.113956,-65.953763
 Population: 1,171
 Area in square miles: 3.14

A3 Landscape

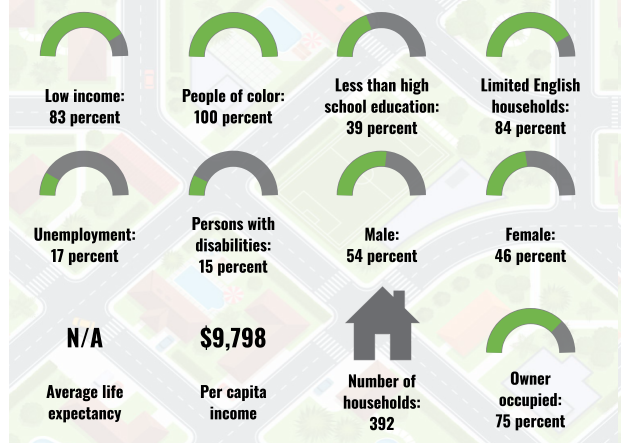


January 24, 2024
 Project 1
 Search Result (point)

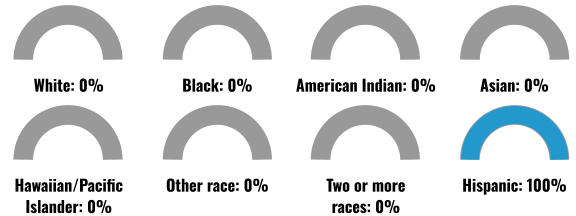


Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, Esri, HERE, Garmin, IBC

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

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

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

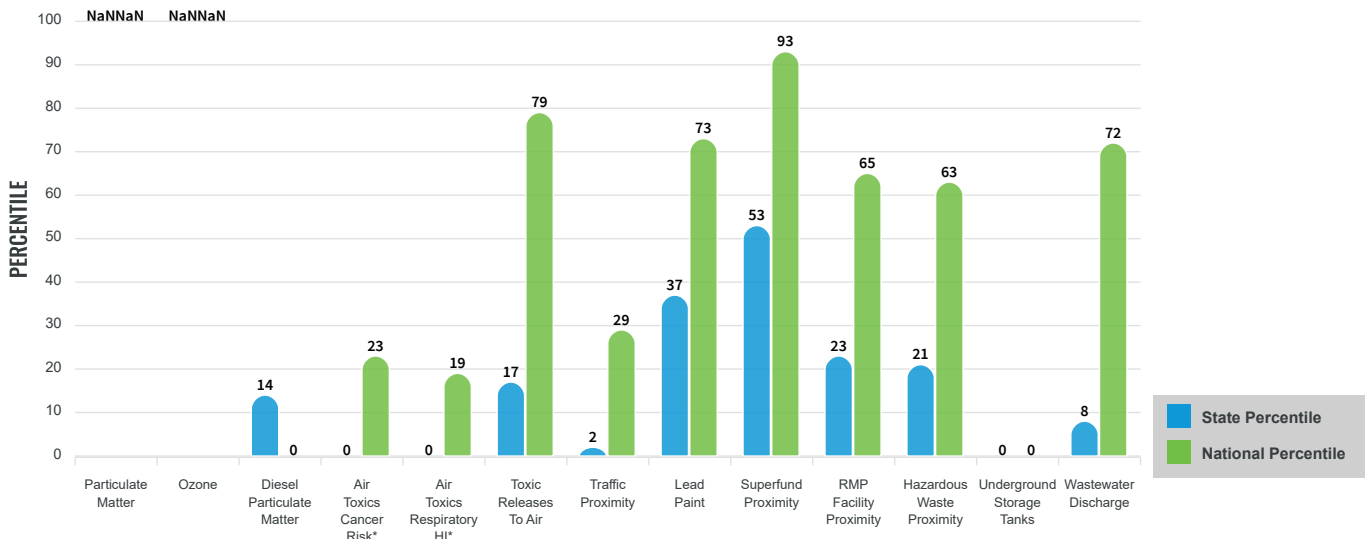
Environmental Justice & Supplemental Indexes

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

EJ INDEXES

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

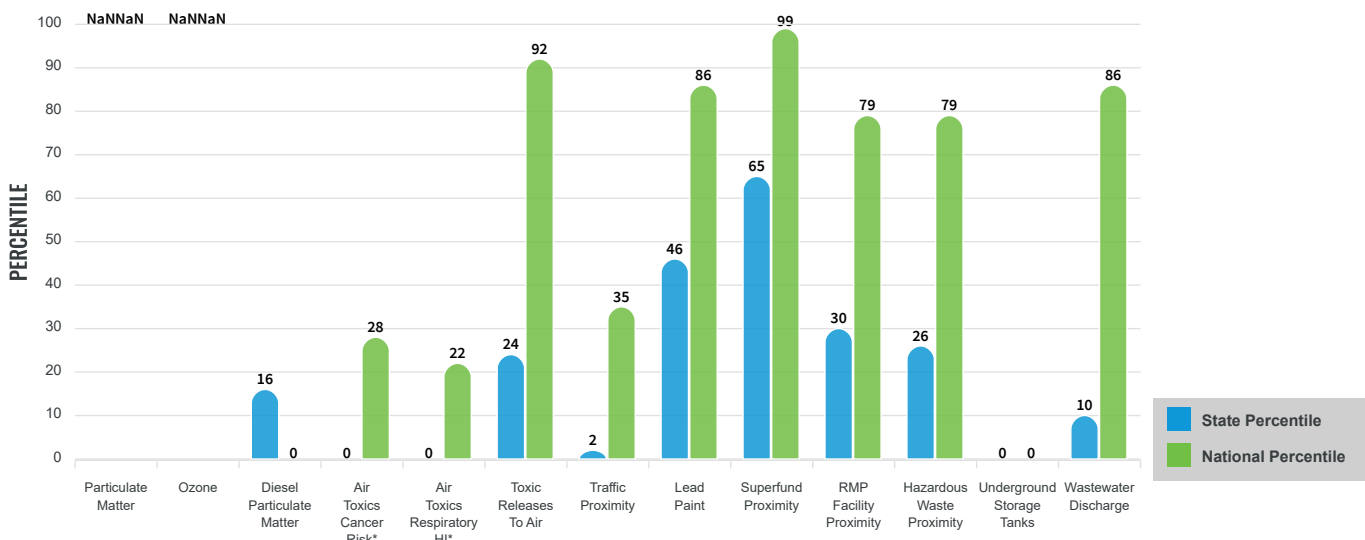
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

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

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



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

Report for 1 mile Ring Centered at 18.113956,-65.953763

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.08	N/A
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.016	0.0667	13	0.261	0
Air Toxics Cancer Risk* (lifetime risk per million)	10	20	0	25	1
Air Toxics Respiratory HI*	0.1	0.19	0	0.31	1
Toxic Releases to Air	210	4,300	17	4,600	32
Traffic Proximity (daily traffic count/distance to road)	1.9	180	1	210	6
Lead Paint (% Pre-1960 Housing)	0.052	0.16	34	0.3	26
Superfund Proximity (site count/km distance)	0.081	0.15	50	0.13	60
RMP Facility Proximity (facility count/km distance)	0.082	0.47	22	0.43	22
Hazardous Waste Proximity (facility count/km distance)	0.11	0.76	19	1.9	21
Underground Storage Tanks (count/km ²)	0	1.7	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	5.4E-05	2.3	8	22	26
SOCIOECONOMIC INDICATORS					
Demographic Index	91%	83%	67	35%	99
Supplemental Demographic Index	56%	43%	83	14%	99
People of Color	100%	96%	31	39%	98
Low Income	83%	70%	66	31%	98
Unemployment Rate	17%	15%	64	6%	93
Limited English Speaking Households	84%	67%	82	5%	99
Less Than High School Education	39%	21%	90	12%	96
Under Age 5	3%	4%	52	6%	31
Over Age 64	10%	22%	11	17%	26
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A

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

Sites reporting to EPA within defined area:

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

Other community features within defined area:

Schools	0
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

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

Report for 1 mile Ring Centered at 18.113956,-65.953763

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	6.1	N/A
Asthma	N/A	N/A	N/A	10	N/A
Cancer	N/A	N/A	N/A	6.1	N/A
Persons with Disabilities	13.7%	21.6%	13	13.4%	58

CLIMATE INDICATORS

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

CRITICAL SERVICE GAPS

INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	28%	32%	48	14%	87
Lack of Health Insurance	5%	7%	33	9%	36
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 1 mile Ring Centered at 18.113956,-65.953763

APPENDIX D
Endangered Species



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Bayamón | Mayagüez | Maricao | Río Grande | St Croix
P.O. Box 491
Boquerón, Puerto Rico 00622



In Reply Refer to:
FWS/R4/CESFO/72129-Gen

Submitted Via Electronic Mail: jcperez@vivienda.pr.gov

Juan Carlos Pérez-Bofill, PE, MEng.
Director – Disaster Recovery CDBG-DR Program
Puerto Rico Department of Housing
P.O. Box 21365
San Juan, P.R 00928-1365

Re: CDBG-DR PR-RGRW-04129 Agronat LLC,
San Lorenzo, Puerto Rico

Dear Mr. Pérez-Bofill

Thank you for your letter dated August 27, 2024, requesting informal consultation on the above referenced project. As per your request, our comments are provided under the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.).

The Puerto Rico Department of Housing (PRDOH) is proposing the installation of a solar submersible well pump system, shade structure, purchase of fertilizer, a motor culture, and an UTV. The project will be located at State Road PR-902 Km 4.3 and Km 4.4, Quebrada Arenas Warda (18°12'56.2"N 65°58'02.2"W) in the municipality of San Lorenzo, Puerto Rico. The scope of work (SOW) consist of the following:

SOW 1: 18°06'52.7"N 65°57'16.5"W

- Installation of a solar submersible well pump system.
- A galvanized metal 8-foot support beam anchored to a concrete base will be required to operate the pump.

SOW 2: 18°06'48.8"N 65°57'09.3"W

- Installation of a second solar submersible well pump system.
- Installation of a storage tank.
- A galvanized metal 8-foot support beam anchored to a concrete base will be required to operate the pump.

Sow 3: 18°06'47.9"N 65°57'09.9"W

- Installation of a ground cover and 22 wooden posts placed every 10 feet, at an approximated depth of 3 feet (FT), to cover a 100 FT x 20 FT area to protect vegetable crops.

Using the U.S. Fish and Wildlife Service's (Service) Information for Planning and Consultation (IPaC) system, the PRDOH has determined that the proposed project site is located within the range of the Puerto Rican boa (*Epicrates inornatus* now known as *Chilabothrus inornatus*), Puerto Rican plain pigeon (*Patagioenas inornata wetmorei*) and guajón (*Eleutherodactylus cooki*).

PRDOH used the Caribbean Determination Key (DKey) in the IPaC application to evaluate the potential impacts of the proposed project on federally listed species (Project code: 2024-0133261). Based on the answers provided, a consistency letter was obtained for the Puerto Rican boa and guajón which determined that the proposed actions for this project will have no effect (NE) on these species.

Based on the nature of the project, previous site disturbance, scope of work, information available, and a careful analysis of the site, PRDOH has determined that the proposed project may affect, but is not likely to adversely affect (NLAA) the Puerto Rican boa and the guajón instead of the NE obtained by using the DKey. As for the Puerto Rican plain pigeon, PRDOH has determined that the proposed actions will NLAA this species. Conservation measures will be implemented in case an encounter with these species occur.

We have reviewed the information provided and in our files, and concur with PRDOH's determination that the proposed project may affect, but is not likely to adversely affect the Puerto Rican boa, Puerto Rican plain pigeon and the guajón with the implementation of the conservation measures.

In view of this, we believe that requirements of section 7 of the Endangered Species Act (Act) have been satisfied. However, obligations under section 7 of the Act must be reconsidered if: (1) new information reveals impact of this identified action that may affect listed species or critical habitat in a manner that was not previously considered; (2) this action is subsequently modified in a manner not previously considered in this assessment; or, (3) a new species is listed, or critical habitat determined that may be affected by the identified action.

Thank you for the opportunity to comment on this project. If you have any questions or require additional information, please contact us via email at caribbean_es@fws.gov or by phone at (786) 244-0081.

Sincerely,

**LOURDES
MENA**

Digitally signed by
LOURDES MENA
Date: 2024.09.20
16:13:32 -04'00'

Lourdes Mena
Field Supervisor

dr

cc:
DNER
HUD



August 27, 2024

Lourdes Mena
Field Supervisor
Caribbean Ecological Services Field Office
U.S. Fish and Wildlife Service
Office Park I, Suite 303
State Road #2 Km 156.5
Mayagüez, Puerto Rico 00680
Email: Caribbean_es@fws.gov; Lourdes.Mena@fws.gov

**RE: Puerto Rico Department of Housing / Re-Grow Program
PR-RGRW-04129 – Agronat, LLC
Endangered Species Concurrence for NLAA Determination**

Dear Ms. Mena:

The Puerto Rico Department of Housing (PRDOH) is requesting an informal consultation under Section 7 (a)(2) of the Endangered Species Act (Act) (87 Stat. 884, as amended; 16 United States Code 1531 et seq.), and in accordance with the Fish and Wildlife Coordination Act (47 Stat. 401, as amended; 16 U.S.C. 661 et seq.) for the proposed project PR-RGRW-04129, located at PR-902 Road Km 4.3, Quebrada Arrenas Ward and PR-902 Road Km 4.4, Quebrada Arrenas Ward (shortened to 4.3 & 4.4 through the review) San Lorenzo, PR 00754 (Parcel ID# 327-000-004-40-000 and 327-000-004-43-001).

The project is part of the Re-Grow Puerto Rico Urban-Rural Agriculture Program (RGRW) that aims to increase agricultural capacity while promoting and increasing food security island wide. This Program will enhance and expand agricultural production related to economic revitalization and sustainable development activities.

The proposed project, PR-RGRW-04129, includes three scopes of work (SOW) over the two parcels. SOW-1 is for the installation of a solar submersible well pump system at coordinates 18.1146458, -65.9545688, to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. The new pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate the cropping area. The installation of the solar system to operate the pump will require a galvanized metal 8-foot support beam anchored to a 2'5" x 2'5" x 2'5" concrete base.

SOW-2 is for the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931. The pump will be used to irrigate a new cropping area. SOW-2 includes the installation of a storage tank and the solar panel system. As well as SOW-1, the applicant proposes to use a solar powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8-foot support beam anchored to a 2'5" x 2'5" x 2'5" concrete base.

SOW-3 is for the installation of a shade structure at coordinates 18.1133144, -65.9527449. The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 feet, at an approximated depth of 3 feet, to cover a 100 feet x 20 feet area.

The intended use of funds also includes the purchase of fertilizer, a motor culture, and a UTV. The applicant plans to store new farm equipment at an existing steel storage container located at 18.1135770, -65.9528130, next to the area that the applicant plans to prepare for new cropping.

The proposed project is located in a rural, mountainous terrain surrounded by grasslands. Trees will not be removed for these projects, but some vegetation removal will be required. The National Wetlands Inventory indicated that no wetlands are located within the proposed project areas.

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

Name of the species	Threatened/Endangered/Candidate
Puerto Rican Plain Pigeon (<i>Patagioenas inornata wetmorei</i>)	Endangered
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened
Critical Habitat	
There are no critical habitats at this location.	

Based on site review and site photos, no suitable habitat was found within the proposed project area for the listed species.

The Puerto Rican Plain Pigeon habitat requirements per the U.S. Fish and Wildlife Service are as follows: "The Puerto Rican Plain Pigeon is a large pigeon about the size and shape of a domestic pigeon. At a distance the species appears pale blue-gray. The head, hindneck, breast, and the top central part of the folded wing are washed with a wine color. The wing coverts are margined with white. Legs and feet are dark red. A variety of fruits and seeds, and livestock feed provide nourishment for this species.

Approximately 70 percent of the foods come from tree branches, and 30 percent from the ground. Principal foods at Cidra are royal palm (*Roystonea borinquena*); mountain immortelle (*Erythrina poeppigiana*); West Indies trema (*Trema lamarckiana*); and white prickly (*Zanthoxylum martinicense*). Water is usually taken from the axils of bromeliads or from water-retaining blossoms of the African tulip-tree. Nesting occurs primarily in bamboo groves and the hardwood canyons of Cidra."

The Puerto Rican Boa habitat requirements per the U.S. Fish and Wildlife Service are as follows: "The Puerto Rican Boa is considered a habitat generalist and tolerates a wide variety of habitat types (terrestrial and arboreal). These include: rocky areas and haystack hills, trees and branches, rotting stumps, caves (entrances and inside), plantations, various types of forested areas such as karst and mangrove forests, forested urban and rural areas, and along streams and road edges. Cave ecosystems and their surrounding forests are considered particularly important because of the availability of such ecological resources such as prey, shelter, thermal gradients, and mates for reproduction."

The Coquí Guajón habitat requirements per the U.S. Fish and Wildlife Service are as follows: "The Coquí Guajón utilizes large to small caves and crevices formed by different sized granite boulders within rocky streams. This type of habitat is commonly known as *guajonal*. The species also has been detected using road culverts and adjacent to Puerto Rico's sewer and aqueduct water facilities. Projects that occur upstream or upland where the species occurs may also impact its habitat further downstream."

Based on the nature of the project, previous site disturbance, scope of work, information available, and a careful analysis of the Project Site, and IPaC species list, we have made the following effects determinations:

Name of the species	Effect Determination	Conservation Measures that will be implemented
Puerto Rican Plain Pigeon (<i>Patagioenas inornata wetmorei</i>)	Not Likely to Adversely Affect (NLAA)	USFWS Puerto Rican Plain Pigeon Conservation Measures 2024
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Not Likely to Adversely Affect (NLAA)	USFWS Puerto Rican Boa Conservation Measures 2024
Guajon (<i>Eleutherodactylus cooki</i>)	Not Likely to Adversely Affect (NLAA)	USFWS Guajón Conservation Measures 2023

Given the current land use and frequent disturbance and lack of sightings of the listed species within the vicinity, PRDOH has determined that the project is not likely to adversely affect the listed species provided the attached Conservation Measures are implemented as part of the proposed project. The automated informal consultation process was completed on August 21st through USFWS Information for Planning and Consultation website (<https://ipac.ecosphere.fws.gov/>).

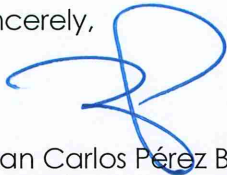
In order to complete the informal consultation process, we are requesting your concurrence for the NLAA determinations included in this letter. Attached to this letter,

we are including the documents used to reach our effect determinations for the listed species.

For any questions or clarifications, please do not hesitate to contact us at the information below.

Thank you in advance for your consideration of this issue.

Sincerely,



Juan Carlos Pérez Bofill, PE, MEng.
Director – Disaster Recovery, CDBG-DR/MIT Program
environmentcdbg@vivienda.pr.gov | 787.274.2527 ext. 4320

Attachments:

Appendix A:

Figure 1 – Project Location Map

Figure 2 – Area of Potential Effect Map

Figure 3 – Wetland Map

Figure 4 – Endangered Species Map

Figure 5 – Critical Habitats Map

Figure 6 – Farmland Protection Map

Appendix B: Species List Caribbean Ecological Services and Consistency Letter SOW-1

Appendix C: Species List Caribbean Ecological Services and Consistency Letter SOW-2

Appendix D: Species List Caribbean Ecological Services and Consistency Letter SOW-3

Appendix E: Site Photos

Appendix F: USFWS Puerto Rican Plain Pigeon Conservation Measures 2024

Appendix G: USFWS Puerto Rican Boa Conservation Measures 2024

Appendix H: USFWS Guajon Conservation Measures 2023

C: Angel G. López-Guzmán, MSEM
Deputy Director
Permits and Environmental Compliance Division

Appendix A: Figures



Legend

- \$ Project Parcel
- Parcels
- Area of Potential Effect

PUERTO RICO



PROJECT LOCATION

APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754

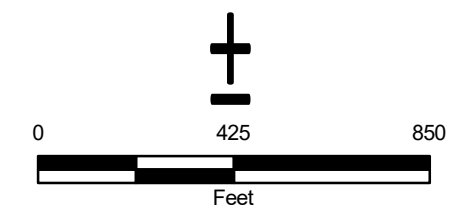
Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564 , -65.952593



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

Author: TG Date: 10/9/2023



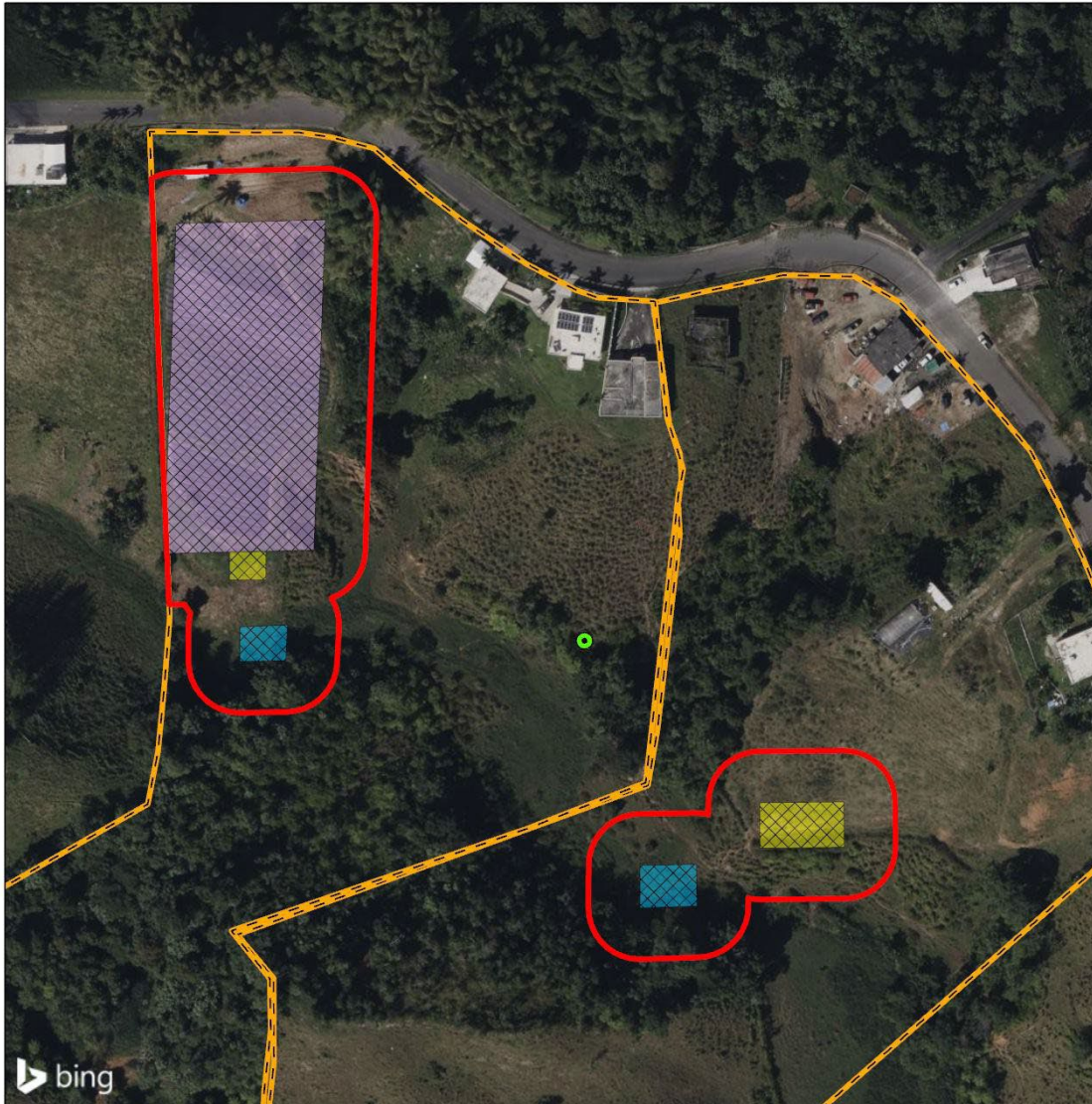
File Path: Z:\data\US\PR\PR-RGRW-04129\LOC-Regrow-Secondary-Images\mxd

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

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

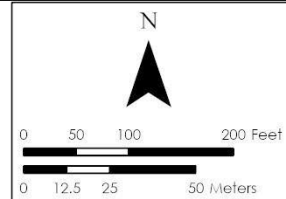


Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754



Legend

-  PR-RGRW-04129
-  Proposed Solar Panel Location
-  Proposed Solar Panel Location
-  Proposed Pump Location
-  Area of Potential Effect
-  CRIM Parcel Boundary



Name: WGS 1984 Web Mercator Auxiliary Sphere Scale: 1:1,500



Legend

- Project Parcel
- Parcels
- Distance to Wetland 145.706 FT

WETLAND TYPE

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Riverine
- Area of Potential Effect

PUERTO RICO



TETRA TECH

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

Author: TG Date: 10/9/2023

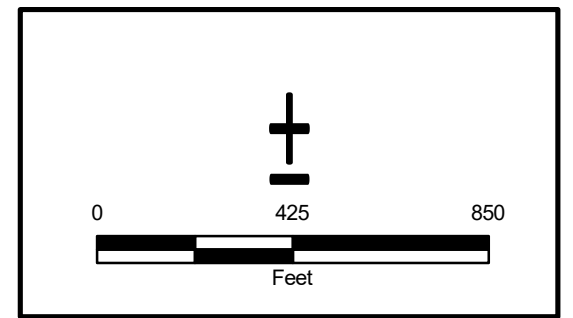
WETLANDS

APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754

Name of Development: Agronat, LLC

Parcel Coordinates: 18.113564, -65.952593



File Path: Z:\data\USFWS\PR\WETLAND_Secondary_Imagery_Export.mxd



- Legend**
- \$ Project Parcel
 - Parcels
 - Area of Critical Hábitat
 - Area of Potential Effect

PUERTO RICO



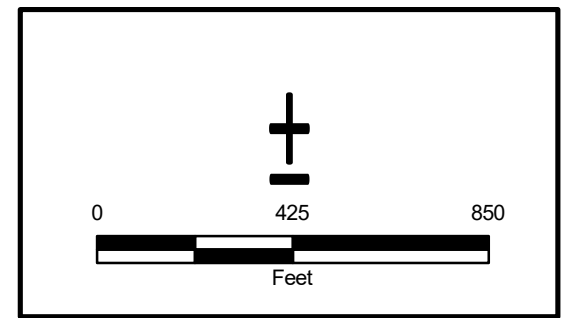
TETRA TECH

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

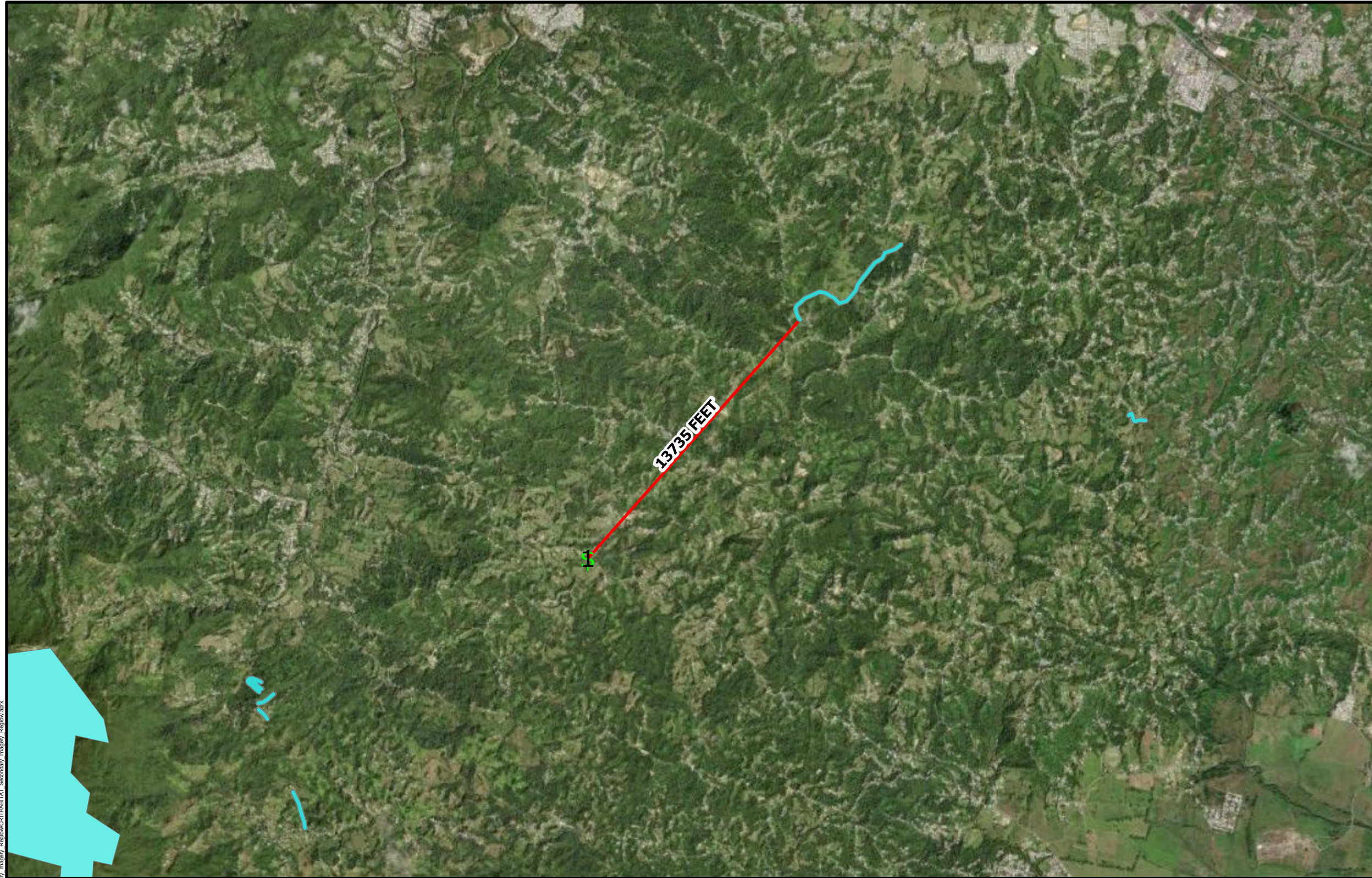
Author: TG Date: 10/23/2023





ENDANGERED SPECIES ACT
APPLICANT ID: PR-RGRW-04129

ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593



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- Legend**
-  Project Parcel
 - comname**
 -  Elfin-woods warbler
 -  Guajon
 -  No common name

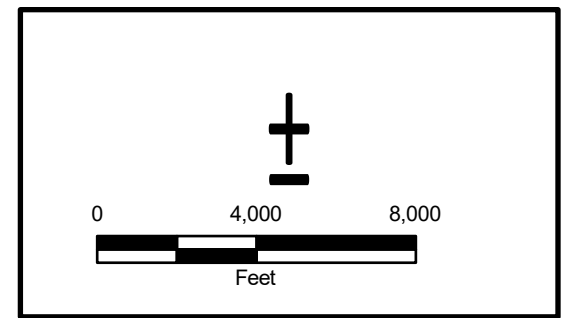
Distance to Nearest Critical Habitat:
13735 Feet

PUERTO RICO



CRITICAL HABITATS
APPLICANT ID: PR-RGRW-04129

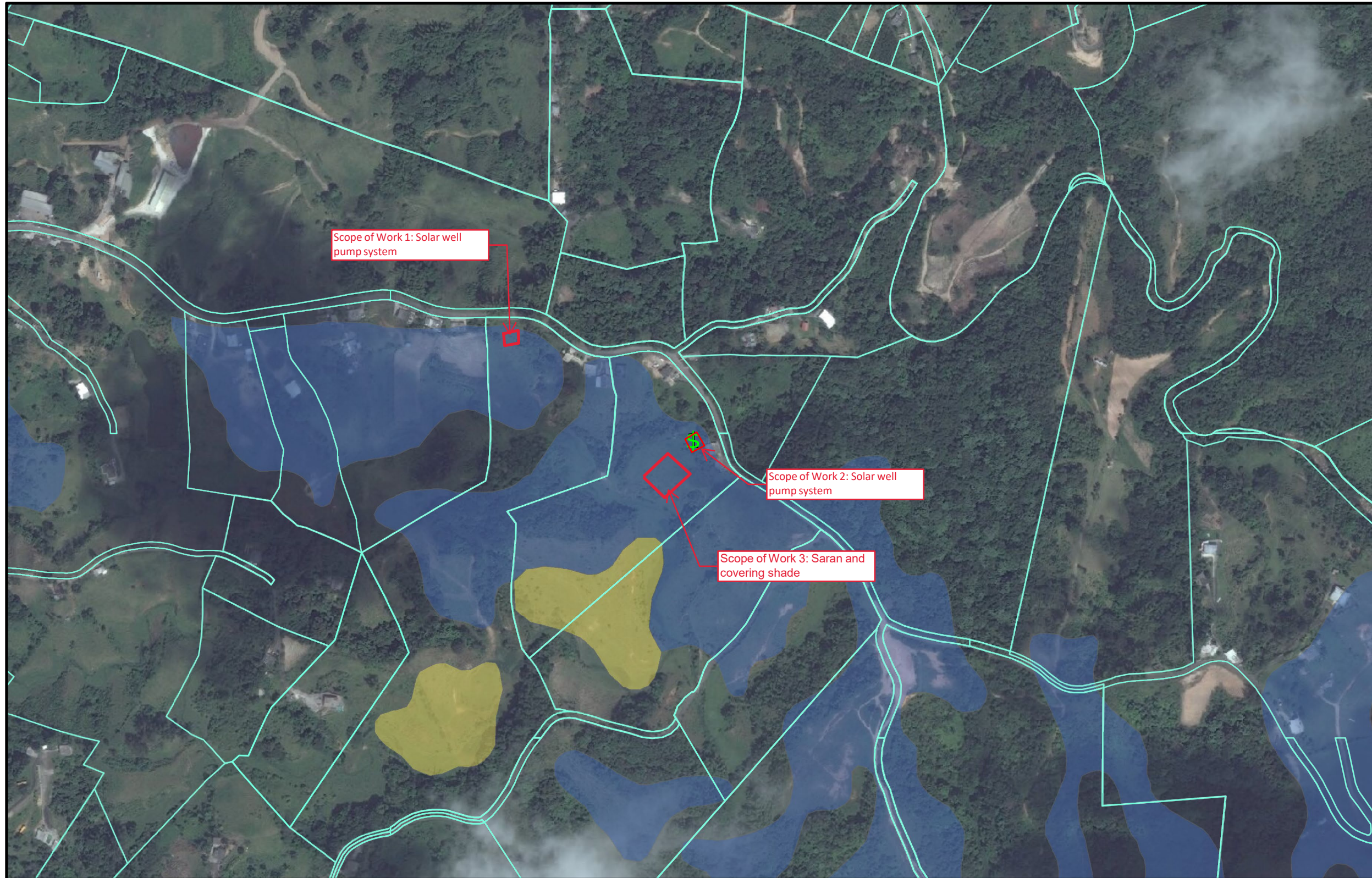
ADDRESS: **Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754**
 Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593












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

Author: TG Date: 10/21/2023

File Path: Z:\data\SPR\2\Regrow\app\CRT\HABITAT_Secundary_Imagery_Regrow.aprx



Legend

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

PUERTO RICO



FARMLAND PROTECTION
APPLICANT ID: PR-RGRW-04129

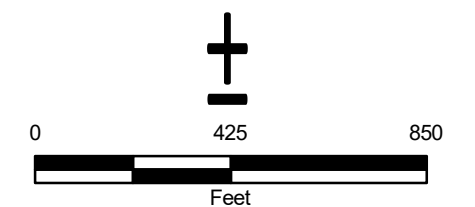
ADDRESS: Barrio Quebrada Arrenas Carr. 902 Km. 4.3 & 4.4 San Lorenzo, PR 00754

Name of Development: Agronat, LLC
 Parcel Coordinates: 18.113564, -65.952593



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

Author: TG Date: 10/23/2023



Appendix B:
Species List Caribbean Ecological Services and
Consistency Letter SOW-1



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project Code: 2024-0133261
Project Name: PR-RGRW-04129 SOW 1

08/21/2024 15:10:05 UTC

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

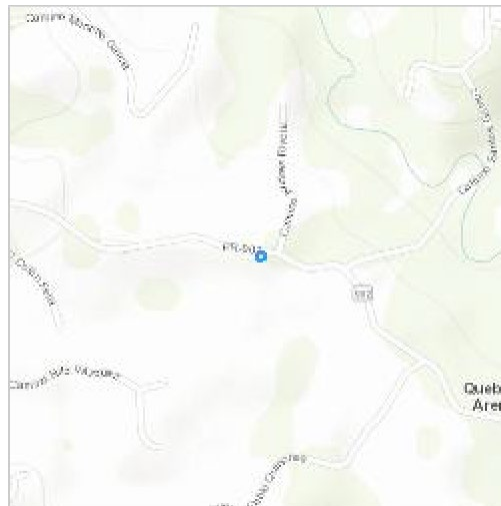
(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0133261
Project Name: PR-RGRW-04129 SOW 1
Project Type: Restoration / Enhancement - Agricultural
Project Description: The Scope of Work-1 (SOW-1) is to install a solar submersible well pump system at coordinates 18.1146458, -65.9545688 to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. New pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate cropping area. The installation of the solar system to operate the pump will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.114697399999997,-65.95457415517987,14z>



Counties: San Lorenzo County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

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

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

BIRDS

NAME	STATUS
Puerto Rican Plain Pigeon <i>Patagioenas inornata wetmorei</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/7955	Endangered

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628 General project design guidelines: https://ipac.ecosphere.fws.gov/project/SX6WBQRDCJCWTJT7LYR3YX3NXY/documents/generated/7159.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Guajon <i>Eleutherodactylus cooki</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6963 General project design guidelines: https://ipac.ecosphere.fws.gov/project/SX6WBQRDCJCWTJT7LYR3YX3NXY/documents/generated/7136.pdf	Threatened

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project code: 2024-0133261
Project Name: PR-RGRW-04129 SOW 1

08/21/2024 15:12:59 UTC

Subject: Consistency letter for the project named 'PR-RGRW-04129 SOW 1' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On August 21, 2024, Shelby McDowell used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-04129 SOW 1'. The project is located in San Lorenzo County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.114697399999997,-65.95457415517987,14z>



The following description was provided for the project 'PR-RGRW-04129 SOW 1':

The Scope of Work-1 (SOW-1) is to install a solar submersible well pump system at coordinates 18.1146458, -65.9545688 to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. New pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate cropping area. The installation of the solar system to operate the pump will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

Based on your answers and the assistance of the Service's Caribbean DKey, you determined the proposed Action will have "No Effect" on the following species:

Species	Listing Status	Determination
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened	No effect
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	No effect

Thank you for informing the Service of your "No Effect" determination(s) for this project. No further consultation/coordination for this project is required for these species. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

This letter serves as documentation of your consideration of the federally listed species as required under section 7 of the ESA. However, effects to the other federally listed species or critical habitat as listed below from the "IPaC print-out for the project" (see below) should be considered as part of your ESA review for the project.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "No Effect" (NE) determination for Federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NE concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species.** If relocation of the species is needed, please contact either the Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or 787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

In addition to the species listed above, the following species and/or critical habitats may also occur in your project area and **are not** covered by this conclusion. Effects to the other federally listed species or critical habitat as listed below should be considered as part of your ESA review for the project.

- Puerto Rican Plain Pigeon *Patagioenas inornata wetmorei* Endangered

If the proposed project is located within species range where a DKey has not been developed for those species, please follow the established guidance for initiating section 7 consultation Caribbean Ecological Services Field Office.

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

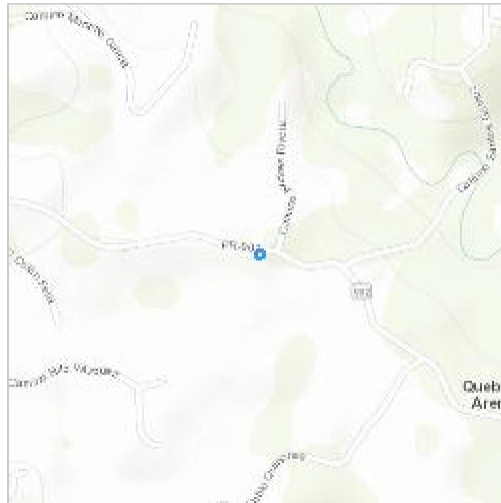
PR-RGRW-04129 SOW 1

2. Description

The following description was provided for the project 'PR-RGRW-04129 SOW 1':

The Scope of Work-1 (SOW-1) is to install a solar submersible well pump system at coordinates 18.1146458, -65.9545688 to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. New pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate cropping area. The installation of the solar system to operate the pump will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.114697399999997,-65.95457415517987,14z>



QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? ([MSGP Fact Sheet](#))

No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant. .

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

No

9. Is the proposed project located within a rural area covered by grassland (pasture lands "pastos")?

Yes

10. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

11. Does the proposed project intersect the Coquí Guajón area of influence?

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

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

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Appendix C:
Species List Caribbean Ecological Services and
Consistency Letter SOW-2



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:

08/21/2024 15:17:52 UTC

Project Code: 2024-0133271

Project Name: PR-RGRW-04129 SOW 2

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0133271
Project Name: PR-RGRW-04129 SOW 2
Project Type: Restoration / Enhancement - Agricultural
Project Description: The Scope of Work 2 (SOW-2) is the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931. The pump will be used to irrigate a new cropping area. The SOW-2 includes the installation of a storage tank and the solar panel system. As in SOW-1 the applicant proposes to use a solar powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11359355,-65.95260409407231,14z>



Counties: San Lorenzo County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628 General project design guidelines: https://ipac.ecosphere.fws.gov/project/QTU6ADUGNVCVDAV2ZDHIQCHP2M/documents/generated/7159.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Guajon <i>Eleutherodactylus cooki</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6963 General project design guidelines: https://ipac.ecosphere.fws.gov/project/QTU6ADUGNVCVDAV2ZDHIQCHP2M/documents/generated/7136.pdf	Threatened

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE
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Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:

08/21/2024 15:26:53 UTC

Project code: 2024-0133271

Project Name: PR-RGRW-04129 SOW 2

Subject: Consistency letter for the project named 'PR-RGRW-04129 SOW 2' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On August 21, 2024, Shelby McDowell used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-04129 SOW 2'. The project is located in San Lorenzo County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11359355,-65.95260409407231,14z>



The following description was provided for the project 'PR-RGRW-04129 SOW 2':

The Scope of Work 2 (SOW-2) is the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931. The pump will be used to irrigate a new cropping area. The SOW-2 includes the installation of a storage tank and the solar panel system. As in SOW-1 the applicant proposes to use a solar powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

Based on your answers and the assistance of the Service's Caribbean DKey, you determined the proposed Action will have "No Effect" on the following species:

Species	Listing Status	Determination
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened	No effect
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	No effect

Thank you for informing the Service of your "No Effect" determination(s) for this project. No further consultation/coordination for this project is required for these species. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

This letter serves as documentation of your consideration of the federally listed species as required under section 7 of the ESA. However, effects to the other federally listed species or critical habitat as listed below from the "IPaC print-out for the project" (see below) should be considered as part of your ESA review for the project.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "No Effect" (NE) determination for Federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NE concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species.** If relocation of the species is needed, please contact either the Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or 787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

If the proposed project is located within species range where a DKey has not been developed for those species, please follow the established guidance for initiating section 7 consultation Caribbean Ecological Services Field Office.

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

PR-RGRW-04129 SOW 2

2. Description

The following description was provided for the project 'PR-RGRW-04129 SOW 2':

The Scope of Work 2 (SOW-2) is the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931. The pump will be used to irrigate a new cropping area. The SOW-2 includes the installation of a storage tank and the solar panel system. As in SOW-1 the applicant proposes to use a solar powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11359355,-65.95260409407231,14z>



QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? ([MSGP Fact Sheet](#))

No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant. .

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

No

9. Is the proposed project located within a rural area covered by grassland (pasture lands "pastos")?

Yes

10. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

11. Does the proposed project intersect the Coquí Guajón area of influence?

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

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

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Appendix D:
Species List Caribbean Ecological Services and
Consistency Letter SOW-3



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project Code: 2024-0133290
Project Name: PR-RGRW-04129 SOW 3

08/21/2024 15:32:00 UTC

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

To Whom It May Concern:

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

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

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

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

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

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

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

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

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

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

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

This species list is provided by:

Caribbean Ecological Services Field Office

caribbean_es@fws.gov

Post Office Box 491

Boqueron, PR 00622-0491

(786) 244-0081

Attachment(s):

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

OFFICIAL SPECIES LIST

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

This species list is provided by:

Caribbean Ecological Services Field Office

Post Office Box 491

Boqueron, PR 00622-0491

(939) 320-3135

PROJECT SUMMARY

Project Code: 2024-0133290
Project Name: PR-RGRW-04129 SOW 3
Project Type: Restoration / Enhancement - Agricultural
Project Description: The Scope of Work 3 (SOW-3) is the installation of a shade structure at coordinates 18.1133144, -65.9527449. The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 ft, at an approximated depth of 3 ft, to cover a 100 ft x 20 ft area.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11330545,-65.95280107910929,14z>



Counties: San Lorenzo County, Puerto Rico

ENDANGERED SPECIES ACT SPECIES

There is a total of 2 threatened, endangered, or candidate species on this species list.

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

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

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

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

REPTILES

NAME	STATUS
Puerto Rican Boa <i>Chilabothrus inornatus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/6628 General project design guidelines: https://ipac.ecosphere.fws.gov/project/UXJLLASVSRDQ3OQYLLH7ALCDWY/documents/generated/7159.pdf	Endangered

AMPHIBIANS

NAME	STATUS
Guajon <i>Eleutherodactylus cooki</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6963 General project design guidelines: https://ipac.ecosphere.fws.gov/project/UXJLLASVSRDQ3OQYLLH7ALCDWY/documents/generated/7136.pdf	Threatened

CRITICAL HABITATS

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

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

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

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

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

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

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

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

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

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

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

WETLANDS

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

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

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

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

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



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Caribbean Ecological Services Field Office
Post Office Box 491
Boqueron, PR 00622-0491
Phone: (939) 320-3135 Fax: (787) 851-7440
Email Address: CARIBBEAN_ES@FWS.GOV

In Reply Refer To:
Project code: 2024-0133290
Project Name: PR-RGRW-04129 SOW 3

08/21/2024 15:38:46 UTC

Subject: Consistency letter for the project named 'PR-RGRW-04129 SOW 3' for specified threatened and endangered species, that may occur in your proposed project location, pursuant to the IPaC determination key titled Caribbean Determination Key (DKey).

Dear Applicant:

Thank you for using the assisted evaluation keys in IPaC. This letter is provided pursuant to the Service's authority under the Endangered Species Act of 1973, as amended (ESA) (87 Stat. 884; 16 U.S.C. 1531et seq.). On August 21, 2024, Shelby McDowell used the Caribbean DKey; dated April 03, 2024, in the U.S. Fish and Wildlife Service's online [IPaC application](#) to evaluate potential impacts to federally listed species, from a project named 'PR-RGRW-04129 SOW 3'. The project is located in San Lorenzo County, Puerto Rico (shown below).

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11330545,-65.95280107910929,14z>



The following description was provided for the project 'PR-RGRW-04129 SOW 3':

The Scope of Work 3 (SOW-3) is the installation of a shade structure at coordinates 18.1133144, -65.9527449. The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 ft, at an approximated depth of 3 ft, to cover a 100 ft x 20 ft area.

Based on your answers and the assistance of the Service's Caribbean DKey, you determined the proposed Action will have "No Effect" on the following species:

Species	Listing Status	Determination
Guajon (<i>Eleutherodactylus cooki</i>)	Threatened	No effect
Puerto Rican Boa (<i>Chilabothrus inornatus</i>)	Endangered	No effect

Thank you for informing the Service of your "No Effect" determination(s) for this project. No further consultation/coordination for this project is required for these species. However, be aware that reinitiation of consultation may be necessary if later modifications are made to the project so that it no longer meets the criteria or outcome described above, or if new information reveals effects of the action that could affect listed species or critical habitat in a manner or to an extent not previously considered, or if a new species is listed.

This letter serves as documentation of your consideration of the federally listed species as required under section 7 of the ESA. However, effects to the other federally listed species or critical habitat as listed below from the "IPaC print-out for the project" (see below) should be considered as part of your ESA review for the project.

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "No Effect" (NE) determination for Federally listed species in the Caribbean. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NE concurrence provided here. This verification period allows the Caribbean Ecological Services Field Office to apply local knowledge to evaluate the Action, as we may identify a small subset of actions having unanticipated impacts. In such instances, the Caribbean Ecological Services Field Office may request additional information to verify the effects determination reached through the DKey.

Note: Projects located within the range of the Puerto Rican boa or the Virgin Islands tree boa might encounter these species during project activities. **This letter does not provide take to handle or move these species.** If relocation of the species is needed, please contact either the Puerto Rico Department of Natural Resources (DNER) at 787-724-5700, 787-230-5550, or 787-771-1124 for projects in Puerto Rico, or the Virgin Islands Department of Planning and Natural Resources, Division of Fish and Wildlife (DFW) at 340-775-6762 for projects in the Virgin Islands. Otherwise, contact the Caribbean Ecological Services Field Office (caribbean_es@fws.gov) to determine whether the consultation needs to be reinitiated.

If the proposed project is located within species range where a DKey has not been developed for those species, please follow the established guidance for initiating section 7 consultation Caribbean Ecological Services Field Office.

We appreciate your interest in protecting endangered species and their habitats. It is the Service's mission to work with others to conserve, protect, and enhance fish, wildlife, and plants and their habitats for the continuing benefit of our people. If you have any questions or require additional information, please contact our office at Caribbean_es@fws.gov.

Action Description

You provided to IPaC the following name and description for the subject Action.

1. Name

PR-RGRW-04129 SOW 3

2. Description

The following description was provided for the project 'PR-RGRW-04129 SOW 3':

The Scope of Work 3 (SOW-3) is the installation of a shade structure at coordinates 18.1133144, -65.9527449. The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 ft, at an approximated depth of 3 ft, to cover a 100 ft x 20 ft area.

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@18.11330545,-65.95280107910929,14z>



QUALIFICATION INTERVIEW

1. Is the proposed project an EPA Multi-Sector General Permit (MSGP) renewal for an existing project? ([MSGP Fact Sheet](#))

No

2. Is the proposed project within an urban developed area? (i.e., cities, downtowns, shopping malls etc.)

Note: Urban and developed areas has one or more of the following characteristics: Presence of existing buildings, residential areas, and commercial establishments. Well-established infrastructure including roads, utilities, and urban facilities. High population density. Established neighborhoods and urban amenities ("urbanizaciones"). Developed landscape with paved surfaces, parking lots, and industrial areas. Signs of human activity and urbanization, such as shopping centers and recreational facilities. Location within the boundaries of a city or town ("casco urbano"). High concentration of built-up structures and limited open spaces. Aerial imagery might be requested to the applicant. .

No

3. Does the proposed project consist of rehabilitation or demolition of existing single-family homes and buildings?

No

4. Does the proposed project consist of improvements to existing facilities?

Note: Examples of facilities are occupied single family homes, and buildings; existing recreational facilities, including the installation of roofs to existing basketball courts, etc.

No

5. Does the proposed project consist of repavement or repair of existing roads and installing transit signage or guardrails?

No

6. Does the proposed project consist of the construction of gutters and/or sidewalks along existing roads, and developments?

No

7. Does the proposed project consist of replacement or repair of existing bridges which include cutting vegetation or earth movement?

No

8. Does the proposed project consist of activities within existing Right of Ways (ROWs) along roads which include cutting vegetation or earth movement?

No

9. Is the proposed project located within a rural area covered by grassland (pasture lands "pastos")?

Yes

10. [Hidden Semantic] Does the proposed project intersect the Puerto Rican boa area of influence?

Automatically answered

Yes

11. Does the proposed project intersect the Coquí Guajón area of influence?

Automatically answered

Yes

IPAC USER CONTACT INFORMATION

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

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Department of Housing and Urban Development

Appendix E: Site Photos

Front of Structure

Photo Direction: South



Facing Away From Front

Photo Direction: North



Side #1 of Structure

Photo Direction: Southwest



Facing Away From Side #1

Photo Direction: Northeast



Back of Structure

Photo Direction: Southwest



Facing Away From Back

Photo Direction: Northeast



Side #2 of Structure

Photo Direction: Southeast



Facing Away From Side #2

Photo Direction: Northwest



Streetscape #1

Photo Direction: East



Streetscape #2

Photo Direction: West



Address

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Northeast



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: North



Structural Details

Photo Description: Architectural details

Photo Direction: Southwest



Structural Details

Photo Description: Architectural details

Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: West



Structural Details

Photo Description: Architectural details

Photo Direction: South



Structural Details

Photo Description: Architectural details

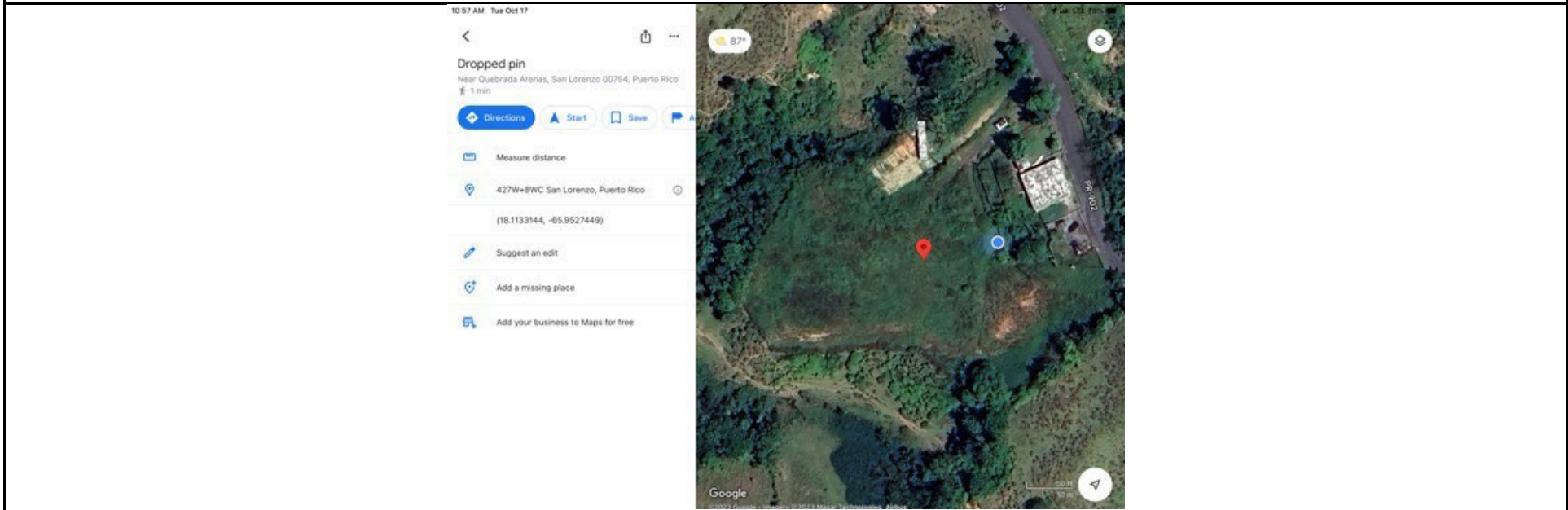
Photo Direction: Southeast



Structural Details

Photo Description: Architectural details

Photo Direction: North



Aboveground Storage Tanks

Photo Description: Cistern tanks

Photo Direction: Southeast



Aboveground Storage Tanks

Photo Description: 200 gallons cistern

Photo Direction: Southwest



Warehouse Use

Photo Description: Steel container

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: North



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: East



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: South



Scope Of Work

Photo Description: Scope of work 1: Solar well pump system

Photo Direction: West



Scope Of Work

Photo Description: Scope of work #2: Solar well pupm systemp

Photo Direction: East



Scope Of Work

Photo Description: Scooe of work #2: Solar well pump system

Photo Direction: Southeast



Scope Of Work

Photo Description: Scooe of work #2: Solar well pump system

Photo Direction: West



Scope Of Work

Photo Description: Scope of work #2: Solar well pump system

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: South



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #3: Saran and ground covers w/ posts

Photo Direction: Northeast



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: South



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Southwest



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Southeast



Scope Of Work

Photo Description: Scope of work #4: UTV/tractor/fertilizers purchase

Photo Direction: Northeast



Appendix F:
USFWS Puerto Rican Plain Pigeon Conservation Measures 2024

Guidelines for Puerto Rican Plain Pigeon

The Puerto Rican plain pigeon is a large pigeon about the size and shape of a domestic pigeon. At a distance the species appears pale blue-gray. The head, hindneck, breast, and the top central part of the folded wing are washed with a wine color. The wing coverts are margined with white. Legs and feet are dark red. A variety of fruits and seeds, and livestock feed provide nourishment for this species. Approximately 70 percent of the foods come from tree branches, and 30 percent from the ground. Principal foods at Cidra are royal palm (*Roystonea borinquena*); mountain immortelle (*Erythrina poeppigiana*); West Indies trema (*Trema lamarckiana*); and white prickly (*Zanthoxylum martinicense*). Water is usually taken from the axils of bromeliads or from water-retaining blossoms of the African tulip-tree. Nesting occurs primarily in bamboo groves and the hardwood canyons of Cidra.

1. For any project activity that involves construction or tree-disturbing activities, all construction workers will be required to participate in environmental awareness training. The training will educate workers on: (a) special-status species that may occur in the work area, (b) procedures to follow in the event a species is observed, and (c) other environmental BMPs and emergency spill response protocols.
2. All non-emergency work activities will be confined to daylight hours (i.e., sunrise to sunset), unless necessary for assessing or protecting biological resources.
3. Whenever possible, impacts to native nesting birds will be avoided by not conducting Project activities that involve clearing of vegetation, generation of mechanical noise, or tree disturbance during the typical breeding season for this pigeon (late January to early July), if the pigeon is determined to be present.
4. If Project activities must be conducted during the nesting bird season, the Contractor will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, the Contractor will notify the DNER and establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.
5. If a pigeon is found within any of the working or construction areas, activities should stop at that area and information recorded. Designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for additional directions (PRDNER phone #: ((787) 724-5700, (787) 230-5550, (787) 771-1124).

6. Designated critical habitat within the vicinity of project activities will be identified. All Proposed Project actions will be designed to avoid direct and indirect adverse modifications to these areas. Minimization measures, such as establishing and maintaining buffers around areas of designated critical habitat will be implemented in the event that avoidance is not feasible.
7. If critical habitat may be adversely modified by the implementation of Proposed Project actions, the area to be modified will be evaluated by a qualified biologist to determine the potential magnitude of the project effects (e.g., description of primary constituent elements present and quantification of those affected) at a level of detail necessary to satisfy applicable environmental compliance and permitting requirements. This information shall be submitted to the PRDNER as shown in Number 5 above.
8. Projects must comply with all state laws and regulations. Please contact PRDNER for further guidance.

Appendix G:
USFWS Puerto Rican Boa Conservation Measures 2024

Caribbean ES Puerto Rican Boa

Puerto Rican Boa

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U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Puerto Rican boa (*Chilabothrus inornatus*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect federally listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Puerto Rico boa is subject to penalties under the ESA. If Federal funds or permits are needed, the funding or permitting agency should initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species.

The endangered Puerto Rican (PR) boa (*Chilabothrus inornatus*, formerly *Epicrates inornatus*) is the largest endemic snake species that inhabits Puerto Rico. The PR boa is non-venomous and does not pose any life threatening danger to humans, but some individuals may try to bite if disturbed or during capture or handling. Its body color ranges from tan to dark brown with irregular diffuse marking on the dorsum, but some individuals lack marking and are uniformly dark. Juveniles may have a reddish color with more pronounced markings. In general, as they mature, their body color tends to darken.



The PR boa was federally listed in 1970. Currently, the species has an island-wide distribution and occurs in a wide variety of habitat types, ranging from wet montane to subtropical dry forest and can be found from mature forest to areas with different degrees of human disturbance such as roadsides or houses, especially if near their habitat in rural areas. The PR boa is considered mostly nocturnal, remaining less active, concealed or basking under the sun during the day.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the PR boa and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional conservation measures can be implemented besides the ones presented in this document.

Conservation Measures:

1. Inform all project personnel about the potential presence of the PR boa in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming the species as well as penalties for harassing or harming PR boas. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
2. Prior to any construction activity, including removal of vegetation and earth movements, the boundaries of the project and areas to be excluded and protected should be clearly marked in the project plan and in the field in order to avoid further habitat degradation into forested and conservation areas.
3. Once areas are clearly marked, and prior to the use of heavy machinery and any construction activity (including removal of vegetation and earth movement), a biologist or project personnel with experience on this species should survey the areas to be cleared to verify the presence of any PR boa within the work area.
4. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #5). **Do not capture the boa.** If boas need to be moved out of harm's way, designated personnel shall immediately contact the Puerto Rico Department of Natural and Environmental Resources (PRDNER) Rangers for safe capture and relocation of the animal (PRDNER phone #s: (787) 724-5700, (787) 230-5550, (787) 771-1124). **If immediate relocation is not an option, project-related activities at that area must stop until the boa moves out of harm's way on its own.** Activities at other work sites, where no boas have been found after surveying the area, may continue.
5. For all boa sightings (dead or alive), record the time and date of the sighting and the specific location where it was found. PR boa data should also include a photo of the animal (dead or alive), site GPS coordinates, the time and date, and comments on how the animal was detected and its behavior.

6. If a PR boa is captured by PRDNER personnel, record the name of that person and information on where the PR boa will be taken. This information should be reported to the Service.
7. Measures should be taken to avoid and minimize PR boa casualties by heavy machinery or motor vehicles being used on site. Any heavy machinery left on site (staging) or near potential PR boa habitat (within 50 meters of potential boa habitat), needs to be thoroughly inspected each morning before work starts to ensure that no boas have sheltered within engine compartments or other areas of the equipment. If PR boas are found within vehicles or equipment, do not capture the animal, and let it move on its own or call PRDNER Rangers for safe capture and relocation of the animal (see #4). If not possible, the animal should be left alone until it leaves the vehicle on its own.
8. PR boas may seek shelter in debris piles. Measures should be taken to avoid and minimize boa casualties associated with sheltering in debris piles as a result of project activities. Debris piles should be placed far away from forested areas. Prior to moving, disposing or shredding, debris piles should be carefully inspected for the presence of boas. If debris piles will be left on site, we recommend they be placed in areas that will not be disturbed in the future.
9. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #5). If the PR boa was accidentally killed as part of the project actions, please include information on what conservation measures had been implemented and what actions will be taken to avoid further killings. A dead boa report should be sent by email (see contacts below) to the Service within 48 hours of the event.
10. Projects must comply with all state laws and regulations. Please contact the PRDNER for further guidance.

If you have any questions regarding the above conservation measures, please contact the Service:

- José Cruz-Burgos, Endangered Species Program Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - Office phone (305) 304-1386
- Jan Zegarra, Fish and Wildlife Biologist
 - Email: jan_zegarra@fws.gov
 - Office phone (786) 933-1451

Appendix H:
USFWS Guajon Conservation Measures 2023

Caribbean ES Coqui Guajon Project Guidelines

Guajon

Generated August 01, 2024 01:24 PM UTC, IPaC v6.112.0-rc2



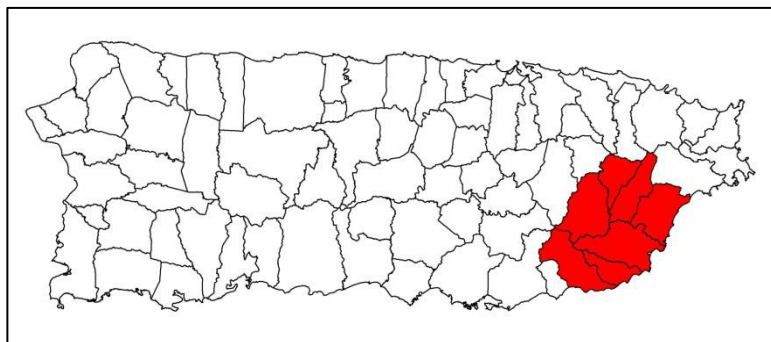


U.S. FISH AND WILDLIFE SERVICE CARIBBEAN ECOLOGICAL SERVICES FIELD OFFICE

Conservation Measures for the Coquí Guajón (*Eleutherodactylus cooki*)

Section 7 (a)(1) of the Endangered Species Act (ESA) charges Federal agencies to aid in the conservation of listed species, and section 7 (a)(2) requires the agencies, through consultation with the U.S. Fish and Wildlife Service (Service), to ensure their activities are not likely to jeopardize the continued existence of listed species or adversely modify designated critical habitats. Section 7 applies to the management of Federal lands as well as Federal actions that may affect listed species, such as Federal approval of private activities through the issuance of Federal funding, permits, licenses, or other actions. Any person that injures, captures, or kills a Coquí guajón destroy its eggs, and/or modify its critical habitat is subject to penalties under Federal law. If federal funds or permits are needed, the funding or permitting agency shall initiate Section 7 consultation with the Service. To initiate a consultation under the Section 7 of the ESA, you must submit a project package with the established minimum requirements. These conservation measures should be incorporated into the project plans to minimize possible impacts to the species. Download the [project evaluations fact sheet](#) to learn more about the requirements or visit our [project evaluations webpage](#).

The coquí guajón is a relatively large species within the coqui frog family, reaching approximately 3 inches in length with females being larger than males. The species is considered mostly nocturnal, but can also be heard calling during daylight hours and late afternoon. This coquí was federally listed as threatened in 1997 and is only known to occur in southeastern Puerto Rico in the Municipalities of Yabucoa, San Lorenzo, Patillas, Humacao, Las Piedras, Juncos, and Maunabo (shaded area in map below). You may find more information on this species including a recording of its call here: <http://www.proyectocoqui.com/portfolio/coqui-guajon/#.XHginlW6PIV>, and educational materials including a printable poster here: <https://www.coquiguajon.org/materiales-educativos>.



The coquí guajón utilizes large to small caves and crevices formed by different sized granite boulders within rocky streams. This type of habitat is commonly known as *guajonal*. The species also has been detected using road culverts and adjacent to Puerto Rico's sewer and aqueduct water

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facilities. Projects that occur upstream or upland where the species occurs may also impact its habitat further downstream.

Critical habitat has been designated in each of the municipalities mentioned above, all within private lands. The enclosed link describes and illustrates all of the 17 designated critical habitats for this species: <https://www.govinfo.gov/content/pkg/FR-2006-10-05/pdf/06-8482.pdf>. You may also download spatial data for these critical habitats by searching here: <https://ecos.fws.gov/ecp/report/table/critical-habitat.html>.

The Service has developed the following conservation measures with the purpose of assisting others to avoid or minimize adverse effects to the coqui guajón and its habitat. These recommendations may be incorporated into new project plans and under certain circumstances into existing projects. Depending on the project, additional recommendations can be made besides the ones presented in this document.

Conservation Measures:

1. Confirm the presence/absence of the species at the project site. The most effective way to do this is to identify the guajon's call during the late afternoon or night. You may contact the Service for recommendations on how and when to do this.
2. Inform all project personnel about the potential presence of the coquí guajón in areas where the proposed work will be conducted. A pre-construction meeting should be conducted to inform all project personnel about the need to avoid harming this species. An educational poster or sign with photo or illustration of the species should be displayed at the project site.
3. Proposed activities should avoid adversely affecting any of the 17 critical habitat units or any other occupied guajón habitat.
4. Be advised that the designated critical habitat is not the entire range of the species; the species can be found in any boulder type habitat in streams, ravines or drainages within the above referenced Municipalities. If the species is detected outside of the designated critical habitat areas, it is still protected under the Endangered Species Act.
5. Prior to any construction activity, including removal of vegetation and earth movement, the boundaries of the project area, the buffer zones, and areas to be excluded and protected should be clearly marked in the project plan and in the field.
6. It is important to implement proper erosion and sedimentation control measures when working within or adjacent to coqui guajón habitat. Sediment runoff can adversely impact the species and its habitat by filling the caves and crevices where the species occurs and uses to lay its eggs. As water is a very important component of the species' habitat, any stream, creek, or similar body of water with the habitat characteristics indicated above may harbor the species, hence it should be protected to the maximum extent possible.
7. Areas that can be impacted by construction or any other activity would potentially require the relocation of frogs and consultation with the Service for such action is required. If

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relocation is proposed, a capture and relocation protocol should be developed and sent to the Service for evaluation before the project starts. Capture and relocation of frogs should be conducted only by qualified personnel avoiding harming, injury or killing individuals.

8. A before and after photographic record of the project area should be established. In addition, a record of all coquí guajón detections, including date, time, location, and approximate number of individuals should be established.
9. Projects must comply with all State laws and regulations. Also, contact PRDNER for further guidance.

If you have any questions regarding the comments above, please contact the Service Monday to Friday 8:00 am – 4:30 pm

- José Cruz-Burgos, Endangered Species Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - (305) 304-1386
- Jan P. Zegarra, Fish and Wildlife Biologist
 - Email: janz_zegarra@fws.gov
 - (786) 933-1451

Guidance for Repair, Replacement, and Clean-up of structures in Streams and Waterways of Puerto Rico and US Virgin Islands

In Puerto Rico (PR) and US Virgin Islands (USVI), flooding caused by heavy rainfall events, tropical storms, and hurricanes can damage stream crossings (bridges, culverts, low-water crossings, etc.) and in-stream structures (piers, docks, etc.), and create debris jams. Many streams in PR and USVI support an array of aquatic species, including anadromous and catadromous native fish and a suite of native shrimp. Repair and clean-up activities in streams have the potential to adversely affect these species and their habitat, causing sedimentation in areas downstream of the project and disruption of sediment transport leading to channel instability.

This guidance applies to repair, replacement, and clean-up projects related to storm damage or natural processes. The guidance applies to creeks, rivers, and tidally-influenced waters in PR and USVI. All projects in aquatic habitats should be considered with the following conditions below.

General Guidance for Road Crossing Structures

Road-Stream Crossing Removal and Associated Channel Restoration

If a temporary crossing structure will be removed, the affected area should be restored to a natural state. Following structure removal, the stream channel should be reconstructed to match natural bankfull (i.e., channel shape from effective discharge or channel forming discharge [Figure 1]) width, channel slope and active floodplain dimensions, which exist upstream and downstream of the structure being removed. This activity should occur to restore physical and biological aquatic habitat connectivity, most notably, passage for aquatic and terrestrial organisms.

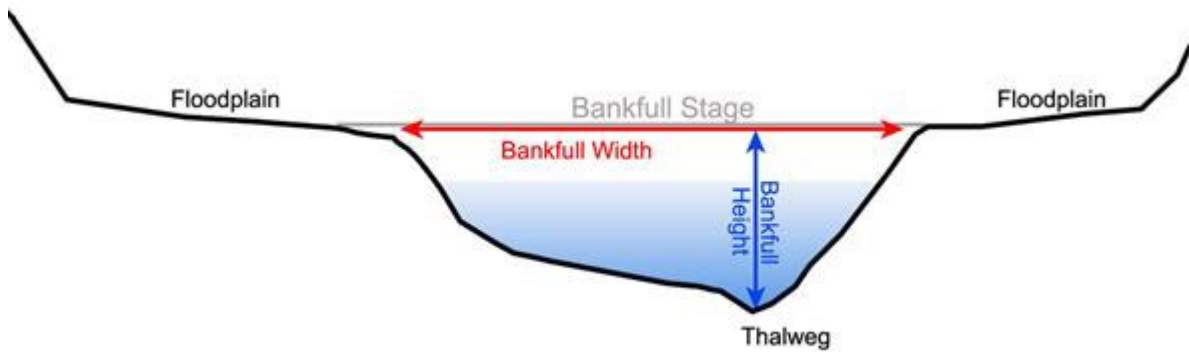


Figure 1. Bankfull Cross Section.

Road-Stream Crossing Replacement Structure

Replacement with a culvert or open-bottomed structure. Culvert refers to a variety of closed-bottomed metal and concrete structures. Open-bottomed structures include arches, three-sided boxes and bridges. Structure widths should be at least 1.2 times bankfull width with stable bank rocks on both sides. Structures should be constructed in a manner that accommodates 100-year flows, (Figures 2 and 3) and allows for natural stream processes including sediment and woody debris transport to the greatest degree possible given the structure dimensions. Flood relief culverts (Figure 4) on unconfined floodplains may be used. Crossings with large unconfined floodplains may require additional capacity or may include floodplain relief structures.

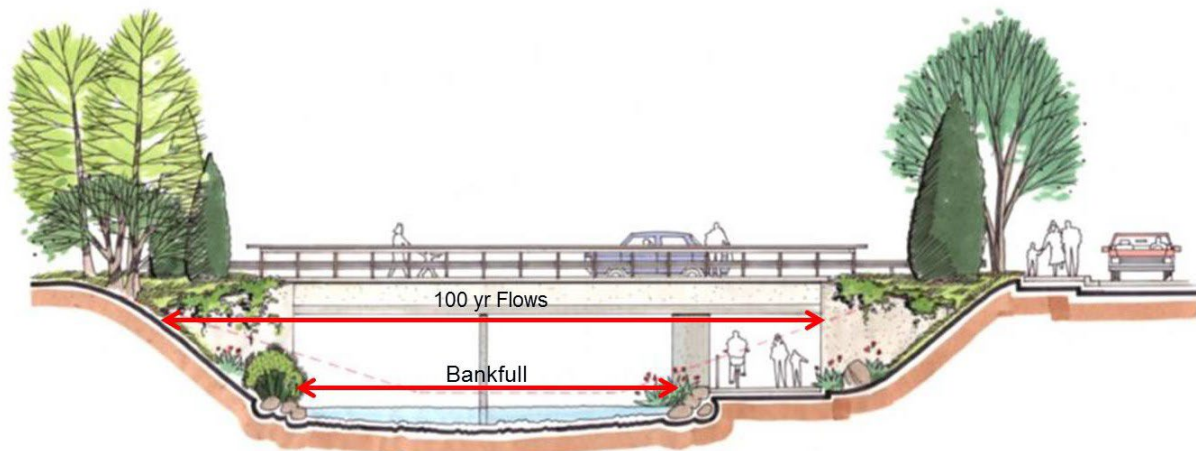


Figure 2. 100 yr Flow Design.



Figure 3. Bridge with Floodplain and Height Capacity for 100 yr Flows.



Figure 4. Bankfull Channel Culvert with Flood Relief Culverts at Floodplain Elevation.

Design Criteria

Stream crossing designs are intended to replicate the natural stream processes within and immediately adjacent to a culvert or opened-bottom structure. Aquatic organism passage, sediment transport and flood and wood conveyance within the structure are intended to imitate the stream conditions upstream and downstream of the crossing, as close to natural conditions as the structure type allows (Figures 5 and 6). Culverts and open-bottomed structures, when properly sized and designed, can accomplish these natural stream processes. Culverts should be $\frac{1}{3}$ partially filled with

material that simulates the natural streambed. Open-bottomed structures should contain substrate that matches the natural stream channel.



Figure 5. Poor design has resulted in scour and degradation below culvert and obstruction to fish passage.



Figure 6. Bankfull Bottomless Arch Culvert with Floodplain Relief Drain.

Implementation of a replacement project requires a high level of information and site-specific data regarding stream hydrology and geomorphology, as well as engineering and construction expertise. Project design criteria include several components as described below.

Structure Width

The width of structures (at bankfull or top of bank elevation) should be equal to or greater than 1.2 times bankfull channel width. A single structure span of the width is preferred but multiple culverts are allowed, and should be accompanied with flood relief drains. The minimum structure width of a culvert should be five feet to allow placement of substrate material. The width of the structures within the vertical adjustment potential should be equal to or greater than 1.2 times bankfull channel width. No piers, footers, piles, or abutments should be within 1.2 times bankfull width, unless there are constraints in placement and design criteria which then should allow for a minimum amount of structures.

Structure Alignment

The structure should achieve optimal orientation relative to both the road and stream channel. Replacement structures are sometimes shifted to achieve better alignment with the natural stream channel pattern at the crossing location. Skew angle should be in line with stream channel orientation.

Structure Capacity

The structure should accommodate a 100-year flood flow without significant change in substrate size and composition. To meet this requirement, unconstrained channel types may require structures wider than 1.2 times bankfull or additional flood relief structures. The headwater depth to structure height ratio should not exceed 0.8:1 for 100-year flows in order to allow for additional vertical clearance for woody debris and sediment transport.

Channel Slope

The culvert structure slope should match an appropriate reference reach of the natural stream (assessed at a minimum of approximately 20-30 times the channel width upstream and 20-30 times the channel width downstream of the site, though a suitable reference reach could be located further upstream or downstream). The maximum slope should not exceed 3.5 percent because of difficulties in retaining substrate within the structure at higher gradients, increasing both costs and design complexity. Bridges do not have a maximum slope range.

Embedment

If a culvert is used, the bottom of the culvert should be buried into the streambed not less than 20 percent of the culvert height.

Elevation

For open-bottomed structures, the footings or foundation should be designed to be stable for the maximum scour depth. The structure should also provide a low flow channel.

Substrate

Material in structures should match the natural stream channel. Bed materials should match natural stream bed mobility characteristics. Bank and other key bed structural elements (e.g. steps, weirs, ribs, etc.) should be stable at the 100-year flow.

Geotechnical analysis

Structure design and construction methods may be influenced by soil composition and subsurface conditions including, but not limited to, the presence of bedrock and clay. The need for geotechnical analysis is determined on a project-specific basis and is not always necessary.

These recommendations promote the use of the U.S. Forest Service's Stream Simulation approach for designing road-stream crossings, an approach which our agencies have successfully used on previous projects to support recovery of anadromous and catadromous fishes by restoring stream habitat.

Specific Conditions for Road-Stream Crossings:

A. Bridge and Culvert Repair, Replacement, or Upgrade to a Higher Preference Order

All bridge and culvert projects should follow the guidelines below and the General Conditions in D. General design drawings and recommendations are shown in Appendix A. Stream crossing structures are listed in order of preference from 1 (most preferred) to 4 (least preferred). Bridges that fully span the stream and have no in-stream pilings are preferred over other crossing types and should be used whenever possible as they minimize impacts to listed species and critical habitat, and reduce the need for future repairs.

Order of Preference	Structure	Project Description	Conditions
N/A	Bridge	Repair/ reinforcement	Follow the General Conditions listed in D. below.
		Repair/reinforcement with new rip rap	<i>Placement of new rip rap in-stream should be consulted on with the Service on a case-by-case basis for specific recommendations.</i>
1	Bridge – no in-stream pilings	Replacement or upgrade	<ol style="list-style-type: none"> 1) Remove all remnants of the damaged structure from the stream channel and dispose of in an off-site disposal area. 2) Follow the General Conditions listed in D. below.
2	Bridge – with in-stream pilings	Replacement or upgrade	<i>All bridge replacements and upgrades that require in-stream supports should be consulted on with the Service on a case- by-case basis for specific recommendations.</i>
3	Culvert – bottomless	Replacement or upgrade	<ol style="list-style-type: none"> 1) Culvert width should be 1.2 times bankfull width. 2) Multiple culverts are needed when the maximum culvert width available is reached, but bankfull width has not been reached. 3) Culvert slope should match channel grade. 4) It is recommended that floodplain relief drains be installed in road approaches.
4	Culvert – box, elliptical or round (in order of preference for minimization of impacts)	Replacement	<ol style="list-style-type: none"> 1) Culvert width should be 1.2 times bankfull width. 2) Culvert should be counter sunk below substrate to a depth of 20% of the culvert diameter (round) or rise (elliptical, box). 3) Multiple culverts are needed when the maximum culvert width available is reached, but bankfull width has not been reached. 4) Culvert slope should match channel grade. 5) It is recommended that floodplain relief drains be installed in road approaches.

B. Demolition and Removal of Damaged Structures

- Conduct activities in a manner that minimizes disturbance to the stream bottom and banks.
- The structure should be lifted or floated out of the stream, not dragged on the bottom.
- Wooden pilings should be cut or pinched off at the substrate level.

- Remove all remnants of the damaged structure from the stream channel and dispose of in an off-site disposal area.
- In addition, follow the General Conditions listed in D. below.

C. Debris Removal

- When feasible and safe, natural woody debris should remain in the stream.
- Conduct activities in a manner that minimizes disturbance to the stream bottom and banks.
- Debris should be lifted or floated out of the stream, not dragged on the bottom.
- In addition, follow the General Conditions listed in D. below.

D. General Conditions for all Projects

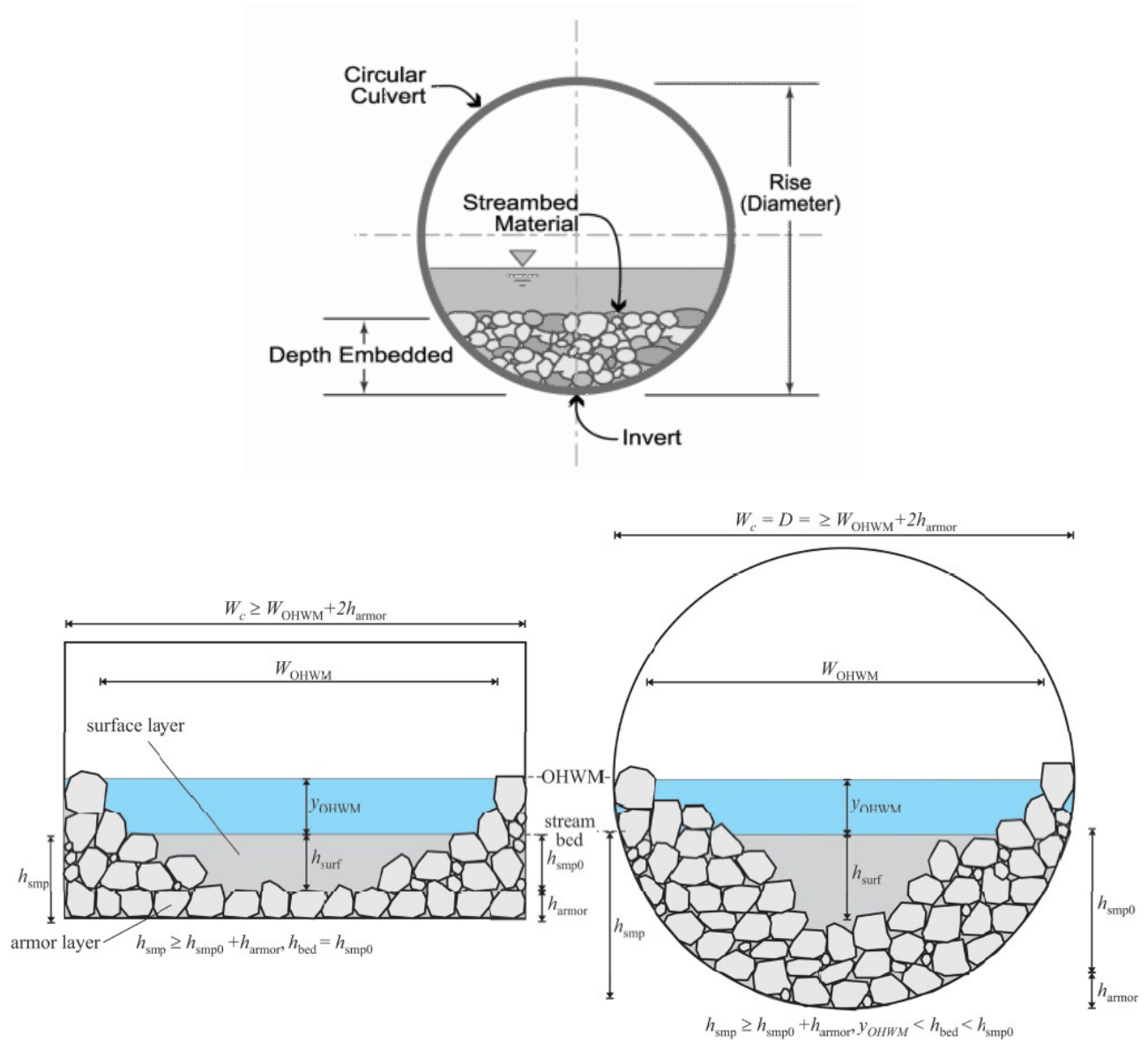
1. Keep in-stream work to a minimum.
2. Conduct work activities from atop a stable streambank or reinforced platform, when feasible, and in a manner that does not degrade or destabilize the streambank.
3. Install erosion and sediment control devices before any work is performed, and closely monitor and maintain for the life of the construction project. Implement the appropriate best management practices for preventing and minimizing erosion and sediment outlined in the following manuals: *Florida Stormwater, Erosion, and Sediment Control Inspector's Manual* (July 2008), and *State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (July 2007).
4. Keep land clearing to the minimum level necessary for project completion. Stream bank vegetation should be left intact to the extent practicable. Cutting vegetation is preferred to root grubbing near streams.
5. Cover disturbed areas with erosion controls mats and revegetated promptly with native grasses.
6. Locate debris collection sites, borrow sites, fill dirt stockpiles, and equipment staging areas at least 200 feet from stream channels to minimize the potential of sediments and contaminants entering the waterway.

E. Low Water Crossings-Fords

1. All recommendations for Low Water Crossings-Fords can be found in the U.S. Forest Service Publications Number 0625 1808—SDTDC Titled “Low-Water Crossings: Geomorphic, Biological, and Engineering Design Considerations”.

Contact Information: Caribbean Ecological Services Field Office
Marelisa Rivera
U.S. Fish and Wildlife Service
P.O. Box 491
Carr 301, Bo Corozo
Boqueron, Puerto Rico 00622
Phone: (787) 851-7297 x 206
<https://www.fws.gov/caribbean/>

Appendix A General Design Drawings for Fish Passage Structures



APPENDIX E

Section 106 Consultation



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

Thursday, November 21, 2024

Lauren B Poche

269 Avenida Ponce de León, San Juan, PR, 00917

SHPO-CF-11-06-24-03 PR-RGRW-04129 (San Lorenzo), Agronat, LLC

Dear Ms. Poche,

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

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

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

Sincerely,

Carlos A. Rubio Cancela

State Historic Preservation Officer

CARC/GMO/MB



Cuartel de Ballajá (Tercer Piso), Calle Norzagaray, Esq. Beneficencia, Viejo San Juan, PR 00901 | PO Box 9023935, San Juan, PR 00902-3935



GOVERNMENT OF PUERTO RICO
DEPARTMENT OF HOUSING

April 30, 2024

Arch. Carlos A. Rubio Cancela

Executive Director

Puerto Rico State Historic Preservation Office

Cuartel de Ballajá, Third Floor

San Juan, Puerto Rico 00901

Re: Authorization to Submit Documents for Consultation

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 review services, among others, that will support the objectives of the agenda for both CDBG-DR and CDBG -MIT Programs.

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,

Aldo A. Rivera Vázquez, PE

Director

Division of Environmental Permitting and Compliance

Office of Disaster Recovery

November 6, 2024

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

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

Section 106 NHPA Effect Determination Submittal: SHPO ID: 08-14-23-12 PR-RGRW-04129 – Agronat, LLC – Barrío Quebrada Arrenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico – *No Historic Properties Affected*

Dear Architect Rubio Cancela,

In accordance with Section 106 of the National Historic Preservation Act and its implementing regulations, 36 CFR Part 800, HORNE is providing information for your review and requesting your concurrence regarding the above-referenced projects on behalf of the Puerto Rico Department of Housing (PRDOH). On February 9, 2018, an allocation of Community Development Block Grant - Disaster Recovery (CDBG-DR) funds were 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 August 14, 2023, PRDOH initiated consultation for the proposed purchasing of fertilizers, a UTV, motorized farm implements (mower, harrow, roller, and chipper/shredder), farm supplies (including materials for new saran crop coverings), and the purchase and installation of new solar water pumps at Barrío Quebrada Arrenas Carr. 902 Km. 4.3, within the municipality of San Lorenzo. In a letter dated August 21, 2023, your office concurred with our determination of No Historic Properties Affected, based on the scope of work provided at that time. Since then, the location of the solar well pumps and shade structure has changed from the originally submitted locations. This revision now includes the new proposed locations for the solar wells and shade structure.

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

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns.


Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, EHP Senior Manager
LBP/JLE/JCO

Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

Project Location: Barrio Quebrada Arrenas Carr. 902 Km. 4.3	SHPO ID: 08-14-23-12
Project Coordinates: SOW 1: 18.1147837, -65.9542979; SOW 2: 18.113564, -65.952593; SOW 3: 18.113329, -65.952806	
TPID (Número de Catastro): 327-000-004-40-000, 327-000-004-43-001	
Type of Undertaking: <input type="checkbox"/> Substantial Repair <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): c1975	Property Size (acres): 36.26 acres

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid
Date Reviewed: 10/26/2023
SOI-Qualified Archaeologist: Roberto G. Muñoz-Pando, PhD; Jennifer Ort, M.S.
Date Reviewed: 12/27/2023; November 1, 2024


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

Project Description (Undertaking)

Parcel 1 ID: 327-000-004-43 (Scope of Work 1)
Coordinates: 18.1147837, -65.9542979
Area Property: 100,383.02 m² = 24.81 acres

Parcel 2 ID: 327-000-004-40 (Scope of Work 2 and 3)
Coordinates: 18.113564, -65.952593
Area Property: 46320.92 m² = 11.45 acres

Consultation for this project was initiated in August of 2023, with a concurrence with the finding of no historic properties affected received in a letter dated August 21, 2023. Consultation is being re-initiated due to a change in the location coordinates of the solar well-pump locations (SOW 1 and 2), and the shade structure (SOW-3). The proposed project includes purchasing two solar well pumps, farm equipment, and production supplies. The farm equipment consists of the purchase of motorized cultivation implements and a Utility Task Vehicle (UTV). The motorized equipment includes purchasing a mower, harrow, roller, and chipper/shredder. The production supplies include the purchase of fertilizer, the materials for the installation of a shade structure, and the equipment to produce vegetables. The solar

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM ReGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

well pump system consists of a submersible water pump with solar panels to provide the power needed for the pump.


The Scope of Work-1 (SOW-1) is to install a solar submersible well pump system at coordinates 18.1146458, -65.9545688 (approximately 323 ft [98.4 meters (m)] north of the previously proposed location) to convey water for irrigation of the existing cropping area. As part of the operations and equipment, the farm has three cisterns connected to the local water utility service for the storage of potable water. Two of the cisterns, 2,000 and 600 gallons, are located next to the cropping area for irrigation. A new pump will be submerged in the existing water storage tanks, not fixed to the ground, to provide the head needed to irrigate crop areas. The installation of the solar system to operate the pump will require a galvanized metal 8-foot (ft) support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The Scope of Work 2 (SOW-2) is the installation of a second solar submersible well pump system at coordinates 18.1135646, -65.9525931 (approximately 255.6 ft [77.9 m] north-northeast of the previously proposed location). The pump will be used to irrigate a new crop area. The SOW-2 includes the installation of a storage tank and a solar panel system. As in SOW-1, the applicant proposes to use a solar-powered submersible water pump to provide the head needed to use stored water for irrigation purposes. The installation of the solar system will require a galvanized metal 8 ft support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base.

The Scope of Work 3 (SOW-3) is the installation of a shade structure at coordinates 18.1133144, -65.9527449 (approximately 721.06 ft [218.8 m] north-northwest of the previously proposed location). The applicant plans to install ground cover and wood posts covered with Saran cover to protect vegetable crops. The proposed structure consists of 22 wooden posts placed every 10 ft, at an approximated depth of 3 ft, to cover a 100 ft x 20 ft area. The proposed action does not include enclosed buildings, residential occupation, or mid- to long-term occupation (more than 4 hours a day) of the proposed crop area structure.

The intended use of funds includes the purchase of fertilizer, a motor culture, and a UTV. The applicant plans to store new farm equipment at an existing steel storage container located at 18.1135770, -65.9528130, next to the area that the applicant intends to prepare for new cropping.

No power or water connections are needed for the proposed project. However, the farm is connected to local power and water utilities. The applicant plans to have refrigerated storage. If a connection is needed, the applicant plans to connect the power via an aboveground electrical conduit to the main power connection. Materials and installation costs of power and utility connection activities are not included in the intended use of funds. If needed, the applicant plans to pay for the materials and installation of utilities themselves, and no HUD funds will be utilized for this portion of the work.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

From 1920 to 1970, the land was used as a tobacco and vegetable crop farm. Currently, the land is still used for vegetable farming.

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 are the three scopes of work areas described in the Project Description (Undertaking) section of this form, and the visual APE is the viewshed of the proposed project.


Identification of Historic Properties - Archaeology

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this Undertaking. The review of this existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area has no previously identified archaeological sites within a quarter-mile buffer of the project area. One archaeological resource survey was conducted in the quarter-mile research radius. It was a Phase 1A-1B study performed in 1991 by Eugenio Barnés Español with the title "Mejoras al Sistema de Acueductos- CIP 6-14-7160." Its IPRC code is ICP/CAT-SL-9-01-07, and its results were negative for archaeological remains. Part of the study area is 0.01 miles north of the APE.

The project area crossed three mapped soil series per the USDA Web Soil Survey website: Jagüeyes loam, 20 to 40 percent slopes, eroded (JaE2); Lirios silty clay loam, 20 to 60 percent slopes, eroded (LoF2); and Pandura sandy loam, 40 to 60 percent slopes (PaF). This combination of soil types, their eroded condition, and their combined 20 to 60 percent slopes make the probability of finding new and intact archaeological deposits in the APE low to moderate.

Identification of Historic Properties - Architecture

Existing information on previously identified historic properties has been reviewed to determine if any such properties are located within the APE of this Undertaking. The review of this existing information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that the project area is **not** within the boundaries of a National Register of Historic Places (NRHP)-

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REgROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

eligible or listed Traditional Urban Center or Historic District. Additionally, there are **no** NRHP-listed properties within the quarter-mile buffer zone from the property's APE.


The proposed project is located in a rural, mountainous terrain surrounded by grasslands. The APE lies west of the public road PR-902 in San Lorenzo. A circa 1975 storage building is located east of the APE's geocoordinates. The building, shown below, appears in a 1977 aerial image, which is the earliest available for the area.



Figures 1 & 2. Detail of 1977 aerial image indicating the location of the building on the property and building elevation, view to the north.

This building is a one-story concrete house built on an incline. This building has a concrete foundation, concrete walls, and a flat concrete roof with overhangs. The building has a recessed front porch on the right side of the façade that is enclosed by metal grilles.

This building **does not** meet the requirements to be eligible for listing on the National Register of Historic Places.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REgROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo


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 the project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. No NRHP-listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect.

No known archaeological sites or historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect. Based on our research presented in the Identification of Historic Properties sections of this form, project actions will not affect any historic properties or archaeological sites in the Area of Potential Effect since none are present in said area.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REGrow PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

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"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments: 	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

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






Source: CRIM

Author: TG

Date: 7/27/2023

Legend

-  Tier 2 Site
-  Area of Potential Effect
-  Parcelario



Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location - Aerial Map








Source: CRIM

Author: TG

Date: 9/22/2022

Legend

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



Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location - USGS Topographic Map



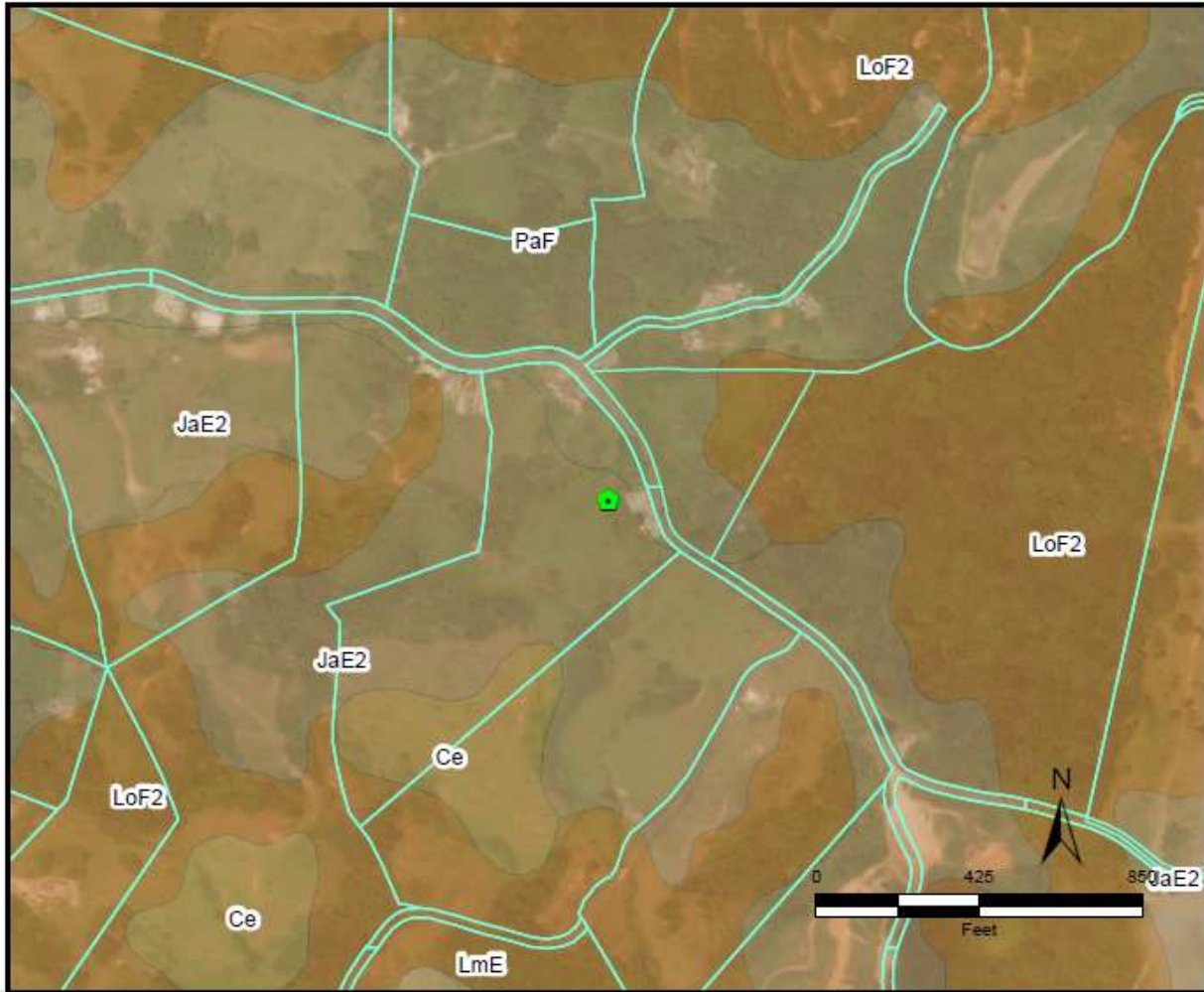
 <p>TETRA TECH</p> <p>Source: USGS</p> <p>Author: TG Date: 9/19/2023</p>	<p>Legend</p> <ul style="list-style-type: none"> Tier 2 Site Historic Comunidades Traditional Urban Centers Cultural Resource District Polygon	
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Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location – Soils Map



Source:USDA

Author: TG

Date: 10/17/2023

- Legend**
-  Tier 2 Site
 -  Parcelario
 - Soil Type**
 -  Ce,Candelero loam
 -  JaE2,Jagueyes loam, 20 to 40 percent slopes, eroded
 -  LmE,Limonas clay, 20 to 40 percent slopes
 -  LoF2,Litos silty clay loam, 20 to 80 percent slopes, eroded
 -  PaF,Pandura sandy loam, 40 to 80 percent slopes



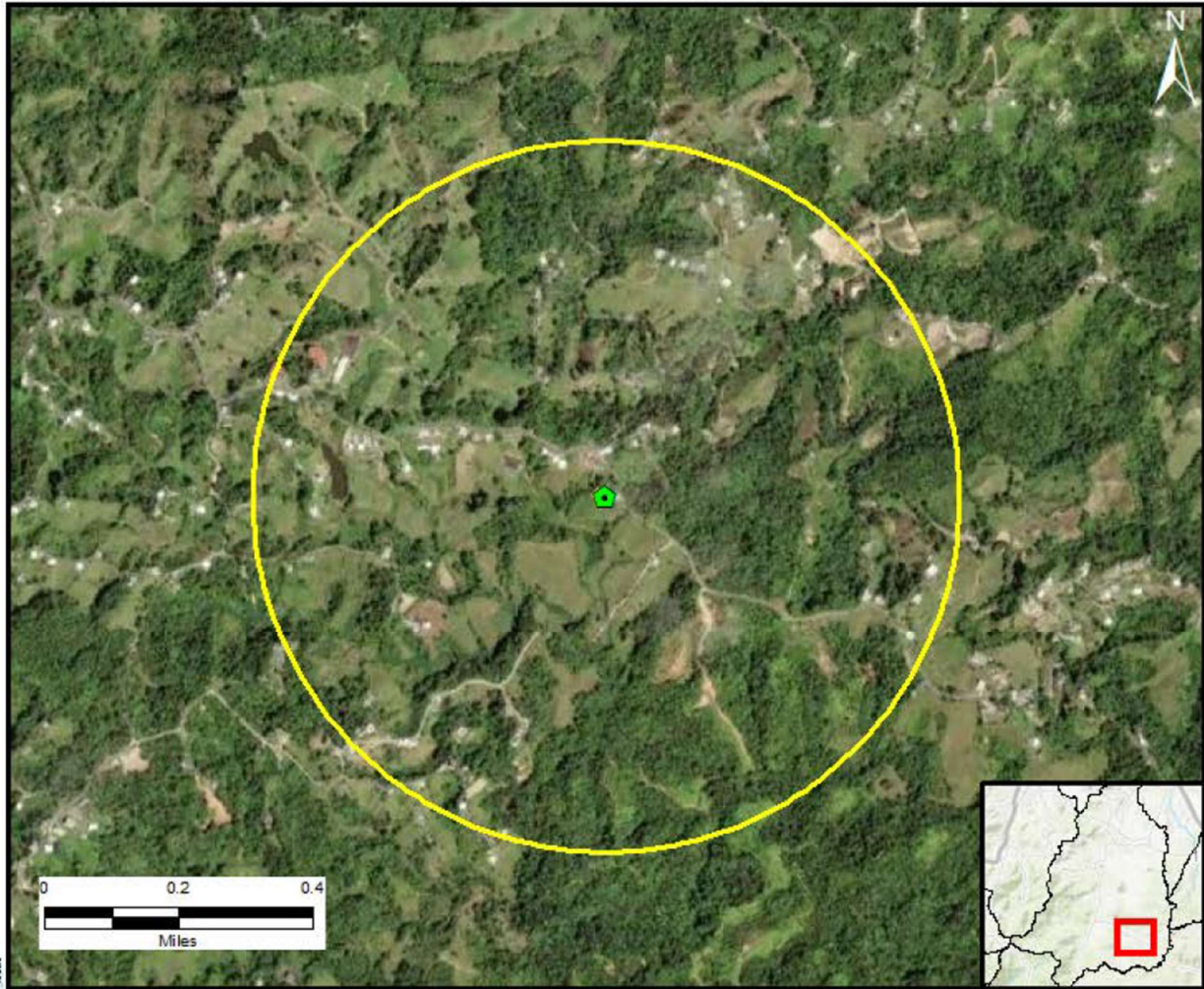
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Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location with Previous Investigations - Aerial Map








Source: National Park Service

Author: TG

Date: 7/27/2023

Legend

-  Tier 2 Site
-  Half Mile Buffer
-  Historic Comunidades
-  Traditional Urban Centers

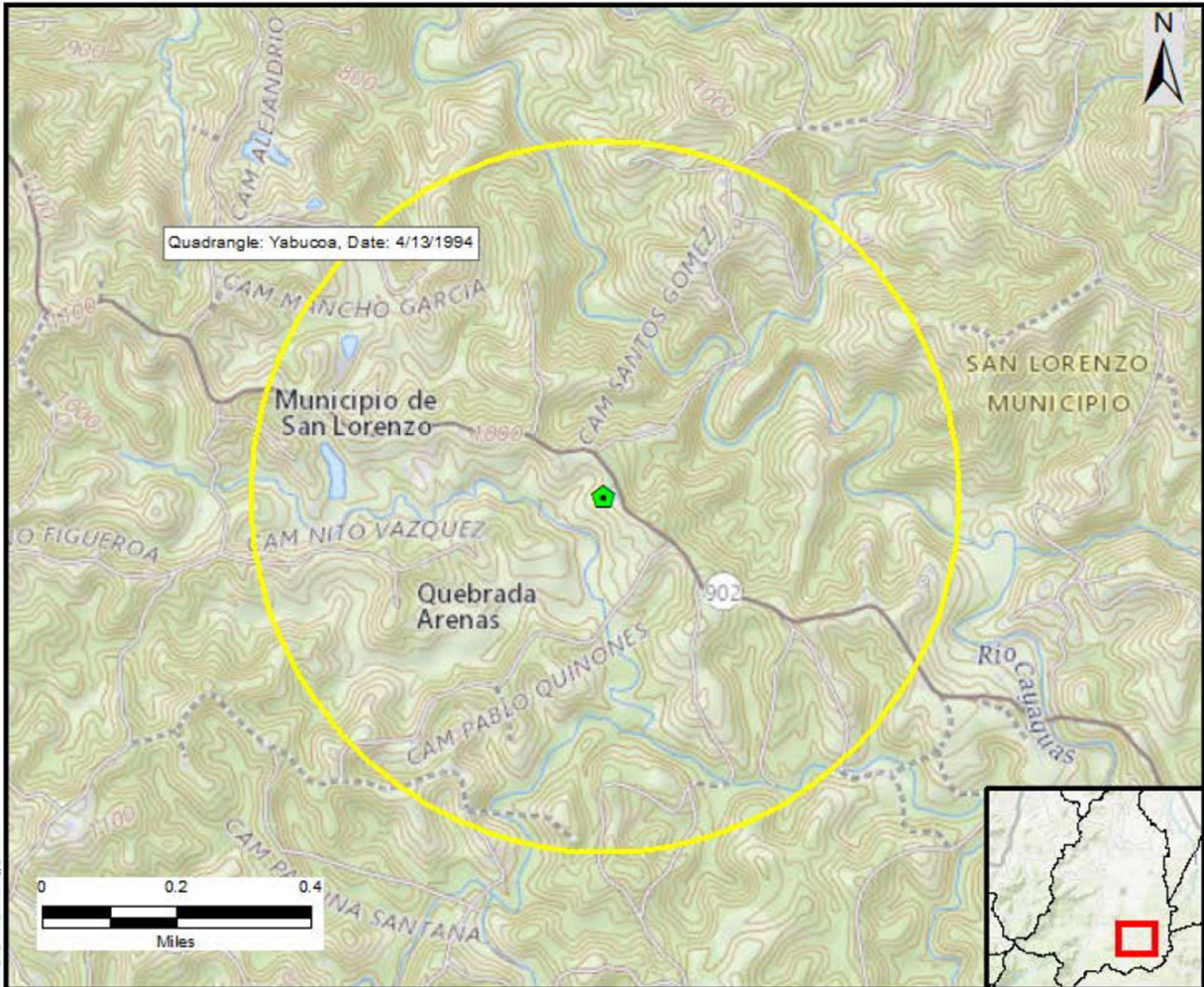
-  Cultural Resource District Polygon

Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

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



Source: National Park Service

Author: TG

Date: 7/21/2023

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

Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Photograph Key



Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 1

Description (include direction): Scope of work 1: Solar well pump system, view to the North.

Date: 10/17/2023



Photo #: 2

Description (include direction): Scope of work 1: Solar well pump system, view to the West.

Date: 10/17/2023

Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 3

Description (include direction): Scope of work 2: Solar well pump system, view to the West.

Date: 10/17/2023



Photo #: 4

Description (include direction): Scope of work 2: Solar well pump system, view to the Southwest.

Date: 10/17/2023

Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 5

Description (include direction): Scope of work #3: Saran and ground covers with posts, view to the South.

Date: 10/17/2023



Photo #: 6

Description (include direction): Scope of work #3: Saran and ground covers with posts, view to the Southwest.

Date: 10/17/2023

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM

ReGROW PUERTO RICO PROGRAM

Section 106 NHPA Effect Determination



Subrecipient: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 7

Description (include direction): Scope of work 4: Warehouse area, view to the Southwest.

Date: 10/17/2023



GOVERNMENT OF PUERTO RICO

STATE HISTORIC PRESERVATION OFFICE

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

August 21, 2023

Lauren Bair Poche

HORNE

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

SHPO 08-14-23-12 SECTION 106 NHPA EFFECT DETERMINATION SUBMITTAL:
PR-RGRW-04129- AGRONAT, LLC- CARR. 902, KM 4.3, BO. QUEBRADA
ARENAS, SAN LORENZO, PUERTO RICO

Dear Ms. Bair,

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

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

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/MB



August 14, 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-04129 – Agronat, LLC – Carr. 902 Km. 4.3 Bo. Quebrada Arrenas, San Lorenzo, Puerto Rico – *No Historic Properties Affected*

Dear Architect Rubio Cancela,

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

On behalf of PRDOH and the subrecipient, the Puerto Rico Department of Agriculture, HORNE is submitting documentation for activities proposed by Agronat, LLC at the property located at Carr. 902 Km. 4.3 in Bo. Quebrada Arrenas in the municipality of San Lorenzo. The proposed activities consist of the purchase fertilizers, an UTV, a motorized farm implements (mower, harrow, roller, and chipper/shredder), farm supplies (including materials for new saran crop coverings) and the purchase and installation of new solar water pumps. Ground disturbing activities will be required for the installation of the saran crop coverings and for the installation of the new solar water pump system. The solar panels needed to run the new water pumps will be centered at two locations. The solar arrays will require a galvanized metal support beam anchored to a new concrete base. The new water pumps will be submerged in ponds and not fixed to the ground surface.

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


Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676 with any questions or concerns.

Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, Historic Preservation Senior Manager
Attachments

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM ReGROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination		
Applicant Name: Agronat, LLC		
Case ID: PR-RGRW-04129	City: San Lorenzo	

Project Location: Barrio Quebrada Arrenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico, 00725	
Project Coordinates: Various	
TPID (Número de Catastro): 327-000-004-40-000, 327-000-004-43-001	
Type of Undertaking: <input type="checkbox"/> Substantial Repair/Improvements <input checked="" type="checkbox"/> New Construction	
Construction Date (AH est.): n/a	Property Size (acres): 36.1 acres


SOI-Qualified Architect/Architectural Historian: n/a
Date Reviewed: n/a
SOI-Qualified Archaeologist: Jennifer Ort, M.S.
Date Reviewed: 8/2/2023

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

Project Description (Undertaking)

The proposed activities for Agronat, LLC include the purchase fertilizers, an UTV, a motorized farm implements (mower, harrow, roller, and chipper/shredder), farm supplies (including materials for new saran crop coverings) and the purchase and installation of new solar water pumps.

Ground disturbing activities will be required for the installation of the saran crop coverings and for the installation of the new solar water pump system. The saran will be centered at 18.114230, -65.954603, measuring approximately 100 feet (ft; 30 meters [m]) by 20 ft (6.1 m) in an area where several saran coverings are already in place. The saran installation will consist of 22 wooden posts placed every 10 ft (3m) to cover a 100 ft (30m) by 20 ft (6.1m) area. The solar panels needed to run the new water pumps will be centered at two locations, 18.113765, -65.954517 (just south of the saran area) and 18.113077, -65.953132, which will be located approximately 575 ft (175.4 m) southeast of the first solar array. The solar arrays will require a galvanized metal 8 ft (2.4m) support beam anchored to a 2'5"-x-2'5"-x-2'5" concrete base. The new water pumps will be submerged in ponds and not fixed to the ground surface. One water pump will be centered at 18.113565, -65.954541, and south of the saran area. The second pump will be centered at 18.112909, -65.953514, approximately 421.5 ft (128.5m) southeast of the first water pump area.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REgROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 <small>GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING</small>
Applicant Name: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

The project area is located at Barrío Quebrada Arrenas Carr. 902 Km. 4.3 within the Municipality of San Lorenzo in an agricultural setting. Based on a review of historical aerial imagery and topographic mapping, the general area was rural, with ridgetops and side slopes cleared of vegetation (1977 aerial imagery, the earliest available aerial imagery). Residential development seemingly increased along the major roadways by 1994. Structures within the project parcel(s) are present by 1994.


Area of Potential Effects

As defined in 36 CFR CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is the saran, solar array, and water pump locations (although no ground disturbance is anticipated with the water pump installation, they are included due to their proximity to the solar arrays) plus a 15-meter buffer (see attached Area of Potential Effect 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 current information by a Program contracted Historic Preservation Specialist meeting the Secretary of the Interior's Professional Qualification Standards (36 CFR Part 61) shows that there are no reported significant cultural properties within a half-mile (mi) radius of the project location.

The proposed project is in a rural agricultural/residential area within the Mountainous Interior physiographic zone. Elevations vary within the project area from 997 ft (303.8m) above modern sea level in the northern portion of the saran area to 907 ft (276.4m) at the western water pump area. The eastern solar and water pump area ranges from 925 ft (281.9m) to 900 ft (274.3m). Per the USGS/NRCS Web Soil Survey, the project area crosses two mapped soil series: Jagueyes loam, 20 to 40 percent slopes, eroded (JaE2) in the northwest and southeast portion of the APE and Lirios silty clay loam, 20 to 60 percent slopes, eroded (LoF2) in the central part of the APE. The project area APE is an active agricultural setting. The closest freshwater source is an unnamed tributary of the Río Las Vegas located approximately 0.03 miles (mi; 0.05 kilometers [km]) south of the project area. The southern coast is approximately 9.66 mi (15.5 km) from the project area.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM REgROW PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Applicant Name: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

Determination

Based on our historic property identification efforts, the Program has determined that project actions will not affect historic properties that compose the Area of Potential Effect. The project area is not within or adjacent to the boundaries of a National Register of Historic Places (NRHP)-eligible or listed historic district or Traditional Urban Center. No known archaeological sites or NRHP listed/eligible historic properties are within or adjacent to the property or the parcel in which the Area of Potential Effect of case PR-RGRW-04129 is located. The closest freshwater is 0.03 mi (0.05 km) south of the project area. The terrain is considered unsuitable for prehistoric occupations or land use. Therefore, no impact to cultural properties is anticipated for this project.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM RE-grow PUERTO RICO PROGRAM Section 106 NHPA Effect Determination	 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Applicant Name: Agronat, LLC	
Case ID: PR-RGRW-04129	City: San Lorenzo

Recommendation

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

- No Historic Properties Affected
- No Adverse Effect
 Condition (if applicable): n/a
- Adverse Effect

This Section is to be Completed by SHPO Staff Only

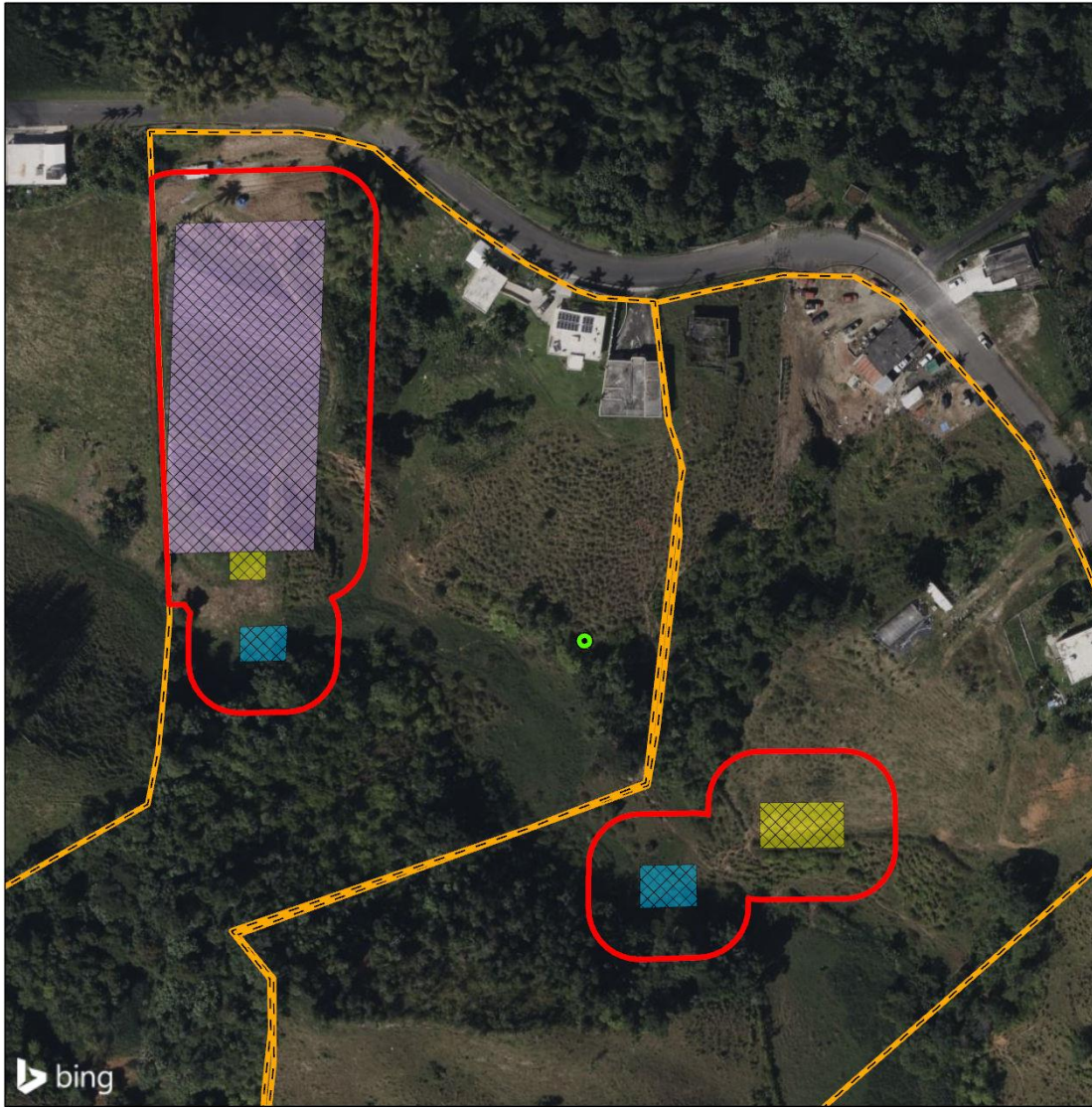
The Puerto Rico State Historic Preservation Office has reviewed the above information and: <input type="checkbox"/> Concurs with the information provided. <input type="checkbox"/> Does not concur with the information provided.	
Comments: 	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

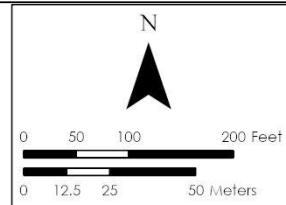
Project (Parcel) Location – Area of Potential Effect Map (Aerial)



Barrío Quebrada Arenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico



- Legend
- PR-RGRW-04129
 - Proposed Solar Panel Location
 - Proposed Solar Panel Location
 - Proposed Solar Panel Location
 - Proposed Pump Location
 - Area of Potential Effect
 - CRIM Parcel Boundary



Name: WGS 1984 Web Mercator Auxiliary Sphere Scale: 1:1,500

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location - Aerial Map

Historic Properties - Aerial Base

Puerto Rico Department of Housing

Re-Grow Program

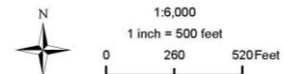
Application ID#: PR-RGRW-04129

Address: Barrio Quebrada Arenas Carr 902 Km 4.3, San Lorenzo, PR 00725

Latitude: 18.1124
Longitude: -65.9545



- | | |
|---|--|
|  Applicant Parcel |  Sitios Historicos JP |
|  Parcels |  Zonas Historicas puntos |
|  Historic Districts |  Zonas Historicas Limites |
|  Historic Communities | |
|  Traditional Urban Centers | |



Sources: Esri Imagery Basemap service.



Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

Project (Parcel) Location - USGS Topographic Map

Historic Properties - Topographic Base

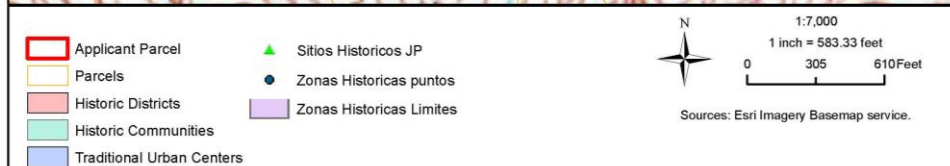
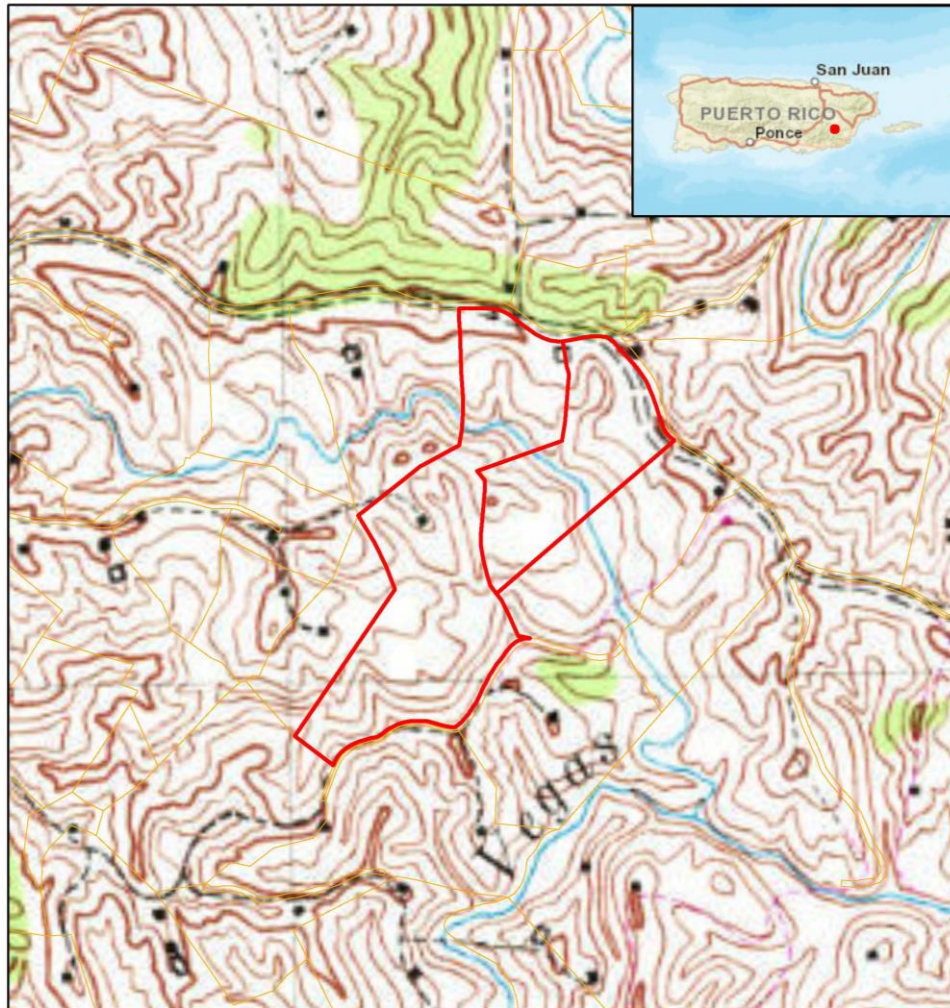
Puerto Rico Department of Housing

Re-Grow Program

Application ID#: PR-RGRW-04129

Address: Barrio Quebrada Arrenas Carr 902 Km 4.3, San Lorenzo, PR 00725

Latitude: 18.1124
Longitude: -65.9545

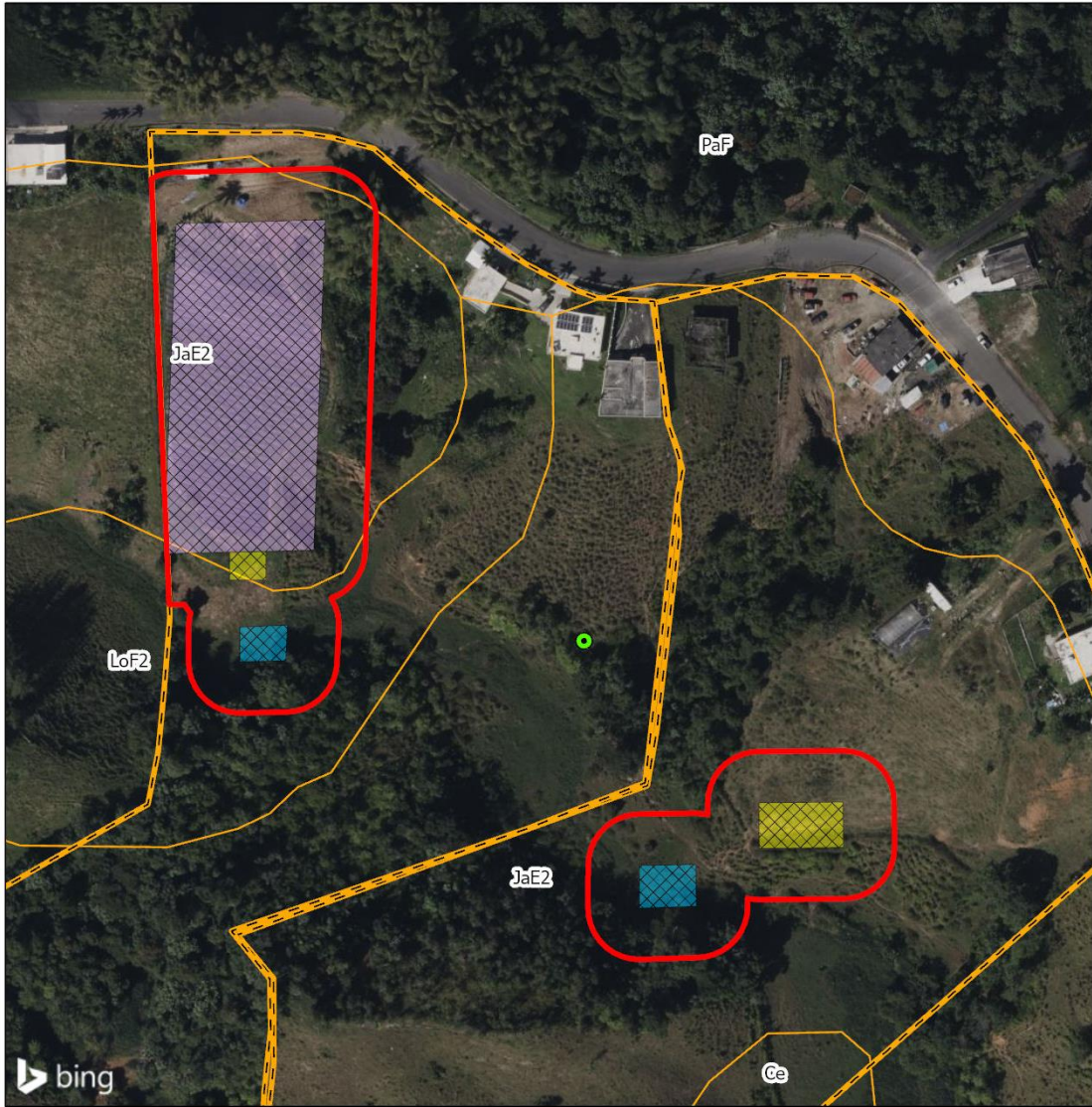


Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

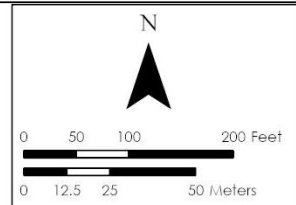
Project (Parcel) Location – Soils Map



Barrío Quebrada Arenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico



- Legend
- PR-RGRW-04129
 - Proposed Solar Panel Location
 - Proposed Pump Location
 - Proposed Solaran Location
 - Proposed Pump Location
 - Area of Potential Effect
 - CRIM Parcel Boundary
 - NRCS Soil Units



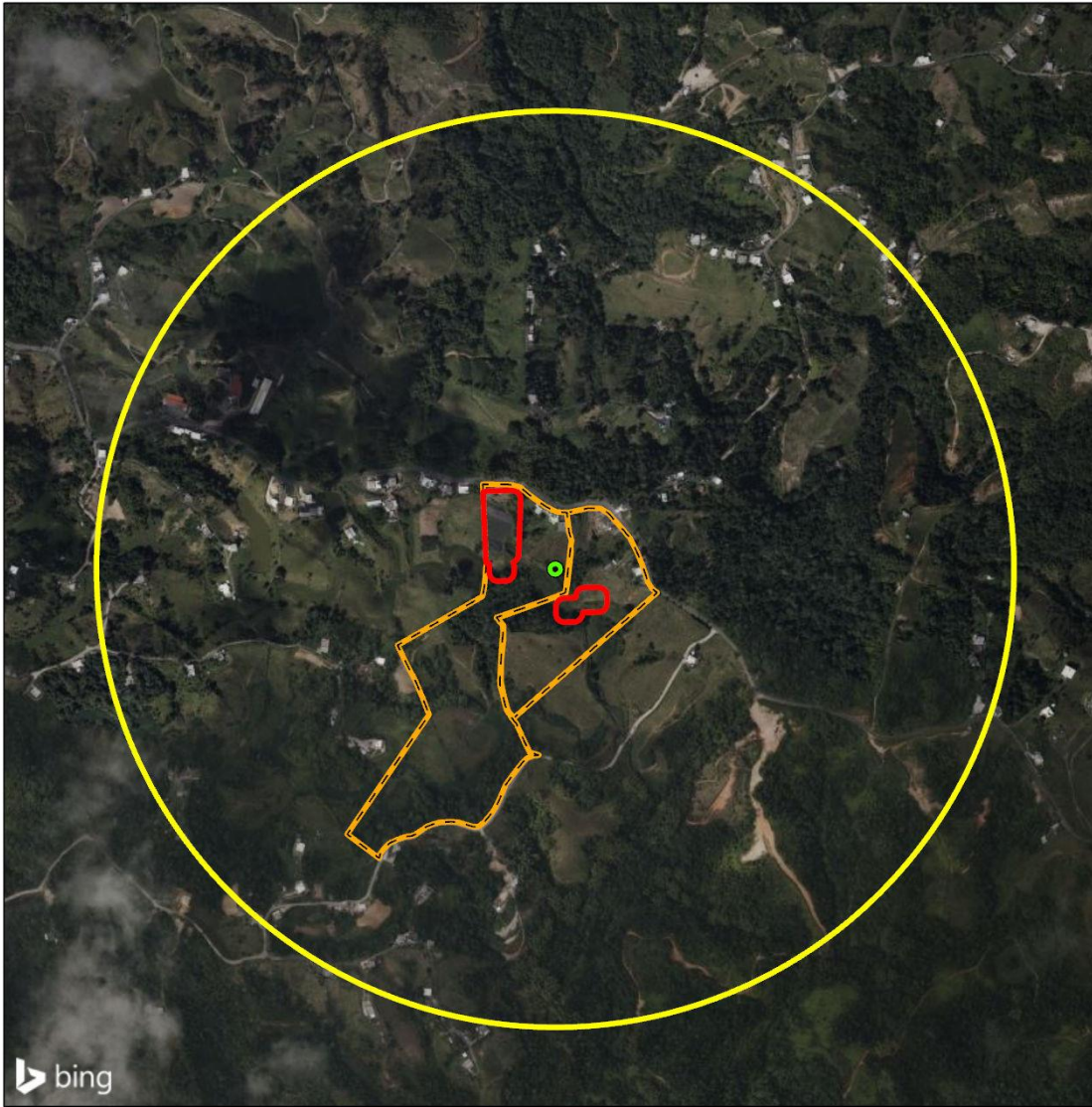
Name: WGS 1984 Web Mercator Auxiliary Sphere Scale: 1:1,500

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo





Project (Parcel) Location with Previous Investigations - Aerial Map

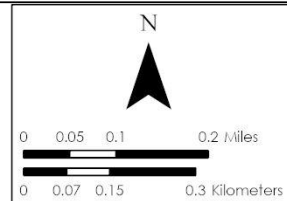


Barrío Quebrada Arenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico



Legend

-  PR-RGRW-04129
-  Area of Potential Effect
-  CRIM Parcel Boundary
-  Half-Mile Buffer



Name: WGS 1984 Web Mercator Auxiliary Sphere

Scale: 1:9,000

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo

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

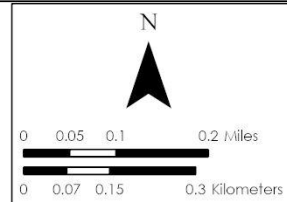


Barrío Quebrada Arenas Carr. 902 Km. 4.3, San Lorenzo, Puerto Rico



Legend

- PR-RGRW-04129
- Area of Potential Effect
- CRIM Parcel Boundary
- Half-Mile Buffer



Name: WGS 1984 Web Mercator Auxiliary Sphere

Scale: 1:9,000

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 1

Description (include direction): Overview of existing saran.

Date: 6/13/2023



Photo #: 2

Description (include direction): Overview of existing saran.

Date: 6/13/2023

Applicant Name: Agronat, LLC

Case ID: PR-RGRW-04129

City: San Lorenzo



Photo #: 3

Description (include direction): Proposed location of one solar array.

Date: 6/14/2023



Photo #: 4

Description (include direction): Proposed location of one solar array.

Date: 6/14/2023



October 20, 2022

Arch. Carlos A. Rubio Cancela

Executive Director

State Historic Preservation Officer

Cuartel de Ballajá Bldg.

San Juan, Puerto Rico

Re: Authorization to Submit Documents

Dear Arch. Rubio Cancela:

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

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

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

Cordially,

Juan C. Pérez Bofill, P.E. M.Eng

Director of Disaster Recovery

CDBG DR-MIT