



U.S. Department of Housing and Urban
Development

451 Seventh Street, SW
Washington, DC 20410
www.hud.gov

espanol.hud.gov

Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5

Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Juanita Arenas Theatre Rehabilitation and Expansion

Responsible Entity: Puerto Rico Department of Housing

State/Local Identifier: PR-CRP-000508

Preparer: Cliff Jarman

Certifying Officer Name and Title: Sally Z. Acevedo Cosme, Pedro De León Rodríguez,
Maria T. Torres Bregon, Ivelisse Lorenzo Torres, Angel Gabriel López
Guzmán, Juan Carlos Perez Bofill, Santa Ramirez Lebron, Janette Cambrelen

Grant Recipient (if different than Responsible Entity): Municipio de Hormigueros

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

Direct Comments to: Cliff Jarman, (clifford.jarman@tetrattech.com)

Project Location: 18.13956, -67.12764 Bo. Pueblo Calle Mateo Fajardo #9
Hormigueros PR 00660

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The Juanita Arenas Theater, built in 1974, has operated as an auditorium for several purposes in the urban center of Hormigueros. The building is located on Mateo Fajardo Street, the main road of the town to which the mayor's office, the Catholic church, the square, and various government facilities are attached. The Juanita Arenas Theater occupies an area of 654 square meters. In 2015, the municipality commissioned a restoration and improvement project to the theater, whose execution was not carried out for economic reasons, despite having a construction permit. The firm of Jorge Rigau Arquitectos, PSC prepared a set of plans with drawings and photos that collect the existing condition. Through funding from the City Revitalization Program, the project envisions the theater's code-code rehabilitation, including an expansion of the theater to the sidewalk to create a lobby space. It is intended to transition this public facility to its main function of serving the population of the town of Hormigueros through musical, theatrical, and cultural activities, recitals of the School of Fine Arts at low costs, accessible to the general

population. In addition, it is intended to carry out school and cultural activities, meetings, and training, among others, free of charge. Improvements include tempering the structure in compliance with American with Disabilities Act. This public building already has FEMA-approved funding for damage caused by Hurricane María, covered under FEMA Project 95443 under PW 08348.

Level of Environmental Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at § 58.35(a) (3) (iii). In the case of non-residential structures, including commercial, industrial, and public buildings: (A) The facilities and improvements are in place and will not be changed in size or capacity by more than 20 percent. Existing building capacity is 25,256 sq. ft. and proposed mechanical room adjacent to the building will be 1,380 sq. ft. (about 5.5% increase) AND (B) The activity does not involve a change in land use, such as from non-residential to residential, commercial to industrial, or from one industrial use to another.

Funding Information

Grant Number	HUD Program	Funding Amount
B-17-DM-72-0001	CDBG-DR	\$1,223,000,000
B-18-DP-72-0001	CDBG-DR	\$75,000,000

Estimated Total HUD Funded Amount: \$2,580,842.84

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$2,962,113.21

Compliance with 24 CFR 50.4, 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 50.4 & 58.6		
Airport Hazards	Yes No	The closest airports to the Project site are the local airport at Boquerón 8.5 miles to the

24 CFR Part 51 Subpart D	☐ ☒	south, and the Aeropuerto Eugenia Maria de Hostos 8.6 miles to the northwest. The closest military airfield (Luis Munoz Marin Airport) is 80 miles to the east. Project is not located within 15,000 feet of a military airport or 2,500 feet of a civilian airport. Therefore, this topic complies with the regulation. See worksheet in Appendix A and map in Appendix B.
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No ☐ ☒	The Project site is not located in or adjacent to a CBRS Unit. The nearest unit is 3.57 miles to the northwest. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A and map in Appendix B.
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	Yes No ☐ ☒	The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C0995J, effective date November 18, 2009. No critical activities will be conducted at this location. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A and map in Appendix B.
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5		
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No ☐ ☒	The Project site is not located in county or air quality management district in attainment status for all criteria pollutants. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No ☐ ☒	The Project site is not located in a Coastal Zone, it is 1.5 miles from the coast. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A and map in Appendix B.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No ☒ ☐	A site survey conducted on October 8, 2021 found lead-based-paint (LBP) and asbestos containing material (ACM) inside the building. It is required that all LBP and ACM materials be removed prior to remodeling/demolition activities.

		There are no records of other toxic, hazardous, or radioactive substances on the Project site. Within 3,000 feet of the Project site, three (3) RCRA site were identified. These RCRA sites does not have any releases reported or any EPA formal or informal action reported for the last five years. With the mitigation discussed, the project would comply with the regulation. Refer to worksheet in Appendix A, map in Appendix B, and supporting documentation in Appendix C.
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes No ☐ ☒	Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location. This project involves the restoration of an existing building in an urban area. The project will have no potential to affect species or habitats due to the nature of the activities involved in the project. If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the USFWS will be notified to relocate the Boa. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A, Map in Appendix B, and report in Appendix D.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No ☐ ☒	The facility will not include any above ground storage tanks. Examination of aerial views and street views show no above ground storage tanks within the acceptable separation distance that would not be blocked by intervening buildings and structures. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A.
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No ☐ ☒	This project involves the restoration of an existing building in an urban area. The project does not include any activities, including new construction, acquisition of undeveloped land or conversion, that could

		convert agricultural land to a non-agricultural use. Therefore, this topic complies with the regulation.
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No ☐ ☒	The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C0995J, effective date November 18, 2009. No critical activities will be conducted at this location. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A and map in Appendix B.
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No ☒ ☐	Consultation with the State Historic Preservation Officer on the potential for impacts to archaeological resources concurred on August 10, 2022, that the proposed project would have <i>No Adverse Effect</i> under the condition that there would be archaeological monitoring of ground disturbing activities. The SHPO requested an archaeological work plan for review and concurrence. The work plan was submitted to the SHPO on October 18, 2022 and approved on November 17, 2022. With the mitigation discussed, the project would comply with the regulation. Refer to Appendix E.
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No ☐ ☒	The project involves rehabilitation of existing non-residential buildings for non-residential use. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A.

Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No ☐ ☒	There are no EPA sole source aquifers in Puerto Rico. Furthermore, the project consists of activities that are unlikely to have an adverse impact on groundwater resources. The project is in compliance with Sole Source Aquifer requirements. Refer to worksheet in Appendix A and map in Appendix B.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No ☐ ☒	The National Wetlands Inventory (NWI) mapping shows there are no wetlands within or adjacent to the project site. Therefore, this topic complies with the regulation. Refer to worksheet in Appendix A and map in Appendix B.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No ☐ ☒	Puerto Rico has only three Wild and Scenic Rivers which locates in the east side of Puerto Rico. The proposed project locates in the west side of Puerto Rico, 92.76 miles from the project site. There would be no impact to Wild and Scenic Rivers. Therefore, this topic complies with the regulation.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes No ☐ ☒	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 the regulation. Refer to worksheet in Appendix A.

Field Inspection (Date and completed by):

Summary of Findings and Conclusions:

The project involves rehabilitation/reconstruction of an existing building in a developed property. Mitigation activities will be required.

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
Contamination and Toxic Substances	It is required that all LBP and ACM materials be removed prior to remodeling/demolition activities.
Historic Preservation	There must be monitoring for presence of and impacts to archaeological resources during ground disturbing activities in accordance with the archaeological work plan approved on November 17, 2022.

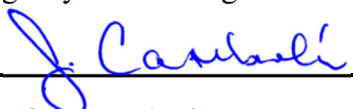
Determination:

- ☐ This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. **Funds may be committed and drawn down after certification of this part** for this (now) EXEMPT project OR
- ☒ This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain “Authority to Use Grant Funds”** (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds OR
- ☐ This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Preparer Signature:  Date: January 27, 2023

Name/Title/Organization: Cliff Jarman / Sr. Environmental Scientist / Tetra Tech

Responsible Entity Agency Official Signature:

Signature:  Date: February 2, 2023

Name/Title: Janette Cambrelén / Permit and Environmental Compliance Specialist

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

Appendix A



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Airport Hazards (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/airport-hazards>

1. To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

☐ Yes → *Continue to Question 2.*

2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?

☐ Yes, project is in an APZ → *Continue to Question 3.*

☐ Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

☐ No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

3. Is the project in conformance with DOD guidelines for APZ?

☐ Yes, project is consistent with DOD guidelines without further action.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

☐ No, the project cannot be brought into conformance with DOD guidelines and has not been approved. → *Project cannot proceed at this location.*

If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

→ *Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The closest airports to the Project site are the local airport at Boquerón 8.5 miles to the south, and the Aeropuerto Eugenia Maria de Hostos 8.32 miles to the northwest. The closest military airfield (Luis Munoz Marin Airport) is 80 miles to the east. Project is not located within 15,000 feet of a military airport or 2,500 feet of a civilian airport. See in Map in Appendix B.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Coastal Barrier Resources (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/coastal-barrier-resources>

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

1. Is the project located in a CBRS Unit?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*

☐ Yes → *Continue to 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

2. Indicate your recommended course of action for the RE/HUD

☐ Consultation with the FWS

☐ Cancel the project

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The Project site is not located in or adjacent to a CBRS Unit. The nearest unit is 3.57 miles to the northwest. Refer to map in Appendix B.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

OMB No. 2506-0177
(exp. 9/30/2021)

Flood Insurance (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/flood-insurance>

1. Does this project involve mortgage insurance, refinance, acquisition, repairs, rehabilitation, or construction of a structure, mobile home, or insurable personal property?

☐ No. This project does not require flood insurance or is excepted from flood insurance.

→ *Continue to the Worksheet Summary.*

☒ Yes → *Continue to Question 2.*

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

☒ No → *Continue to the Worksheet Summary.*

☐ Yes → *Continue to Question 3.*

3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?

☐ Yes, the community is participating in the National Flood Insurance Program. Flood insurance is required. Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ *Continue to the Worksheet Summary.*

☐ Yes, less than one year has passed since FEMA notification of Special Flood Hazards. If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required.

→ *Continue to the Worksheet Summary.*

☐ No. The community is not participating, or its participation has been suspended. Federal assistance may not be used at this location. Cancel the project at this location.

Worksheet Summary

Include all documentation supporting your findings in your submission to HUD.

The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C0995J, effective date November 18, 2009. No critical activities will be conducted at this location. Refer to map in Appendix B.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Air Quality (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/air-quality>

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

☐ Yes → Continue to Question 2.

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.

2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

Follow the link below to determine compliance status of project county or air quality management district:

<http://www.epa.gov/oaqps001/greenbk/>

☐ No, project's county or air quality management district is in attainment status for all criteria pollutants

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☐ Yes, project's management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.

3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or threshold emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

☐ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed *de minimis* or threshold emissions.

☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.

4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

Worksheet Summary

- The project area is not in an area that is in nonattainment/maintenance status for any NAAQS pollutants.

Include all documentation supporting your findings in your submission to HUD.

Attached table show all nonattainment/maintenance areas for all NAAQS pollutants in Puerto Rico.

Green Book

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

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

Data is current as of December 31, 2021

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 59009](#)).

Change the State:
PR | PR | TO | CO | VI 

Important Notes

[Download National Data as Excel](#) | [Data Dictionary \(PDF\)](#)

County	NM/QS	Area Name	Nonattainment in Year																Redesignation to Maintenance	Classification	Whole or/ Part County	Population (2010)	State/ County FRS Codes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Coastal Zone Management Act (CEST and EA) – PARTNER

<https://www.onecpd.info/environmental-review/coastal-zone-management>

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samoa	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

☐ Yes → Continue to Question 2.

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

2. Does this project include activities that are subject to state review?

☐ Yes → Continue to Question 3.

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

3. Has this project been determined to be consistent with the State Coastal Management Program?

☐ Yes, with mitigation. → The RE/HUD must work with the State Coastal Management Program to develop mitigation measures to mitigate the impact or effect of the project.

☐ Yes, without mitigation. → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

☐ No → Project cannot proceed at this location.

Worksheet Summary

Include all documentation supporting your findings in your submission to HUD.

The Project site is not located in a Coastal Zone, it is 1.537 miles from the coast. Refer to worksheet to map in Appendix B. This project complies with the Coastal Zone Management Act without further evaluation.



Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/site-contamination>

1. How was site contamination evaluated? ¹ Select all that apply.

- ☐ ASTM Phase I ESA
- ☐ ASTM Phase II ESA
- ☐ Remediation or clean-up plan
- ☐ ASTM Vapor Encroachment Screening
- ☒ None of the above

→ Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.

Continue to Question 2.

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

- ☐ No → Explain below.

There are no records of toxic, hazardous, or radioactive substances on the Project site.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

- ☒ Yes → Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.

3. Can adverse environmental impacts be mitigated?

- ☐ Adverse environmental impacts cannot feasibly be mitigated → HUD assistance may not be used for the project at this site. Project cannot proceed at this location.
- ☒ Yes, adverse environmental impacts can be eliminated through mitigation.

¹ HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD's toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

→ Provide all mitigation requirements² and documents. Continue to Question 4.

4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls³, or use of institutional controls⁴.

A site survey conducted on October 8, 2021, found lead-based-paint (LBP) and asbestos containing material (ACM) inside the building. It is required that all LBP and ACM materials be removed prior to remodeling/demolition activities.

If a remediation plan or clean-up program was necessary, which standard does it follow?

- ☒ Complete removal
- ☐ Risk-based corrective action (RBCA)

→ Continue to the Worksheet Summary.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

A site survey conducted on October 8, 2021, found lead-based-paint (LBP) and asbestos containing material (ACM) inside the building. It is required that all LBP and ACM materials be removed prior to remodeling/demolition activities.

Within 3,000 feet of the Project site, three (3) RCRA sites were identified. These RCRA sites does not have any releases reported or any EPA formal or informal action reported for the last five years.

Refer to map in Appendix B, and supporting documentation in Appendix C.

² Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

³ Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

⁴ Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Endangered Species Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/endangered-species>

1. Does the project involve any activities that have the potential to affect species or habitats?

☒ No, the project will have No Effect due to the nature of the activities involved in the project.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

Explain your determination:

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ Yes, the activities involved in the project have the potential to affect species and/or habitats. →
Continue to Question 2.

2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the [FWS Website](#).

☐ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services' websites, surveys or other documents and analysis showing that there are no species in the action area.*

☐ Yes, there are federally listed species or designated critical habitats present in the action area. →
Continue to Question 3.

3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:

☐ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

☐ May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

☐ Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

Worksheet Summary

Include all documentation supporting your findings in your submission to HUD.

Per the Official Species List from the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, the Puerto Rican Boa can be found but there are no critical habitats at this location. This project involves the restoration of an existing building in an urban area. The project will have no potential to affect species or habitats due to the nature of the activities involved in the project.

If a Puerto Rican Boa is encountered, work will cease until it moves off the site or, failing that, the USFWS will be notified to relocate the Boa. Refer to Map in Appendix B and report in Appendix D.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
WASHINGTON, DC 20410-1000

Explosive and Flammable Hazards (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities>

- 1. Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?**

☒ No

→ Continue to Question 2.

☐ Yes

Explain:

→ Continue to Question 5.

- 2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?**

☒ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

☐ Yes → Continue to Question 3.

- 3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers:**

- Of more than 100-gallon capacity, containing common liquid industrial fuels OR
- Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

☒ Yes → Continue to Question 4.

- 4. Is the Separation Distance from the project acceptable based on standards in the Regulation?**

Please visit HUD's website for information on calculating Acceptable Separation Distance.

☐ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the “assessed tank.”

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD’s website for information on calculating Acceptable Separation Distance.

☐ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Refer to map in Appendix B

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

Worksheet Summary

While the project will not involve residents, the Project would involve occupancy by employees and clients.

Examination of aerial views and street views show no above ground storage tanks within the acceptable separation distance that would not be blocked by intervening buildings and structures.

Include all documentation supporting your findings in your submission to HUD.



Farmlands Protection (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/farmlands-protection>

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

☐ Yes → *Continue to Question 2.*

☒ No

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)
- Contact NRCS at the local USDA service center <http://offices.sc.egov.usda.gov/locator/app?agency=nrcs> or your NRCS state soil scientist http://soils.usda.gov/contact/state_offices/ for assistance

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ Yes → *Continue to Question 3.*

3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.

- Complete form [AD-1006, “Farmland Conversion Impact Rating”](#) and contact the state soil scientist before sending it to the local NRCS District Conservationist.
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

Work with the RE/HUD to determine how the project will proceed. Document the conclusion:

☐ Project will proceed with mitigation.

Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

☐ Project will proceed without mitigation.

Explain why mitigation will not be made here:

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Project does not include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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OMB No. 2506-0177
(exp. 9/30/2021)

Floodplain Management (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/floodplain-management>

1. Does [24 CFR 55.12\(c\)](#) exempt this project from compliance with HUD's floodplain management regulations in Part 55?

☐ Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary.

☒ No → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

Does your project occur in a floodplain?

☒ No → Continue to the Worksheet Summary below.

☐ Yes

Select the applicable floodplain using the FEMA map or the best available information:

☐ Floodway → Continue to Question 3, Floodways

☐ Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

☐ 500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

☐ 100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

3. **Floodways**

Is this a functionally dependent use?

☐ Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.

→ Continue to Worksheet Summary.

- ☐ No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

4. Coastal High Hazard Area

Is this a critical action such as a hospital, nursing home, fire station, or police station?

- ☐ Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

- ☐ No

Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?

- ☐ Yes, there is new construction of something that is not a functionally dependent use.
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).

→ *Continue to Question 6, 8-Step Process*

- ☐ No, this action concerns only existing construction.
Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.

→ *Continue to Question 6, 8-Step Process*

5. 500-year Floodplain

Is this a critical action?

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary below.*

- ☐ Yes → *Continue to Question 6, 8-Step Process*

6. 8-Step Process.

Is this 8-Step Process required? Select one of the following options:

- ☐ 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

- ☐ 5-Step Process is applicable per 55.12(a)(1-3).

Provide the applicable citation at 24 CFR 55.12(a) here.

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.*

- ☐ 8-Step Process is inapplicable per 55.12(b)(1-4).

Provide the applicable citation at 24 CFR 55.12(b) here.

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The Project site is not located in a 100-year floodplain per Floodplain Insurance Map 72000C0995J, effective date November 18, 2009. No critical activities will be conducted at this location. Refer to map in Appendix B.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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Noise (CEST Level Reviews) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control>

1. What activities does your project involve? Check all that apply:

☐ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

→ Continue to Question 4.

☐ Rehabilitation of an existing residential property

NOTE: For modernization projects in all noise zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

→ Continue to Question 2.

☒ None of the above

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

2. Do you have standardized noise attenuation measures that apply to all modernization and/or minor rehabilitation projects, such as the use of double-glazed windows or extra insulation?

☐ Yes

Indicate the type of measures that will apply (check all that apply):

☐ Improved building envelope components (better windows and doors, strengthened sheathing, insulation, sealed gaps, etc.)

☐ Redesigned building envelope (more durable or substantial materials, increased air gap, resilient channels, staggered wall studs, etc.)

☐ Other (explain below)

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below and provide any documentation.

☐ No

→ Continue to Question 3.

3. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Describe findings of the Preliminary Screening:

[Click here to enter text.](#)

→ Continue to Question 6.

4. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

☐ There are no noise generators found within the threshold distances above.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.

☐ Noise generators were found within the threshold distances.

→ Continue to Question 5.

5. Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment below:

☐ Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: [Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including noise level and data used to complete the analysis.

☐ Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a))

Indicate noise level here: [Click here to enter text.](#)

Is the project in a largely undeveloped area¹?

☐ No → ***The project requires completion of an Environmental Assessment (EA) pursuant to 51.104(b)(1)(i).***

☐ Yes → ***The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i).***

→ Work with the RE/HUD to elevate the level of review. Provide noise analysis, including noise level and data used to complete the analysis.
Continue to Question 6.

☐ Unacceptable: (Above 75 decibels)

Indicate noise level here: [Click here to enter text.](#)

The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Work with HUD or the RE to either complete an EIS or obtain a waiver signed by the appropriate authority.

→ Continue to Question 6.

¹ A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses and does not have water and sewer capacity to serve the project.

6. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD on the development of the mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.

☐ Mitigation as follows will be implemented:

[Click here to enter text.](#)

→ *Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures.*

Continue to the Worksheet Summary.

☐ No mitigation is necessary.

Explain why mitigation will not be made here:

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The project involves rehabilitation of existing non-residential buildings for non-residential use.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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Sole Source Aquifers (CEST and EA) - PARTNER

<https://www.hudexchange.info/environmental-review/sole-source-aquifers>

1. Is the project located on a sole source aquifer (SSA)¹?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project or jurisdiction in relation to the nearest SSA.*

☐ Yes → *Continue to Question 2.*

2. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

☐ Yes → *The review is in compliance with this section. Continue to the Worksheet Summary below.*

☐ No → *Continue to Question 3.*

3. Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

☐ Yes → *Continue to Question 4.*

☐ No → *Continue to Question 5.*

4. Does your MOU or working agreement exclude your project from further review?

☐ Yes → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

☐ No → *Continue to Question 5.*

5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

¹ A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.*
- ☐ Yes → *The RE/HUD will work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

There are no EPA sole source aquifers in Puerto Rico. Furthermore, the project consists of activities that are unlikely to have an adverse impact on groundwater resources. The project is in compliance with Sole Source Aquifer requirements. Refer to map in Appendix B.



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
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Wetlands (CEST and EA) – Partner

<https://www.hudexchange.info/environmental-review/wetlands-protection>

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance?

The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any any structures or facilities.

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☐ Yes → *Continue to Question 2.*

2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

☐ Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

3. Does Section 55.12 state that the 8-Step Process is not required?

☐ No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

☐ 5-Step Process is applicable per 55.12(a).

Provide the applicable citation at 24 CFR 55.12(a) here.

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

☐ 8-Step Process is inapplicable per 55.12(b).

Provide the applicable citation at 24 CFR 55.12(b) here.

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.*

☐ 8-Step Process is inapplicable per 55.12(c).

Provide the applicable citation at 24 CFR 55.12(c) here.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

The National Wetlands Inventory (NWI) mapping shows no wetlands within or adjacent to the project site. The riverine wetland to the east is over 250 feet from the project site. The riverine wetland to the west is over 400 feet from the project site. There would be no permanent impact to the riverine wetlands. Refer to map in Appendix B.



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OMB No. 2506-0177
(exp. 9/30/2021)

Wild and Scenic Rivers (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers>

1. Is your project within proximity of a Wild and Scenic River, Study River, or Nationwide Rivers Inventory River?

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination.*

☐ Yes → *Continue to Question 2.*

2. Could the project do *any* of the following?

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consult with the appropriate federal/state/local/tribal Managing Agency(s), pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Select one:

☐ The Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

☐ The Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Puerto Rico has only three Wild and Scenic Rivers which locates in the east side of Puerto Rico. The proposed project locates in the west side of Puerto Rico, 92.76 miles from the project site. There would be no impact to Wild and Scenic Rivers. Refer to map in Appendix B.



Environmental Justice (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/environmental-justice>

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

1. Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

☐ Yes → *Continue to Question 2.*

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?

☐ Yes

Explain:

Click here to enter text.

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

☐ No

Explain:

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

Worksheet Summary

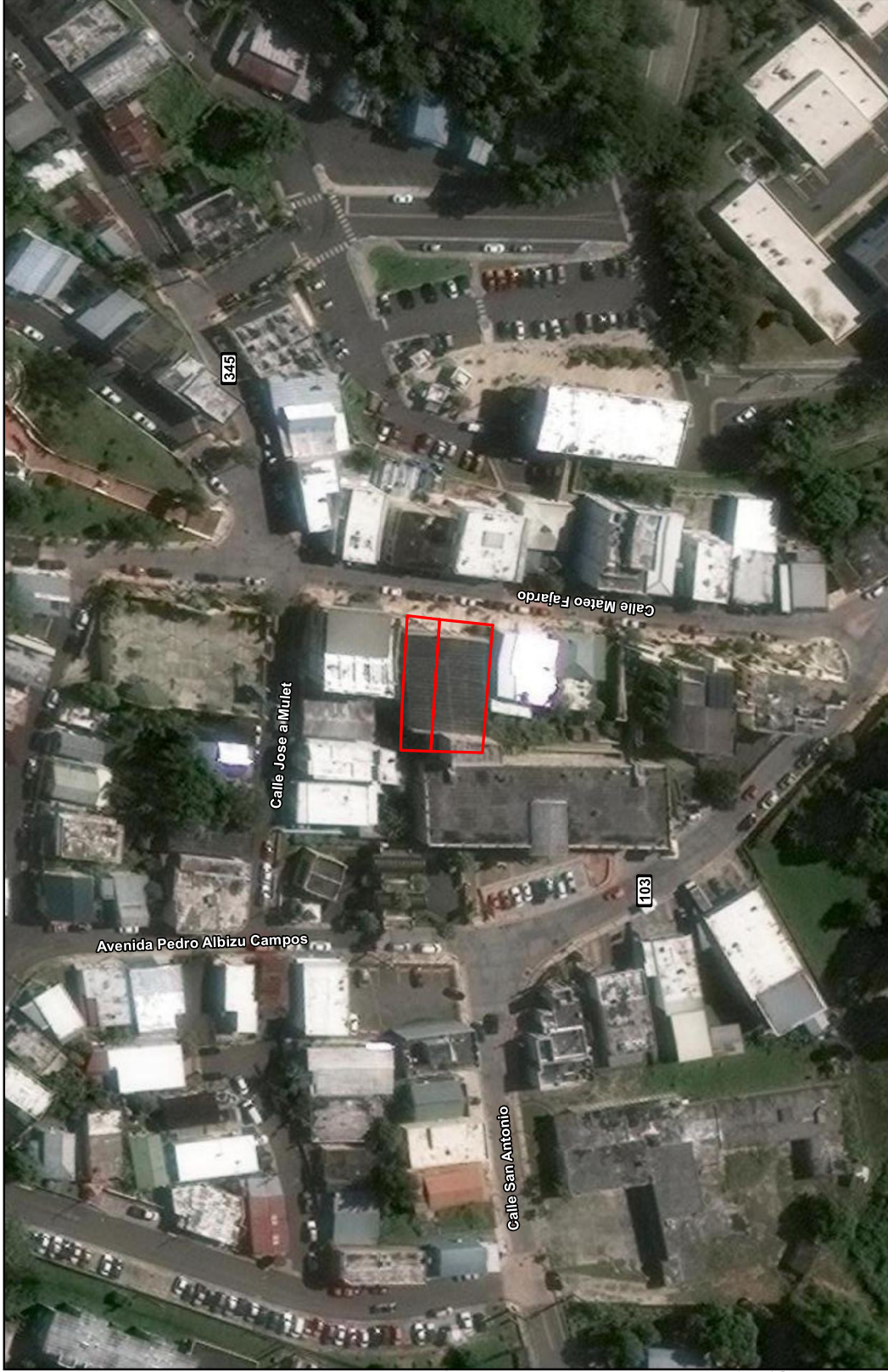
Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

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.

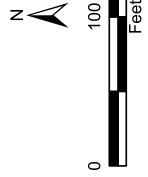
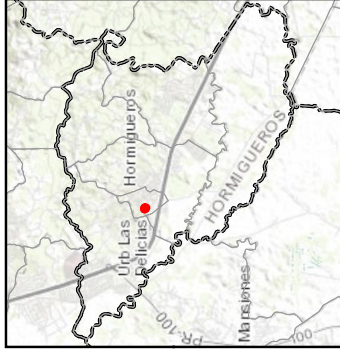
Appendix B



Legend

Project Area

PUERTO RICO



Project Area Map

Juanita Arenas Theater Rehabilitation and Expansion

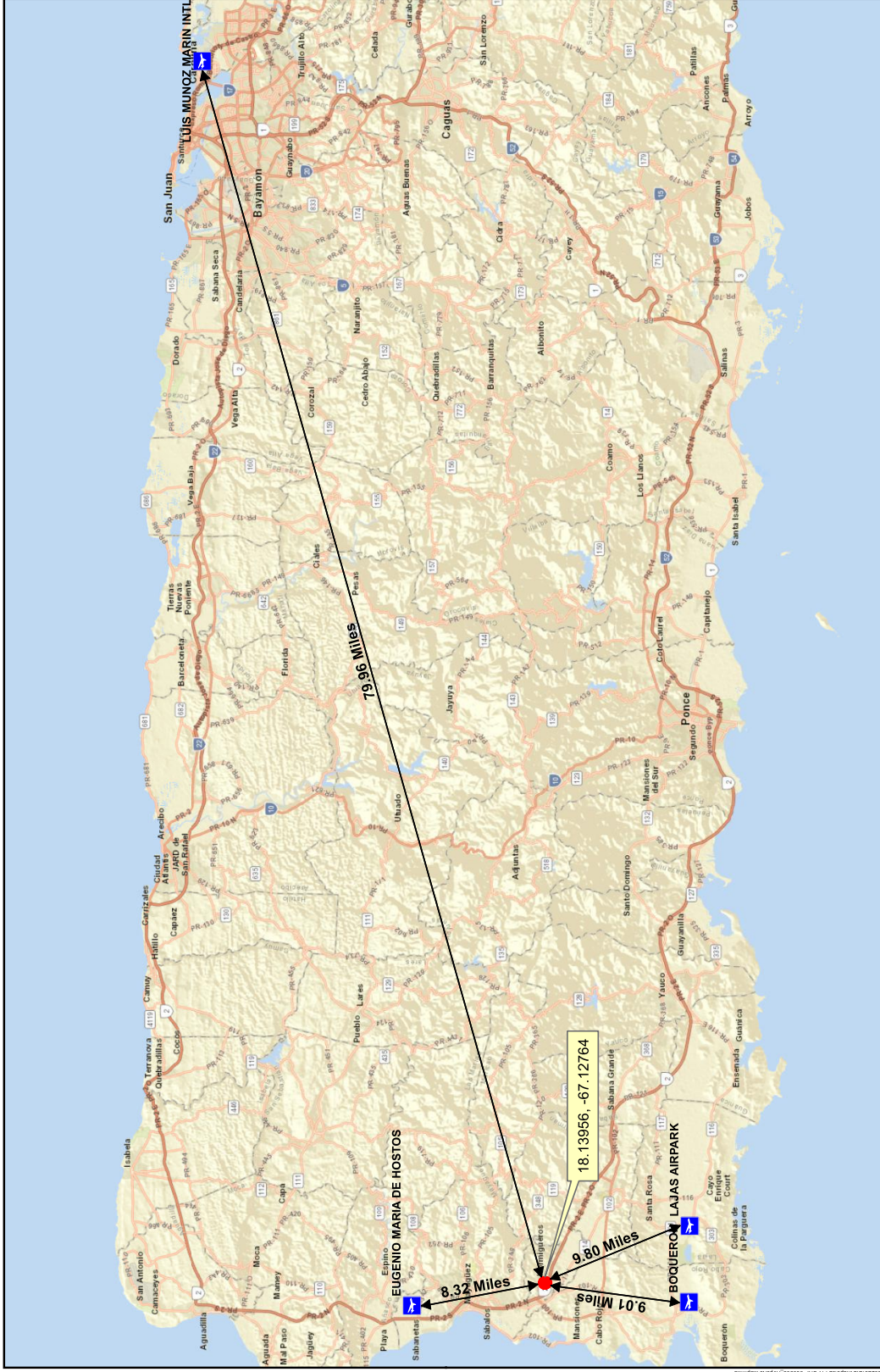


Source: Source, CRIM 2014
Data: Source, CRIM 2014
ESRI 2022
Author: Genswave
Kaiser

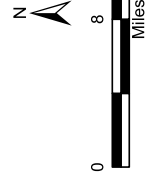
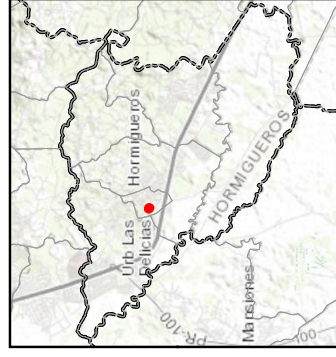
Date: 10/10/2022

Legend

-  Airports
-  Project Area



PUERTO RICO



Airports Map

Juanita Arenas Theater Rehabilitation and Expansion



Sources: CSIM 2014.
<https://cslastro.cimr.net/cslastro/>
 Federal Aviation Administration (FAA)
 National Transportation Atlas 2022
[https://www.nta.gov/nta-2022/](https://www.nta.gov/nta/nta-2022/)
 (NPS) National Park Service (NPS) National
 Airports v1 (FeatureServer). ESRI 2022.

Author: Genewave
 Kaiser

Date: 1/10/2023



Coastal Barrier Resources System



National Flood Hazard Layer FIRMMette



67°7'58"W 18°8'40"N

Legend

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

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

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

Regulatory Floodway

SPECIAL FLOOD HAZARD AREAS

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 OF FLOOD HAZARD

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

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

North Arrow

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

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/11/2023 at 4:42 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

0 250 500 1,000 1,500 2,000 1:6,000 Feet

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020



Legend

- Project Area
- Coastal Zone Management Act Land Boundary



TETRA TECH

Source: CRIM 2014, Puerto Rico Department of Natural and Environmental Resources 2010, ESRI 2021.

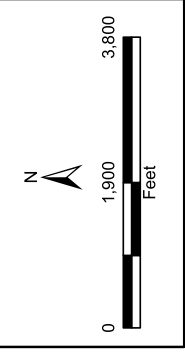
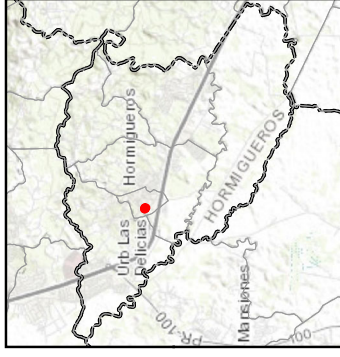
Author: Genevieve Kaiser

Date: 8/17/2022

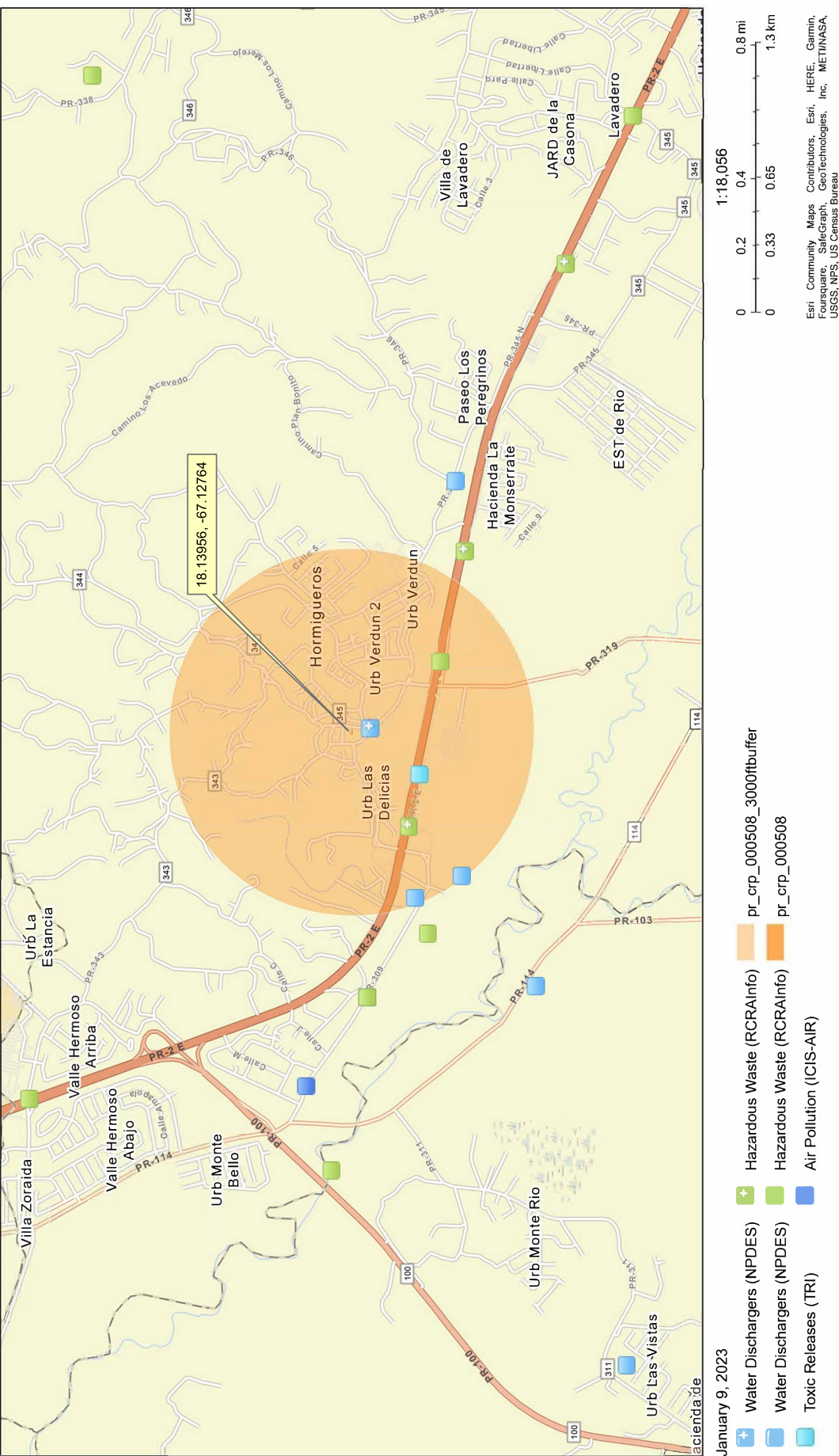
Coastal Zone Map

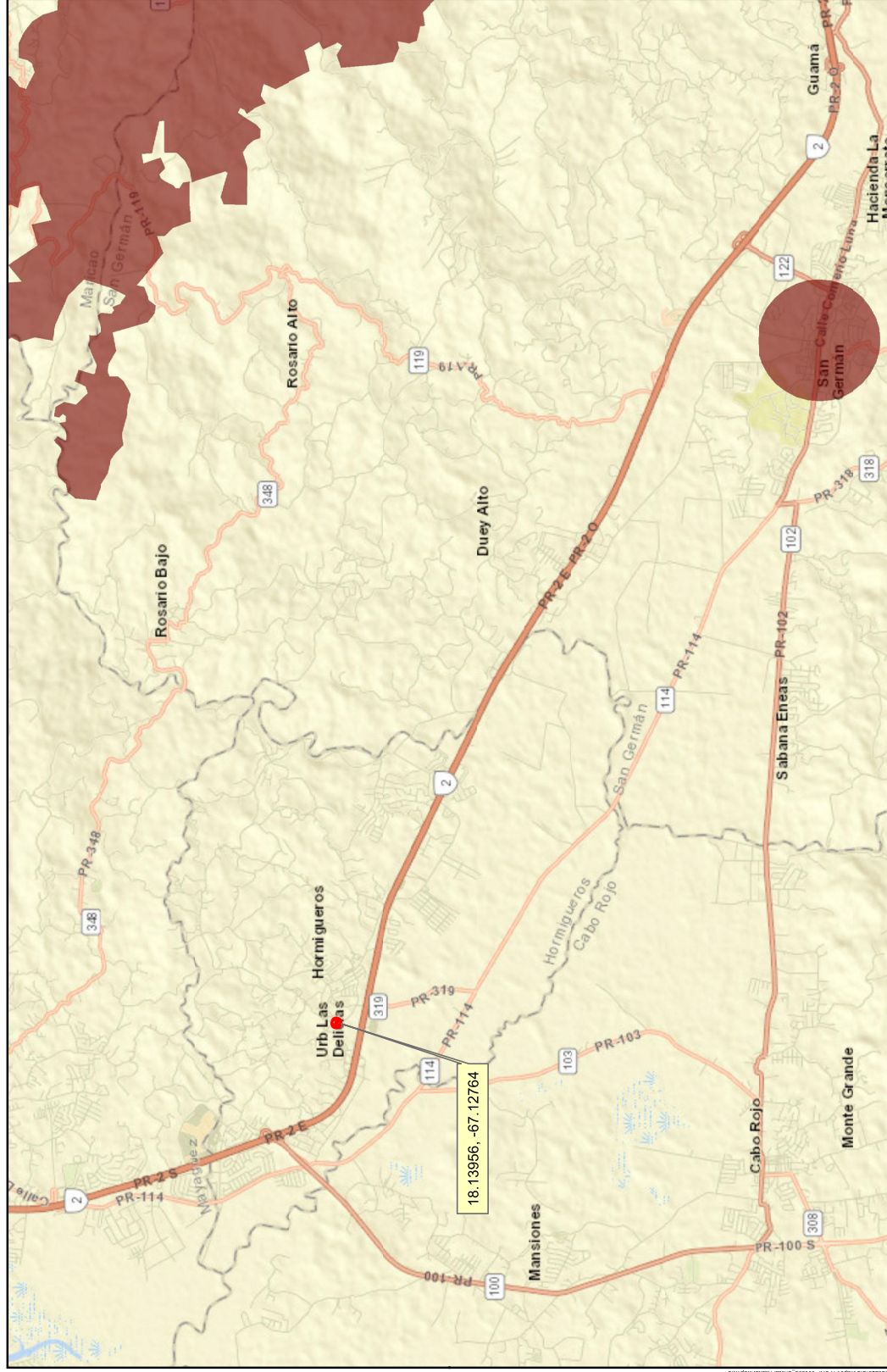
Juanita Arenas Theater Rehabilitation and Expansion

PUERTO RICO

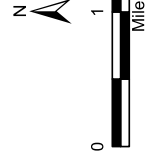
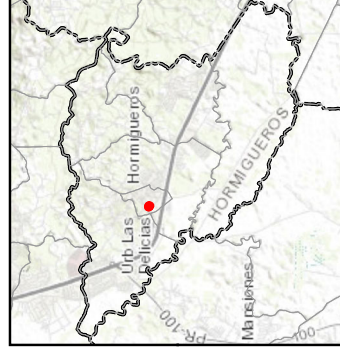


PR-CRP-000508 NEPassist EPA Facilities Map





PUERTO RICO



Critical Habitat Map

Juanita Arenas Theater Rehabilitation and Expansion



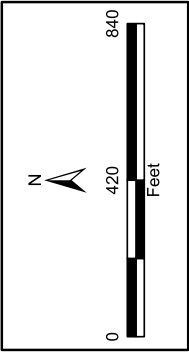
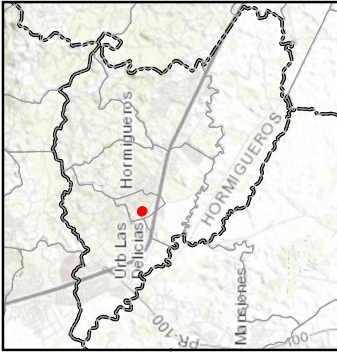
Source: CRIM 2014, U.S. Fish and Wildlife Service 2022, ESRI 2021.
Author: Genevieve Kaiser
Date: 8/17/2022



Legend

- Project Area
- All areas are prime farmland
- Prime farmland if drained
- Farmland of statewide importance
- Not prime farmland

PUERTO RICO



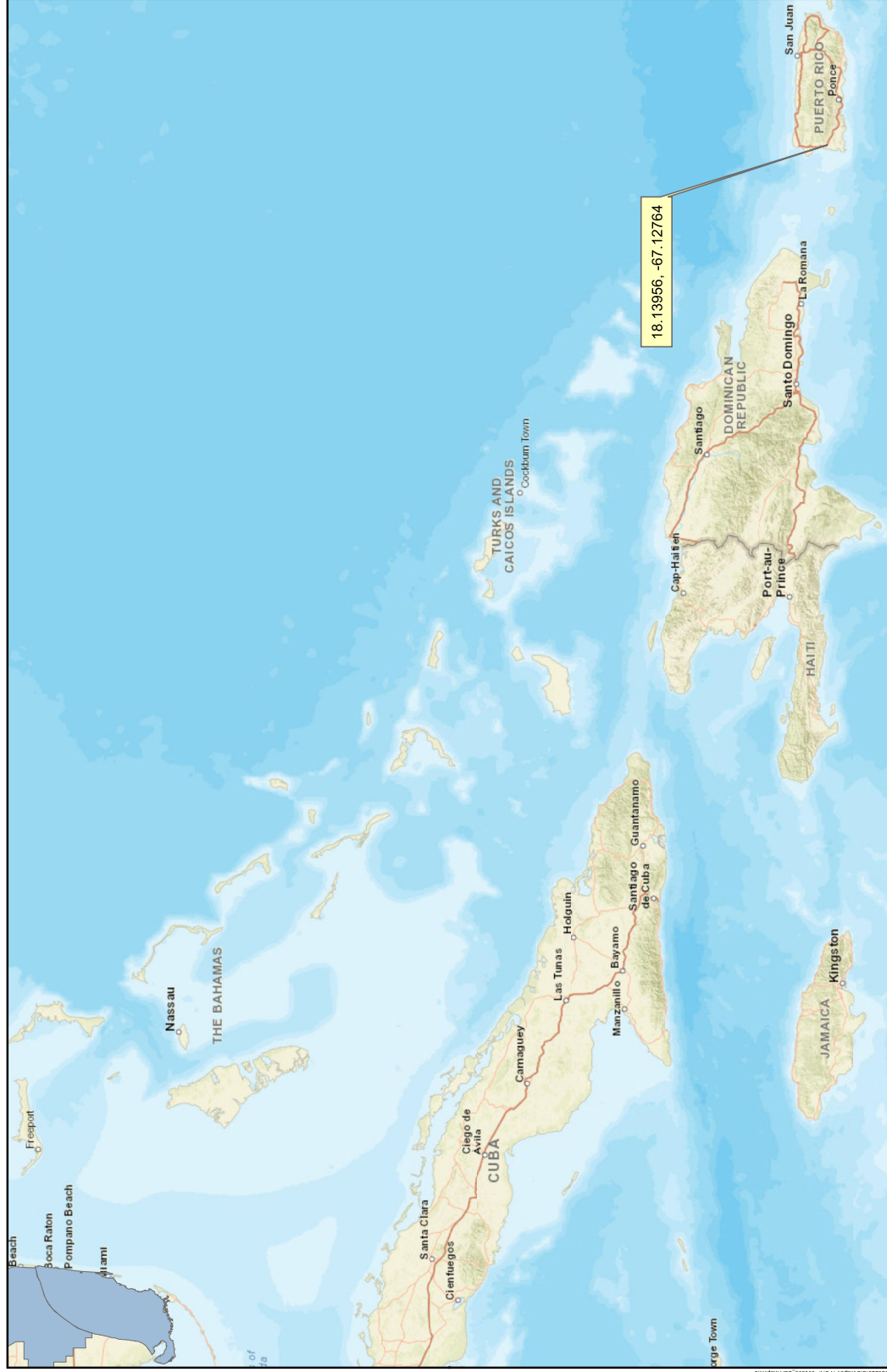
Farmlands Protection Map
Juanita Arenas Theater Rehabilitation and Expansion

TETRA TECH

Source: CRIM 2014, U.S. Department of Agriculture, National Conservation Service 2021, ESRI 2021.

Author: Katherine Kaiser

Date: 8/17/2022

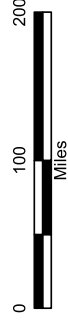
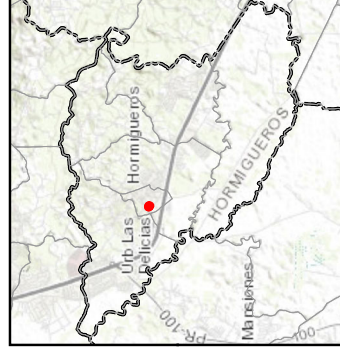


Legend

Project Area

Sole Source Aquifers

PUERTO RICO



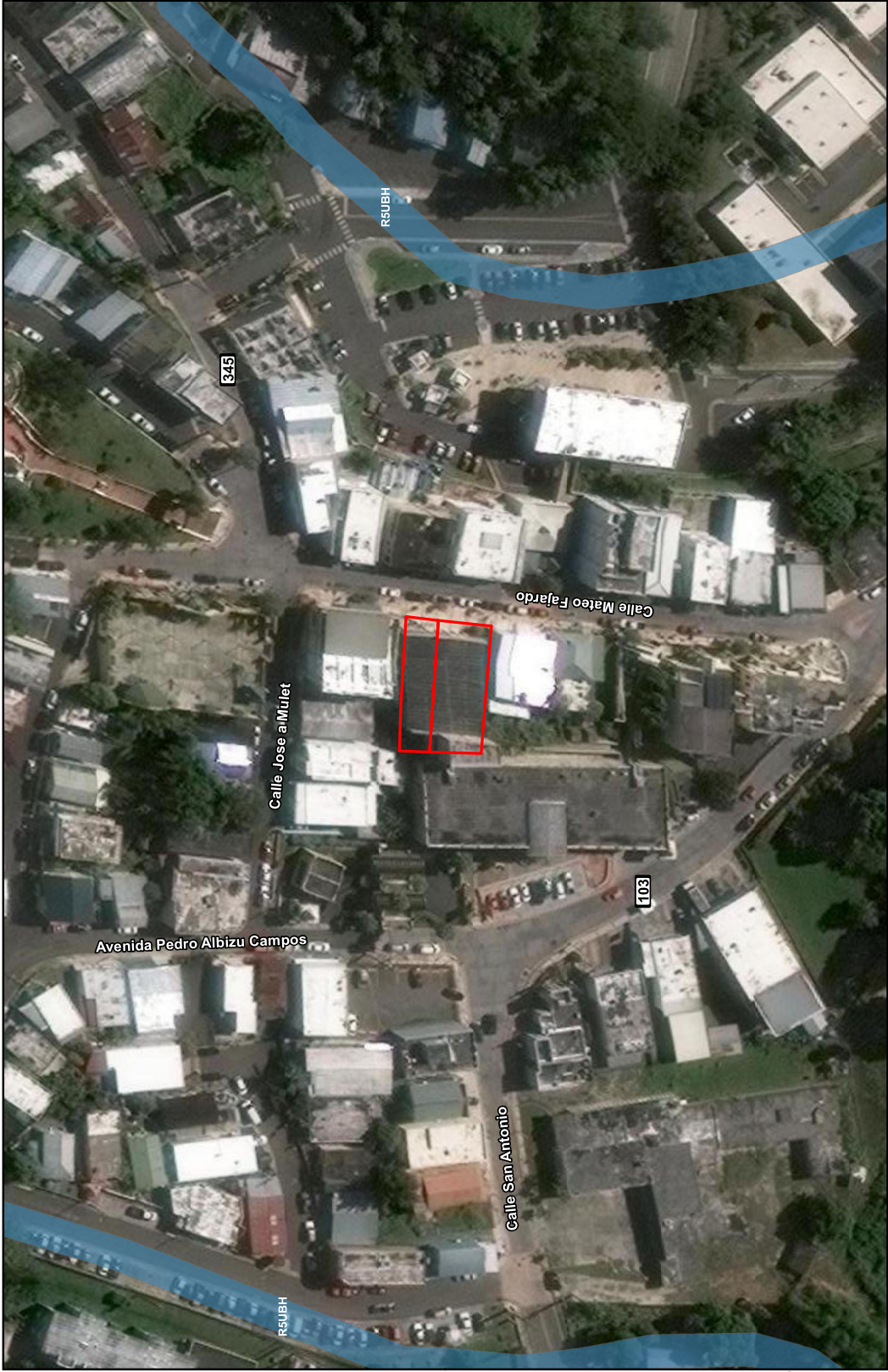
Source: CRIM 2014, EPA 2020, ESRI 2021.

Author: Genevieve Kaiser

Date: 8/17/2022

Sole Source Aquifers Map

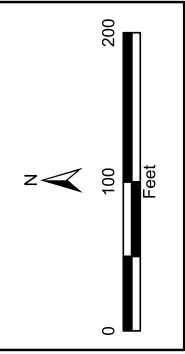
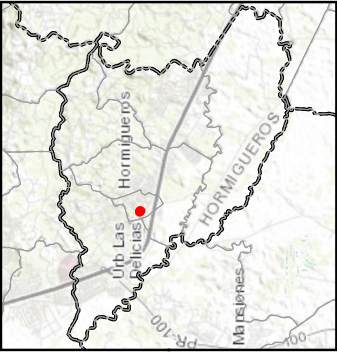
Juanita Arenas Theater Rehabilitation and Expansion



Legend

-  Project Area
-  Wetlands
-  Riverine

PUERTO RICO



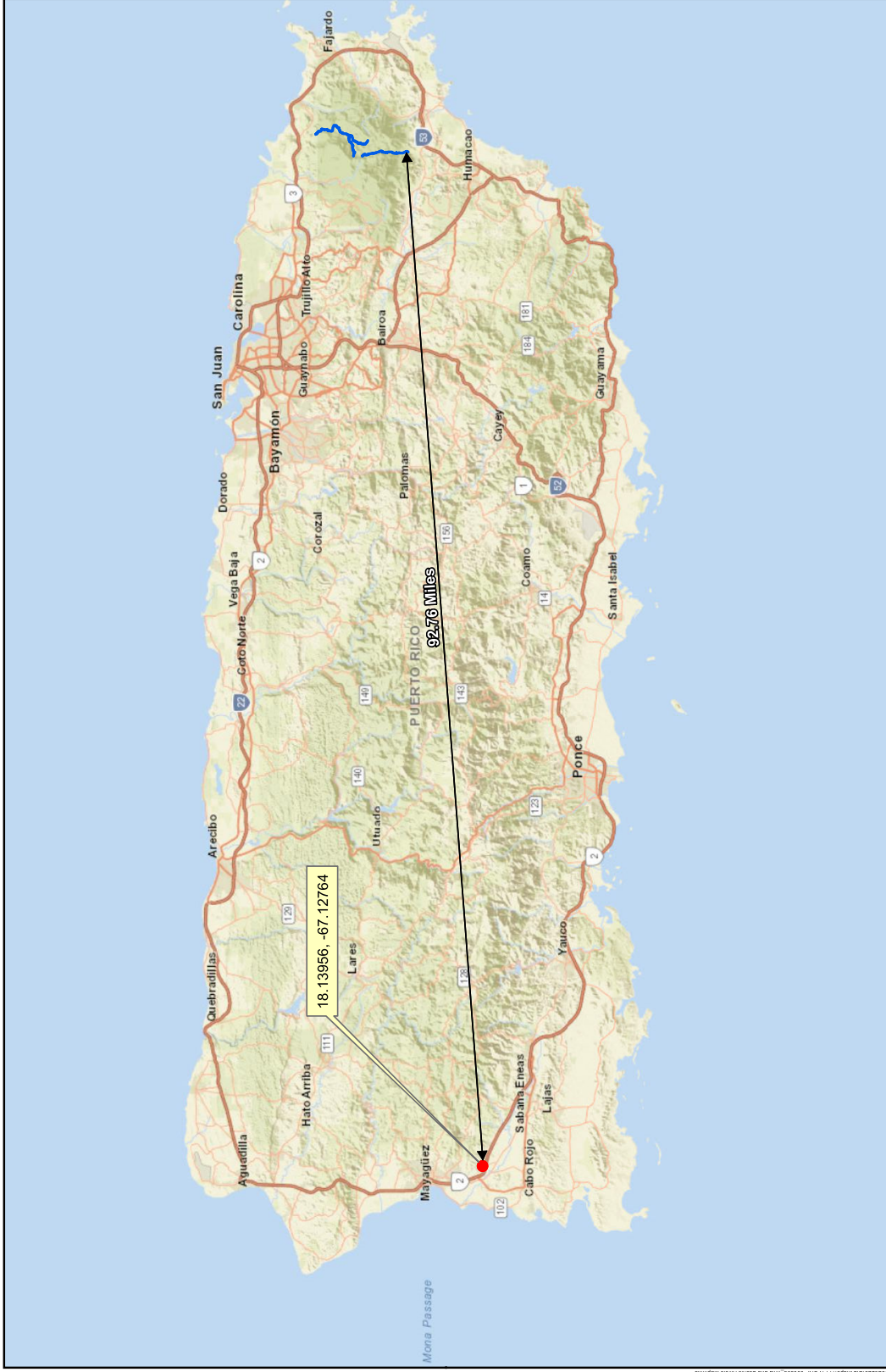
Wetlands Map
Juanita Arenas Theater Rehabilitation and Expansion



Sources: Harris County Appraisal District
Texas Natural Fish and Wildlife Service,
National Wetlands Inventory 2016,
ESRI 2021.

Author: Genevieve Kaiser

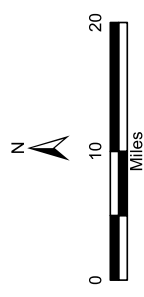
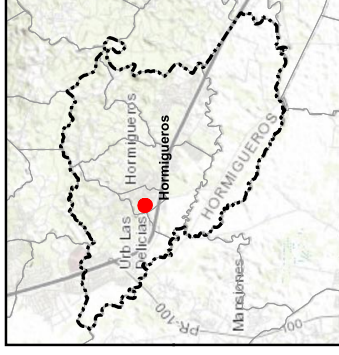
Date: 8/17/2022



Legend

- National Wild and Scenic Rivers
- Project Area

PUERTO RICO



Wild and Scenic Rivers Map Juanita Arenas Theater Rehabilitation and Expansion



Sources: CRIM 2014
(<https://catalog.crimg.net/cdmpr/>), US
Forest Service 2019 (http://data.fs.usda.gov/data/cdmpr/cdmpr_data/pfp/),
ESRI 2022.

Author: Genevieve Kaiser

Date: 1/10/2023

Appendix C

Detailed Facility Report



Detailed Facility Report

Facility Summary

ESSO STANDARD OIL CO - PR CO-296

PR-156 KM 156.3, HORMIGUEROS, PR 00660

FRS (Facility Registry Service) ID: 110004893795

EPA Region: 02

Latitude: 18.135745

Longitude: -67.124481

Locational Data Source: RCRAINFO

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active
VSQG, (PRR000008268)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI):
No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		110004893795					N	18.135745	-67.124481
ICIS		600036771					N	18.133975	-67.115041
RCRAInfo	RCRA	PRR000008268	VSQG	Active (H)			N	18.135745	-67.124481

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110004893795</u>	ESSO STANDARD OIL CO - PR CO-296	PR-156 KM 156.3, HORMIGUEROS, PR 00660	Hormigueros Municipio
ICIS		600036771	ESSO S/S CO-296	ROAD 2 KM 156.3, HORMIGUEROS, PR 00660	Hormigueros Municipio
RCRAInfo	RCRA	PRR000008268	ESSO STANDARD OIL CO - PR CO-296	CARR 2 KM 156.3, HORMIGUEROS, PR 00660	Hormigueros Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
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No data records returned

Facility NAICS (North American Industry Classification System) Codes

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

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years ▼

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
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No data records returned

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
RCRA	PRR000008268	No	12/17/2022	0	12/16/2022

Three-Year Compliance History by Quarter

[illegible]

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
--	---	---	---------------------------------	--------------------------------------	--	---

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
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No data records returned

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

EJScreen EJ Indexes

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

Show EJ Indexes calculated based on:

Census Block Group - US

Census Block Group EJ Indexes (percentile)		Number of EJ Indexes Above 80th Percentile
Particulate Matter 2.5	--	3
Ozone	--	
Diesel Particulate Matter	11	
Air Toxics Cancer Risk	66	
Air Toxics Respiratory Hazard Index	42	
Traffic Proximity	96	
Lead Paint	90	
Risk Management Plan (RMP) Facility Proximity	67	
Hazardous Waste Proximity	51	
Superfund Proximity	98	

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

Census Block Group EJ Indexes (percentile)	
Underground Storage Tanks (UST)	0
Wastewater Discharge	79

Demographic Profile of Surrounding Area (1 mile)

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

General Statistics (U.S. Census)	
Total Persons	6,276
Population Density	2,027/sq.mi.
Housing Units in Area	2,818

General Statistics (ACS (American Community Survey))	
Total Persons	4,651
Percent People of Color	100%
Households in Area	1,822
Households on Public Assistance	109
Persons With Low Income	3,402
Percent With Low Income	73%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.135745
Center Longitude	-67.124481
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	768 (42.15%)
\$15,000 - \$25,000	382 (20.97%)
\$25,000 - \$50,000	427 (23.44%)
\$50,000 - \$75,000	146 (8.01%)
Greater than \$75,000	99 (5.43%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	298 (5%)
Minors 17 years and younger	1,374 (22%)
Adults 18 years and older	4,902 (78%)
Seniors 65 years and older	1,201 (19%)

Race Breakdown (U.S. Census) - Persons (%)	
White	5,102 (81%)
African-American	483 (8%)
Hispanic-Origin	6,244 (99%)
Asian/Pacific Islander	4 (0%)
American Indian	27 (0%)
Other/Multiracial	660 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	518 (14.85%)
9th through 12th Grade	210 (6.02%)
High School Diploma	1,144 (32.8%)
Some College/2-year	431 (12.36%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	860 (24.66%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

Detailed Facility Report



Detailed Facility Report

Facility Summary

HOMECA RECYCLING- HORMIGUEROS FACILITY

309 KM. 1.2 BO. GUANAJIBO, HORMIGUEROS, PR 00660

FRS (Facility Registry Service) ID: 110064868095

EPA Region: 02

Latitude: 18.134824

Longitude: -67.134228

Locational Data Source: NPDES

Industries: --

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): Minor, Permit Effective (PRR053078)

Resource Conservation and Recovery Act (RCRA): No Information

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

[Known Data Problems](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI): No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		<u>110064868095</u>					N	18.134824	-67.134228
ICIS-NPDES	CWA	PRR053078	Minor: General Permit Covered Facility	Effective	Industrial Stormwater	02/28/2026	N	18.136785	-67.134588

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110064868095</u>	HOMECA RECYCLING- HORMIGUEROS FACILITY	309 KM. 1.2 BO. GUANAJIBO, HORMIGUEROS, PR 00660	
ICIS-NPDES	CWA	PRR053078	HOMECA RECYCLING- HORMIGUEROS FACILITY	309 KM. 1.2 BO. GUANAJIBO, HORMIGUEROS, PR 00660	Hormigueros Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
ICIS-NPDES	PRR053078	5015	Motor Vehicle Parts, Used
ICIS-NPDES	PRR053078	5093	Scrap And Waste Materials

Facility NAICS (North American Industry Classification System) Codes

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

No data records returned

Facility Industrial Effluent Guidelines

Identifier	Effluent Guideline (40 CFR Part)	Effluent Guideline Description
------------	----------------------------------	--------------------------------

No data records returned

Facility Tribe Information

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

No data records returned

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years ▼

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

No data records returned

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current SNC (Significant Noncompliance)/HPV (High Priority Violation)	Current As Of	Qtrs with NC (Noncompliance) (of 12)	Data Last Refreshed
CWA	PRR053078	No	09/30/2022	0	12/16/2022

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12	QTR 13+
	CWA (Source ID: PRR053078)	10/01-12/31/19	01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/16/22
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	Undetermined
	Quarterly Noncompliance Report History	Resolved												

Informal Enforcement Actions

Last 5 Years ▼

Statute	System	Source ID	Type of Action	Lead Agency	Date
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No data records returned

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

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
210100030406	Rio Viejo	RIO GUANAJIBO	No	No	Aluminum, total recoverable Chemical Oxygen Demand (COD) Coliform, total general Copper, total recoverable Lead, total recoverable Oxygen, dissolved percent saturation Solids, total suspended Turbidity Zinc, total recoverable	No

Assessed Waters From Latest State Submission (ATTAINS)

State	Report Cycle	Assessment Unit ID	Assessment Unit Name	Water Condition	Cause Groups Impaired	Drinking Water Use	Aquatic Life	Fish Consumption Use	Recreation Use	Other Use
PR	2020	PRWR77D	RIO VIEJO	Impaired - 303(d) Listed - With Restoration Plan	METALS (OTHER THAN MERCURY) NUTRIENTS ORGANIC ENRICHMENT/OXYGEN DEPLETION PATHOGENS TURBIDITY	Not Supporting	Not Supporting	--	Not Supporting	--

Air Quality Nonattainment Areas

Pollutant	Within Nonattainment Status Area?	Nonattainment Status Applicable Standard(s)	Within Maintenance Status Area?	Maintenance Status Applicable Standard(s)
No data records returned				

Pollutants

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

TRI Facility ID	Year	Total Air Emissions	Surface Water Discharges	Off-Site Transfers to POTWs (Publicly Owned Treatment Works)	Underground Injections	Releases to Land	Total On-Site Releases	Total Off-Site Transfers
No data records returned								

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

Chemical Name
No data records returned

Community

EJScreen EJ Indexes

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

Show EJ Indexes calculated based on:

Census Block Group - US

Census Block Group EJ Indexes (percentile)	Number of EJ Indexes Above 80th Percentile
Particulate Matter 2.5	4
Ozone	
Diesel Particulate Matter	
Air Toxics Cancer Risk	
Air Toxics Respiratory Hazard Index	
Traffic Proximity	
Lead Paint	
Risk Management Plan (RMP) Facility Proximity	
Hazardous Waste Proximity	

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

Census Block Group EJ Indexes (percentile)	
Superfund Proximity	98
Underground Storage Tanks (UST)	82
Wastewater Discharge	86

Demographic Profile of Surrounding Area (1 mile)

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

General Statistics (U.S. Census)	
Total Persons	4,757
Population Density	1,466/sq.mi.
Housing Units in Area	2,138

General Statistics (ACS (American Community Survey))	
Total Persons	4,559
Percent People of Color	100%
Households in Area	1,760
Households on Public Assistance	107
Persons With Low Income	3,418
Percent With Low Income	75%

Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.134824
Center Longitude	-67.134228
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	740 (42.05%)
\$15,000 - \$25,000	340 (19.32%)
\$25,000 - \$50,000	471 (26.76%)
\$50,000 - \$75,000	118 (6.7%)
Greater than \$75,000	91 (5.17%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	243 (5%)
Minors 17 years and younger	999 (21%)
Adults 18 years and older	3,758 (79%)
Seniors 65 years and older	1,061 (22%)

Race Breakdown (U.S. Census) - Persons (%)	
White	3,813 (80%)
African-American	402 (8%)
Hispanic-Origin	4,736 (100%)
Asian/Pacific Islander	6 (0%)
American Indian	13 (0%)
Other/Multiracial	524 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	621 (17.79%)
9th through 12th Grade	216 (6.19%)
High School Diploma	1,140 (32.66%)
Some College/2-year	407 (11.66%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	824 (23.6%)

LAST UPDATED ON SEPTEMBER 21, 2022

[DATA REFRESH INFORMATION](#)

Detailed Facility Report



Detailed Facility Report

Facility Summary

TOYOTA DEL OESTE

PR-2 KM 162.6, HORMIGUEROS, PR 00660

FRS (Facility Registry Service) ID: 110031395194

EPA Region: 02

Latitude: 18.137118

Longitude: -67.131987

Locational Data Source: RCRAINFO

Industries: Repair and Maintenance

Indian Country: N

Enforcement and Compliance Summary

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

Regulatory Information

Clean Air Act (CAA): No Information

Clean Water Act (CWA): No Information

Resource Conservation and Recovery Act (RCRA): Active
VSQG, (PRR000019505)

Safe Drinking Water Act (SDWA): No Information

[Go To Enforcement/Compliance Details](#)

Other Regulatory Reports

Air Emissions Inventory (EIS): No Information

Greenhouse Gas Emissions (eGGRT): No Information

Toxic Releases (TRI): No Information

Compliance and Emissions Data Reporting Interface (CEDRI):
No Information

Facility/System Characteristics

Facility/System Characteristics

System	Statute	Identifier	Universe	Status	Areas	Permit Expiration Date	Indian Country	Latitude	Longitude
FRS		<u>110031395194</u>					N	18.137118	-67.131987
RCRAInfo	RCRA	PRR000019505	VSQG	Active (H)			N	18.137118	-67.131987

Facility Address

System	Statute	Identifier	Facility Name	Facility Address	Facility County
FRS		<u>110031395194</u>	TOYOTA DEL OESTE	PR-2 KM 162.6, HORMIGUEROS, PR 00660	Hormigueros Municipio
RCRAInfo	RCRA	PRR000019505	TOYOTA DEL OESTE	CARR #2 KM 162.6, HORMIGUEROS, PR 00660	Hormigueros Municipio

Facility SIC (Standard Industrial Classification) Codes

System	Identifier	SIC Code	SIC Description
No data records returned			

Facility NAICS (North American Industry Classification System) Codes

System	Identifier	NAICS Code	NAICS Description
RCRAInfo	PRR000019505	811111	General Automotive Repair

Facility Tribe Information

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

Enforcement and Compliance

Compliance Monitoring History

Last 5 Years

▼

Statute	Source ID	System	Activity Type	Compliance Monitoring Type	Lead Agency	Date	Finding (if applicable)
No data records returned							

Entries in italics are not counted in EPA compliance monitoring strategies or annual results.

Compliance Summary Data

Statute	Source ID	Current <u>SNC (Significant Noncompliance)/HPV (High Priority Violation)</u>	Current As Of	Qtrs with <u>NC (Noncompliance)</u> (of 12)	Data Last Refreshed
RCRA	PRR000019505	No	12/17/2022	0	12/16/2022

Three-Year Compliance History by Quarter

Statute	Program/Pollutant/Violation Type	QTR 1	QTR 2	QTR 3	QTR 4	QTR 5	QTR 6	QTR 7	QTR 8	QTR 9	QTR 10	QTR 11	QTR 12+
RCRA (Source ID: PRR000019505)		01/01-03/31/20	04/01-06/30/20	07/01-09/30/20	10/01-12/31/20	01/01-03/31/21	04/01-06/30/21	07/01-09/30/21	10/01-12/31/21	01/01-03/31/22	04/01-06/30/22	07/01-09/30/22	10/01-12/31/22
	Facility-Level Status	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified	No Violation Identified
	Violation	Agency											

Informal Enforcement Actions

Last 5 Years

▼

Statute	System	Source ID	Type of Action	Lead Agency	Date
No data records returned					

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

Formal Enforcement Actions

Last 5 Years ▼

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

No data records returned

Environmental Conditions

Watersheds

12-Digit WBD (Watershed Boundary Dataset) HUC (RAD (Reach Address Database))	WBD (Watershed Boundary Dataset) Subwatershed Name (RAD (Reach Address Database))	State Water Body Name (ICIS (Integrated Compliance Information System))	Beach Closures Within Last Year	Beach Closures Within Last Two Years	Pollutants Potentially Related to Impairment	Watershed with ESA (Endangered Species Act)-listed Aquatic Species?
--	---	---	---------------------------------	--------------------------------------	--	---

No data records returned

Assessed Waters From Latest State Submission (ATTAINS)

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

No data records returned

Air Quality Nonattainment Areas

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

No data records returned

Pollutants

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

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

No data records returned

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

Chemical Name

No data records returned

Community

EJScreen EJ Indexes

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

Show EJ Indexes calculated based on:

Census Block Group - US ▼

Census Block Group EJ Indexes (percentile)	Number of EJ Indexes Above 80th Percentile
Particulate Matter 2.5	4

Census Block Group EJ Indexes (percentile)	
Ozone	--
Diesel Particulate Matter	22
Air Toxics Cancer Risk	67
Air Toxics Respiratory Hazard Index	43
Traffic Proximity	97
Lead Paint	90
Risk Management Plan (RMP) Facility Proximity	71
Hazardous Waste Proximity	50
Superfund Proximity	98
Underground Storage Tanks (UST)	0
Wastewater Discharge	80

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

Demographic Profile of Surrounding Area (1 mile)

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

General Statistics (U.S. Census)	
Total Persons	5,479
Population Density	1,813/sq.mi.
Housing Units in Area	2,512

General Statistics (ACS (American Community Survey))	
Total Persons	4,982
Percent People of Color	100%
Households in Area	1,964
Households on Public Assistance	116
Persons With Low Income	3,768
Percent With Low Income	76%

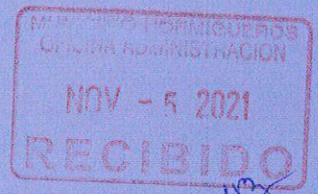
Geography	
Radius of Selected Area	1 mi.
Center Latitude	18.137118
Center Longitude	-67.131987
Land Area	100%
Water Area	0%

Income Breakdown (ACS (American Community Survey)) - Households (%)	
Less than \$15,000	863 (43.87%)
\$15,000 - \$25,000	389 (19.78%)
\$25,000 - \$50,000	490 (24.91%)
\$50,000 - \$75,000	135 (6.86%)
Greater than \$75,000	90 (4.58%)

Age Breakdown (U.S. Census) - Persons (%)	
Children 5 years and younger	267 (5%)
Minors 17 years and younger	1,118 (20%)
Adults 18 years and older	4,361 (80%)
Seniors 65 years and older	1,200 (22%)

Race Breakdown (U.S. Census) - Persons (%)	
White	4,400 (80%)
African-American	470 (9%)
Hispanic-Origin	5,455 (100%)
Asian/Pacific Islander	4 (0%)
American Indian	16 (0%)
Other/Multiracial	589 (11%)

Education Level (Persons 25 & older) (ACS (American Community Survey)) - Persons (%)	
Less than 9th Grade	691 (18.05%)
9th through 12th Grade	228 (5.96%)
High School Diploma	1,282 (33.49%)
Some College/2-year	450 (11.76%)
B.S./B.A. (Bachelor of Science/Bachelor of Arts) or More	850 (22.2%)



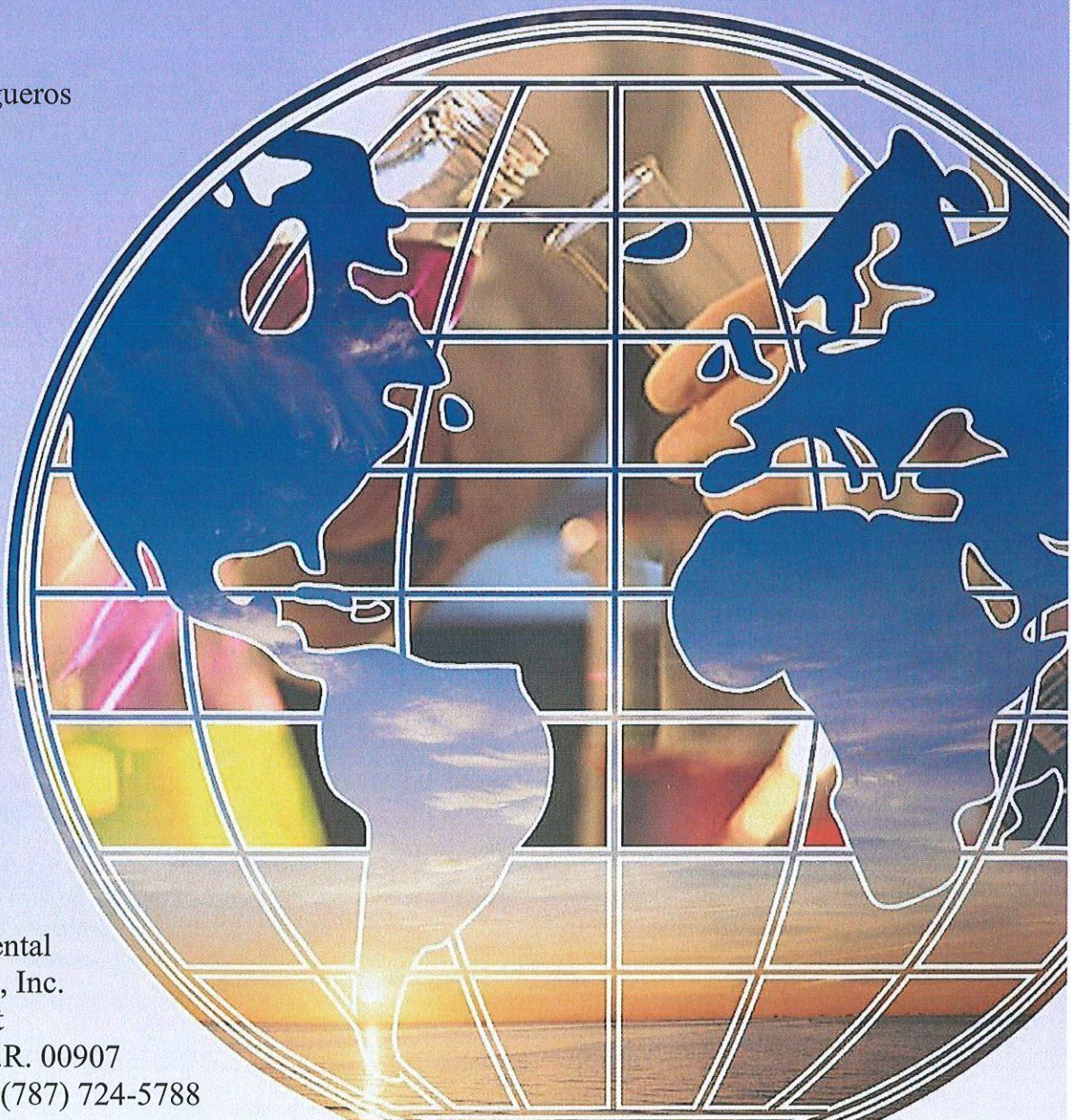
**ENVIRONMENTAL SURVEY
FOR
LEAD BASED PAINT (LBP)
AND
ASBESTOS CONTAINING MATERIALS (ACM)
FOR
JUANITA ARENAS THEATER
HORMIGUEROS, PUERTO RICO**

Prepared For:
Municipio de Hormigueros

October 2021

Prepared By:

Analytical Environmental
Services International, Inc.
611 Monserrate Street
2nd Floor, Santurce, P.R. 00907
(787) 722-0220 / Fax (787) 724-5788





LEAD



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3.0 LEAD BASED PAINT TESTING METHODOLOGY

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APPENDIX II - XRF and Laboratory Data

APPENDIX III - Selective photos of LBP components

APPENDIX IV - Floor Plans with Functional Spaces and
Distribution of LBP components

I. SUMMARY

An environmental survey for Lead Based Painted (LBP) Components was conducted by AES International for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The LBP investigation was conducted 10/8/2021 by Anthony Rivera, a DRNA certified lead inspector. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 2012.

The following components were found to be positive for LBP:

Basement

Storage 203

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Men Bathroom

Urinal	Ceramic	White	1 unit
--------	---------	-------	--------

1st Floor

Bathroom 108

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Bathroom 109

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Exterior

Commemorative Plaque	Metal	Brown	2 units
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If remodeling/demolition activities will be conducted in the nearest future, it is required to remove all LBP materials prior to performance of said activities.

1.0 INTRODUCTION

An environmental survey for Lead Based Painted (LBP) Components was conducted by AES International for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The LBP investigation was conducted on 10/8/21 by Anthony Rivera, an DRNA certified lead inspector. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 1997, revised in 2012. The results are presented herein.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i (serial #2385). The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the department of Housing & Urban development as 1.0 mg/cm², as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% by weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997 and finalized in 2012. In accordance to the new protocol, almost all surfaces present in the units have to be tested. The above guidelines were used to perform lead based-paint testing for this project.

The main steps involved in a multi-family inspection are:

1. Perform inventory of all testing combinations
2. Select painted area to be tested
3. Perform XRF testing (including calibration checks)
4. Collect and analyze paint chip samples, for inconclusive results.
5. Classify XRF and paint chips results
6. Review and evaluate the data
7. Report findings

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas.

Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was ± 0.3 mg/cm². The data for calibration verification is attached in Appendix II.

The structure was divided in room equivalents and labeled accordingly (see Appendix II). One testing combination of similar components and four walls were tested for each room equivalent.

The identification of tested walls is based on HUD guidelines as follow:

Wall A-entrance wall

Walls B, C, and D-sequential walls, clockwise from A.

At the completion of the testing, ten (10) surfaces were retested as to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

4.1 Results of XRF inspection

The results of the tested components are shown in Appendix II. One hundred and eighty-seven (187) XRF readings were taken (see also summary). The exact distribution of the positive components is summarized in Table 1. Pictures of selective positive components are shown in Appendix III. A floor plan with distribution of LBP components is also shown (see Appendix IV).

5.0 CONCLUSIONS

An LBP survey was conducted for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, P.R. LBP components were detected. Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

This report shall be kept by the owner and all future owners for the life of the buildings. A copy of the relevant report shall be given to each tenant, buyer or lessor, as to comply with federal requirements for disclosure under lead disclosure rule of 1996 (see also section 1018 of Title X). Reported results are valid for the day of testing indicated in the reports. According to DNRA the LBP study is valid for a period of five years.

The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden surfaces or components be present, they must be assumed to be painted with LBP.



Anthony Rivera, DRNA Lead Inspector
Lic#: LBPI-02320-009

Table 1. Summary of LBP Positive Components at Juanita Arenas Theater in Hormigueros, Puerto Rico.

Structure	Room	Components	Substrate	Color	Quantity
<u>Juanita Arenas Theater</u>					
Basement					
	Storage 203				
		Sink	Ceramic	White	1 unit
	Men Bathroom				
		Urinal	Ceramic	White	1 unit
1st Floor					
	Bathroom 108				
		Sink	Ceramic	White	1 unit
	Bathroom 109				
		Sink	Ceramic	White	1 unit
Exterior					
	Commemorative Plaque		Metal	Brown	2 units

Appendix I





AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Analytical Environmental Services International, Inc.

611 Monserrate St. Suite 2 Santurce, PR 00907

Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

☒	INDUSTRIAL HYGIENE	Accreditation Expires: February 01, 2023
☒	ENVIRONMENTAL LEAD	Accreditation Expires: February 01, 2023
☐	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
☐	FOOD	Accreditation Expires:
☐	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 19: 09/01/2020

Date Issued: 02/28/2021



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Analytical Environmental Services International

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 126 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Empresa** para llevar a cabo actividades de Mitigación Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-04321-010

Fecha de emisión: Abril 6, 2021

Fecha de Expiración: Abril 5, 2022



José Roque Juliá
Jefe

División Desperdicios Tóxicos

Lead Inspector Credentials

CERTIFICACIÓN PLOMO PUERTO RICO



Esta tarjeta autoriza a:
Anthony Rivera Eaves
Para realizar actividades relacionadas a
Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**
Fecha de Expiración: Dic. 8, 2021

Certificación #:
LBPI-34420-316



Firma Autorizada
Departamento de Recursos Naturales y
Ambientales

Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: <u>Municipio de Hormigueros</u>		Date: <u>10/8/21</u>	
Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>	
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>	

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
1					Calibration	0.9	
2					Calibration	0.8	
3					Calibration	0.8	
4	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall A	0.0	
5	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column A	0.1	
6	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall B	0.1	
7	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column B	0.0	
8	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column B	0.1	
9	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall C	0.0	
10	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Lower Wall C	0.1	
11	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall D	0.1	
12	Juanita Arena Theater 1st Floor	Auditorium	Metal	Green	Light Box Support	0.0	
13	Juanita Arena Theater 1st Floor	Auditorium	Metal	Orange	Light Box Support	0.1	
14	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall A	0.0	
15	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall B	0.1	

Approved By: **Ady Padan Ph.D.**

Date: **10/8/2021**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET						
Client Name: <u>Municipio de Hormigueros</u>		Date: 10/8/21				
Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>				
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>				
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
16	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall C	0.0
17	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall D	0.0
18	Juanita Arena Theater 1st Floor	Theater stage	Plastic	Green	Stairs Step A	0.1
19	Juanita Arena Theater 1st Floor	Theater stage	Plastic	Green	Stairs Step B	0.0
20	Juanita Arena Theater 1st Floor	Equipment	Plastic	Green	Stairs Step C	0.1
21	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall A	0.0
22	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall B	0.1
23	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall C	0.0
24	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Wall D	0.0
25	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Door Frame	0.1
26	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Door	0.0
27	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Ceiling	0.0
28	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall A	0.0
29	Juanita Arena Theater 1st Floor	Hallway	Concrete	Cream	Wall B	0.1
30	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall C	0.0

Approved By: **Ady Padan Ph.D.**

Date: **10/8/2021**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: <u>Municipio de Hormigueros</u> Project Name: <u>Teatro Juanita Arenas</u> Address: <u>Hormigueros, Puerto Rico</u>		Date: <u>10/8/21</u> Inspector: <u>Anthony Rivera</u> XRF Serial No.: <u>2385</u>					
Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
31	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall D	0.1	
32	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall A	0.0	
33	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall B	0.1	
34	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall C	0.0	
35	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall D	0.0	
36	Juanita Arena Theater 1st Floor	Bathroom 109	Ceramic	White	Sink	18.6	
37	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall A	0.0	
38	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall A	0.1	
39	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall B	0.3	
40	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall B	0.0	
41	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall C	0.1	
42	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall C	0.0	
43	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall D	0.4	
44	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall D	0.0	
45	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	Gray	Shower Floor	0.0	

Approved By: **Ady Padan Ph.D.**

Date: **10/8/2021**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Municipio de Hormigueros

Project Name: Teatro Juanita Arenas

Address: Hormigueros, Puerto Rico

Date: 10/8/21

Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
46	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	Grey	Dike	0.0	
47	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	Grey	Baseboard	0.3	
48	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Toilet	0.3	
49	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall A	0.0	
50	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall B	0.1	
51	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall C	0.0	
52	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall D	0.0	
53	Juanita Arena Theater 1st Floor	Bathroom 108	Ceramic	White	Sink	21.2	
54	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	White	Upper Wall A	0.0	
55	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Lower Wall A	0.0	
56	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Concrete	Cream	Upper Wall B	0.1	
57	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Lower Wall B	0.0	
58	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Upper Wall C	0.0	
59	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Concrete	White	Lower Wall C	0.3	
60	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Upper Wall D	0.1	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
61	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Lower Wall D	0.0	
62	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Grey	Bathroom Tile	0.0	
63	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Grey	Dike	0.1	
64	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Black	Lower Wall B	0.0	
65	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Toilet	0.0	
66	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Orange	Wall B	0.0	
67	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Grey	Wall C	0.1	
68	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Orange	Wall D	0.0	
69	Juanita Arena Theater 1st Floor	Elevator Box	Metal	Grey	Elevator Box	0.3	
70	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall B	0.0	
71	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall C	0.1	
72	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall D	0.0	
73	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Ceiling	0.0	
74	Juanita Arena Theater 1st Floor	Staircase House	Plastic	Green	Tread	0.1	
75	Juanita Arena Theater 1st Floor	Staircase House	Metal	Green	Handrail	0.0	

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Address: Hormigueros, Puerto Rico

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Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
76	Juanita Arena Theater 1st Floor	Staircase House	Metal	Green	Handrail	0.0	
77	Juanita Arena Theater 1st Floor	Staircase House	Plastic	Grey	Tread	0.0	
78	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall A	0.0	
79	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall B	0.1	
80	Juanita Arena Theater 1st Floor	Administration	Gypsum	Cream	Wall C	0.0	
81	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall D	0.1	
82	Juanita Arena Theater 1st Floor	Administration	Metal	Grey	Door Frame Wall B	0.3	
83	Juanita Arena Theater 1st Floor	Administration	Metal	Grey	Door Wall B	0.1	
84	Juanita Arena Theater 1st Floor	Administration	Metal	White	Double Door	0.0	
85	Juanita Arena Theater 1st Floor	Mecanic Room	Gypsum	White	Wall A	0.0	
86	Juanita Arena Theater 1st Floor	Mecanic Room	Gypsum	White	Wall B	0.1	
87	Juanita Arena Theater 1st Floor	Mecanic Room	Concrete	White	Wall C	0.0	
88	Juanita Arena Theater 1st Floor	Mecanic Room	Concrete	White	Wall D	0.3	
89	Juanita Arena Theater 1st Floor	Mecanic Room	Metal	Green	Electrical Equipment Box	0.1	
90	Juanita Arena Theater 1st Floor	Storage	Gypsum	Cream	Wall A	0.0	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
91	Juanita Arena Theater 1st Floor	Storage	Gypsum	Cream	Wall B	0.3	
92	Juanita Arena Theater 1st Floor	Storage	Concrete	Cream	Wall C	0.0	
93	Juanita Arena Theater 1st Floor	Storage	Concrete	Cream	Wall D	0.1	
94	Juanita Arena Theater Basement	Hallway	Concrete	Orange	Wall A	0.0	
95	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall B	0.1	
96	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall C	0.0	
97	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall D	0.4	
98	Juanita Arena Theater Basement	Hallway	Concrete	Grey	Floor	0.3	
99	Juanita Arena Theater Basement	Hallway	Gypsum	White	Ceiling	0.2	
100	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door Frame	0.0	
101	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door	0.1	
102	Juanita Arena Theater Basement	Storage 203	Concrete	Green	Wall A	0.2	
103	Juanita Arena Theater Basement	Storage 203	Concrete	Orange	Wall B	0.3	
104	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Wall C	0.1	
105	Juanita Arena Theater Basement	Storage 203	Concrete	Orange	Wall D	0.0	

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Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>				
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>				
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
106	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Floor	0.1
107	Juanita Arena Theater Basement	Storage 203	Ceramic	White	Sink	25.6
108	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door Frame	0.0
109	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door	0.1
110	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall B	0.3
111	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall C	0.0
112	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall D	0.1
113	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Floor	0.0
114	Juanita Arena Theater Basement	Women's Bathroom	Metal	Grey	Door Frame	0.3
115	Juanita Arena Theater Basement	Women's Bathroom	Metal	Grey	Door	0.1
116	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall A	0.0
117	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall A	0.1
118	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall B	0.2
119	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall B	0.3
120	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall C	0.0

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Address: Hormigueros, Puerto Rico

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Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
121	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall C	0.1	
122	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall D	0.0	
123	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall D	0.3	
124	Juanita Arena Theater Basement	Women's Bathroom	Gypsum	White	Ceiling	0.0	
125	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	Gray	Floor	0.1	
126	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	Gray	Baseboard	0.0	
127	Juanita Arena Theater Basement	Women's Bathroom	Wood	Gray	Division	0.3	
128	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Sink A	0.1	
129	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Sink B	0.2	
130	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Toilet A	0.3	
131	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Toilet B	0.2	
132	Juanita Arena Theater Basement	Women's Bathroom	Metal	Gray	Wall C, Railing	0.0	
133	Juanita Arena Theater Basement	Men Bathroom	Metal	Gray	Door Frame	0.1	
134	Juanita Arena Theater Basement	Men Bathroom	Metal	Gray	Door	0.0	
135	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall A	0.0	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
136	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall A	0.1	
137	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall B	0.0	
138	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall B	0.3	
136	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall C	0.0	
137	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall C	0.1	
138	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall D	0.3	
139	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall D	0.0	
140	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Black	Lower Wall D	0.1	
141	Juanita Arena Theater Basement	Men Bathroom	Gypsum	White	Ceiling	0.2	
142	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Gray	Floor	0.0	
143	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Gray	Baseboard	0.3	
144	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Sink A	0.1	
145	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Sink B	0.0	
146	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Toilet	0.0	
147	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Urinal	18.3	

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Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>				
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
148	Juanita Arena Theater Basement	Men Bathroom	Wood	Gray	Divisions	0.0
149	Juanita Arena Theater Basement	Men Bathroom	Metal	Cream	Wall C, Railing	0.1
150	Juanita Arena Theater Basement	Men Bathroom	Wood	Gray	Division Frame	0.0
151	Juanita Arena Theater Basement	Room 201	Concrete	White	Wall A	0.0
152	Juanita Arena Theater Basement	Room 201	Concrete	Gray	Wall B	0.3
153	Juanita Arena Theater Basement	Room 201	Concrete	White	Wall C	0.1
154	Juanita Arena Theater Basement	Room 201	Concrete	Green/Yellow	Wall D	0.2
155	Juanita Arena Theater Basement	Room 201	Metal	Red	Column A	0.2
156	Juanita Arena Theater Basement	Room 201	Metal	Red	Column B	0.1
157	Juanita Arena Theater Basement	Room 201	Metal	Gray	Window Frame	0.0
158	Juanita Arena Theater, Exterior	Exterior A	Concrete	Green	Wall A	0.0
159	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column A	0.1
160	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column B	0.0
161	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column C	0.3
162	Juanita Arena Theater, Exterior	Exterior A	Metal	Pink	Wall A, Gate	0.0

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Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
163	Juanita Arena Theater, Exterior	Exterior A	Metal	Pink	Gate Frame	0.0
164	Juanita Arena Theater, Exterior	Exterior A	Metal	Brown	Commemorative Plaques	18.3
165	Juanita Arena Theater, Exterior	Exterior A	Metal	Brown	Commemorative Plaques	17.4
166	Juanita Arena Theater, Exterior	Exterior A	Concrete	White	Bust	0.0
167	Juanita Arena Theater, Exterior	Exterior A	Concrete	Red	Tiles	0.0
168	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Wall B	0.0
169	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Lower Wall B	0.1
170	Juanita Arena Theater, Exterior	Exterior B	Concrete	Red	Floor	0.0
171	Juanita Arena Theater, Exterior	Exterior B	Concrete	Gray	Step	0.3
172	Juanita Arena Theater, Exterior	Exterior B	Metal	Orange	Handrail	0.0
173	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Trim, Wall B	0.0
174	Juanita Arena Theater, Exterior	Exterior B	Concrete	White	Bench	0.1
175	Juanita Arena Theater, Exterior	Terrace	Concrete	Green	Wall A	0.1
176	Juanita Arena Theater, Exterior	Terrace	Concrete	Green	Wall B	-0.1
177	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Wall C	0.2

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Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: 2385	

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
178	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Wall D	0.2	
179	Juanita Arena Theater, Exterior	Terrace	Concrete	Gray	Wall C, Gate	0.1	
180	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Gate Column	0.0	
181	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Wall C	0.0	
182	Juanita Arena Theater, Exterior	Exterior C	Concrete	White	Wall C	0.1	
183	Juanita Arena Theater, Exterior	Exterior C	Metal	Pink	Handrail	0.0	
184	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Riser	0.0	
185	Juanita Arena Theater, Exterior	Exterior C	Metal	Gray	Railings	0.0	
186	Juanita Arena Theater, Exterior	Exterior D	Concrete	Green	Wall D	0.1	
187	Juanita Arena Theater, Exterior	Exterior D	Concrete	Pink	Wall D	0.1	
188	Juanita Arena Theater, Exterior	Exterior D	Concrete	Orange	Garden Wall, Wall D	0.2	
189	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate, Wall D	0.3	
190	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate Railing	0.1	
RETESTING							
191	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Wall C	0.0	

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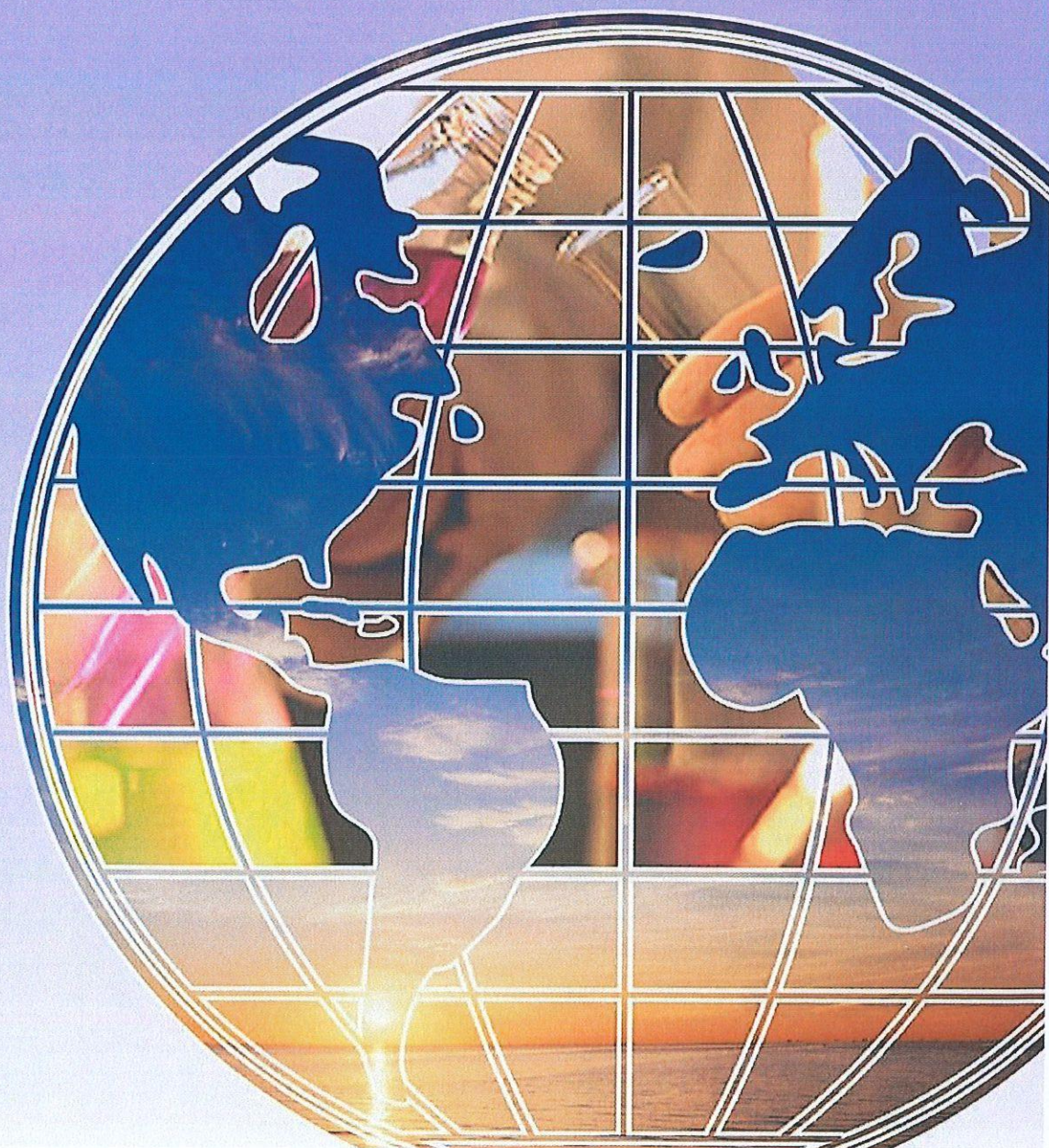
XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
192	Juanita Arena Theater, Exterior	Exterior C	Concrete	White	Wall C	0.0	
193	Juanita Arena Theater, Exterior	Exterior C	Metal	Pink	Handrail	0.1	
194	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Riser	0.0	
195	Juanita Arena Theater, Exterior	Exterior C	Metal	Gray	Railings	0.1	
196	Juanita Arena Theater, Exterior	Exterior D	Concrete	Green	Wall D	0.2	
197	Juanita Arena Theater, Exterior	Exterior D	Concrete	Pink	Wall D	0.3	
198	Juanita Arena Theater, Exterior	Exterior D	Concrete	Orange	Garden Wall, Wall D	0.1	
199	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate, Wall D	0.2	
200	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate Railing	0.1	
201					Calibration	0.9	
202					Calibration	0.8	
203					Calibration	0.9	

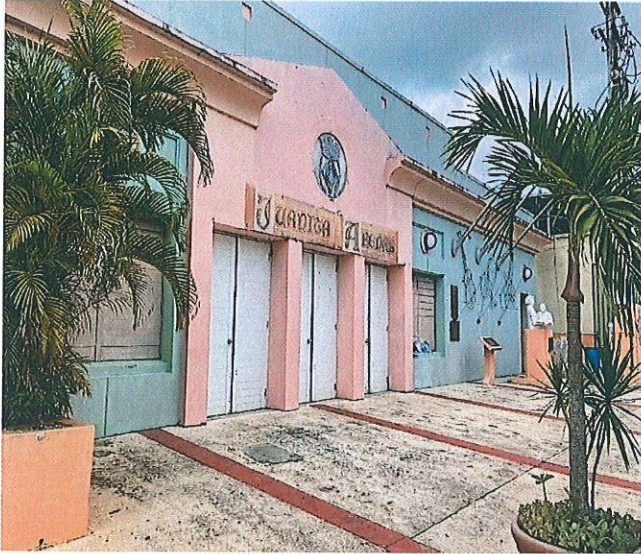
Approved By: Ady Padan Ph.D.

Date: 10/8/2021

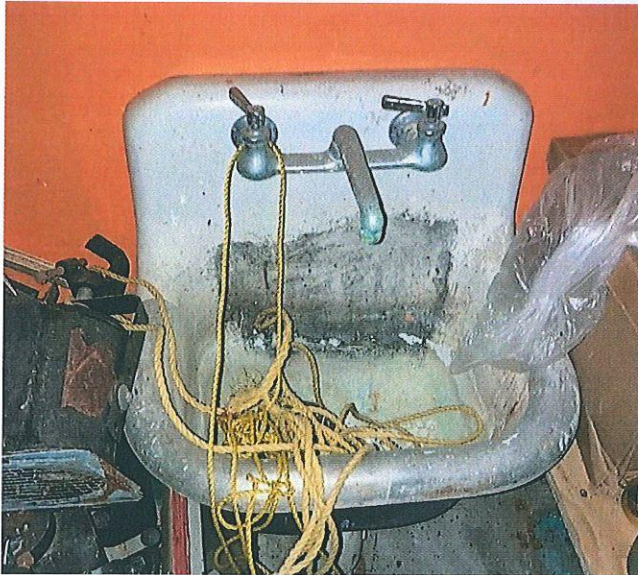
Appendix III



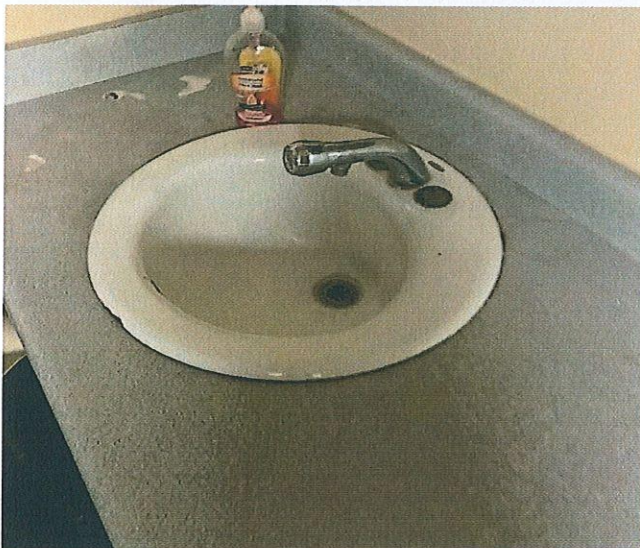
Selective Photos



**General View of Juanita Arenas Theater
Hormigueros, Puerto Rico**



**White Ceramic Sink
Painted with LBP
Storage 203- Basement**



**White Ceramic Sink
Painted with LBP
Bathroom 108- 1st Floor**

Selective Photos



**Brown Metal Commemorative Plaque
Painted with LBP
Exterior of Structure**

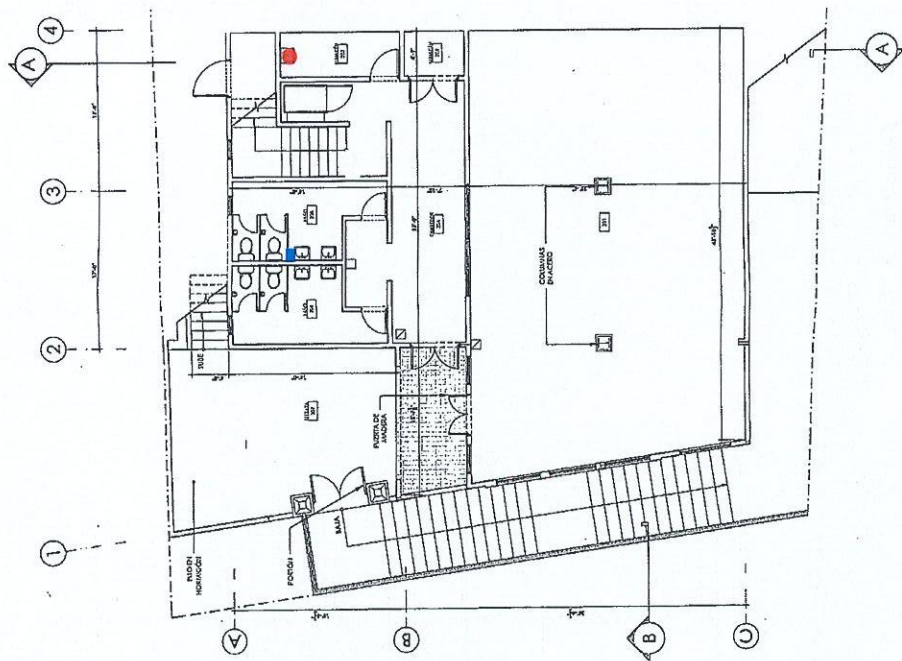


**Brown Metal Commemorative Plaque
Painted with LBP
Exterior of Structure**

Appendix IV



Schematic Distribution of LBP Components at Juanita Arenas Theater- Basement, Homigueros, Puerto Rico.



PLANTA SÓTANO
Escala: 3/16" = 1'-0"

Legend:

- LBP Ceramic Sink
- LBP Ceramic Urinal

PLANTA SOTANO

1	1	EX.102
IF MOJAS	DIRECCION DE MUNICIPIO DE HOLAMONTES	DICHAZ SIN E-DE FECHA: 18-06-2015
	CONATEC:	RECIBO: 18-06-2015
	ENTRADA	

INFORMACIÓN IMPORTANTE PARA EL

CONTRAINDICA

1. The first step is to identify the problem. In this case, the problem is that the company is not meeting its sales targets.

LET OF CERTIFICACIONES

360-3622

[illegible]

[illegible]

JORGE RIGAU FANA ARQUITECTOS PSC
1000 BOULEVARD 1000, SUITE 1000, NEW YORK, NY 10018
TEL: 212-692-1000 FAX: 212-692-1001

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOMBURGUES, PUERTO RICO

1

1998

PLANTA SOTANO

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ASBESTOS



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I. SUMMARY

Analytical Environmental Services International, Inc (AES International) was contracted to perform an Asbestos Containing Materials (ACM) survey for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The ACM inspection was conducted on 10/8/2021 by Anthony Rivera, an DRNA certified asbestos inspector.

The scope of the survey included sampling of suspected ACM present and analysis of the samples collected. During the survey, Twenty-one (21) samples were collected from suspected materials. Samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers. ACM identified include the following:

- Miscellaneous, Category I ACM, non-friable, black mastic on floor. Approximately, 490 sq.ft of this material is present in Room 201.
- Miscellaneous, Category I ACM, non-friable, pink vinyl asbestos tiles (VAT) and mastic. Approximately, 940 sq.ft of this material is present in various areas.
- Miscellaneous, Category I ACM, non-friable, cream VFT and mastic. Approximately, 1,250 sq.ft of this material is present in various areas.

** No access was provided to the roof; therefore roofing treatment is assumed as ACM. In addition, the mirror in bathroom 109 may have mastic behind. As sampling will have involved breakage of the mirror, the mastic behind is assumed as ACM.

If demolition/remodeling activities will be conducted in the nearest future it is recommended to remove all ACM known, or suspected, present within the structure, as to comply with NESHAP/EQB requirements.

1.0 INTRODUCTION

Analytical Environmental Services International, Inc (AES International) was contracted to perform an Asbestos Containing Materials (ACM) survey for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The ACM inspection was conducted on 10/8/2021, by Anthony Rivera, an DRNA/AHERA certified asbestos inspector (see Appendix I for credentials). The scope of the survey included sampling of suspected ACM and analysis of samples collected.

Samples collected were sent to AES International Inc., a NVLAP accredited laboratory located in Santurce, Puerto Rico. Samples were analyzed by Polarized Light Microscopy method (PLM), in accordance with EPA recommended procedures. The samples are defined as asbestos containing materials (ACM) if they contain more than 1% asbestos.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessary constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called ASBESTOSIS; a rare cancer of chest called MESOTHELIOMA; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not fatal; it is however incurable. One who has it cannot breathe easily and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be find in the lining of the lungs and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the one who cause the problems.

Studies indicate different health effect resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The latter, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The EPA's rules concerning the application, removal, and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practices, or procedures for emission control. The rule states that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, effective February 20, 1991 which includes as the responsibility of the owner, or operator, to "prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM." (40 CFR, Part 61, National Emission Standards for hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 PROJECT IDENTIFICATION/DESCRIPTION

The areas investigated consists of a theater, two-level structure (ground floor and basement):

- Ground level- auditorium, stage, music/equipment room, two (2) bathrooms, administration area, mechanical room and storage
- Basement- storage, two (2) bathrooms and a large room.

4.0 SAMPLING METHODS

Twenty-one (21) samples were collected from suspected ACM. Samples were collected from acoustical ceilings, gypsum board, mastic, vinyl floor tiles and baseboard. No access was feasible to roof due to height.

5.0 SAMPLING RESULTS

Location of materials and results are shown in the physical assessment form in Appendix II. Analytical results of samples collected are shown in Appendix III. The results are

presented according to functional areas tested. The suspected samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers.

Asbestos fibers above 1% area (ACM) were identified in nine (9) samples collected from vinyl floor tile/mastic, (see floor plans with ACM distribution in Appendix V and selective photos in Appendix IV). No access was feasible to roof due to height, therefore it must be assumed as ACM.

6.0 CONCLUSIONS

ACM were detected during a survey conducted for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico. Results are presented in the summary as well as on the floor plans attached.

The ACM sampling relates to surfaces accessible and not covered by rigid barriers. Should any material hidden under surfaces, or architectural components be present, it must be assumed as ACM.

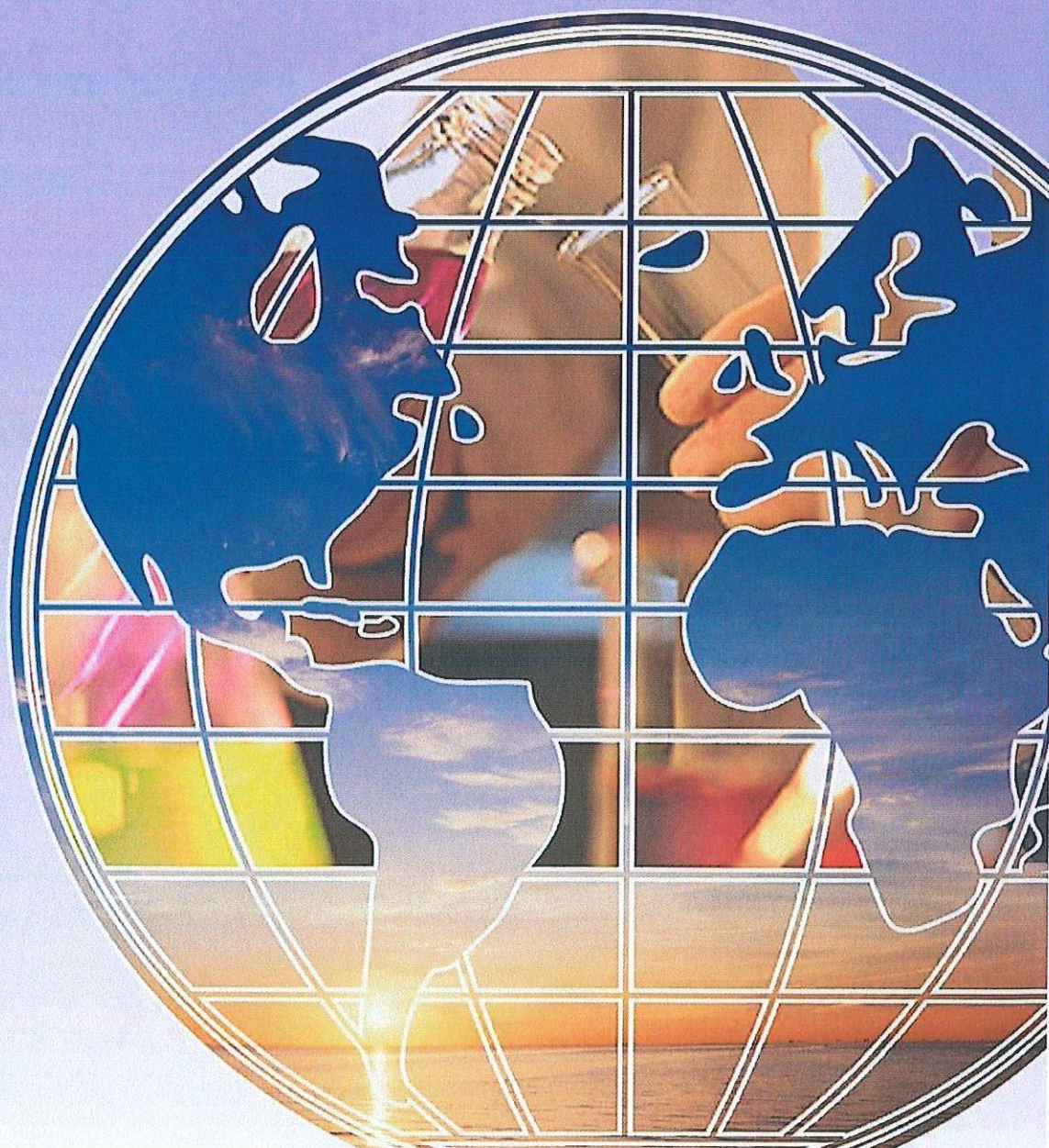


Anthony Rivera, EQB Asbestos Inspector
Lic#: ASB-0921-0466-SI

**Table 1. Summary of Asbestos Containing Materials (ACM) for Juanita Arenas Theater,
Hormigueros, Puerto Rico.**

Building	Sample ID	Description	Result (Percentage of Asbestos)
Juanita Arenas Theater	AR-10	Black Mastic from Floor, Room 201	3% CHR
	AR-11	Black Mastic from Floor, Room 201	2% CHR
	AR-12	Black Mastic from Floor, Room 201	3% CHR
	AR-16	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-17	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-18	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-19	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	2% CHR
	AR-20	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	2% CHR
	AR-21	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration	2% CHR

Appendix I





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate

Santurce, PR 00907

Mr. Ady Padan

Phone: 787-722-0220 Fax: 787-724-5788

Email: yota1@bellsouth.net

<http://www.aesipr.org>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, reading "Dana S. Laman", is positioned above a horizontal line.

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-01-01 through 2021-12-31

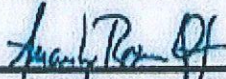
Effective Dates



A handwritten signature in black ink, appearing to read "Peter E. Dunne".

For the National Voluntary Laboratory Accreditation Program

Asbestos Inspector Credentials

	TARJETA DE REGISTRO LA REMOCION PARA DE ASBESTO
	Esta tarjeta autoriza a:
	Anthony Rivera Eaves
	Inspector
	A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.
ASB-0921-0466-SI	
Número de Registro	Firma Autorizada - Departamento Recursos Naturales y Ambientales
30-Aug-2022	
Fecha de vencimiento	

Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 1 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-1	White Acoustical Ceiling 2'x 2' from Auditorium	Misc.	No	NF	Auditorium, Hallway, Bathroom 109, 108, Storage 1st Floor and Room 201	ND		X	
AR-2	White Acoustical Ceiling 2'x 2' from Bathroom 109	Misc.	No	NF		ND		X	
AR-3	White Acoustical Ceiling 2'x 2' from Room 201	Misc.	No	NF		ND		X	
AR-4	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	
AR-5	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	
AR-6	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACM; 2 = Damaged friable surfacing ACM; 3 = Significantly damaged friable surfacing ACM; 4 = Damaged or significantly damaged friable miscellaneous ACM; 5 = ACM with potential for damage; 6 = ACM with potential for significant damage; 7 = Any remaining friable ACM or friable suspected ACM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 2 of 4

Homogeneous Material Description	I.D. Number	Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	ASHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
White Gypsum Board from Auditorium	AR-7	Misc.	No	NF	Auditorium, Stage, Storage, Corridor, Room 201	ND		X	
White Gypsum Board from Room 201	AR-8	Misc.	No	NF		ND		X	
White Gypsum Board from Corridor	AR-9	Misc.	No	NF		ND		X	
Black Mastic from Floor, Room 201	AR-10	Misc.	Yes	NF	Room 201	2% CHR		X	
Black Mastic from Floor, Room 201	AR-11	Misc.	Yes	NF	Room 201	3% CHR		X	
Black Mastic from Floor, Room 201	AR-12	Misc.	Yes	NF	Room 201	2% CHR		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

ASHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACM; 2 = Damaged friable surfacing ACM; 3 = Significantly damaged friable surfacing ACM; 4 = Damaged or significantly damaged friable miscellaneous ACM; 5 = ACM with potential for damage; 6 = ACM with potential for significant damage; 7 = Any remaining friable ACM or friable suspected ACM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials); None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 3 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-13	Green/Brown Vinyl Baseboard 3" from Corridor, 1st Floor	Misc.	No	NF	Corridor, Bath 108, 109, Stairs	ND		X	
AR-14	Green/Brown Vinyl Baseboard 3" from Stairs	Misc.	No	NF	Storage, 1st Floor, Adm	ND		X	
AR-15	Green/Brown Vinyl Baseboard 3" from Administration	Misc.	No	NF	Storage, 1st Floor, Adm	ND		X	
AR-16	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF	Auditorium, Corridor, Stairs, Adm, Storage 202-203	2% CHR		X	
AR-17	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF		2% CHR		X	
AR-18	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF		2% CHR		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 4 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-19	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	Misc.	Yes	NF	Auditorium, Corridor, Adm, Storage, Stairs, Basement Corridor	2% CHR		X	
AR-20	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	Misc.	Yes	NF		2% CHR		X	
AR-21	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration	Misc.	Yes	NF		2% CHR		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

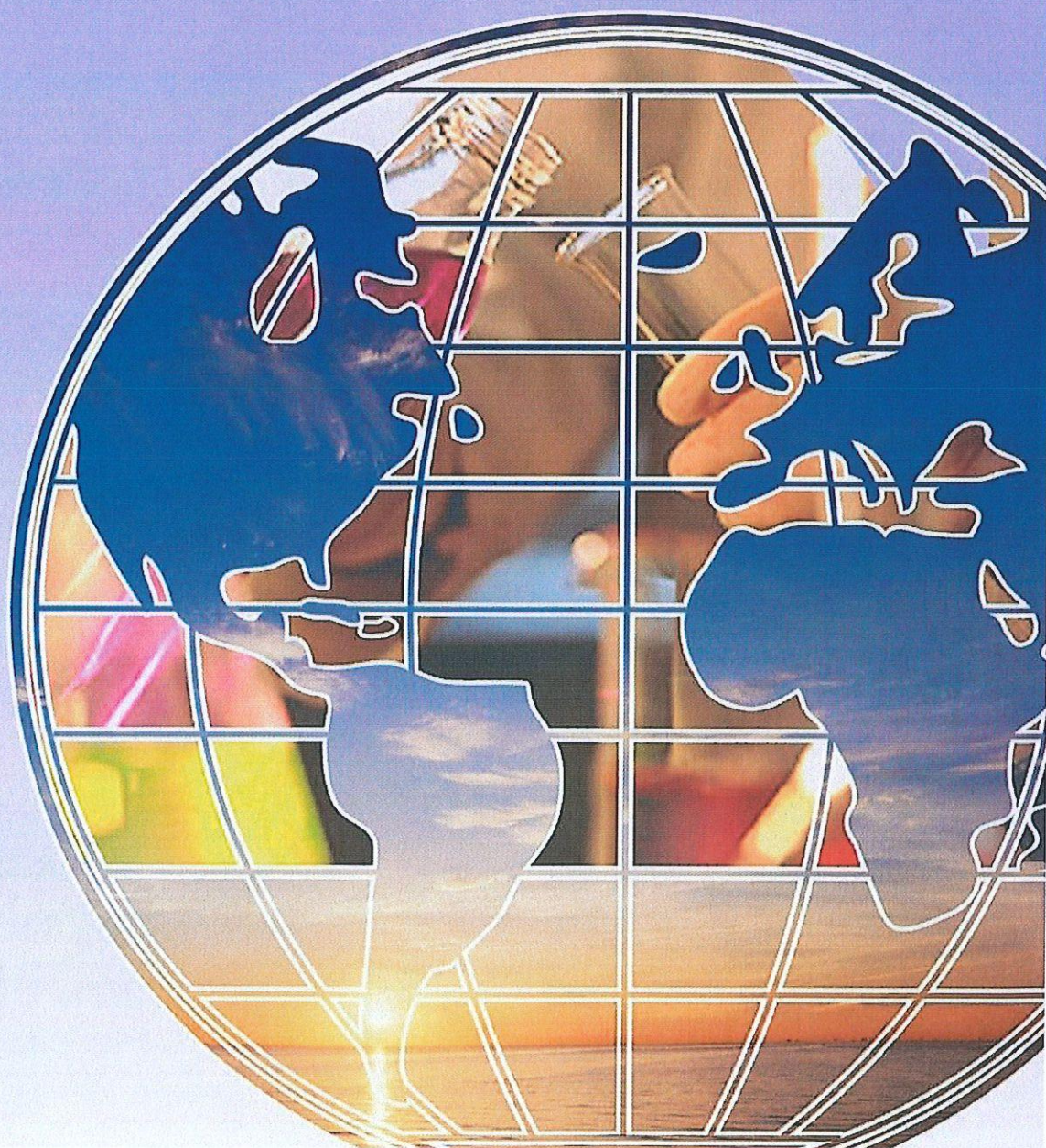
AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

Appendix III





ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.01 B21100035.01.A AR-1	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 25 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 45

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Auditorium

Comments:

Paint Included as Binders

B21100035.02 B21100035.02.A AR-2	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 25 Synthetic 12 Mineral Wool 12	Perlite 10 Binders/Paint 41
---	---	----	--	---	--------------------------------

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Bathroom 109

Comments:

Paint Included as Binders

B21100035.03 B21100035.03.A AR-3	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 20 Synthetic 20 Mineral Wool 10	Perlite 10 Binders/Paint 40
---	---	----	--	---	--------------------------------

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Room 201

Comments:

Paint Included as Binders

MICROANALYST:

[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



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REPORT NUMBER

RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.04 B21100035.04.A AR-4 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 20 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 50
B21100035.05 B21100035.05.A AR-5 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 25 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 45
B21100035.06 B21100035.06.A AR-6 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 20 Synthetic 12 Mineral Wool 10	Perlite 10 Binders/Paint 48

MICROANALYST:


[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



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REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
Client Sample ID					
B21100035.07	Semi-Hard, Silty with Fibers	No		Cellulose 3	Binders/Paint 95
B21100035.07.A	Cream			Synthetic 2	
AR-7					
Layer % of Total :100%					
Date Analyzed: 10/17/2021					
Sample Location: White Gypsum Board from Auditorium					
Comments:					
B21100035.08	Semi-Hard, Silty with Paint and	No		Cellulose 16	Binders/Paint 79
B21100035.08.A	Fibers			Synthetic 5	
AR-8	Lt. Brown				
Layer % of Total :100%					
Date Analyzed: 10/17/2021					
Sample Location: White Gypsum Board from Room 201					
Comments:					
Paint Included as Binders					
B21100035.09	Semi-Hard, Silty with Fibers and	No		Cellulose 12	Binders/Paint 83
B21100035.09.A	Paint			Synthetic 5	
AR-9	Cream				
Layer % of Total :100%					
Date Analyzed: 10/17/2021					
Sample Location: White Gypsum Board from Corridor					
Comments:					
Paint Included as Binders					

MICROANALYST:


[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



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Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.10 B21100035.10.A AR-10 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 2		Bitumen 12 Sand/Aggregates 56 Binders/Paint 30
B21100035.11 B21100035.11.A AR-11 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 3		Bitumen 8 Sand/Aggregates 50 Binders/Paint 39
B21100035.12 B21100035.12.A AR-12 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 2		Bitumen 8 Sand/Aggregates 40 Binders/Paint 50

MICROANALYST:

[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.13 B21100035.13.A AR-13	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 3	Rubber 80 Glue 6 Binders/Paint 11

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Corridor, 1st Floor

Comments:

Paint Included as Binders

B21100035.14 B21100035.14.A AR-14	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 3	Rubber 81 Glue 6 Binders/Paint 10
--	--	----	--	-------------	---

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Stairs

Comments:

Paint Included as Binders

B21100035.15 B21100035.15.A AR-15	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 2	Rubber 85 Glue 5 Binders/Paint 8
--	--	----	--	-------------	--

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Administration

Comments:

Paint Included as Binders

MICROANALYST:

[Elme Rivera]

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Job ID: B21100035



REPORT NUMBER

RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.16 B21100035.16.A AR-16 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue, Mastic Other - and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 8 Sand/Aggregates 20 Glue 6 Binders/Paint 62
B21100035.17 B21100035.17.A AR-17 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue Other - Mastic and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 6 Sand/Aggregates 20 Glue 6 Binders/Paint 64
B21100035.18 B21100035.18.A AR-18 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue Other - Mastic and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 5 Sand/Aggregates 25 Glue 6 Binders/Paint 60

MICROANALYST:

[Elme Rivera]

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PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.19 B21100035.19.A AR-19 Layer % of Total :100%	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 2	Cellulose 2	Bitumen 5 Sand/Aggregates 25 Binders/Paint 66

Date Analyzed: 10/17/2021

Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium

Comments:

Asbestos Found in Bitumen

B21100035.20 B21100035.20.A AR-20 Layer % of Total :100%	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 2	Cellulose 2	Bitumen 6 Sand/Aggregates 25 Binders/Paint 65
--	--	-----	--------------	-------------	---

Date Analyzed: 10/17/2021

Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium

Comments:

Asbestos Found in Bitumen

B21100035.21 B21100035.21.A AR-21 Layer % of Total :100%	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 1	Cellulose 2	Bitumen 6 Sand/Aggregates 20 Binders/Paint 71
--	--	-----	--------------	-------------	---

Date Analyzed: 10/17/2021

Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration

Comments:

Asbestos Found in Bitumen

Comments:

For all heterogeneous and layered samples easily separated into sublayers, each component is analyzed and reported separately.

MICROANALYST:

[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



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Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Samples are analyzed by PLM using dispersion staining techniques in accordance with US EPA methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

MICROANALYST: _____

[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, IN

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

Ph: (787) 722-0220 Fax: (787) 724-5788



Transmittal Sheet for Bulk Sample Analysis

Client Name: Municipio de Hormigueros

Address: _____

Contact: José ArochoPhone/Fax: (787) 849-2515 Xt. 217Project Name: Teattro Juanita ArenasSite Location: Hormigueros, Puerto RicoSamplers Name: Anthony RiveraCompany: AESI

Chain of Custody Record

Sample I. D.	Sample Description (i.e. Location, Name, etc.)	Collected		Analysis Required		Comments	Laboratory I.D. 21100035
		Date	Time	PLM	Other		
AL-1	See Hazard Assessment	10/3/11		-			01
AL-2				✓			02
AL-3				-			03
AL-4				-			04
AL-5				-			05
AL-6				-			06
AL-7				-			07
AL-8				-			08
AL-9				-			09
AL-10				-			10
AL-11				-			11
AL-12				-			12

Turnaround Time:

Normal: ☐Rush: ☐

Relinquished By: _____		Delivered Directly to Lab: ☐ Shipped: ☐	
Date/ Time: _____		Method of Shipment: _____	
Received By: _____			
Date/ Time: _____		Lab. Recipient: _____	
Relinquished By: _____			
Date/ Time: _____		Date: _____	
Received By: _____			
Date/ Time: _____		*Job ID: B21100035 Municipio de Hormigueros	
Relinquished By: _____			

COC-BULK-011/REV2/16

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, IN

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

Ph: (787) 722-0220 Fax: (787) 724-5788



Transmittal Sheet for Bulk Sample Analysis

Client Name: Municipio de Hormigueros

Address: _____

Contact: _____

Phone/Fax: _____

José Arocho(787) 849-2515 Xt. 217Project Name: Teatro Juanita ArenasSite Location: Hormigueros, Puerto RicoSamplers Name: Anthony RiveraCompany: AESI

Chain of Custody Record

Sample I. D.	Sample Description (i.e. Location, Name, etc.)	Collected		Analysis Required		Comments	Laboratory I.D.
		Date	Time	PLM	Other		
AL-13	Sec H-1854	10/3/21		-			13
AL-14				-			14
AL-15				-			15
AL-16				-			16
AL-17				-			17
AL-18				-			18
AL-19				-			19
AL-20				-			20
AL-21				-			21

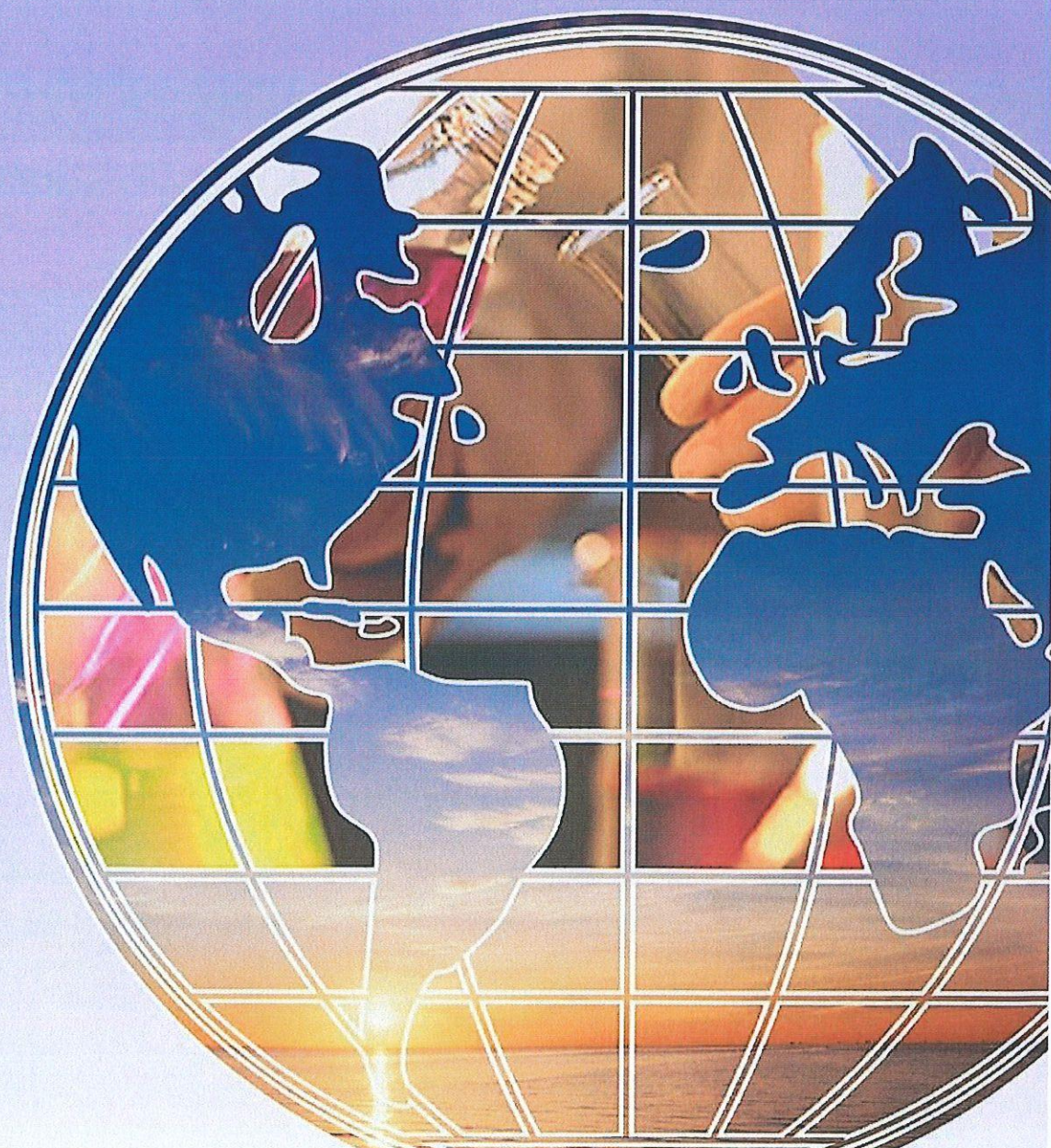
Turnaround Time:

Normal: ☐Rush: ☐

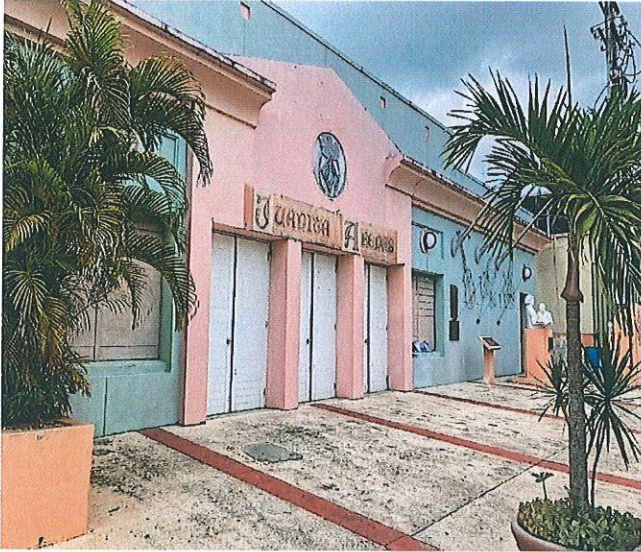
Relinquished By: 	Delivered Directly to Lab: ☐	Shipped: ☐
Date/ Time: <u>10/3/21</u>	Method of Shipment:	
Received By: <u>Muniquer</u>	Lab. Recipient:	
Date/ Time: <u>10/12/21 7:20am</u>	Date:	
Relinquished By:	*Job ID: B21100035	
Date/ Time:		
Received By:	Municipio de Hormigueros	
Date/ Time:		

COC-BULK-011/REV2/16

Appendix IV



Selective Photos



**General View of Juanita Arenas Theater
Hormigueros, Puerto Rico**



**Asbestos Containing Black Mastic on Floor
Room 201- Basement**

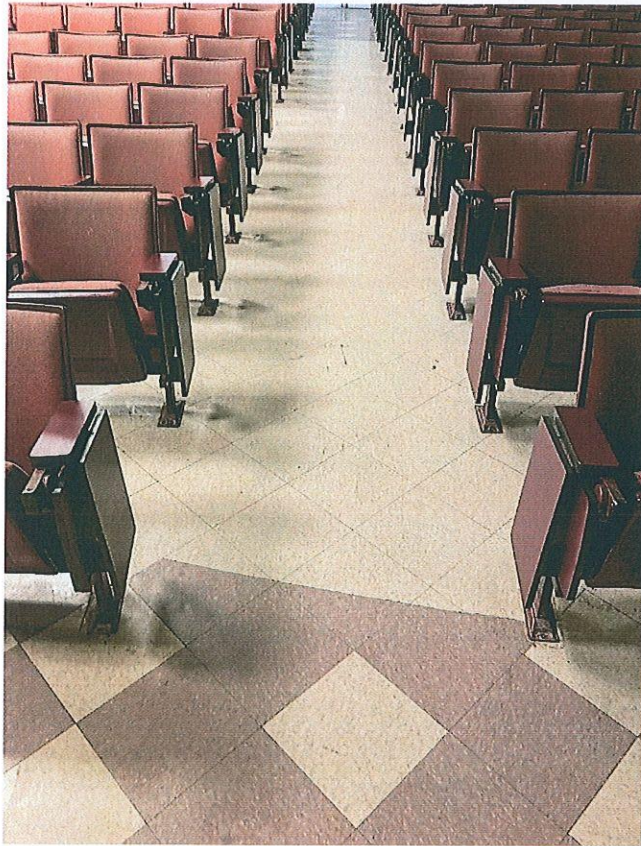


**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Administration Area**

Selective Photos



**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Auditorium Area**

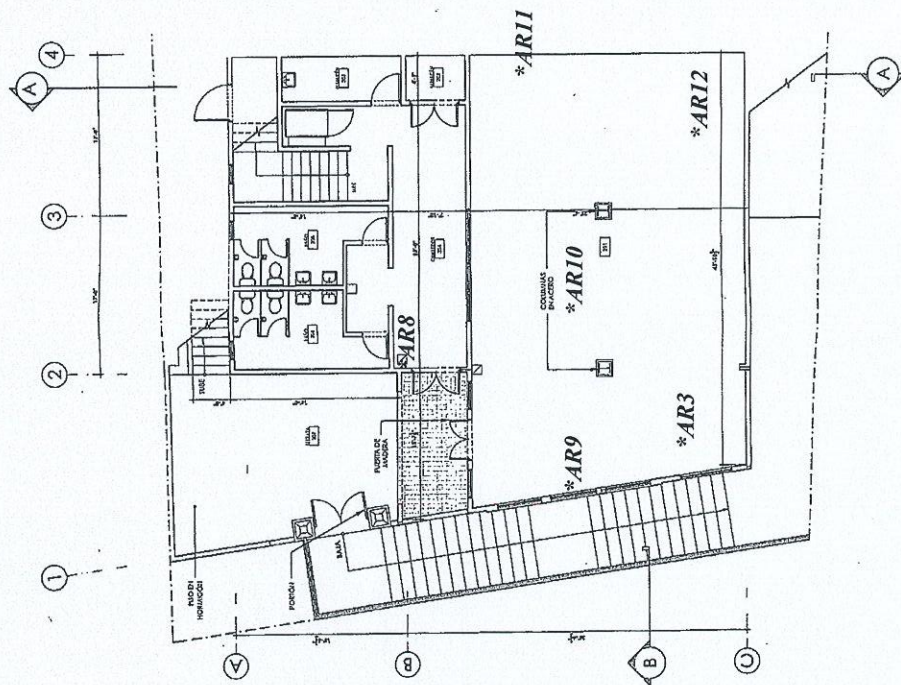


**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Auditorium Area**

Appendix V



Schematic Location of Bulk Sampling Points at Juanita Arenas Theater-Basement, Horámigueros, Puerto Rico.



PLANTA SÓTANO
DCA: 2/11 = 1.47

PLANTA SOTANO

15- PROYECTO 15-01	DESARROLLO MANTENIMIENTO DE OBRAS DE REPARACIÓN DE OBRAS	DOW SUEÑO RECH 15-01-2015 15-01-2015 15-01-2015	EX.102
--------------------------	--	--	--------

ESTIMACIÓN DE PROBABILIDAD PARA EL

CORTESIA

[illegible]

LIST OF GRANTING AGENCIES

...che, oltre a una nuova tecnica, può servire da test e strumento per sapere dove vanno i dati economici, organizzati in una forma che non solo è più facile e intuitiva, ma anche con un certo grado di semplicità, per il calcolo e la interpretazione dei programmi e dei dati. La nuova tecnica, che si chiama "programmazione lineare", è una tecnica di calcolo che si applica a problemi di ottimizzazione, come la scelta del miglior modo di organizzare le risorse, o la scelta del miglior modo di organizzare le attività.

RECEIVED: 1998-03-04; REVISED: 1998-05-14; ACCEPTED: 1998-06-15. This work was supported by the National Institutes of Health (NIH) (R01-NS38443) and the National Science Foundation (NSF) (IBN-9521094). We thank Dr. Robert L. Davis for his helpful comments on this manuscript.

total company

[illegible]

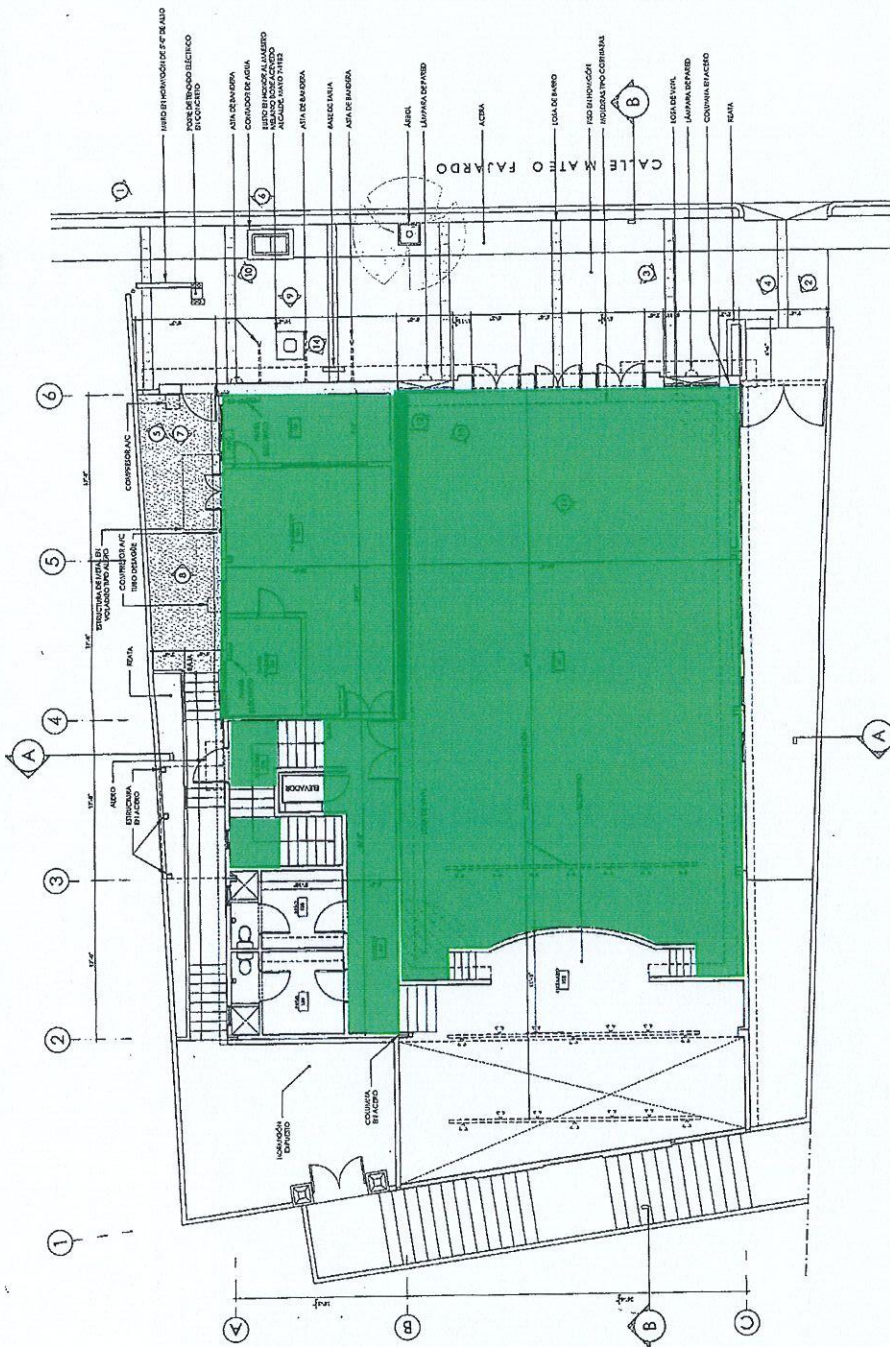
VERGARA FANA ARQUITECTOS PSC

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOLMQUIROS, PUERTO RICO

—

1

Schematic Distribution of ACM at Juanita Arenas Theater- Ground Floor, Hormigueros, Puerto Rico.



PLANTA PRIMER PISO
ESCALA: 2/16" = 1'-0"

Legend:
 Asbestos Containing VFT/Mastic

PLANTA DE PRIMER PISO

Nº PROYECTO	DURZO ANUNCIO DE SOCIALIZACIÓN	ESCALA: MIP = 1/8"
15-01	ORAVIOT BT C.M.S.A.	FECHA: 15/09/2005
		EX.101

[illegible]

LEI DE CERTIFICACIONS

DATE: _____

[illegible]

JORGE BIGAU FAIA ARQUITECTOS PSC
 1815, ANDARAÍ Nº 233-A/1, LAR DAS ÁSAS, SÃO PAULO, SP 05400-0003
 TEL. (011) 3060.0000 FAX (011) 3060.0001 E-MAIL: JORGE@JBFARQ.COM.BR

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
MICHIGUAYOS, PUERTO RICO

1

1

1

INFORMACIONES E INTERVENCIONES PARA EL MANEJO DE LOS CASOS DE INTELIGENCIA



Asbestos Containing VFT/Mastic

Asbestos Containing Mastic on Floor

[illegible]

JORGE RIGAU FMA ARQUITECTOS PSC
CALLE 100 N° 100-10, LA PAZ, BOLIVIA
TEL: 221 411111 FAX: 221 411111 E-MAIL: jrigau@netcom.bo

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOBALQUEROS, FUERTE RICO

PLANTA SOTANO

1	1501	PROTECCION	DE
2		DE	
3		DE	
4		DE	
5		DE	
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100		DE	

Appendix D

IPaC resource list

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

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

Location

Hormigueros County, Puerto Rico



Local office

Caribbean Ecological Services Field Office

☎ (787) 834-1600

📠 (787) 851-7440

✉ CARIBBEAN_ES@FWS.GOV

MAILING ADDRESS

Post Office Box 491

Boqueron, PR 00622-0491

PHYSICAL ADDRESS

Office Park I

State Road #2 Km 156.5, Suite 303}

Mayaguez, PR 00680

NOT FOR CONSULTATION

Endangered species

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

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

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

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

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

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

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

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

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

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

Reptiles

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

Critical habitats

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

There are no critical habitats at this location.

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 habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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

Additional information can be found using the following links:

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

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

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

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

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

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

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

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

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

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

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

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

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird

on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

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

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

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

Details about birds that are potentially affected by offshore projects

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

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

What if I have eagles on my list?

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

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is

the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

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

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

Wetland information is not available at this time

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

Data limitations

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

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

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

Data exclusions

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

Data precautions

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

General Project Design Guidelines (1 Species)

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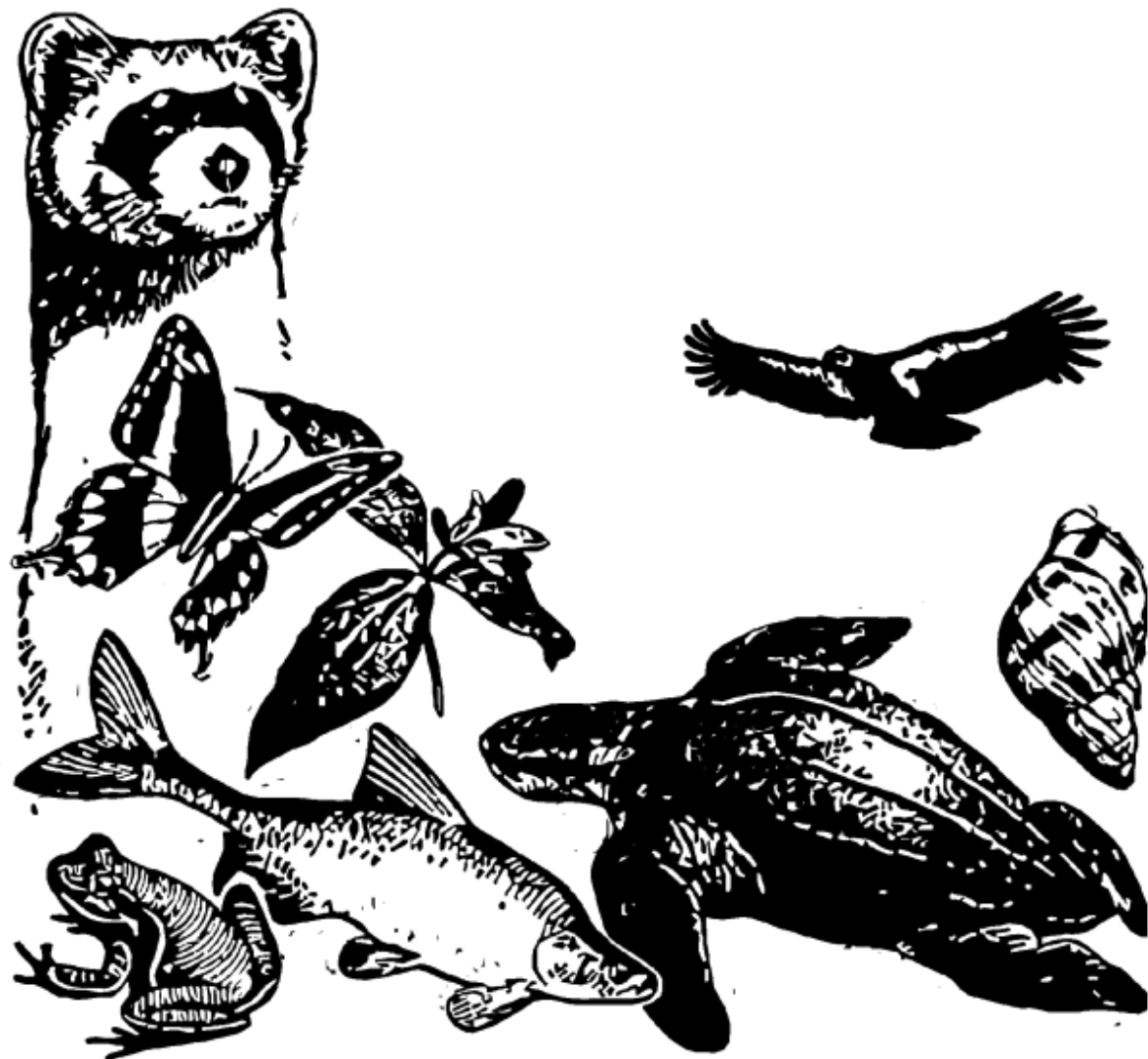


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Species Document Availability

Species with general design guidelines

Puerto Rican Boa *Chilabothrus inornatus*



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 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 Puerto Rican 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 like roadsides or houses, especially if near their habitat in rural areas. This 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 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. The PR boa is considered more active at night. Thus, in order to maximize its detection, the species should be searched at nights prior to habitat disturbance.
5. Once the area has been searched for PR boas, vegetation should first be cleared by hand to the maximum extent possible. Vegetation should be cut about one meter above ground prior to the use of heavy machinery for land clearing. Cutting vegetation by hand will allow boas present on site to move away on their own to adjacent available habitat. Any stone walls or naturally occurring rock piles must be carefully dismantled by hand as these are refuges for the snake. This will allow any boas present to vacate the site without injury.
6. 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.

7. If a PR boa is found within any of the working or construction areas, activities should stop at that area and information recorded (see #6). **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 this 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.
8. If a PR boa is captured by the PRDNER, record the name of the PRDNER staff and information on where the PR boa will be taken. This information should be reported to the Service.
9. 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 #7). If not possible, the animal should be left alone until it leaves the vehicle on its own.
10. 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.
11. If a dead PR boa is found, immediately cease all work in that area and record the information accordingly (see #6). 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 that 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.
12. 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:

- Marelisa Rivera, Deputy Field Supervisor
 - Email: maRELISA_rivera@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1814
- José Cruz-Burgos, Endangered Species Coordinator
 - Email: jose_cruz-burgos@fws.gov
 - Office phone (786) 244-0081 or mobile (305) 304-1386

Appendix E



GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE

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

November 17, 2022

Lauren Bair Poche

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

SHPO: 07-12-22-01 PUERTO RICO DISASTER RECOVERY, CDBG-DR CITY REVITALIZATION PROGRAM (CRP), PR-CRP-000508, JUANITA ARENAS THEATER REHABILITATION AND EXPANSION, BO. PUEBLO, CALLE MATEO FAJARDO #9, HORMIGUEROS, PUERTO RICO

Dear Ms. Poche,

We acknowledge receipt of the archaeological monitoring work plan submitted on October 18, 2022, for the case mentioned above. The plan prepared by archaeologist Jesús E. Vega is appropriate for this undertaking, and we concur with its implementation.

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

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/LGC/MDT



October 18, 2022

Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization Program (CRP)

Re: SHPO ID: 07-12-22-01; Proposed Archaeological Monitoring Work Plan for PR-CRP-000508, Juanita Arenas Theater Rehabilitation and Expansion Project, Hormigueros, Puerto Rico

Dear Architect Rubio Cancela,

We acknowledge receipt of your letter dated August 10, 2022, where you concurred that a finding of No Adverse Effect would be appropriate for the proposed project with the condition of archaeological monitoring during ground-disturbing activities. An archaeological work plan following established conditions and requested an archaeology work plan be submitted for review and concurrence.

On behalf of PRDOH and the subrecipient, the Municipality of Hormigueros, we are submitting the *Archaeology Work Plan, Juanita Arenas Theater Rehabilitation and Expansion*, prepared by Archaeologist Jesus E. Vega, Ph.D and adapted from the Standard Monitoring Work Plan 2 prepared by Archaeologist Sharon Meléndez Ortiz, M.A. for the R3 Program, for your review.

We look forward to your comments and respectfully your request concurrence that the implementation of this plan will result in No Adverse Effect to Historic Properties.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@hornepr.com.

Kindest regards,



Lauren Bair Poche, M.A.

Architectural Historian, Historic Preservation Senior Manager

Enclosures

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination		 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Hormigueros		
Project Name: Juanita Arenas Theater Rehabilitation and Expansion		Project ID: PR-CRP-000508
Project Location: Bo. Pueblo Calle Mateo Fajardo #9, Hormigueros PR 00660		
Project Coordinates: 18.13956, -67.12764		
TPID (Número de Catastro): 283-050-013-07 / 283-050-013-06		
Type of Undertaking: ☒ Substantial Repair ☐ New Construction		
Construction Date (AH est.): 1974		Property Size (acres): 0.1617

Archaeology Work Plan
 Juanita Arenas Theater Rehabilitation and Expansion
 SOI-Qualified Archaeologist: Jesus E. Vega, Ph.D.
 September 16, 2022

Project Description (Undertaking)

The Juanita Arenas Theater was built in 1974 as a multi-purpose auditorium in the urban center of the Municipality of Hormigueros. The theater is located on Bo. Pueblo Calle Mateo Fajardo #9, near the intersection that connects the public plaza, the Catholic church, the town hall building, and several other government facilities. The Juanita Arenas Theater was built at the center of two adjacent parcels, #283-050-013-07 (south) and #283-050-013-06 (north). It occupies an area of 654.38 m². In 2015, the municipality commissioned a restoration and improvement project to the theater, whose execution was impeded by economic obstacles, despite having an approved construction permit.

The project will utilize City Revitalization Program funds to rehabilitate the theater, including an extension of the building towards the public sidewalk, without exceeding the parcel boundary, to create a lobby and a ticket booth at a low cost. The main function of this public facility is to serve the population of the Municipality of Hormigueros without any cost, offering a centralized space for school events, cultural activities, public and private meetings, job trainings, among other activities. Coordinated musical recitals, theatrical plays, and other cultural activities would be accessible to the general population at a low cost.

As part of the rehabilitation work, it will be necessary to demolish windows and walls on the building façade, bathroom interiors, and part of the theater stage, among other areas. Currently, the roof has lost some components, including waterproofing. Gypsum and pycem walls will require replacement. Attention to corroded steel parts is important, as there was a loss of acoustic ceilings, metal doors and windows, and

fluorescent luminaires. The exterior walls, covered with panels and scraps of "foam", also suffered loss of material and will be replaced. Air conditioning (AC) ducts have accumulated moisture and require cleaning or replacement. Additionally, the removal of asbestos and floor slabs is required. The theater seats are deteriorated and need to be replaced. The structure will be painted inside and out, including but not limited to the lobby, emergency exit, warehouse, sales area, waiting room, mechanical rooms, corridors, stairs, and bathrooms, among other areas. The lobby will house the control area and the light tracker focus.

The proposed design contemplates adapting the project to the ADA code (Americans with Disabilities Act) to guarantee access and movement through the interior spaces for people with physical disabilities, including a total of 214 seats and two wheelchair spaces inside the theater. The existing equipment will be replaced, as well as floor finishes, ceilings, furniture, etc. An existing basement level will be refurbished, and the floor finish will be replaced with a similar one.

The Municipality of Hormigueros will take advantage of the need to execute the improvements recommended by FEMA, to carry out the restoration and improvement project originally conceived. Beyond the repairs to be subsidized with FEMA funds, improvements to be made under the CDBG-DR program include demolition and excavation, construction of a new entrance and indoor ticket office; construction of a lobby that includes structural steel, glassware, metal façade, roof, lighting, and floors; removal and replacement of patio canopy; construction of an exterior ramp on the front elevation; extension of concrete slab and scenario; construction of bleachers, electricity, air conditioning, plumbing, vinyl tiles hollow metal doors and jalousie windows; restitution of pavements, ceilings, curtaining, stagecraft system, theatrical lighting system, and sound system; repaint exterior walls, steel column, interior floor and walls; cleaning of theater velvet seats; removal of tile cement; rehabilitation of four bathrooms, an external staircase, a platform or lift, room lighting, fluorescent lamps, galvanized roof built up, gypsum boards, plycem walls, proscenium arch bars, skylights, pavements, carpets, acoustic coating, and signage.

Before Demolition

Prior to demolition, the inspector and construction crew will meet with the Monitor to discuss the procedure for the archaeological monitoring service, including the protocol between the Monitor and the Contractor. The Monitor will provide an orientation on the area's cultural resources, including potential, buried archaeological resources and their proper treatment, and explain which demolition activities will require archaeological monitoring. The Construction Manager, Program Manager and construction crew will read and sign a statement outlining the activities requiring the Monitor's presence. This statement will certify their understanding and adherence to the archaeological monitoring service.

For the Juanita Arenas Theater Rehabilitation and Expansion, the activities requiring archaeological monitoring include site grading, repairs or replacement of below-ground utilities, excavations for sidewalk and driveway removal, excavation for the removal of structural foundations, and the use of soil from an approved source.

The Environmental Consultant shall be responsible for coordination between the Construction Manager and the Monitor. In turn, the Construction Manager shall notify the start date of field activities to other team members and stakeholders.

During Demolition and Reconstruction

The Monitor shall be in the field during all project activities involving demolition and ground disturbance. The Construction Manager will guarantee that the Monitor has physical access and clear sightlines to all demolition and excavation activities, including the removal of construction debris. The Monitor shall provide instructions directly to the construction field personnel, regarding how to proceed when there is a potential to impact an archaeological resource.

The Monitor shall ensure the following:

- Grading is limited to six (6) inches, equivalent to fifteen (15) centimeters below the existing grade or surface elevation.
- Excavations for the removal of foundations shall not exceed a perimeter of two (2) feet (61cm), nor more than six (6) inches (15 cm) below the depth of the foundation.
- Excavation for sidewalk and driveway removal shall not exceed a perimeter of one (1) foot (30 cm), nor more than six (6) inches (15 cm) below the depth of the asphalt or concrete being removed.
- Any soil brought for any filling activities will be observed to make sure it does not contain archaeological materials, such as ceramic shards and shell. If such material is detected, samples must be taken in labeled plastics bags (including date, the driver's name and plate number on the truck), and regarded as an unanticipated find. If the artifacts and ecofacts in the soil appear to be dense, it should be reported to the contractor, and to the Program Manager and Environmental Consultant.
- Formal record keeping, with a Daily Record of Activities Form. Copies of these forms will be attached to the final memo report as an appendix.
- Document all archaeological remains identified during construction activities. The documentation shall include a detailed description of the discovery, context, horizontal and vertical provenience, with digital photos and drawings as needed.

If the identified archaeological remains are deemed historically significant– i.e., complex structures or stratified deposits, the Monitor shall instruct the construction crew to immediately cease work in the vicinity of the discovery, and take all reasonable measures to avoid or minimize harm to the property, including posting safety fences if necessary. The Monitor will notify the Construction Manager, Program Manager and Grant Manager. In turn, the Grant Manager shall immediately notify the SHPO, as per stipulation III.B.1.b of the Programmatic Agreement.

The following protocol shall be followed for any unanticipated discoveries:

- The Monitor shall make a preliminary assessment of the finding, including a description of the discovery, location, horizontal and vertical extent (if known), context, digital photographs, and drawings, as deemed necessary. The assessment shall also include a Work Plan for implementing an NRHP-eligibility evaluation of the historically significant remains.
- The work plan shall be submitted via email to the Program Manager and Grant Manager within 24 hours of the discovery. In turn, the Grant Manager GM will comment on the work plan within 24 hours of receiving it.
- The Monitor shall implement the work plan after receiving Grant Manager's authorization to proceed. After completing the fieldwork, the Monitor shall prepare an End of Field Report, summarizing the results. Said report should include a determination of eligibility to the National Register of Historic Places (NRHP). The End of Field Report shall be submitted via email to the Program Manager and Grant Manager within 48 hours after completing the fieldwork.
- The Grant Manager shall notify the SHPO of the NRHP-eligibility determination.
- If the finding is deemed not eligible to the NRHP, the General Manager shall notify the SHPO, providing supporting documentation towards than conclusion. Construction activities may resume under archaeological monitoring, unless the SHPO disagrees with the NRHP determination and objects within 48 hours of the notification.
- If the finding is **eligible** to the NRHP, the criteria of adverse effect shall be applied. If the project activities do not adversely affect the finding, the Grant Manager shall notify the SHPO and provide supporting documentation. Construction activities may continue under archaeological monitoring, unless the SHPO makes a timely objection within 48 hours of the notification.
- If project activities have an **adverse effect** on the NRHP-eligible finding, Data Recovery will be implemented as a Treatment Measure per Appendix F of the Programmatic Agreement. The Monitor shall develop a data recovery plan with a research design consistent with the Secretary of the Interior's Guidelines for Archeological Documentation, as described by the National Park Service in the following link: (http://www.nps.gov/history/locallaw/arch_stnds_7.htm)
- The Monitor shall be consistent with recommendations of the Advisory Council for Historic Preservation, for the recovery of significant information from archaeological sites, as updated in 2009, at: https://www.achp.gov/protectinghistoricproperties/Section_106_Arcaeology_Guidance.
- The Data Recovery Plan shall be submitted via email to the Grant Manager for comments. The Grant Manager shall be responsible for submitting the data recovery plan to the SHPO, for comments and approval.
- In the eventual discovery of human burials, the Monitor shall contact a bioarchaeologist for in-field treatment, following the protocol for unanticipated finds, with the added precaution of protecting the bones from theft and on-lookers, including reporters. Directed exhumation or disinterment of human bone, within or outside of a historic cemetery, shall only be conducted after formal, written approval by the SHPO and Grant Manager, including consultation with the bioarchaeologist.

After Construction

Upon completion of the archaeological monitoring service, the Monitor shall notify the Program Manager and Grant Manager, with an estimated date of delivery of the Final Report. A technical memo report shall be prepared, detailing monitored construction activities, including any documentary research in support of the archaeological monitoring service, and formal documentation of findings, analysis, interpretation and conclusions, with any recommendations for additional laboratory research if necessary.

The technical memo report shall include the location of the project on a current USGS topographic map, a general plan of the monitored site, with detailed plans of finding locations and sketches as needed, and digital photo record of findings in the field and post-excavation. The technical memo report shall be submitted to the Grant Manager within two (2) weeks after completing the archaeological monitoring service. In turn, the Grant Manager shall submit the report to the SHPO no later than one week after receiving it.



GOBIERNO DE PUERTO RICO
Departamento de la Vivienda

13 de enero de 2020

Arq. Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)
Calle Norzagaray, Esquina Beneficiencia
San Juan, Puerto Rico

Re: Autorización para Someter Documentos

Estimado Arq. Rubio Cancela:

El Departamento de Vivienda y Desarrollo Urbano (HUD, por sus siglas en inglés) de los Estados Unidos aprobó una asignación de fondos tipo Subvención en Bloque para el Desarrollo Comunitario (CDBG-DR, por sus siglas en inglés) el 9 de febrero de 2018. El objetivo de esta asignación es atender necesidades insatisfechas a consecuencia del paso de los huracanes Irma y María ocurrido en septiembre de 2017.

Para cumplir con los requisitos ambientales que establece HUD, el Departamento de Vivienda de Puerto Rico contrató a Horne Federal, LLC para proporcionar servicios de revisión de registros ambientales, entre otros, que respaldarán los objetivos de la agencia para el Programa CDBG-DR.

En el ánimo de agilizar los procesos se autoriza a Horne Federal, LLC, a presentar ante la Oficina Estatal de Preservación Histórica, documentación de los casos relacionada al Programa CDBG-DR en representación del Departamento de Vivienda.

Cordialmente,



Dennis G. González Ramos, PE MEM
Subsecretario
Programa CDBG-DR



GOVERNMENT OF PUERTO RICO
STATE HISTORIC PRESERVATION OFFICE

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

Wednesday, August 10, 2022

Lauren Bair Poche

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

SHPO: 07-12-22-01 PUERTO RICO DISASTER RECOVERY, CDBG-DR CITY REVITALIZATION PROGRAM (CRP), PR-CRP-000508, JUANITA ARENAS THEATER REHABILITATION AND EXPANSION, BO. PUEBLO, CALLE MATEO FAJARDO #9, HORMIGUEROS, PUERTO RICO

Dear Ms. Poche,

Our Office has received and reviewed the above referenced project in accordance with 54 USC 306108 (commonly known as Section 106 of the *National Historic Preservation Act, as amended*) and 36 CFR Part 800: *Protection of Historic Properties* from the Advisory Council on Historic Preservation.

After a review of all the documentation, the SHPO concurs with your finding that the proposed project will have **no adverse effect** for this undertaking **conditioned to** archaeological monitoring during ground disturbing activities. We, therefore, request an archaeology work plan, for our review and concurrence.

However, if the agency official will not conduct the undertaking as proposed in the finding, the agency official must reopen consultation under 36 CFR §800.5(a).

If you have questions regarding this matter or require further assistance, please contact our Office at (787) 721-3737 or email, ediaz@prshpo.pr.gov.

Sincerely,

Carlos A. Rubio-Cancela
State Historic Preservation Officer

CARC/GMO/MDT/LGC



July 12, 2022

Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)

Puerto Rico Disaster Recovery, CDBG-DR City Revitalization Program (CRP)

Section 106 NHPA Effect Determination Submittal for PR-CRP-000508, Juanita Arenas Theater Rehabilitation and Expansion Project, Hormigueros, Puerto Rico

Dear Architect Rubio Cancela,

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 (PRDOH) aims to lead a comprehensive and transparent recovery for the benefit of Puerto Rico residents. To faithfully comply with HUD's environmental requirements, the Puerto Rico Department of Housing contracted Horne Federal, LLC (HORNE) to provide environmental records review services that will support the Department's objectives Puerto Rico Housing (PRDOH) for CDBG-DR.

On behalf of PRDOH and the subrecipient, the Municipality of Hormigueros, we are submitting documentation for the proposed Juanita Arenas Theater Rehabilitation and Expansion Project. The full scope is described in the submitted documentation, which includes mapping, photographs, the design drawings for the proposed rehabilitation and expansion, as well as the lead-based paint and asbestos report. Based on the provided documentation, the Program requests a concurrence with a determination that "No Adverse Effect" to historic properties is appropriate for this undertaking. This is conditioned to the presence of an archaeological monitor during ground disturbance that will be caused by the proposed expansion of the front of the theater for the construction of the new lobby.

Please contact me by email at lauren.poche@horne.com or phone at 225-405-7676, or Ms. Sharon Meléndez Ortiz at sharon.melendez@hornepr.com. Thank you, and we look forward to your response.

Kindest regards,


Lauren Bair Poche

Architectural Historian, Historic Preservation Senior Manager
Enclosures

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Project Name: Juanita Arenas Theater Rehabilitation and Expansion		Project ID: PR-CRP-000508

6Project Location: Bo. Pueblo Calle Mateo Fajardo #9, Hormigueros PR 00660	
Project Coordinates: 18.13956, -67.12764	
TPID (Número de Catastro): 283-050-013-07 / 283-050-013-06	
Type of Undertaking: ☒ Substantial Repair ☐ New Construction	
Construction Date (AH est.): 1974	Property Size (acres): 0.1617

SOI-Qualified Architect/Architectural Historian: Maria F. Lopez Schmid, MAHP
Date Reviewed: May 12, 2022, Rev July 7, 2022
SOI-Qualified Archaeologist: Jesus E. Vega, Ph.D.
Date Reviewed: March 22, 2022, Rev July 7, 2022

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 Juanita Arenas Theater has operated since 1974 as a multi-purpose auditorium in the urban center of the Municipality of Hormigueros. The theater is located on Bo. Pueblo Calle Mateo Fajardo #9, near the intersection that connects the public square, the Catholic church, the town hall building, and several other government facilities. The Juanita Arenas Theater occupies an area of 654.38 m². In 2015, the municipality commissioned a restoration and improvement project to the theater, whose execution was impeded by economic obstacles despite having an approved construction permit.

The project proposes utilizing City Revitalization Program funds to rehabilitate the theater code, including an extension of the building towards the public sidewalk (without exceeding the parcel boundary) to create a lobby and a ticket booth at a low cost. The main function of this public facility is to serve the population of the Municipality of Hormigueros without any cost, offering a centralized space for school events, cultural activities, public and private meetings, job trainings, among other activities. Coordinated musical recitals, theatrical plays, and other cultural activities would be accessible to the general population at a low cost.

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As part of the rehabilitation work, it will be necessary to demolish windows and walls on the façade of the building, bathroom interiors, and part of the theater stage, among other areas. Currently, the roof has lost some components, including waterproofing. Gypsum and plycem walls will require replacement. Attention to corroded steel parts is important, as there was a loss of acoustic ceilings, metal doors and windows, and fluorescent luminaires. The exterior walls, covered with panels and scraps of "foam", also suffered loss of material and will be replaced. Air conditioning (AC) ducts have accumulated moisture and require cleaning or replacement. Additionally, the removal of asbestos and floor slabs is required. The theater seats are deteriorated and need to be replaced. The structure will be painted inside and out, including but not limited to the lobby, emergency exit, warehouse, sales area, waiting room, mechanical rooms, corridors, stairs, and bathrooms, among other areas. The lobby will house the control area and the light tracker focus.

The proposed design of these facilities contemplates adapting the project to the ADA code (Americans with Disabilities Act) to guarantee access and movement through the interior spaces for people with physical disabilities. A total of 214 seats and two wheelchair spaces are accommodated inside the theater. Existing equipment will be replaced by new equipment, as well as floor finishes, ceilings, furniture, among other materials. An existing basement level will be refurbished, and the floor finish will be replaced with a similar one.

The Municipality of Hormigueros will take advantage of the need to execute the improvements recommended by FEMA to carry out the restoration and improvement project originally conceived. Beyond the repairs to be subsidized with FEMA funds, improvements to be made under the CDBG-DR program include demolition and excavation, construction of a new entrance and indoor ticket office; construction of a lobby that includes structural steel, glassware, metal façade, roof, lighting, and floors; removal and replacement of patio canopy; construction of an exterior ramp on the front elevation; extension of concrete slab and scenario; construction of bleachers, electricity, air conditioning, plumbing, vinyl tiles hollow metal doors and jalousie windows; restitution of pavements, ceilings, curtaining, stagecraft system, theatrical lighting system, and sound system; repaint exterior walls, steel column, interior floor and walls; cleaning of theater velvet seats; removal of tile cement; rehabilitation of four bathrooms, an external staircase, a platform or lift, room lighting, fluorescent lamps, galvanized roof built up, gypsum boards, plycem walls, proscenium arch bars, skylights, pavements, carpets, acoustic coating, and signage.

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Area of Potential Effects

As defined in 36 CFR §800.16(d), the area of potential effects (APE) is the geographic area or areas within which an undertaking may directly or indirectly cause changes in the character or use of historic properties if any such properties exist. Based on this definition and the nature and scope of the Undertaking, the Program has determined that the direct APE for this project is limited to the Juana Arenas Theater building's footprint, including the area towards the public sidewalk, while the visual APE is the viewshed of the proposed project. The immediate context of the Juanita Arenas Theater is the urban setting of Hormigueros, the adjacent commercial and administrative buildings within this irregular shaped urban block, and the row of buildings to the front. These buildings have similar height and volume to the theater and create a cohesive town core. Single-family residential buildings lie to the north, west, and south, surrounding the town. Dense vegetation surrounds the outer portions of the town. The NRHP-listed church, Santuario Nuestra Señora de la Monserrate, can be seen past the Mateo Fajardo Street to the northwest of the theater.

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 is within a quarter-mile distance of nine recorded archaeological sites and/or NRHP listed/eligible historic properties. "No data" denotes no corresponding Institute of Puerto Rican Culture (IPRC), State Historic Preservation Office (SHPO), or National Register of Historic Places (NRHP) identification was found.

1. Santuario Nuestra Señora de la Monserrate; H-10 (HG0200001), 0.08 mi NE – Historic, small hermitage built in 1590 by local Girardo González in veneration of the Virgin Mary; officially and canonically declared a national sanctuary of Puerto Rico by Bishop Fernando de Valvidia y Mendoza in 1720; became the Parish of Our Lady of Monserrate on June 1, 1874, and Pope John Paul II elevated it to a basilica on May 19, 1998. Included in the National Register of Historic Places in 1975.
2. Casa de Hacienda Márquez; H-12 (HG0200007), 0.07 mi SW – Historic, rectangular two-story residence—the first level is made of masonry while the second level of wood, roofed with galvanized zinc—built toward the end of the 18th century for the

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services of the sugar hacienda with the upper floor serving as a home; from 1780 to the present, the residence has subsequently belonged to seven families, the family of José Marchani and Inés Menéndez being the first to inhabit the premises. Included in the National Register of Historic Places in 2015.

3. Casa Alcaldía o Ayuntamiento (HG0200014), 0.05 mi SW – Historic, town hall building.
4. Escuela Segundo Ruiz Belvis (HG0200020), 0.08 mi SE – Historic, school building inaugurated in 1919; named after the local abolitionist and revolutionary lawyer native to Hormigueros. Eligible to the National Register of Historic Places.
5. Casa de Peregrinos; Casa Parroquial; Casa de Romeros; H-11 (HG0200002), 0.10 mi NE – Historic, masonry structure with a gabled roof built as a rural hostel for pilgrims during the 17th century; presently serves as the residence of the parish priest. Eligible to the National Register of Historic Places.
6. Puente Mojica (HG0200017), 0.12 mi NW – Historic, bridge crossing over Quebrada de las Lajas; located on the northwest corner of the urban center of Hormigueros.
7. Plaza de Recreo de Hormigueros (No data), 0.03 mi N – Historic, town square. Eligible to the National Register of Historic Places.
8. Antigua Escuela Girardo González (No data), 0.17 mi SE – Historic, elementary school building constructed between 1952-53; part of the Open School Program of the Puerto Rico Department of Education.
9. Antiguo Cementerio Municipal (HG0200013), 0.25 mi SW – Historic, public cemetery built in 1866 as a replacement for the graveyard that existed to the west of Santuario Nuestra Señora de la Monserrate at the beginning of the 19th century.

There are seven cultural resource studies within a quarter-mile radius of the property:

1. Phase 1A, Escuela Superior Vocacional Segundo Ruiz Belvis (J. López Meléndez 2001), CAT-HG-01-03-01, Negative, 0.08 mi SE
2. Phase 1B, Escuela Superior Vocacional Segundo Ruiz Belvis (J. López Meléndez 2002), CAT-HG-02-03-04, Negative, 0.08 mi SE
3. Phase 1A, Estacionamiento Municipal y Plaza de Recreo (J. González Colón 2000), CAT-HG-01-03-02, Negative, 0.03 mi N
4. Nomination of Casa de Hacienda Márquez to the National Register of Historic Places (A. Pabón-Charneco, J. Marull Del Río, S. Gala & E. Albino Plugues 2015), 15000311, Positive, 0.07 mi SW
5. Nomination of Santuario Nuestra Señora de la Monserrate to the National Register of Historic Places (A. Dávila 1975), 75002134, Positive, 0.08 mi NE

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6. Casa Márquez: Historia de una Familia en Puerto Rico (M. Frances Gallart 2014), No data, Positive, 0.07 mi SW
7. Cementerios Antiguos de Puerto Rico (J. Mari Mut 2013), No data, Positive, 0.25 mi SW

The possibility of undocumented prehistoric and/or historic material deposits near or within the direct APE of this undertaking has been evaluated. For instance, in their island-wide, pioneering archaeological surveys sponsored by the New York Academy of Sciences, Froelich G. Rainey (1940) and Irving Rouse (1952) do not report any prehistoric sites for the Municipality of Hormigueros. In their Phase 1A-1B, Archaeological Reconnaissance of Five Tracts in the Río Guanajibo Basin, Puerto Rico for Garrow and Associates, Inc., Daniel T. Elliot and D. L. McWatters (1987) present an archaeological overview of Hormigueros in relation to proposed flood controls of the Río Guanajibo by the U.S. Army Corps of Engineers. Elliot and McWatters do not report any prehistoric archaeological sites north of Highway PR-2. The cultural sensitivity of the quarter-mile radius buffer appears to be limited to historic resources pertaining to the Hormigueros Traditional Urban Center. Thus, the information available indicates that there are no prehistoric archaeological sites reported within the direct APE or within the quarter-mile radius buffer of the proposed project location. On the other hand, the Juanita Arenas Theater is located in Urban Land (Ua) soil at the center of the Hormigueros Traditional Urban Center. The surrounding parcels have remained relatively unchanged since the construction of the theater, which supports the possibility of intact deposits within the direct APE related to the historic period occupation of Hormigueros. Overall, the direct APE is not considered sensitive for undocumented prehistoric sites, but potentially sensitive for historic material deposits.

The Juanita Arenas Theater was constructed in 1974 at the center of two adjacent parcels, #283-050-013-07 (south) and #283-050-013-06 (north), facing Mateo Fajardo Street. The principal entrance is located on the southeast end of the building. A secondary entrance on the other end leads to an alleyway that stretches toward the rear of the building, where a small staircase leads to an exit to the right and a larger staircase descends into a nearby shopping center to the left. There is also a narrower alleyway on the south side, next to the principal entrance, closed off by a gate. According to the aerial photography of the USGS Earth Explorer, the Juanita Arenas Theater is present on 1975 imagery, which is the earliest data available on the platform. On Google Earth Pro, the theater is visible between 1993 to the present year (the earliest available data from 1985 appears too blurry to distinguish individual buildings). The shopping center and adjoining staircase behind the theater are also visible in 1993. Vegetation has not varied throughout the years; it is limited to potted

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palm trees adorning the main façade and inside the alleyway on the north side. Given the available information, there is a substantial probability of finding remnants associated with earlier occupations, as the parcels have remained relatively unchanged throughout the years since the theater's inauguration in 1974. Additionally, 1930s aerial photography of the Hormigueros township shows another structure at the same location of the theater.



Figure 1. U.S. Geological Survey, 1975 Aerial Photograph (1:10,000), USGS Earth Explorer

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Figure 2. U.S. Geological Survey, 1993 Aerial Photograph, Google Earth Pro



Figure 3. U.S. Geological Survey, 2006 Aerial Photograph, Google Earth Pro

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Figure 4. U.S. Geological Survey, 2018 Aerial Photograph, Google Earth Pro

Identification of Historic Properties - Architecture

The Juanita Arenas Theater locates in the town of Hormigueros in the southwest region of the Commonwealth of Puerto Rico. The southwest region belonged to the Guaynia territory in the pre-Colombian era. Archaeological findings have established that there were tribes already settled in this area around 820 BC. The rivers that pass through this area are the Rosario River and the Guanajibo River. The Municipality of Hormigueros is divided into five neighborhoods (Guanajibo, Jaguitas, Lavadero, Benaverte, and Hormigueros) and the "Hormigueros Pueblo", the urban and administrative center. The Municipality of Hormigueros was founded in 1874 by Gerardo González when it separated judicially and administratively from the Municipality of San Germán. The town developed along what is now Route 343 and to the east, west, and south of the Santuario Nuestra Señora de la Monserrate (HG0200001), historic, small hermitage built in 1590 by local farmer Girardo González in veneration of the Virgin Mary that is a National Register property listed in 1975.

The immediate context of the Juanita Arenas Theater is the National Register eligible Traditional Urban Center of Hormigueros and the adjacent commercial and administrative buildings of similar height and volume. By the 1940s development of the town blocks along Route 343 already existed and was recorded in the USGS topographic map from 1939.

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According to the USGS topographic map from 1964, a previous building is indicated as existing at this location before the construction of the theater in 1974.

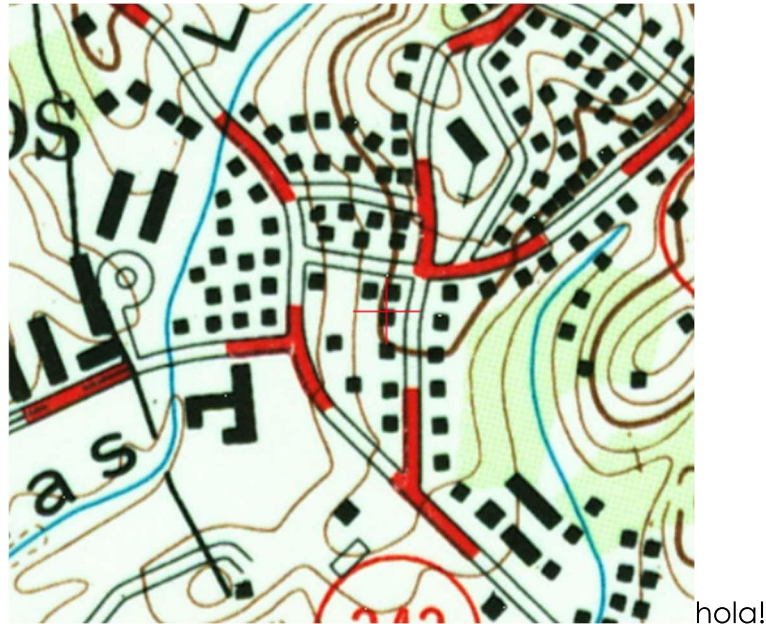


Figure 5. Detail of U.S. Geological Survey 1964, 1:20000, Topographic Quadrangle Map of Rosario, Puerto Rico

The theater is named after Juanita Arenas, who was a nurse, health educator, and notable public servant. During her career, she worked at the *Centro Médico Betances de Mayagüez*, the District Hospital of Aguadilla, the District Hospital of Ponce, and the Unit Hospital of San Germán-Sabana Grande. The theater named the “Centro de Servicios Múltiples Profesora Juanita Arenas” and was inaugurated in 1993 according to the inscription on the bronze plaque located in front of the theater. With a 244-seat capacity, the theater serves multiple social, educational, and recreational events. This building is equipped with a backstage area, stagecraft, dressing rooms, sound, and lighting systems.

Located on Mateo Fajardo Street, the façade is oriented to the east. The rectangular building measures approximately 69 by 56 feet with a 20 by 36 feet rear volume that houses the stagecraft equipment. The theater space is towards the left side of the building leaving auxiliary rooms, facilities, and access on the right side of the building. The façade is recessed from the other buildings on the street at either side, leaving an exterior space for

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congregation in front. This space contains park benches, A bronze plaque with concrete pedestal and a bust with pedestal honoring Mayor Melanio Bobé Acevedo is located in front of the theater on the right side. The building's south side patio is leveled with the sidewalk and enclosed with safety metal gates in front. The north side patio has multiple descending levels accessed by concrete steps that reach the rear of the property and an open terrace. The rear terrace has access to a portico supported by concrete columns that reach a set of wood double doors on the right-side of the building. A concrete fence with two tapered columns and pinnacles holds metal gates that define the rear entrance to the theater. An exterior concrete staircase descends past the gates to the south and to an adjacent shopping mall on San Antonio Street west of the block.

The Juanita Arenas Theater is a reinforced concrete building with a front gable corrugated metal roof that is concealed behind the façade's parapet. A rear concrete volume with concrete roof is double the height of the stage area for housing the stagecraft equipment. Three metal double doors on the right side of the façade (east) elevation serve as the main entrance to the theater accessed from Mateo Fajardo Street. The entrance doors are defined by a wall relief with simple pediment shape, the name "Juanita Arenas" is above the doors and the Hormigueros seal above it and centered on the pediment. A cornice runs below the pediment triangle interrupted in the center by the space that contains the seal and extends past the outer corners of the façade wall. Window openings on both sides of the entrance doors have metal rolling doors and wall sconces above. The right-side (north) elevation contains side access doors with canopies, metal jalousie windows, an A/C unit attached to the wall, and an added metal structure that holds additional A/C units above it. The left side (south) elevation contains metal jalousie windows but no access to the interior. The rear (west) elevation contains the stagecraft volume that is one-story taller than the front elevation. In the center, a pediment relief design is repeated with side cornices, and a diamond on a circle detail is recessed in the center. A set of three window openings are centered on the lower level flanked by square openings. The opening on the right, defines the rear entrance portico and, the one on the left contains a window.

The Juanita Arenas Theater was damaged from natural disasters. The building remains in its original location and setting within the urban fabric of the town center of Hormigueros. However, this building does not embody distinctive characteristics or methods of construction. Based on the architectural style of the façade's design and materials, they appear to have been altered after the time of construction in 1974. Most likely the façade was updated when the theater was reinaugurated in 1993 as the "Centro de Servicios Múltiples Profesora Juanita Arenas" as stated in the inscription on the existing bronze

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plaque in front of the theater. The building's massing, scale, materials, and pattern of fenestration has not changed significantly from the time of construction, although the mechanical A/C system has been retrofitted and units added on the north patio area. The materials are ubiquitous, and no significant workmanship of a particular decade is present on this design nor is it related to a particular place, neighborhood, or architectural style. This building **does not** fulfill the requirements of feeling, association, or special criteria considerations to merit its inclusion in the National Register of Historic Places. Therefore, the Juanita Arenas Theater **is not** a National Register-eligible building.

None of the following criteria considerations are associated with this building: A-Event, B-Person, C-Design & Construction. This building is not associated with any important events, practices, beliefs, trends, or traditional cultural values. The project is not associated with an individual, group or activities that were important within local, state, or national history. The building does not embody distinctive characteristics or methods of construction, it is not the work of a master, nor does it possess high artistic or historic value. For all these reasons this building **is not** eligible for inclusion in the NRHP based on criteria A, B, and C.

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 within the boundaries of the National Register of Historic Places (NRHP)-eligible/listed Hormigueros Traditional Urban Center. Also, the following NRHP-eligible/listed properties are located within a quarter mile of the building:

1. Santuario Nuestra Señora de la Monserrate y (75002134), 0.07 mi NE. Listed in the National Register of Historic Places in April 17, 1975. Historic, small hermitage built in 1590 by local Girardo González in veneration of the Virgin Mary; officially and canonically declared a national sanctuary of Puerto Rico by Bishop Fernando de Valdivia y Mendoza in 1720; became the Parish of Our Lady of Monserrate on June 1, 1874, and Pope John Paul II elevated it to a basilica on May 19, 1998.
2. Casa Márquez (Hacienda Valentina) (15000311) 0.12 mi SW. Listed in the National Register of Historic Places in June 1, 2015. Historic, rectangular two-story residence—the first level is made of masonry while the second level of wood, roofed with galvanized zinc built toward the end of the 18th century for the services of the sugar

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hacienda with the upper floor serving as a home; from 1780 to the present, the residence has subsequently belonged to seven families, the family of José Marchani and Inés Menéndez being the first to inhabit the premises.

3. Casa Alcaldía o Ayuntamiento, 0.05 mi S, a historic, town hall building. This building is eligible for National Register of Historic Places.
4. Escuela Segundo Ruiz Belvis, 0.08 mi NW, a historic, 20th century school building named after the abolitionist and revolutionary lawyer native of Hormigueros.
5. Casa de los Peregrinos; Casa Parroquial; Casa de Romeros, 0.10 mi NE, a historic, masonry structure with a gabled roof built as a rural hostel for pilgrims during the 17th century; presently serves as the residence of the parish priest. Listed in the National Register of Historic Places on April 17, 1975. This building is adjoining the Santuario Nuestra Señora de la Monserrate property.
6. Puente Mojica, 0.12 mi NW – a historic, bridge crossing over Quebrada de las Lajas; located on the NW corner of the urban center of Hormigueros. This structure is eligible for National Register of Historic Places.
7. Plaza de Recreo de Hormigueros, a NRHP-eligible property, 0.05 mi the historic plaza in the town center.
8. Antigua Escuela Girardo González (No data), 0.17 mi SE – Historic, elementary school building constructed between 1952-53; part of the Open School Program of the Puerto Rico Department of Education.
9. Antiguo Cementerio Municipal (HG0200013), 0.25 mi SW – Historic, public cemetery built in 1866 as a replacement for the graveyard that existed to the west of Santuario Nuestra Señora de la Monserrate at the beginning of the 19th century. This site is eligible for National Register of Historic Places.
10. The project is within the NRHP-eligible per the PR SHPO Hormigueros Traditional Urban Center, 0.12 mi northwest. According to some historians, in 1874 Hormigueros was founded officially and constituted as a town, on the recommendation of the Provincial Council.

Determination

The following historic properties have been identified within the APE:

- Direct Effect:
 - The property is located within the Hormigueros Traditional Urban Center. No archaeological sites and/or NRHP listed/eligible historic properties are reported within the direct APE.

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- Indirect Effect:
 - The property is located within the Hormigueros Traditional Urban Center. Santuario Nuestra Señora de la Monserrate y Casa de los Peregrinos o Casa Parroquial; H-10 (HG0200001) can be seen to the northeast, beyond the street intersection, from the viewshed of the proposed project. No other archaeological sites and/or NRHP listed/eligible historic properties are reported within the indirect APE.

In summary, the Juanita Arenas Theater is located within the Hormigueros Traditional Urban Center. The closest reported archaeological materials or significant cultural properties, associated with Plaza de Recreo de Hormigueros (No data), are located 0.03 miles (138.65 feet) north of the Juanita Arenas Theater. This historic property consists of the town square of the Municipality of Hormigueros, located on the other side of the intersection between Mateo Fajardo Street and PR-345 Road. There are no known archaeological sites or NRHP listed/eligible historic properties within or adjacent to the direct or indirect APE, as reported by the seven cultural resource studies conducted within a quarter-mile radius of the proposed project location. Additionally, the probability of undocumented prehistoric material deposits near or within the direct APE of this undertaking should be considered low given the information available. However, the Juanita Arenas Theater is surrounded by NRHP listed/eligible historic properties pertaining to the Hormigueros Traditional Urban Center. There is a substantial probability of finding remnants associated with earlier occupations and other associated historic materials as the parcels have remained relatively unchanged throughout the years since the theater's inauguration in 1974. Moreover, proposed rehabilitation activities include the expansion of the theater building toward the public sidewalk in order to create additional space for a lobby and a ticket booth, increasing the potential impact to cultural materials. This merits the presence of an SOI-Qualified Archaeological Monitor during rehabilitation, demolition, and construction activities. Therefore, no adverse effect to cultural properties is anticipated for this revitalization project. Archaeological monitoring is recommended.

Based on the results of our historic property identification efforts, the Program has determined that project actions **will not** adversely affect the historic properties that compose the Area of Potential Effect. The Santuario Nuestra Señora de la Monserrate can be seen from the building to the northeast, beyond the street intersection. The proposed façade design for the Juanita Arenas Theater stands out for its innovative contemporary design that is different from any building in the historic fabric of the Hormigueros Traditional Urban Center. With its exposed structure, drawn curtain, and pliable roof entrance, this theater building showcases a dramatic façade on par with its intended function. The proposed theater will be a distinctive building in Hormigueros that represents the current architectural aesthetics of early twenty-first century.

PUERTO RICO 2017 DISASTER RECOVERY, CDBG-DR PROGRAM CITY REVITALIZATION PROGRAM (CITY-REV) Section 106 NHPA Effect Determination		 GOVERNMENT OF PUERTO RICO DEPARTMENT OF HOUSING
Subrecipient: Municipio de Hormigueros		
Project Name: Juanita Arenas Theater Rehabilitation and Expansion		Project ID: PR-CRP-000508

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: Archaeological monitoring of proposed revitalization activities by an SOI-Qualified Archaeological Monitor is recommended due to (1) the proximity of NRHP listed/eligible historic properties pertaining to the Hormigueros Traditional Urban Center and (2) the potential impact to cultural properties caused by the proposed expansion of the theater building toward the public sidewalk.

☐ Adverse Effect

Proposed Resolution (if applicable)

This Section is to be Completed by SHPO Staff Only

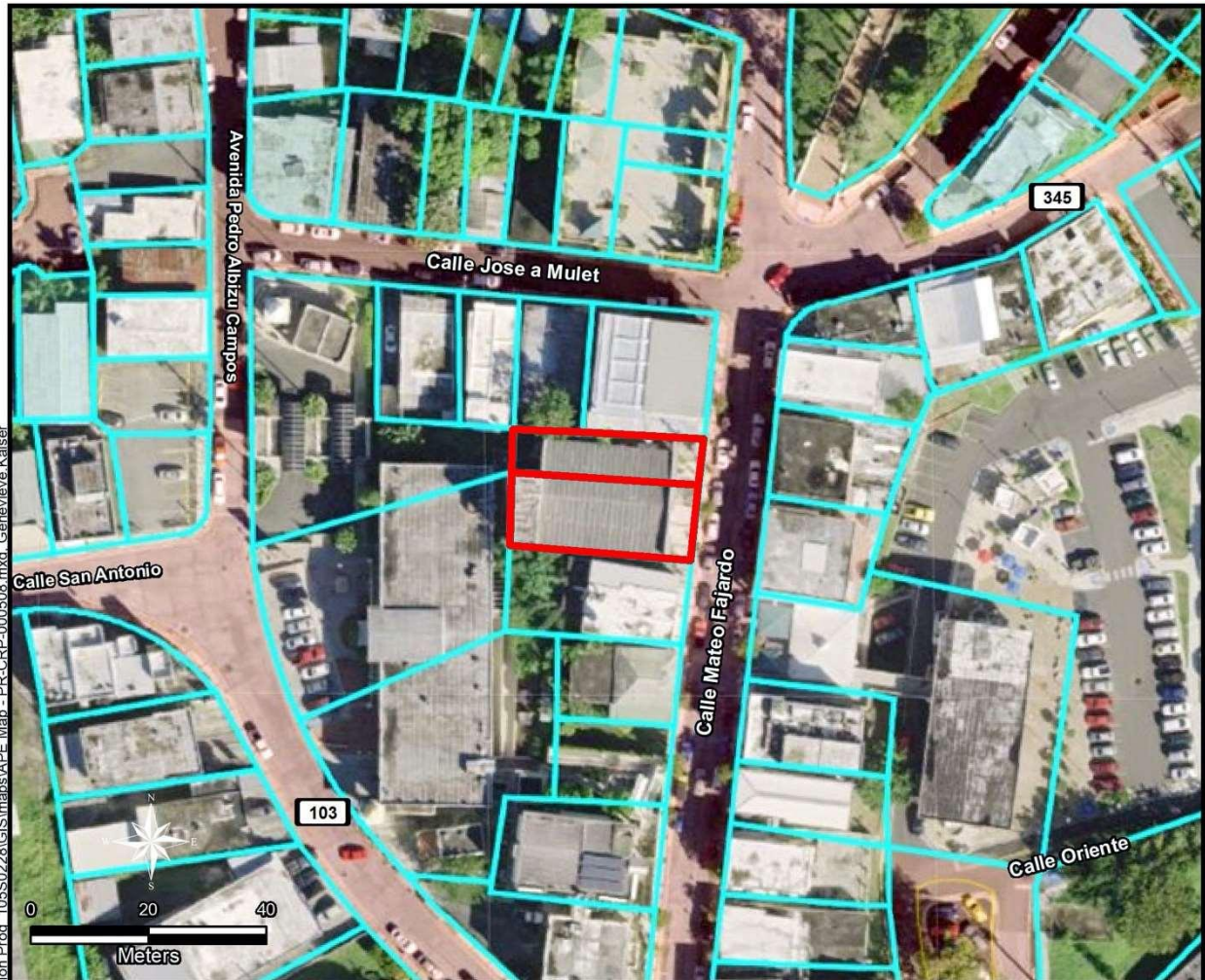
The Puerto Rico State Historic Preservation Office has reviewed the above information and:	
☐ Concurs with the information provided. ☐ Does not concur with the information provided.	
Comments:	
Carlos Rubio-Cancela State Historic Preservation Officer	Date:

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

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



TETRA TECH

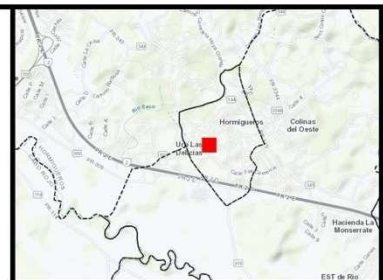
Source:

Legend



Area of Potential Effect

Parcels



Author: GK

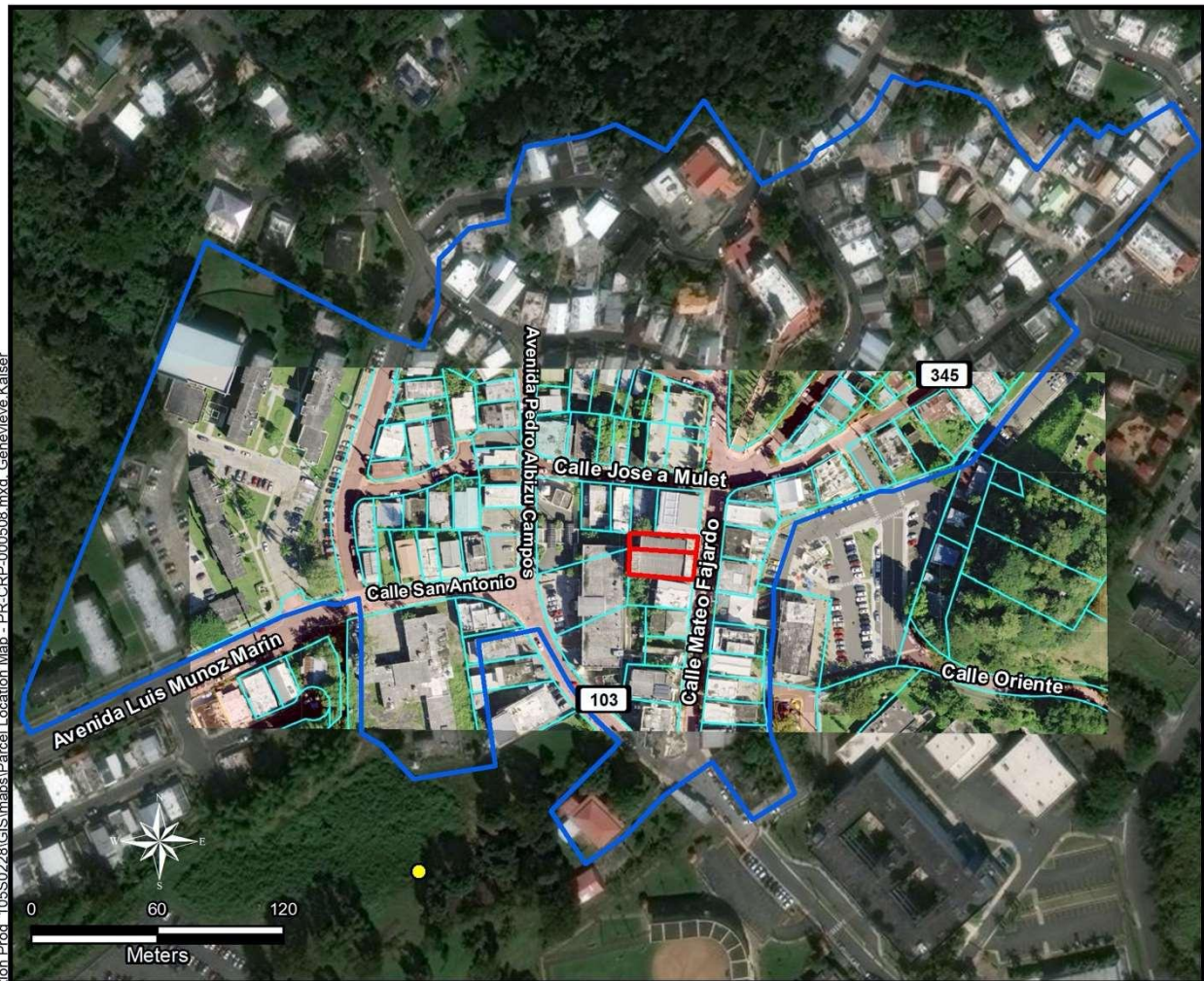
Date: 4/28/2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Project (Parcel) Location - Aerial Map

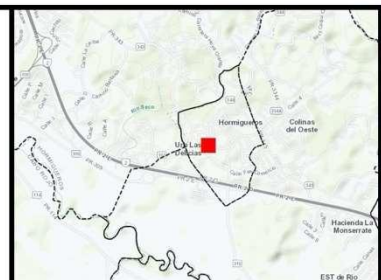


TETRA TECH

Source:

Legend

-  Cultural Resource Building Point
-  Parcel Location/ Tier 2 Site
-  Parcels
-  Traditional Urban Area



Author: GK

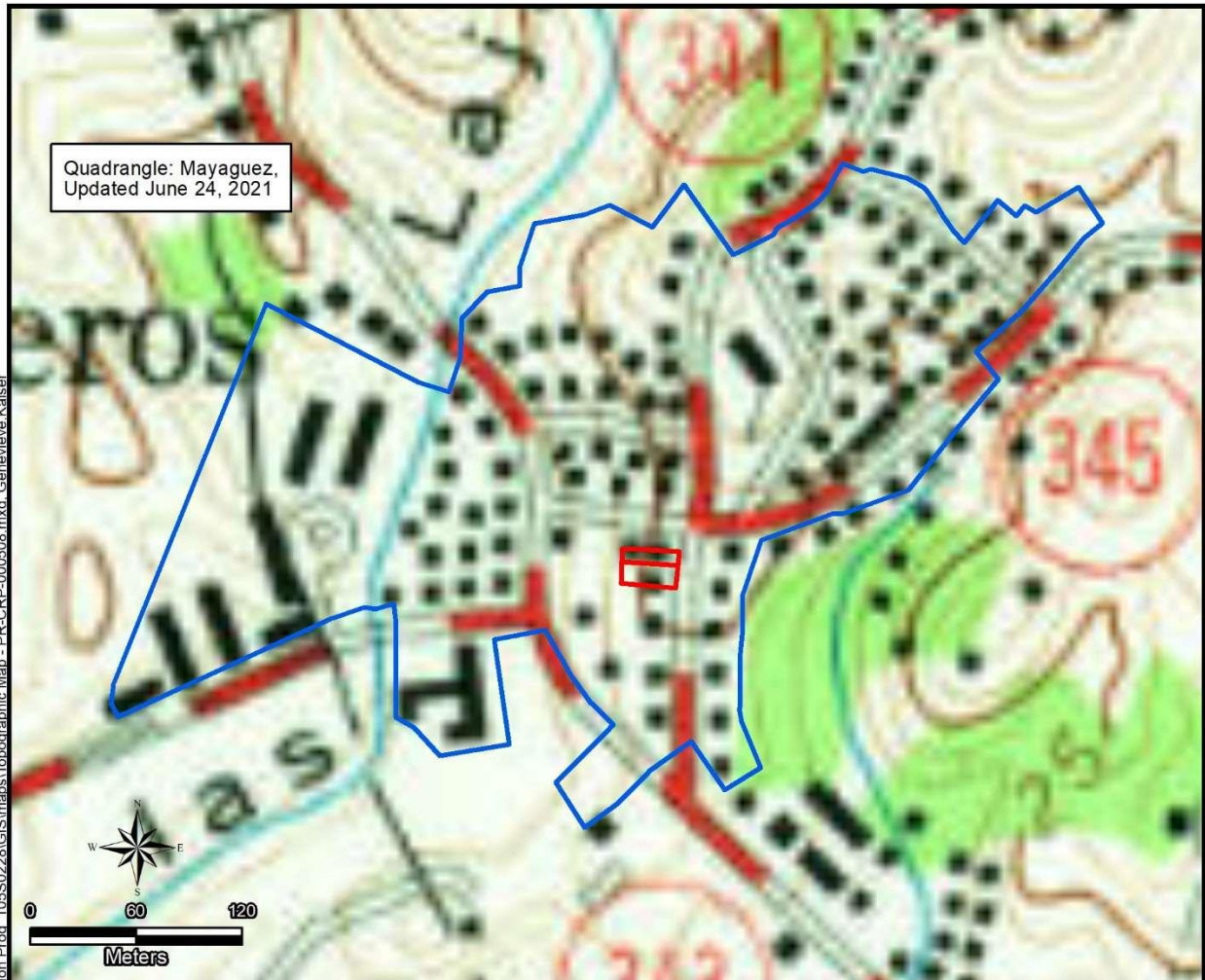
Date: 4/28/2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Project (Parcel) Location - USGS Topographic Map



TETRA TECH

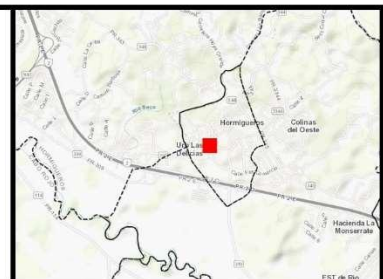
MODIFIED FROM COPYRIGHT ©
2013 NATIONAL GEOGRAPHIC
SOCIETY, I-CUBED

Author: GK

Date: 7/1/2022

Legend

- Area of Potential Effect
- Traditional Urban Area



C:\projects\TITDR - PRDOH City Revitalization Prod - 105S0228\GIS\maps\Topographic Map - PR-CRP-000508.mxd, Genevieve Kaiser

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Project (Parcel) Location – Soils Map



TETRA TECH

Source: U.S. Department of Agriculture
Natural Resources Conservation Service

Author: GK

Date: 7/1/2022

Legend

- Area of Potential Effect
- Parcels
- Traditional Urban Area
- Soil Type**
- Ua=Urban land

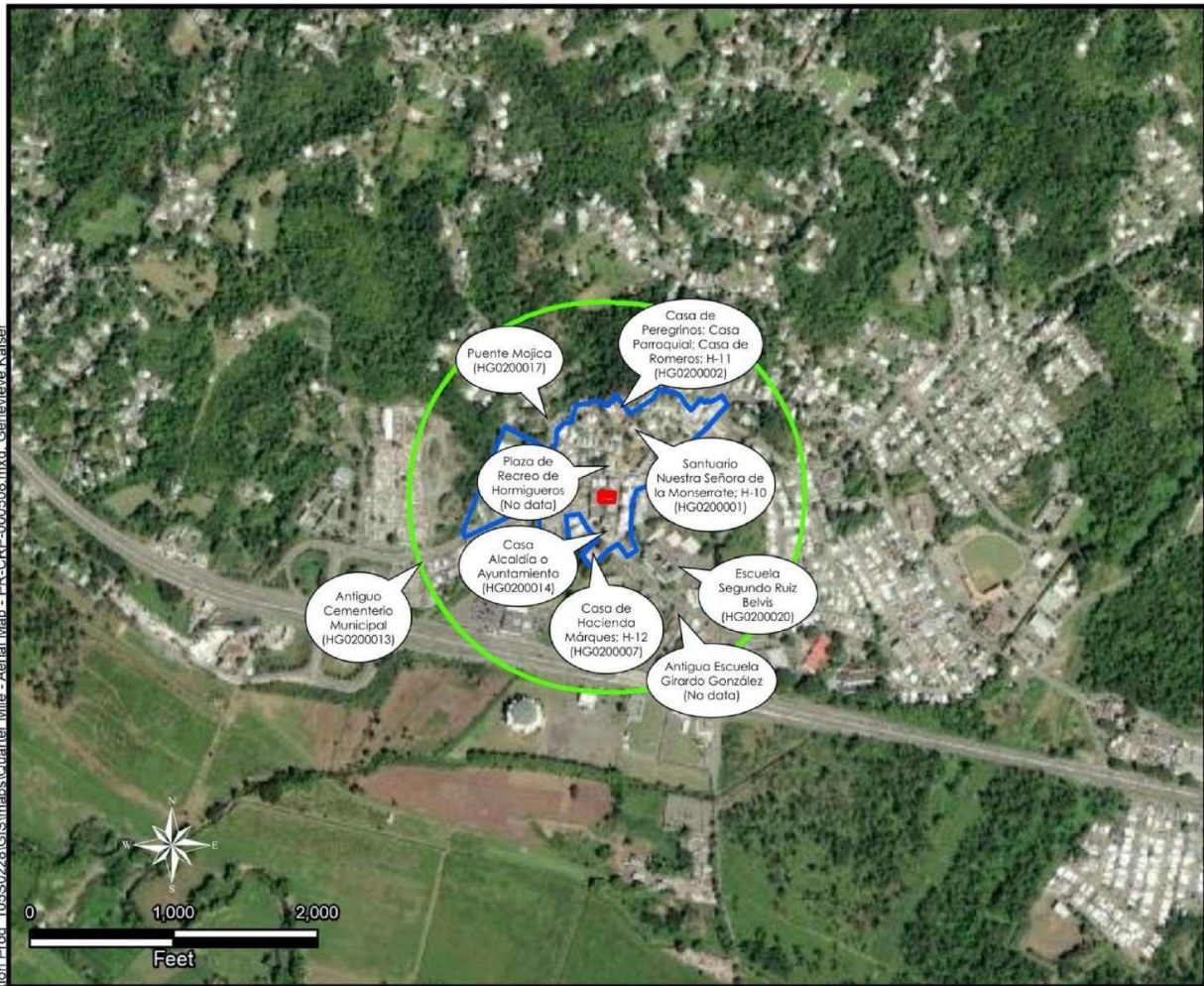


Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Project (Parcel) Location with Recorded Cultural Resources - Aerial Map



TETRA TECH

MODIFIED FROM SOURCE:
ESRI, MAXAR, GEOEYE,
EARTHSTAR GEOGRAPHICS,
CNES/AIRBUS DS, USDA, USGS,
AEROGRIID, IGN, AND THE GIS
USER COMMUNITY

Author: GK

Date: 7/1/2022

Legend

- Area of Potential Effect
- Quarter Mile Buffer
- Traditional Urban Area



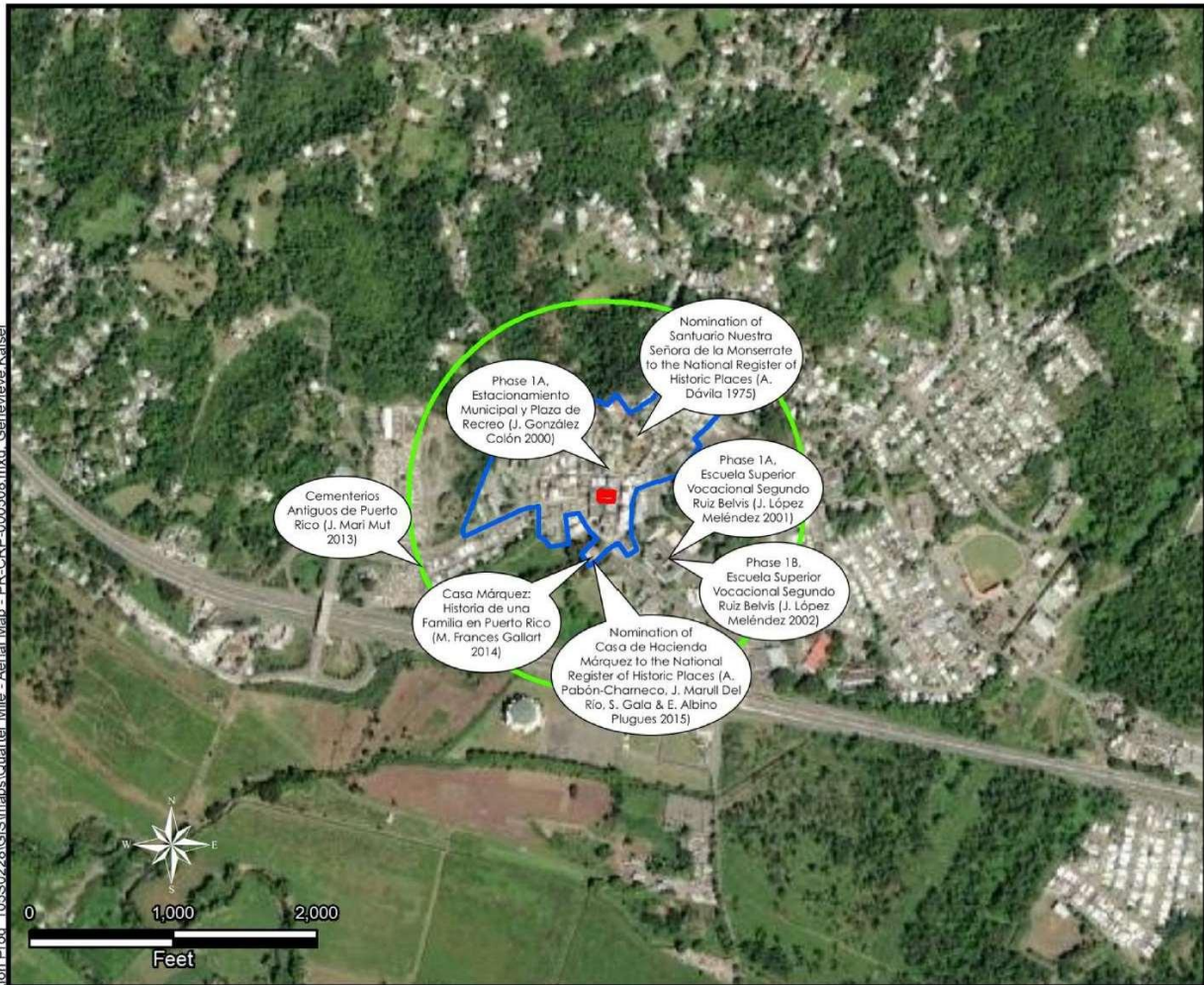
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Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Project (Parcel) Location with Previous Investigations - Aerial Map



TETRA TECH

MODIFIED FROM SOURCE:
ESRI, MAXAR, GEOEYE,
EARTHSTAR GEOGRAPHICS,
CNES/AIRBUS DS, USDA, USGS,
AEROGRIID, IGN, AND THE GIS
USER COMMUNITY

Author: GK

Date: 7/1/2022

Legend

- Area of Potential Effect
- Quarter Mile Buffer
- Traditional Urban Area



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Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

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



TETRA TECH

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2013 NATIONAL GEOGRAPHIC
SOCIETY, I-CUBED

Author: GK

Date: 7/1/2022

Legend

- Area of Potential Effect
- Quarter Mile Buffer
- Traditional Urban Area

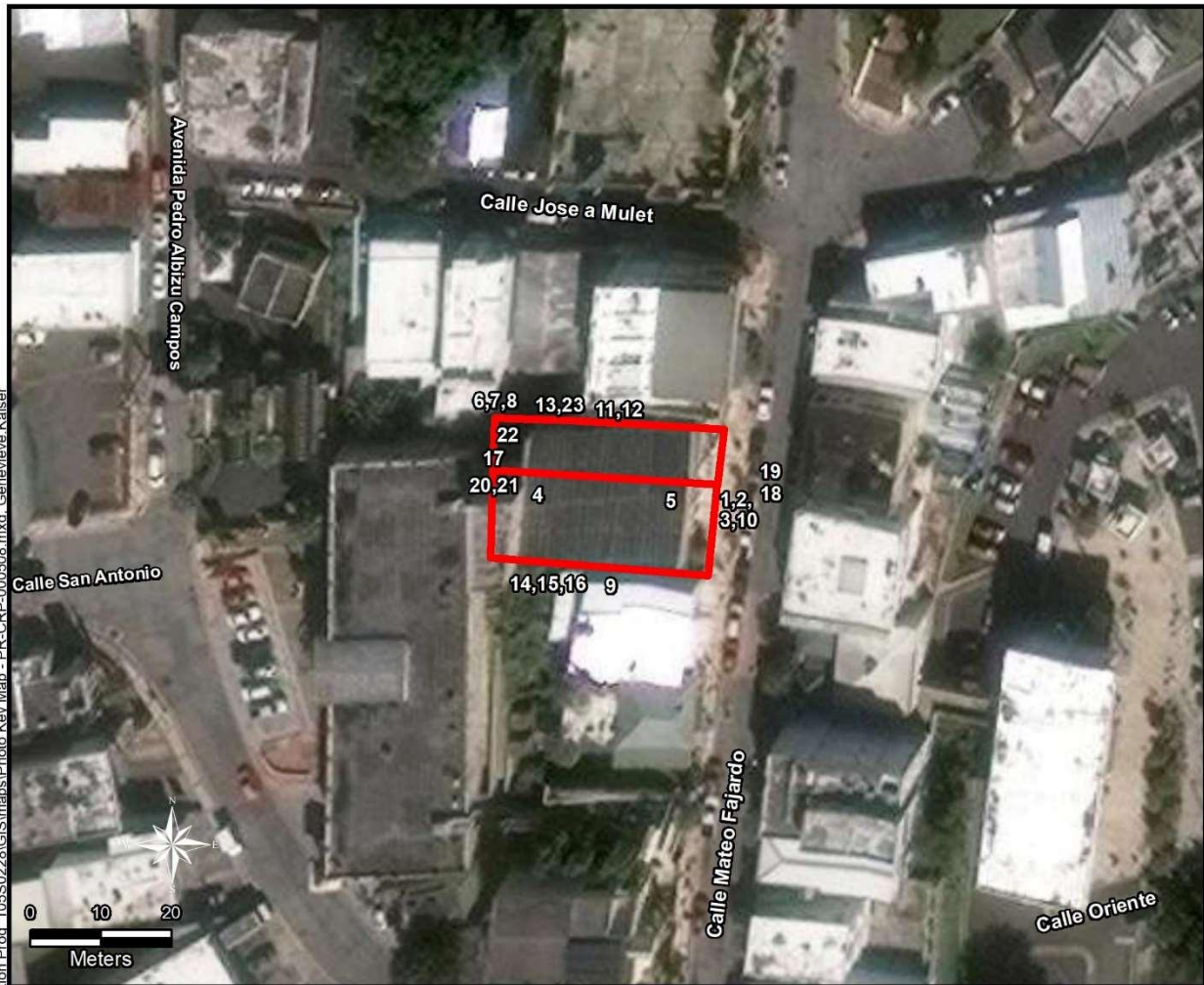


Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

Photograph Key



TETRA TECH

Source:

Legend



Area of Potential Effect



Author: GK

Date: 7/8/2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 1

Description (include direction): Juanita Arenas Theater, front view (Northwest)

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 2

Date: 03/ 2022

Description (include direction): Urban location facing Mateo Fajardo Street. Front façade recedes from the prevailing urban alignment. New project will grant new frontage to the theater by including a much-needed entrance lobby and ticket booth. (Northwest)

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

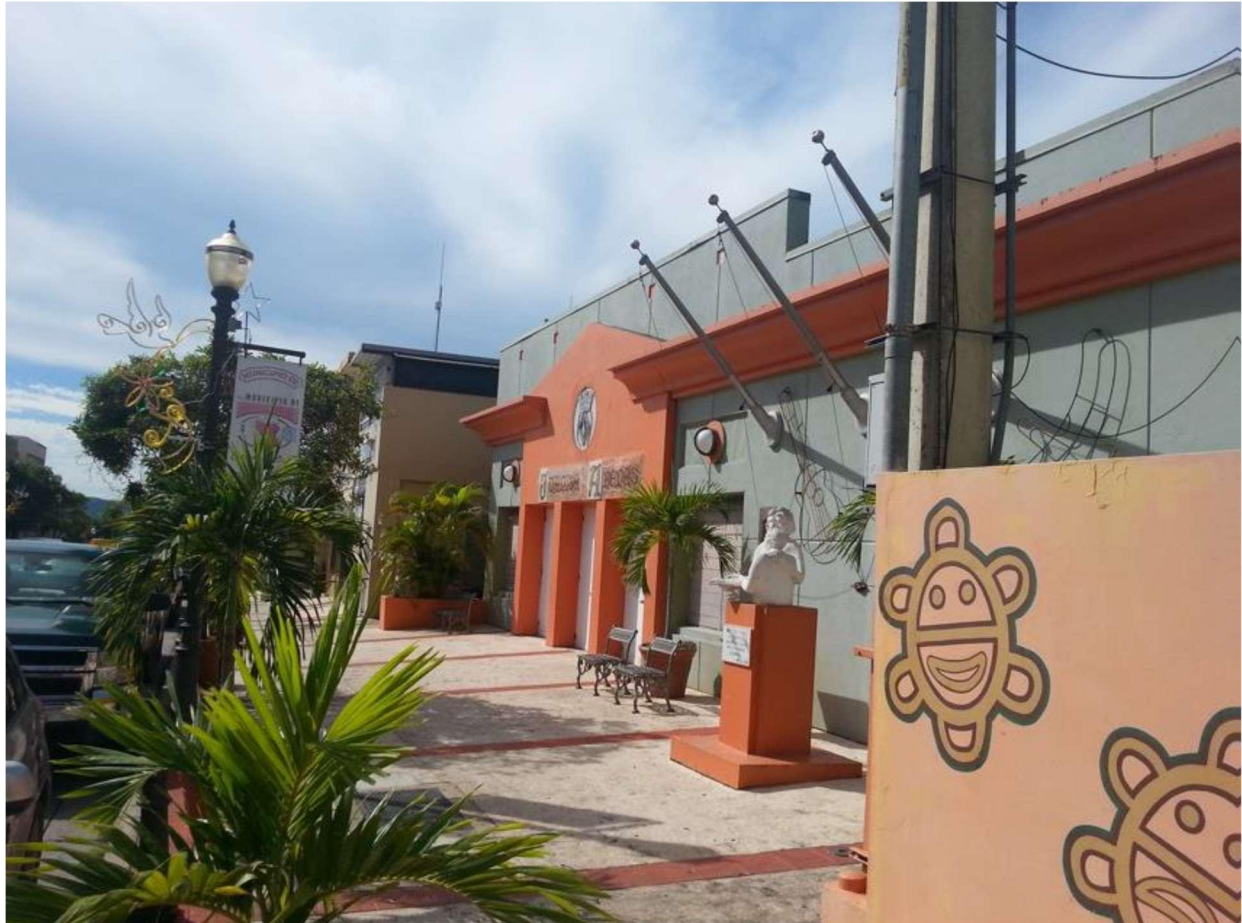


Photo #: 3

Date: 03/ 2022

Description (include direction): Façade finish and details in Dryvit suffered extensive hurricane damage. They will be replaced with substitute resilient material. (Southwest)

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 4

Date: 03/ 2022

Description (include direction): Inside view of theater towards stage before hurricanes *Irma* and *María* hit Puerto Rico. Afterwards, seats, drywall, paint, ceilings, lighting, finishes, and sound equipment were damaged. (West)

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

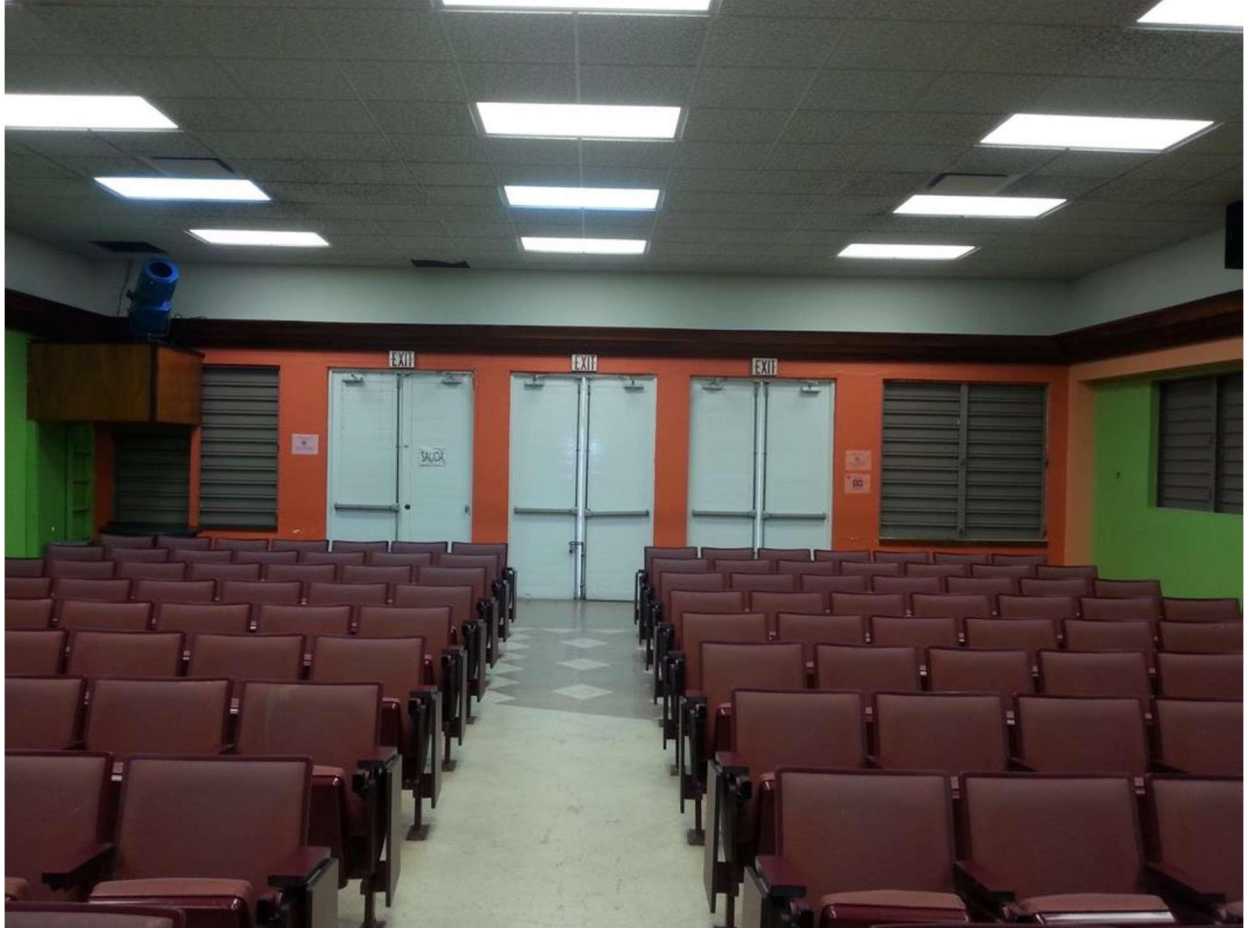


Photo #: 5

Date: 03/ 2022

Description (include direction): Inside view of theater towards entrance doors before Irma and María hit Puerto Rico. Doors, windows, flooring, seats, drywall surfaces, paint, ceilings, lighting, and windows, were damaged. (East)

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 6

Date: 03/ 2022

Description (include direction): Arrival space of access alley (North) at West end of property. It allows access to the lower level of the theater and connects to an outdoor stair that leads to the adjoining shopping center. Extensive humidity has affected the cement stucco.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 7

Date: 03/ 2022

Description (include direction): At access alley (North), hurricane damage accelerates corrosion of steel supports for A/C. Aluminum facias and roof will be resealed to avoid water infiltration problem created by the hurricanes.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 8

Description (include direction): Arrival space of access alley (North) at west end of property. Alley stair appears at right. To the left, an outdoor stair leads to the adjoining shopping center.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 9

Description (include direction): Outdoor stair that, parallel to the theater, leads to the adjoining shopping center. (South)

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 10

Description (include direction):

Main façade facing east.

Photo looking west.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 11

Description (include direction):

Right elevation facing north.

Photo looking west.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 12

Description (include direction):

Right elevation facing north.

Date: 03/ 2022

Photo looking west.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 13

Description (include direction):

Right elevation facing north.

Date: 03/ 2022

Photo looking southeast.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 14

Description (include direction):

Left elevation facing south

Date: 03/ 2022

Photo looking northwest.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 15

Description (include direction):

Left elevation facing south

Photo looking northwest.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

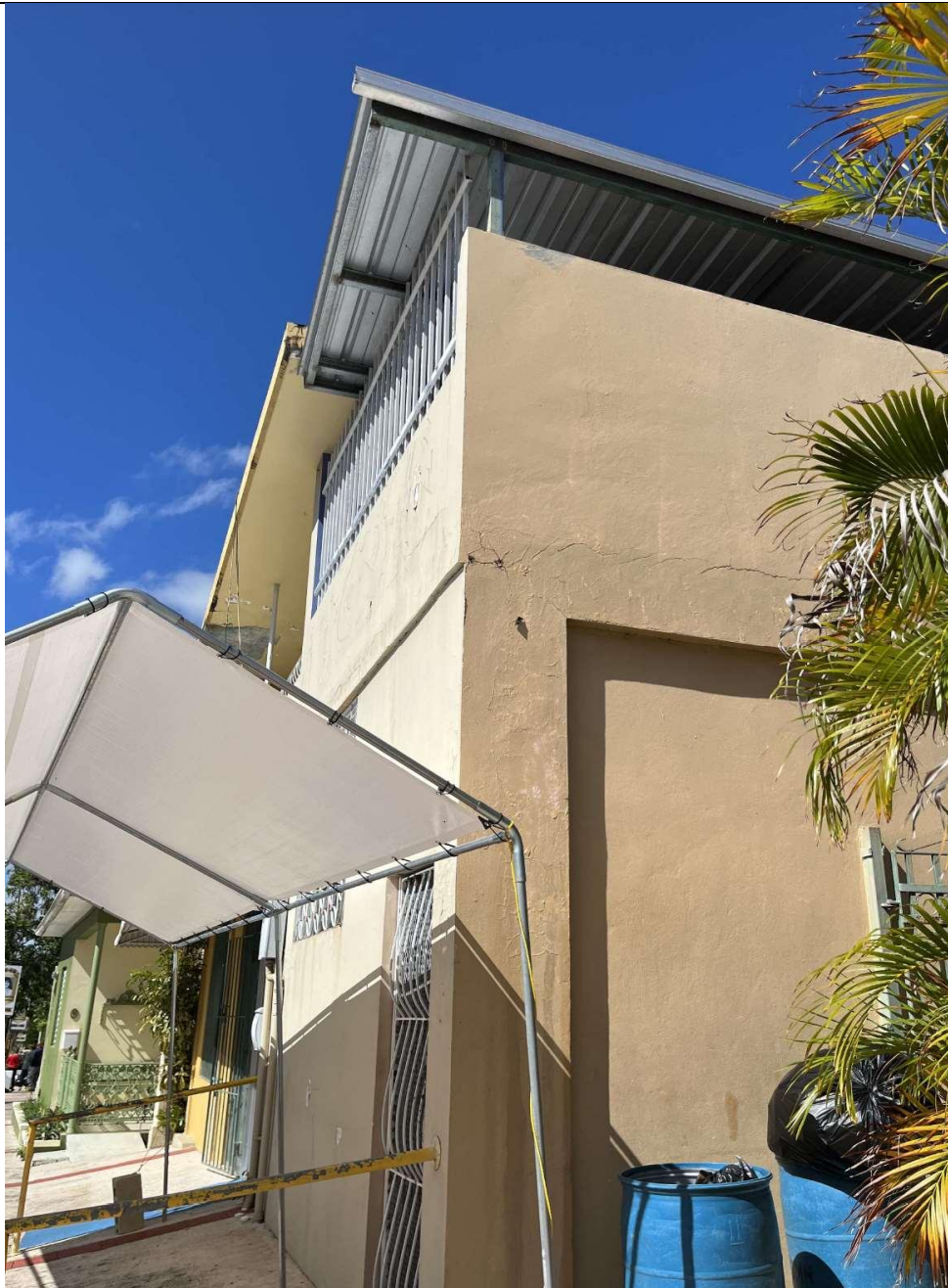


Photo #: 16

Description (include direction):

Left side facing out.

Date: 03/ 2022

Photo looking southwest.

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

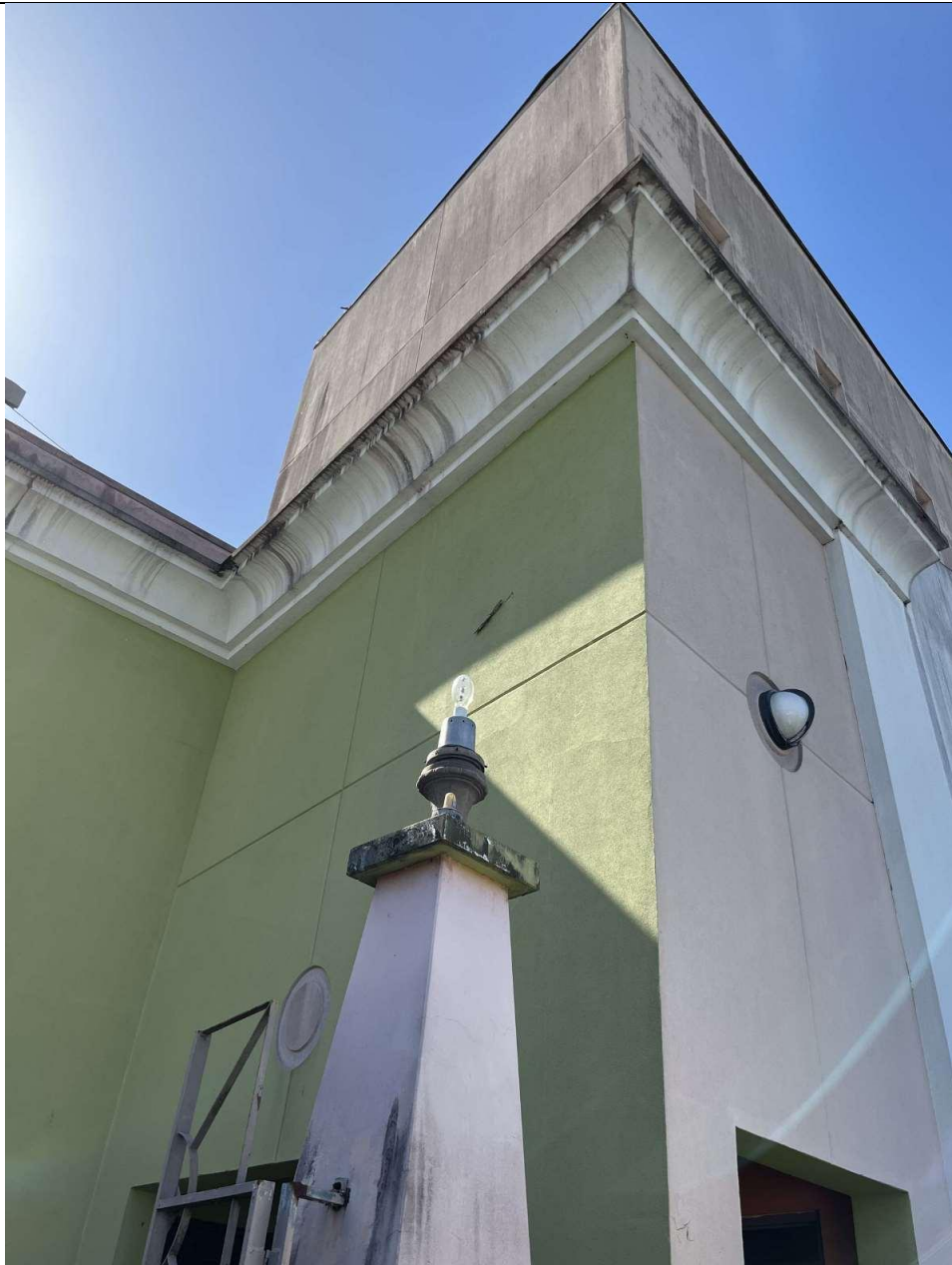


Photo #: 17

Description (include direction):

Rear elevation facing west #2.

Photo looking southeast.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 18

Description (include direction):

Street view looking north.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 19

Description (include direction):

Street view looking south.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 20

Description (include direction):

Rear elevation looking out.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 21

Description (include direction):

Rear elevation looking out.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508



Photo #: 22

Description (include direction):

Rear right looking out.

Date: 03/ 2022

Subrecipient: Municipio de Hormigueros

Project Name: Juanita Arenas Theater Rehabilitation and Expansion

Project ID: PR-CRP-000508

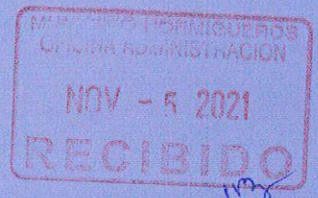


Photo #: 23

Description (include direction):

Right side looking out.

Date: 03/ 2022



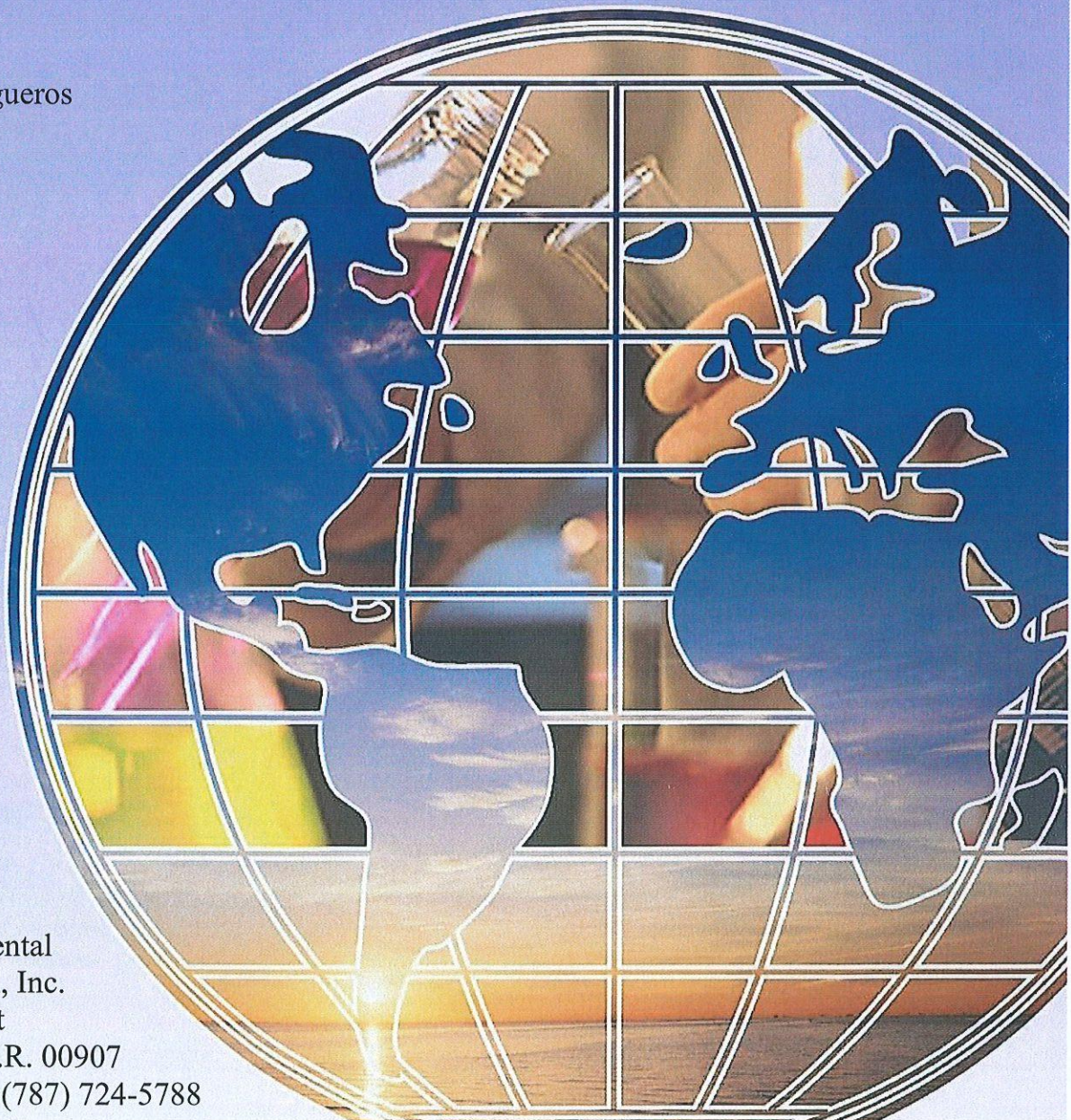
**ENVIRONMENTAL SURVEY
FOR
LEAD BASED PAINT (LBP)
AND
ASBESTOS CONTAINING MATERIALS (ACM)
FOR
JUANITA ARENAS THEATER
HORMIGUEROS, PUERTO RICO**

Prepared For:
Municipio de Hormigueros

October 2021

Prepared By:

Analytical Environmental
Services International, Inc.
611 Monserrate Street
2nd Floor, Santurce, P.R. 00907
(787) 722-0220 / Fax (787) 724-5788





LEAD



TABLE OF CONTENTS

I. SUMMARY

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2.0 TESTING PROCEDURES

3.0 LEAD BASED PAINT TESTING METHODOLOGY

4.0 RESULTS

5.0 CONCLUSIONS

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APPENDIX II - XRF and Laboratory Data

APPENDIX III - Selective photos of LBP components

APPENDIX IV - Floor Plans with Functional Spaces and
Distribution of LBP components

I. SUMMARY

An environmental survey for Lead Based Painted (LBP) Components was conducted by AES International for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The LBP investigation was conducted 10/8/2021 by Anthony Rivera, a DRNA certified lead inspector. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 2012.

The following components were found to be positive for LBP:

Basement

Storage 203

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Men Bathroom

Urinal	Ceramic	White	1 unit
--------	---------	-------	--------

1st Floor

Bathroom 108

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Bathroom 109

Sink	Ceramic	White	1 unit
------	---------	-------	--------

Exterior

Commemorative Plaque	Metal	Brown	2 units
----------------------	-------	-------	---------

If remodeling/demolition activities will be conducted in the nearest future, it is required to remove all LBP materials prior to performance of said activities.

1.0 INTRODUCTION

An environmental survey for Lead Based Painted (LBP) Components was conducted by AES International for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The LBP investigation was conducted on 10/8/21 by Anthony Rivera, an DRNA certified lead inspector. The survey, performed with an XRF instrument manufactured by Heuresis, Model Pb200i, was conducted using HUD protocol of 1997, revised in 2012. The results are presented herein.

2.0 TESTING PROCEDURES

The testing was performed with an XRF instrument manufactured by Heuresis, Model Pb200i (serial #2385). The selected mode allows reference to the abatement level set at 1.0 mg/cm². The results are reported at 95% confidence levels.

3.0 LEAD BASED PAINT TESTING METHODOLOGY

The hazard level of lead in paint has been determined by the department of Housing & Urban development as 1.0 mg/cm², as measured by XRF, or AAS (Atomic Absorption Spectroscopy), or 0.5% by weight (or 5000 ppm) as measured by AAS, or Inductive Coupled Plasma (ICP). The same level was adopted by EPA regulations published in 1992, under Title X.

The only lead-based paint testing protocol officially available at this time was published by HUD initially in 1990, revised in 1991 and finalized in 1995 (see above HUD reference). A revised chapter 7 was published in 1997 and finalized in 2012. In accordance to the new protocol, almost all surfaces present in the units have to be tested. The above guidelines were used to perform lead based-paint testing for this project.

The main steps involved in a multi-family inspection are:

1. Perform inventory of all testing combinations
2. Select painted area to be tested
3. Perform XRF testing (including calibration checks)
4. Collect and analyze paint chip samples, for inconclusive results.
5. Classify XRF and paint chips results
6. Review and evaluate the data
7. Report findings

AES International personnel classify each XRF lead reading as positive, negative, or inconclusive. This classification is based on manufacturer XRF performance characteristic sheet (PCS), for each substrate. Samples and/or additional readings are taken from inconclusive areas.

Calibration verification of the instrument was performed prior to beginning of daily task, when the instrument was turned on, and at the end of the day. The verification was conducted on a NIST standard of 1.0 mg/cm². Acceptance criteria used was ± 0.3 mg/cm². The data for calibration verification is attached in Appendix II.

The structure was divided in room equivalents and labeled accordingly (see Appendix II). One testing combination of similar components and four walls were tested for each room equivalent.

The identification of tested walls is based on HUD guidelines as follow:

Wall A-entrance wall

Walls B, C, and D-sequential walls, clockwise from A.

At the completion of the testing, ten (10) surfaces were retested as to assess precision of the testing. Statistical calculations performed on test-retest results suggest that the results are within the tolerance limits and therefore acceptable.

4.0 RESULTS

4.1 Results of XRF inspection

The results of the tested components are shown in Appendix II. One hundred and eighty-seven (187) XRF readings were taken (see also summary). The exact distribution of the positive components is summarized in Table 1. Pictures of selective positive components are shown in Appendix III. A floor plan with distribution of LBP components is also shown (see Appendix IV).

5.0 CONCLUSIONS

An LBP survey was conducted for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, P.R. LBP components were detected. Some painted surfaces may contain levels of lead below 1.0 mg/cm², which could create lead dust, or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

This report shall be kept by the owner and all future owners for the life of the buildings. A copy of the relevant report shall be given to each tenant, buyer or lessor, as to comply with federal requirements for disclosure under lead disclosure rule of 1996 (see also section 1018 of Title X). Reported results are valid for the day of testing indicated in the reports. According to DNRA the LBP study is valid for a period of five years.

The LBP survey relates to surfaces accessible and not covered by rigid barriers. Should any hidden surfaces or components be present, they must be assumed to be painted with LBP.



Anthony Rivera, DRNA Lead Inspector
Lic#: LBPI-02320-009

Table 1. Summary of LBP Positive Components at Juanita Arenas Theater in Hormigueros, Puerto Rico.

Structure	Room	Components	Substrate	Color	Quantity
<u>Juanita Arenas Theater</u>					
Basement					
	Storage 203	Sink	Ceramic	White	1 unit
	Men Bathroom	Urinal	Ceramic	White	1 unit
1st Floor					
	Bathroom 108	Sink	Ceramic	White	1 unit
	Bathroom 109	Sink	Ceramic	White	1 unit
Exterior					
	Commemorative Plaque		Metal	Brown	2 units

Appendix I





AIHA

Laboratory Accreditation
Programs, LLC

AIHA Laboratory Accreditation Programs, LLC

acknowledges that

Analytical Environmental Services International, Inc.

611 Monserrate St. Suite 2 Santurce, PR 00907

Laboratory ID: LAP-102702

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2017 international standard, General Requirements for the Competence of Testing and Calibration Laboratories in the following:

LABORATORY ACCREDITATION PROGRAMS

☒	INDUSTRIAL HYGIENE	Accreditation Expires: February 01, 2023
☒	ENVIRONMENTAL LEAD	Accreditation Expires: February 01, 2023
☐	ENVIRONMENTAL MICROBIOLOGY	Accreditation Expires:
☐	FOOD	Accreditation Expires:
☐	UNIQUE SCOPES	Accreditation Expires:

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2017 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Cheryl O. Morton

Cheryl O Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 19: 09/01/2020

Date Issued: 02/28/2021



GOBIERNO DE PUERTO RICO

Departamento de Recursos Naturales y Ambientales

Este certificado es otorgado a:

Analytical Environmental Services International

Por haber cumplido con los requisitos establecidos en el Capítulo VI, Regla 126 del Reglamento para el Manejo Adecuado de Actividades de Pintura con Base de Plomo. Se le otorga esta certificación como **Empresa** para llevar a cabo actividades de Mitigación Pintura con base de plomo en la jurisdicción de Puerto Rico.

Número de Certificado

LBPF-04321-010

Fecha de emisión: Abril 6, 2021

Fecha de Expiración: Abril 5, 2022



José Roque Juliá

Jefe

División Desperdicios Tóxicos

Lead Inspector Credentials

CERTIFICACIÓN PLOMO PUERTO RICO



Esta tarjeta autoriza a:
Anthony Rivera Eaves
Para realizar actividades relacionadas a
Mitigación de Pintura con Base de Plomo

Disciplina: **Inspector**
Fecha de Expiración: Dic. 8, 2021

Certificación #:
LBPI-34420-316



Firma Autorizada
Departamento de Recursos Naturales y
Ambientales

Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Municipio de Hormigueros

Project Name: Teatro Juanita Arenas

Address: Hormigueros, Puerto Rico

Date: 10/8/21

Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
1					Calibration	0.9	
2					Calibration	0.8	
3					Calibration	0.8	
4	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall A	0.0	
5	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column A	0.1	
6	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall B	0.1	
7	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column B	0.0	
8	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Wall Column B	0.1	
9	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall C	0.0	
10	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Orange	Lower Wall C	0.1	
11	Juanita Arena Theater 1st Floor	Auditorium	Concrete	Green	Wall D	0.1	
12	Juanita Arena Theater 1st Floor	Auditorium	Metal	Green	Light Box Support	0.0	
13	Juanita Arena Theater 1st Floor	Auditorium	Metal	Orange	Light Box Support	0.1	
14	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall A	0.0	
15	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall B	0.1	

Approved By: Ady Padan Ph.D.

Date: 10/8/2021

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET							
Client Name: <u>Municipio de Hormigueros</u>		Date: 10/8/21					
Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>					
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>					
Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
16	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall C	0.0	
17	Juanita Arena Theater 1st Floor	Theater stage	Concrete	Black	Wall D	0.0	
18	Juanita Arena Theater 1st Floor	Theater stage	Plastic	Green	Stairs Step A	0.1	
19	Juanita Arena Theater 1st Floor	Theater stage	Plastic	Green	Stairs Step B	0.0	
20	Juanita Arena Theater 1st Floor	Equipment	Plastic	Green	Stairs Step C	0.1	
21	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall A	0.0	
22	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall B	0.1	
23	Juanita Arena Theater 1st Floor	Equipment	Gypsum	Black	Wall C	0.0	
24	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Wall D	0.0	
25	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Door Frame	0.1	
26	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Door	0.0	
27	Juanita Arena Theater 1st Floor	Equipment	Wood	Black	Ceiling	0.0	
28	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall A	0.0	
29	Juanita Arena Theater 1st Floor	Hallway	Concrete	Cream	Wall B	0.1	
30	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall C	0.0	

Approved By: **Ady Padan Ph.D.**

Date: **10/8/2021**

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: <u>Municipio de Hormigueros</u> Project Name: <u>Teatro Juanita Arenas</u> Address: <u>Hormigueros, Puerto Rico</u>		Date: <u>10/8/21</u> Inspector: <u>Anthony Rivera</u> XRF Serial No.: <u>2385</u>					
Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
31	Juanita Arena Theater 1st Floor	Hallway	Concrete	Green	Wall D	0.1	
32	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall A	0.0	
33	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall B	0.1	
34	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall C	0.0	
35	Juanita Arena Theater 1st Floor	Bathroom 109	Concrete	Cream	Wall D	0.0	
36	Juanita Arena Theater 1st Floor	Bathroom 109	Ceramic	White	Sink	18.6	
37	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall A	0.0	
38	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall A	0.1	
39	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall B	0.3	
40	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall B	0.0	
41	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall C	0.1	
42	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall C	0.0	
43	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	White	Upper Wall D	0.4	
44	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Lower Wall D	0.0	
45	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Concrete	Gray	Shower Floor	0.0	

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Date: **10/8/2021**

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611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Municipio de Hormigueros

Project Name: Teatro Juanita Arenas

Address: Hormigueros, Puerto Rico

Date: 10/8/21

Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
46	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	Grey	Dike	0.0	
47	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	Grey	Baseboard	0.3	
48	Juanita Arena Theater 1st Floor	Bathroom Shower 109	Ceramic	White	Toilet	0.3	
49	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall A	0.0	
50	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall B	0.1	
51	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall C	0.0	
52	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	Yellow	Wall D	0.0	
53	Juanita Arena Theater 1st Floor	Bathroom 108	Ceramic	White	Sink	21.2	
54	Juanita Arena Theater 1st Floor	Bathroom 108	Concrete	White	Upper Wall A	0.0	
55	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Lower Wall A	0.0	
56	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Concrete	Cream	Upper Wall B	0.1	
57	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Lower Wall B	0.0	
58	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Upper Wall C	0.0	
59	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Concrete	White	Lower Wall C	0.3	
60	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Cream	Upper Wall D	0.1	

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ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.
611 Monserrate Street, 2nd. Floor, Santurce, P. R. 00907

LEAD BASED PAINT TESTING DATA SHEET

Client Name: Municipio de Hormigueros
Project Name: Teatro Juanita Arenas
Address: Hormigueros, Puerto Rico

Date: 10/8/21
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XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
61	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Lower Wall D	0.0	
62	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Grey	Bathroom Tile	0.0	
63	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Grey	Dike	0.1	
64	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	Black	Lower Wall B	0.0	
65	Juanita Arena Theater 1st Floor	Bathroom Shower 108	Ceramic	White	Toilet	0.0	
66	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Orange	Wall B	0.0	
67	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Grey	Wall C	0.1	
68	Juanita Arena Theater 1st Floor	Elevator Box	Concrete	Orange	Wall D	0.0	
69	Juanita Arena Theater 1st Floor	Elevator Box	Metal	Grey	Elevator Box	0.3	
70	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall B	0.0	
71	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall C	0.1	
72	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Wall D	0.0	
73	Juanita Arena Theater 1st Floor	Staircase House	Wood	Cream	Ceiling	0.0	
74	Juanita Arena Theater 1st Floor	Staircase House	Plastic	Green	Tread	0.1	
75	Juanita Arena Theater 1st Floor	Staircase House	Metal	Green	Handrail	0.0	

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Project Name: Teatro Juanita Arenas
Address: Hormigueros, Puerto Rico

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XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
76	Juanita Arena Theater 1st Floor	Staircase House	Metal	Green	Handrail	0.0	
77	Juanita Arena Theater 1st Floor	Staircase House	Plastic	Grey	Tread	0.0	
78	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall A	0.0	
79	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall B	0.1	
80	Juanita Arena Theater 1st Floor	Administration	Gypsum	Cream	Wall C	0.0	
81	Juanita Arena Theater 1st Floor	Administration	Concrete	Cream	Wall D	0.1	
82	Juanita Arena Theater 1st Floor	Administration	Metal	Grey	Door Frame Wall B	0.3	
83	Juanita Arena Theater 1st Floor	Administration	Metal	Grey	Door Wall B	0.1	
84	Juanita Arena Theater 1st Floor	Administration	Metal	White	Double Door	0.0	
85	Juanita Arena Theater 1st Floor	Mecanic Room	Gypsum	White	Wall A	0.0	
86	Juanita Arena Theater 1st Floor	Mecanic Room	Gypsum	White	Wall B	0.1	
87	Juanita Arena Theater 1st Floor	Mecanic Room	Concrete	White	Wall C	0.0	
88	Juanita Arena Theater 1st Floor	Mecanic Room	Concrete	White	Wall D	0.3	
89	Juanita Arena Theater 1st Floor	Mecanic Room	Metal	Green	Electrical Equipment Box	0.1	
90	Juanita Arena Theater 1st Floor	Storage	Gypsum	Cream	Wall A	0.0	

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Project Name: Teatro Juanita Arenas

Address: Hormigueros, Puerto Rico

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XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
91	Juanita Arena Theater 1st Floor	Storage	Gypsum	Cream	Wall B	0.3	
92	Juanita Arena Theater 1st Floor	Storage	Concrete	Cream	Wall C	0.0	
93	Juanita Arena Theater 1st Floor	Storage	Concrete	Cream	Wall D	0.1	
94	Juanita Arena Theater Basement	Hallway	Concrete	Orange	Wall A	0.0	
95	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall B	0.1	
96	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall C	0.0	
97	Juanita Arena Theater Basement	Hallway	Concrete	Green	Wall D	0.4	
98	Juanita Arena Theater Basement	Hallway	Concrete	Grey	Floor	0.3	
99	Juanita Arena Theater Basement	Hallway	Gypsum	White	Ceiling	0.2	
100	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door Frame	0.0	
101	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door	0.1	
102	Juanita Arena Theater Basement	Storage 203	Concrete	Green	Wall A	0.2	
103	Juanita Arena Theater Basement	Storage 203	Concrete	Orange	Wall B	0.3	
104	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Wall C	0.1	
105	Juanita Arena Theater Basement	Storage 203	Concrete	Orange	Wall D	0.0	

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Date: 10/8/2021

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LEAD BASED PAINT TESTING DATA SHEET						
Client Name: <u>Municipio de Hormigueros</u>		Date: <u>10/8/21</u>				
Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>				
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>				
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
106	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Floor	0.1
107	Juanita Arena Theater Basement	Storage 203	Ceramic	White	Sink	25.6
108	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door Frame	0.0
109	Juanita Arena Theater Basement	Storage 203	Metal	Grey	Door	0.1
110	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall B	0.3
111	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall C	0.0
112	Juanita Arena Theater Basement	Storage 203	Concrete	White	Wall D	0.1
113	Juanita Arena Theater Basement	Storage 203	Concrete	Grey	Floor	0.0
114	Juanita Arena Theater Basement	Women's Bathroom	Metal	Grey	Door Frame	0.3
115	Juanita Arena Theater Basement	Women's Bathroom	Metal	Grey	Door	0.1
116	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall A	0.0
117	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall A	0.1
118	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall B	0.2
119	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall B	0.3
120	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall C	0.0

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Date: **10/8/2021**

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LEAD BASED PAINT TESTING DATA SHEET

Client Name: Municipio de Hormigueros

Project Name: Teatro Juanita Arenas

Address: Hormigueros, Puerto Rico

Date: 10/8/21

Inspector: Anthony Rivera

XRF Serial No.: 2385

Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
121	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall C	0.1	
122	Juanita Arena Theater Basement	Women's Bathroom	Concrete	Yellow	Upper Wall D	0.0	
123	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Lower Wall D	0.3	
124	Juanita Arena Theater Basement	Women's Bathroom	Gypsum	White	Ceiling	0.0	
125	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	Gray	Floor	0.1	
126	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	Gray	Baseboard	0.0	
127	Juanita Arena Theater Basement	Women's Bathroom	Wood	Gray	Division	0.3	
128	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Sink A	0.1	
129	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Sink B	0.2	
130	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Toilet A	0.3	
131	Juanita Arena Theater Basement	Women's Bathroom	Ceramic	White	Toilet B	0.2	
132	Juanita Arena Theater Basement	Women's Bathroom	Metal	Gray	Wall C, Railing	0.0	
133	Juanita Arena Theater Basement	Men Bathroom	Metal	Gray	Door Frame	0.1	
134	Juanita Arena Theater Basement	Men Bathroom	Metal	Gray	Door	0.0	
135	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall A	0.0	

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Inspector: Anthony Rivera

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
136	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall A	0.1	
137	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall B	0.0	
138	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall B	0.3	
136	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall C	0.0	
137	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall C	0.1	
138	Juanita Arena Theater Basement	Men Bathroom	Concrete	Yellow	Upper Wall D	0.3	
139	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Lower Wall D	0.0	
140	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Black	Lower Wall D	0.1	
141	Juanita Arena Theater Basement	Men Bathroom	Gypsum	White	Ceiling	0.2	
142	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Gray	Floor	0.0	
143	Juanita Arena Theater Basement	Men Bathroom	Ceramic	Gray	Baseboard	0.3	
144	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Sink A	0.1	
145	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Sink B	0.0	
146	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Toilet	0.0	
147	Juanita Arena Theater Basement	Men Bathroom	Ceramic	White	Urinal	18.3	

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Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
148	Juanita Arena Theater Basement	Men Bathroom	Wood	Gray	Divisions	0.0	
149	Juanita Arena Theater Basement	Men Bathroom	Metal	Cream	Wall C, Railing	0.1	
150	Juanita Arena Theater Basement	Men Bathroom	Wood	Gray	Division Frame	0.0	
151	Juanita Arena Theater Basement	Room 201	Concrete	White	Wall A	0.0	
152	Juanita Arena Theater Basement	Room 201	Concrete	Gray	Wall B	0.3	
153	Juanita Arena Theater Basement	Room 201	Concrete	White	Wall C	0.1	
154	Juanita Arena Theater Basement	Room 201	Concrete	Green/Yellow	Wall D	0.2	
155	Juanita Arena Theater Basement	Room 201	Metal	Red	Column A	0.2	
156	Juanita Arena Theater Basement	Room 201	Metal	Red	Column B	0.1	
157	Juanita Arena Theater Basement	Room 201	Metal	Gray	Window Frame	0.0	
158	Juanita Arena Theater, Exterior	Exterior A	Concrete	Green	Wall A	0.0	
159	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column A	0.1	
160	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column B	0.0	
161	Juanita Arena Theater, Exterior	Exterior A	Concrete	Pink	Column C	0.3	
162	Juanita Arena Theater, Exterior	Exterior A	Metal	Pink	Wall A, Gate	0.0	

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LEAD BASED PAINT TESTING DATA SHEET						
Client Name: <u>Municipio de Hormigueros</u>		Date: 10/8/21				
Project Name: <u>Teatro Juanita Arenas</u>		Inspector: <u>Anthony Rivera</u>				
Address: <u>Hormigueros, Puerto Rico</u>		XRF Serial No.: <u>2385</u>				
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
163	Juanita Arena Theater, Exterior	Exterior A	Metal	Pink	Gate Frame	0.0
164	Juanita Arena Theater, Exterior	Exterior A	Metal	Brown	Commemorative Plaques	18.3
165	Juanita Arena Theater, Exterior	Exterior A	Metal	Brown	Commemorative Plaques	17.4
166	Juanita Arena Theater, Exterior	Exterior A	Concrete	White	Bust	0.0
167	Juanita Arena Theater, Exterior	Exterior A	Concrete	Red	Tiles	0.0
168	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Wall B	0.0
169	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Lower Wall B	0.1
170	Juanita Arena Theater, Exterior	Exterior B	Concrete	Red	Floor	0.0
171	Juanita Arena Theater, Exterior	Exterior B	Concrete	Gray	Step	0.3
172	Juanita Arena Theater, Exterior	Exterior B	Metal	Orange	Handrail	0.0
173	Juanita Arena Theater, Exterior	Exterior B	Concrete	Green	Trim, Wall B	0.0
174	Juanita Arena Theater, Exterior	Exterior B	Concrete	White	Bench	0.1
175	Juanita Arena Theater, Exterior	Terrace	Concrete	Green	Wall A	0.1
176	Juanita Arena Theater, Exterior	Terrace	Concrete	Green	Wall B	-0.1
177	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Wall C	0.2

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Client Name: <u>Municipio de Hormigueros</u> Project Name: <u>Teatro Juanita Arenas</u> Address: <u>Hormigueros, Puerto Rico</u>		Date: 10/8/21 Inspector: Anthony Rivera XRF Serial No.: 2385					
Reading #	Structure	Room	Substrate	Color	Component & Location	XRF Reading	Laboratory Result (% or mg/cm ²)
178	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Wall D	0.2	
179	Juanita Arena Theater, Exterior	Terrace	Concrete	Gray	Wall C, Gate	0.1	
180	Juanita Arena Theater, Exterior	Terrace	Concrete	Pink	Gate Column	0.0	
181	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Wall C	0.0	
182	Juanita Arena Theater, Exterior	Exterior C	Concrete	White	Wall C	0.1	
183	Juanita Arena Theater, Exterior	Exterior C	Metal	Pink	Handrail	0.0	
184	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Riser	0.0	
185	Juanita Arena Theater, Exterior	Exterior C	Metal	Gray	Railings	0.0	
186	Juanita Arena Theater, Exterior	Exterior D	Concrete	Green	Wall D	0.1	
187	Juanita Arena Theater, Exterior	Exterior D	Concrete	Pink	Wall D	0.1	
188	Juanita Arena Theater, Exterior	Exterior D	Concrete	Orange	Garden Wall, Wall D	0.2	
189	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate, Wall D	0.3	
190	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate Railing	0.1	
RETESTING							
191	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Wall C	0.0	

Approved By: **Ady Padan Ph.D.**

Date: 10/8/2021

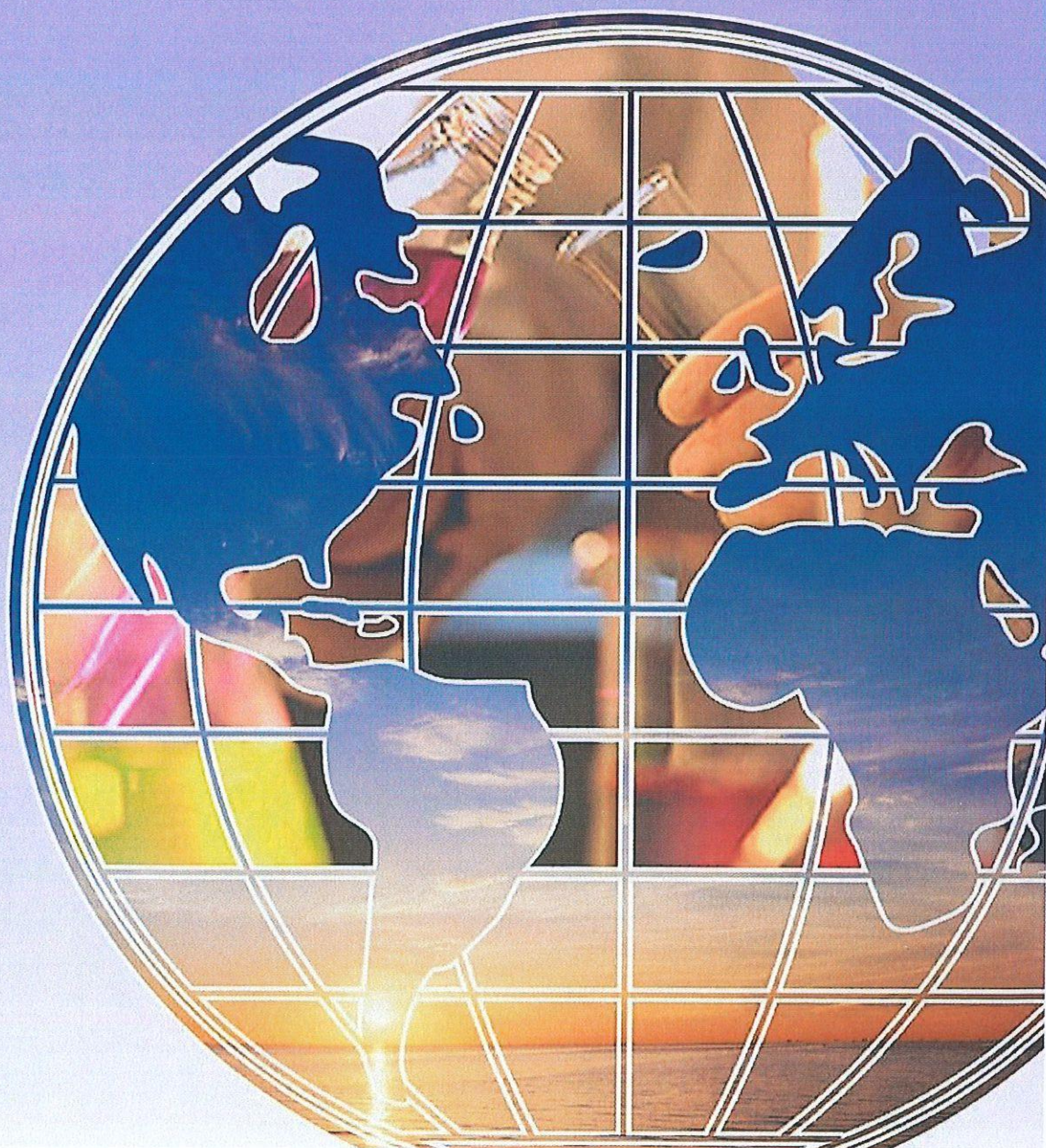
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Client Name: <u>Municipio de Hormigueros</u> Project Name: <u>Teatro Juanita Arenas</u> Address: <u>Hormigueros, Puerto Rico</u>			Date: 10/8/21 Inspector: Anthony Rivera XRF Serial No.: 2385			
Reading #	Structure	Room	Substrate	Color	Component & Location	Laboratory Result (% or mg/cm ²)
192	Juanita Arena Theater, Exterior	Exterior C	Concrete	White	Wall C	0.0
193	Juanita Arena Theater, Exterior	Exterior C	Metal	Pink	Handrail	0.1
194	Juanita Arena Theater, Exterior	Exterior C	Concrete	Pink	Riser	0.0
195	Juanita Arena Theater, Exterior	Exterior C	Metal	Gray	Railings	0.1
196	Juanita Arena Theater, Exterior	Exterior D	Concrete	Green	Wall D	0.2
197	Juanita Arena Theater, Exterior	Exterior D	Concrete	Pink	Wall D	0.3
198	Juanita Arena Theater, Exterior	Exterior D	Concrete	Orange	Garden Wall, Wall D	0.1
199	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate, Wall D	0.2
200	Juanita Arena Theater, Exterior	Exterior D	Metal	Green	Gate Railing	0.1
201					Calibration	0.9
202					Calibration	0.8
203					Calibration	0.9

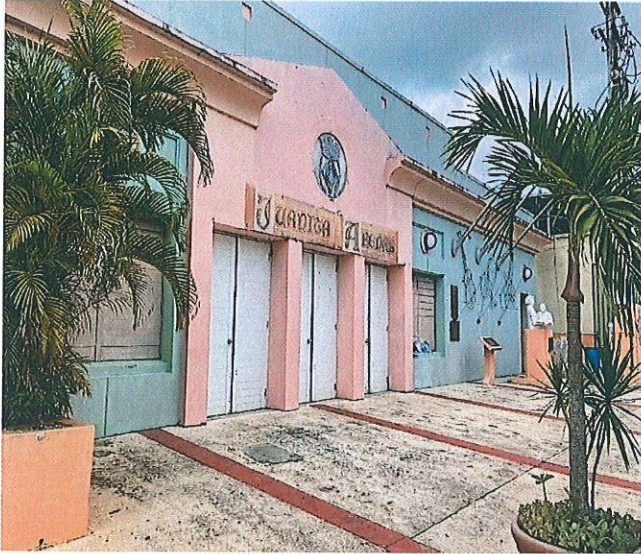
Approved By: Ady Padan Ph.D.

Date: 10/8/2021

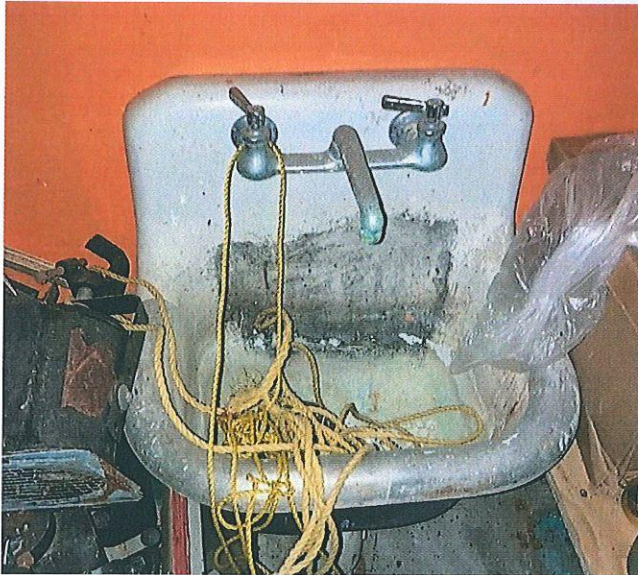
Appendix III



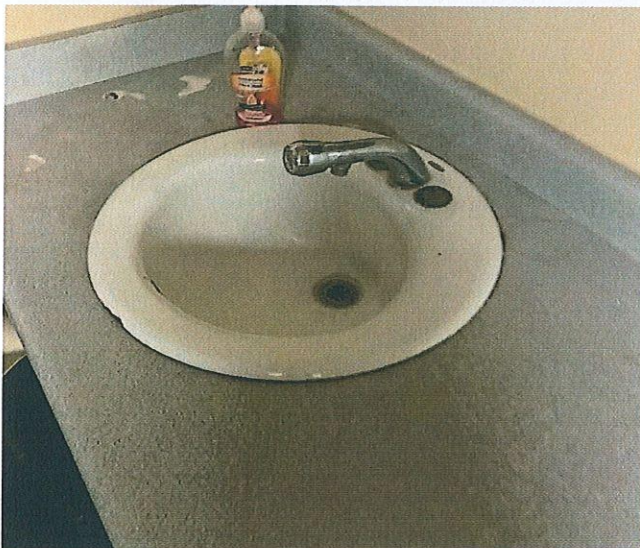
Selective Photos



**General View of Juanita Arenas Theater
Hormigueros, Puerto Rico**



**White Ceramic Sink
Painted with LBP
Storage 203- Basement**



**White Ceramic Sink
Painted with LBP
Bathroom 108- 1st Floor**

Selective Photos



**Brown Metal Commemorative Plaque
Painted with LBP
Exterior of Structure**

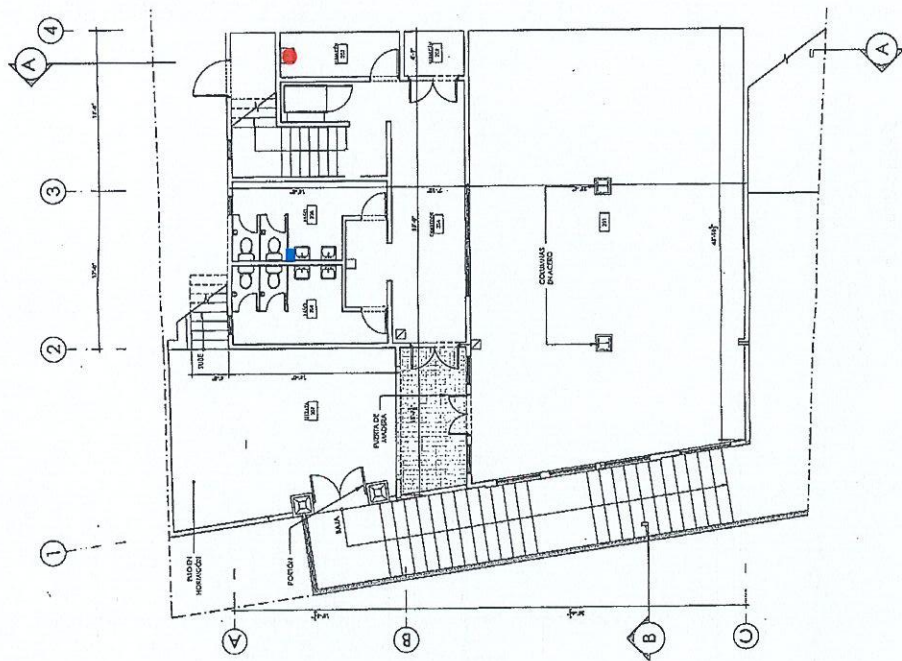


**Brown Metal Commemorative Plaque
Painted with LBP
Exterior of Structure**

Appendix IV



Schematic Distribution of LBP Components at Juanita Arenas Theater- Basement, Homigueros, Puerto Rico.



PLANTA SÓTANO
Escala: 3/16" = 1'-0"

Legend:

- LBP Ceramic Sink
- LBP Ceramic Urinal

PLANTA SOTANO

1	PROTECCION 15-01	DISTRITO: MUNICIPIO DE HOLAMONTES	BICAJA: Jefe de Ficha: Eduardo J. S. Calle 1, Barrio Nuevo	EX.102
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INFORMACIÓN IMPORTANTE PARA EL

CONTENIDO

[illegible]

LET OF COMMUNICATIONS

[illegible]

COMITÉ DE CALIDAD DE ENSEÑANZA E INVESTIGACIÓN

[illegible]

9. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

[illegible]

JORGE RIGAU FANA ARQUITECTOS PSC
10000 PARKWAY, SUITE 100, NEW YORK, NY 10001
212-692-1000

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOMBURGUES, PUERTO RICO

1

1

PLANTA SOTANO

1	PROTECCION 15-01	DISTRITO: MUNICIPIO DE HOLAMONTES	BICAJA: Jefe de Ficha: Eduardo J. S.
		CONCELESTRO:	EX.102
		ENTRADA	IF MOJA



ASBESTOS



TABLE OF CONTENTS

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APPENDIX II - Physical Assessment Inspection Form

APPENDIX III - Analytical Results

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APPENDIX V- Floor Plans with Location of Sampling
Points and Distribution of ACM

I. SUMMARY

Analytical Environmental Services International, Inc (AES International) was contracted to perform an Asbestos Containing Materials (ACM) survey for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The ACM inspection was conducted on 10/8/2021 by Anthony Rivera, an DRNA certified asbestos inspector.

The scope of the survey included sampling of suspected ACM present and analysis of the samples collected. During the survey, Twenty-one (21) samples were collected from suspected materials. Samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers. ACM identified include the following:

- Miscellaneous, Category I ACM, non-friable, black mastic on floor. Approximately, 490 sq.ft of this material is present in Room 201.
- Miscellaneous, Category I ACM, non-friable, pink vinyl asbestos tiles (VAT) and mastic. Approximately, 940 sq.ft of this material is present in various areas.
- Miscellaneous, Category I ACM, non-friable, cream VFT and mastic. Approximately, 1,250 sq.ft of this material is present in various areas.

** No access was provided to the roof; therefore roofing treatment is assumed as ACM. In addition, the mirror in bathroom 109 may have mastic behind. As sampling will have involved breakage of the mirror, the mastic behind is assumed as ACM.

If demolition/remodeling activities will be conducted in the nearest future it is recommended to remove all ACM known, or suspected, present within the structure, as to comply with NESHAP/EQB requirements.

1.0 INTRODUCTION

Analytical Environmental Services International, Inc (AES International) was contracted to perform an Asbestos Containing Materials (ACM) survey for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico.

The ACM inspection was conducted on 10/8/2021, by Anthony Rivera, an DRNA/AHERA certified asbestos inspector (see Appendix I for credentials). The scope of the survey included sampling of suspected ACM and analysis of samples collected.

Samples collected were sent to AES International Inc., a NVLAP accredited laboratory located in Santurce, Puerto Rico. Samples were analyzed by Polarized Light Microscopy method (PLM), in accordance with EPA recommended procedures. The samples are defined as asbestos containing materials (ACM) if they contain more than 1% asbestos.

2.0 GENERAL BACKGROUND

Asbestos was used in the construction industry from 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other everyday activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called ASBESTOSIS; a rare cancer of chest called MESOTHELIOMA; and cancers of the esophagus, stomach, colon and other organs. Asbestosis is not fatal; it is however incurable. One who has it cannot breathe easily and physical activity becomes limited. MESOTHELIOMA is 100% fatal, as there is no cure. These diseases can be directly linked to asbestos because of the mineral particles that can be found in the lining of the lungs and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the one who cause the problems.

Studies indicate different health effect resulting from exposure to chrysotile asbestos versus exposure to the amphibole form of asbestos. The latter, which include tremolite, amosite, actinolite, anthophyllite and crocidolite have more significant health impact than chrysotile.

Some scientists cite studies concluding that is the size of the fibers deposited in the lungs that result in cancer. Long, thin fibers, greater than 8 microns in length and less than 0.25 microns in diameter show the highest potential of cancer development.

2.1 National Emission Standards for Hazardous Air Pollutants (NESHAP)

The EPA's rules concerning the application, removal, and disposal of ACM, as well as manufacturing, spraying and fabricating of ACM were issued under the asbestos NESHAP regulation (U.S. EPA National Emission Standards for Hazardous Air Pollutants, 40 CFR 61 Subpart M, October 30, 1987). The asbestos NESHAP regulation governs asbestos demolition and renovation projects in all facilities. The NESHAP rule usually requires owners or operators to have all friable ACM removed before the building is demolished and may require its removal before renovation. If friable ACM shall be disturbed, the NESHAP rule may require appropriate work practices, or procedures for emission control. The rule states that any ACM, which may become friable, poses a potential hazard that should be addressed.

A revised NESHAP ruling was released on November 20, 1990, effective February 20, 1991 which includes as the responsibility of the owner, or operator, to "prior to the commencement of the demolition or renovation, thoroughly inspect the affected facility or part of the facility where demolition or renovation operation will occur for the presence of asbestos, including Category I and Category II non-friable ACM." (40 CFR, Part 61, National Emission Standards for hazardous Air Pollutants, Asbestos NESHAP Revision, Final Rule, November 20, 1990).

3.0 PROJECT IDENTIFICATION/DESCRIPTION

The areas investigated consists of a theater, two-level structure (ground floor and basement):

- Ground level- auditorium, stage, music/equipment room, two (2) bathrooms, administration area, mechanical room and storage
- Basement- storage, two (2) bathrooms and a large room.

4.0 SAMPLING METHODS

Twenty-one (21) samples were collected from suspected ACM. Samples were collected from acoustical ceilings, gypsum board, mastic, vinyl floor tiles and baseboard. No access was feasible to roof due to height.

5.0 SAMPLING RESULTS

Location of materials and results are shown in the physical assessment form in Appendix II. Analytical results of samples collected are shown in Appendix III. The results are

presented according to functional areas tested. The suspected samples collected were analyzed by Polarized Light Microscopy (PLM) for asbestos fibers.

Asbestos fibers above 1% area (ACM) were identified in nine (9) samples collected from vinyl floor tile/mastic, (see floor plans with ACM distribution in Appendix V and selective photos in Appendix IV). No access was feasible to roof due to height, therefore it must be assumed as ACM.

6.0 CONCLUSIONS

ACM were detected during a survey conducted for Juanita Arenas Theater located on #9 Mateo Fajardo Street, Hormigueros, Puerto Rico. Results are presented in the summary as well as on the floor plans attached.

The ACM sampling relates to surfaces accessible and not covered by rigid barriers. Should any material hidden under surfaces, or architectural components be present, it must be assumed as ACM.

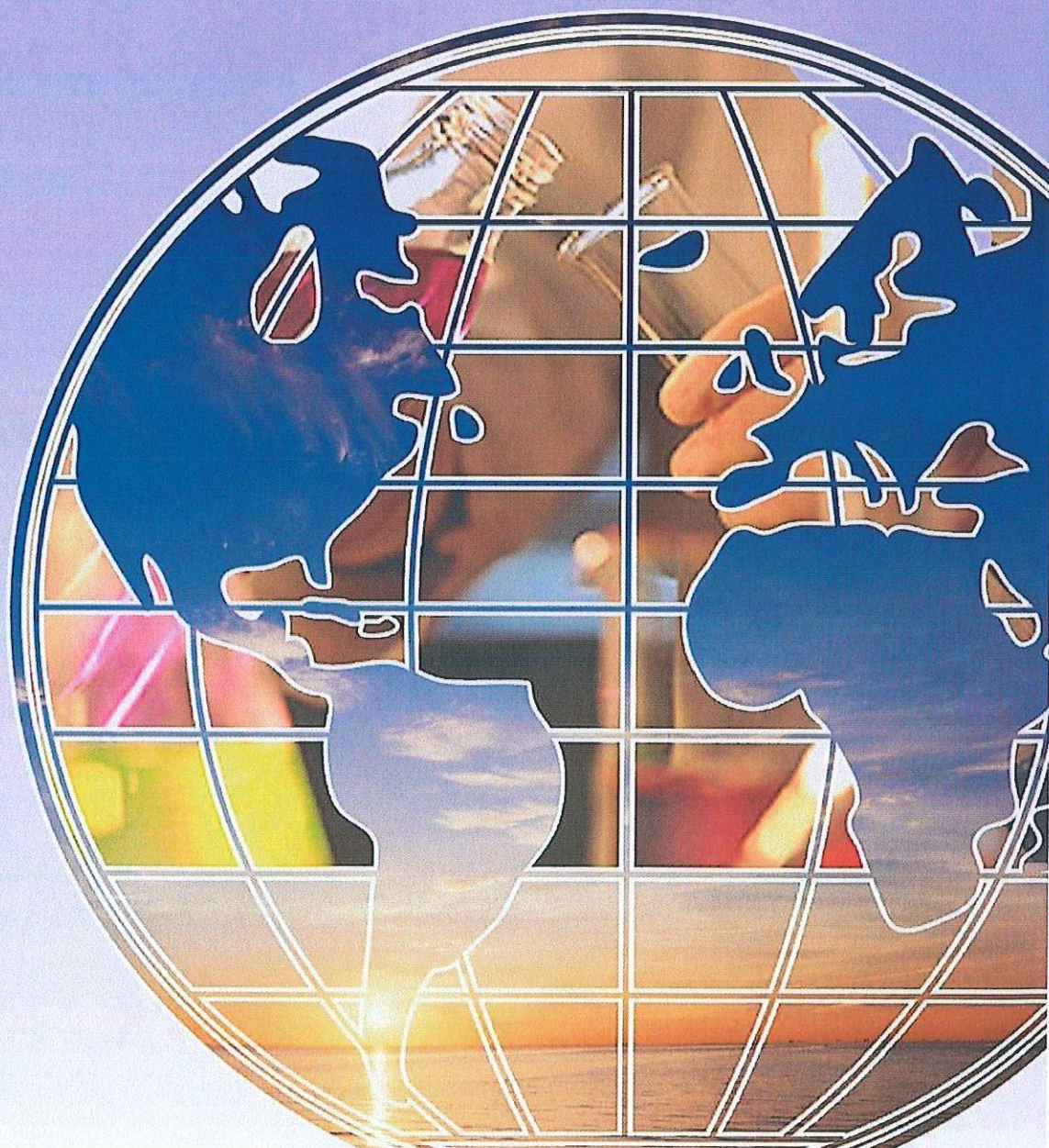


Anthony Rivera, EQB Asbestos Inspector
Lic#: ASB-0921-0466-SI

**Table 1. Summary of Asbestos Containing Materials (ACM) for Juanita Arenas Theater,
Hormigueros, Puerto Rico.**

Building	Sample ID	Description	Result (Percentage of Asbestos)
Juanita Arenas Theater	AR-10	Black Mastic from Floor, Room 201	3% CHR
	AR-11	Black Mastic from Floor, Room 201	2% CHR
	AR-12	Black Mastic from Floor, Room 201	3% CHR
	AR-16	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-17	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-18	Pink Vinyl Floor Tile 12"x 12" with Black Glue	2% CHR
	AR-19	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	2% CHR
	AR-20	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	2% CHR
	AR-21	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration	2% CHR

Appendix I





SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AES International

611 Monserrate

Santurce, PR 00907

Mr. Ady Padan

Phone: 787-722-0220 Fax: 787-724-5788

Email: yota1@bellsouth.net

<http://www.aesipr.org>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 200051-0

Bulk Asbestos Analysis

Code

Description

18/A01

EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

18/A03

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

A handwritten signature in black ink, reading "Dana S. Laman", is positioned above a horizontal line.

For the National Voluntary Laboratory Accreditation Program

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 200051-0

AES International

Santurce, PR

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).*

2021-01-01 through 2021-12-31

Effective Dates



A handwritten signature in black ink, which appears to read "Peter E. Dunne".

For the National Voluntary Laboratory Accreditation Program

Asbestos Inspector Credentials

	TARJETA DE REGISTRO LA REMOCION PARA DE ASBESTO
	Esta tarjeta autoriza a:
	Anthony Rivera Eaves
	Inspector
	A trabajar en la remoción de asbesto en Puerto Rico. Esta persona NO es un empleado del DRNA.
ASB-0921-0466-SI	
Número de Registro	Firma Autorizada - Departamento Recursos Naturales y Ambientales
30-Aug-2022	
Fecha de vencimiento	

Appendix II



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 1 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-1	White Acoustical Ceiling 2'x 2' from Auditorium	Misc.	No	NF	Auditorium, Hallway, Bathroom 109, 108, Storage 1st Floor and Room 201	ND		X	
AR-2	White Acoustical Ceiling 2'x 2' from Bathroom 109	Misc.	No	NF		ND		X	
AR-3	White Acoustical Ceiling 2'x 2' from Room 201	Misc.	No	NF		ND		X	
AR-4	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	
AR-5	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	
AR-6	White Acoustical Ceiling 2'x 4' from Administration	Misc.	No	NF	Administration	ND		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged; 5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 2 of 4

Homogeneous Material Description	Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	ASHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description							
AR-7	White Gypsum Board from Auditorium	Misc.	No	NF	Auditorium, Stage, Storage, Corridor, Room 201	ND	X	
AR-8	White Gypsum Board from Room 201	Misc.	No	NF		ND	X	
AR-9	White Gypsum Board from Corridor	Misc.	No	NF		ND	X	
AR-10	Black Mastic from Floor, Room 201	Misc.	Yes	NF	Room 201	2% CHR	X	
AR-11	Black Mastic from Floor, Room 201	Misc.	Yes	NF	Room 201	3% CHR	X	
AR-12	Black Mastic from Floor, Room 201	Misc.	Yes	NF	Room 201	2% CHR	X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

ASHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACM; 2 = Damaged friable surfacing ACM; 3 = Significantly damaged friable surfacing ACM; 4 = Damaged or significantly damaged friable miscellaneous ACM; 5 = ACM with potential for damage; 6 = ACM with potential for significant damage;

7 = Any remaining friable ACM or friable suspected ACM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building: Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 3 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-13	Green/Brown Vinyl Baseboard 3" from Corridor, 1st Floor	Misc.	No	NF	Corridor, Bath 108, 109, Stairs	ND		X	
AR-14	Green/Brown Vinyl Baseboard 3" from Stairs	Misc.	No	NF	Storage, 1st Floor, Adm	ND		X	
AR-15	Green/Brown Vinyl Baseboard 3" from Administration	Misc.	No	NF	Storage, 1st Floor, Adm	ND		X	
AR-16	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF	Auditorium, Corridor, Stairs, Adm, Storage 202-203	2% CHR		X	
AR-17	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF		2% CHR		X	
AR-18	Pink Vinyl Floor Tile 12"x 12" with Black Glue	Misc.	Yes	NF		2% CHR		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged or significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

ASBESTOS SAMPLE INSPECTION FORM FOR PHYSICAL & HAZARD ASSESSMENT

Client Name Municipio de Hormigueros Building : Teatro Juanito Arenas

Project Name: Teatro Juanita Arenas

Inspection Date: 10/8/21 Page: 4 of 4

Homogeneous Material Description		Material Category	Asbestos Content	Friability	Location of Materials	Asbestos Contents	Total Square Feet of ACM	AHERA Assessment Category (1-7,X, None)	Hazard Ranking (1-7)
I.D. Number	Material Description								
AR-19	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	Misc.	Yes	NF	Auditorium, Corridor, Adm, Storage, Stairs, Basement Corridor	2% CHR		X	
AR-20	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium	Misc.	Yes	NF		2% CHR		X	
AR-21	Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration	Misc.	Yes	NF		2% CHR		X	

Inspected by: Anthony RiveraDate: 10/8/21

Friability: F = friable, NF = nonfriable, X = not applicable (material is non-ACBM)

AHERA Assessment Category: 1 = Damaged of significantly damaged TSI ACBM; 2 = Damaged friable surfacing ACBM; 3 = Significantly damaged friable surfacing ACBM; 4 = Damaged or significantly damaged friable miscellaneous ACBM; 5 = ACBM with potential for damage; 6 = ACBM with potential for significant damage; 7 = Any remaining friable ACBM or friable suspected ACBM; X = Not applicable (material is non-ACBM or non-friable surfacing or miscellaneous materials);

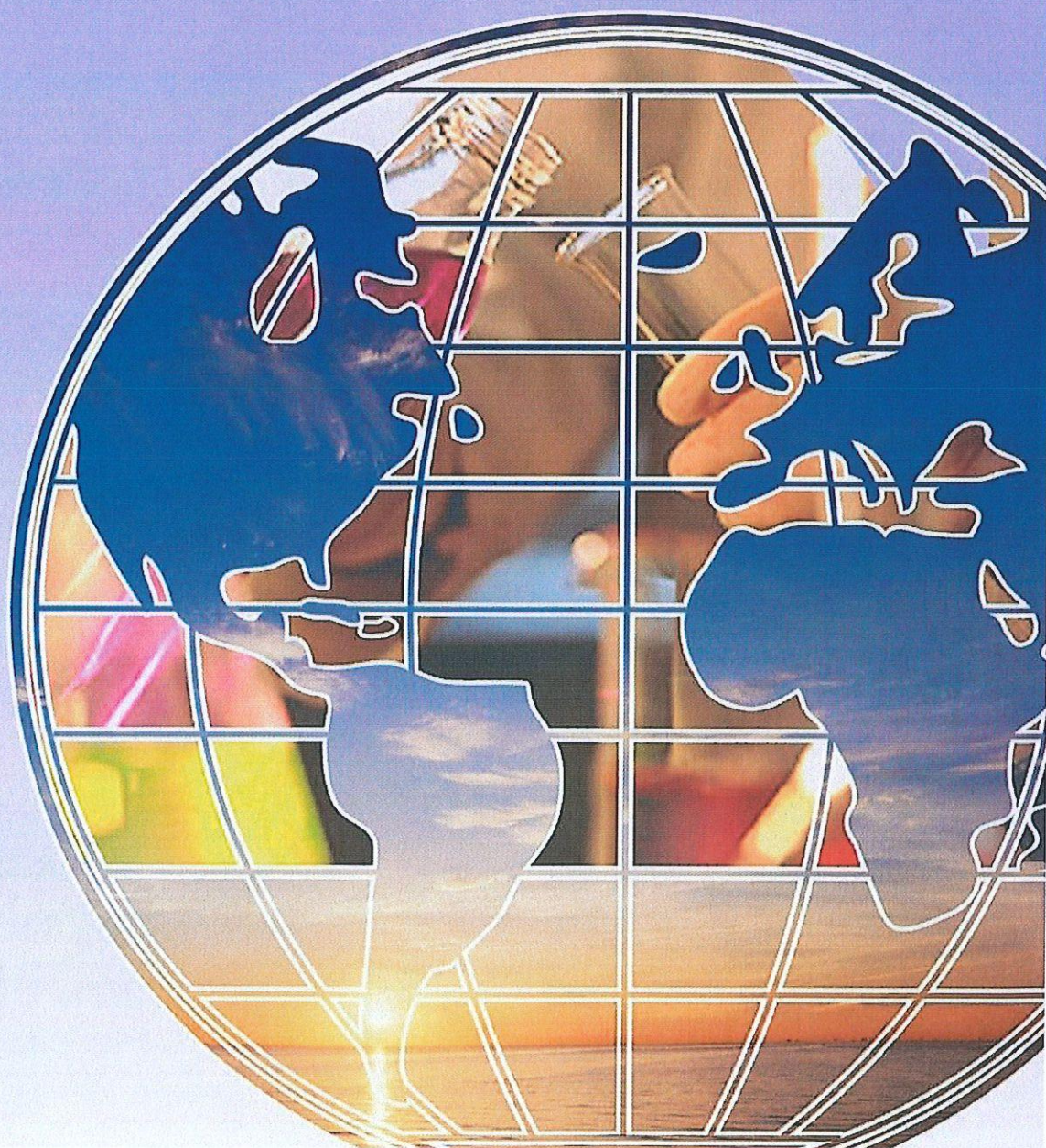
None = No assessment category provided in original inspection.

Hazard Ranking Category: 1 = Significantly damaged; 2 = Damaged and potential of significant damage; 3 = Damaged and potential for damage; 4 = Damaged;

5 = Potential for significant damage; 6 = Potential for damage; 7 = All remaining ACBM

* - See Floor Plans for Location of Functional Spaces; ** - Unless Specified, the Asbestos Type is Chrysotile; ND - None Detected

Appendix III





ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.01 B21100035.01.A AR-1	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 25 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 45

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Auditorium

Comments:

Paint Included as Binders

B21100035.02 B21100035.02.A AR-2	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 25 Synthetic 12 Mineral Wool 12	Perlite 10 Binders/Paint 41
---	---	----	--	---	--------------------------------

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Bathroom 109

Comments:

Paint Included as Binders

B21100035.03 B21100035.03.A AR-3	Soft, Silty, to Fibrous, to Perlite with Paint Lt. Gray	No		Cellulose 20 Synthetic 20 Mineral Wool 10	Perlite 10 Binders/Paint 40
---	---	----	--	---	--------------------------------

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Acoustical Ceiling 2'x 2' from Room 201

Comments:

Paint Included as Binders

MICROANALYST:

[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER

RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.04 B21100035.04.A AR-4 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 20 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 50
B21100035.05 B21100035.05.A AR-5 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 25 Synthetic 10 Mineral Wool 10	Perlite 10 Binders/Paint 45
B21100035.06 B21100035.06.A AR-6 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: White Acoustical Ceiling 2'x 4' from Administration Comments: Paint Included as Binders	Soft, Silty, to Fibrous, to Perlitic with Paint Gray	No		Cellulose 20 Synthetic 12 Mineral Wool 10	Perlite 10 Binders/Paint 48

MICROANALYST:


[Elme Rivera]

PLM is not consistently reliable in detecting small concentrations of asbestos in floor tiles and similar nonfriable materials. Quantitative TEM is currently the only method that can be used to get the conclusive asbestos content. This report relates only to the items tested as received. This report shall not be reproduced except in full and not without written approval of the laboratory. This report shall not be used to claim endorsement by NVLAP or any agency of the US Government. Methods used for determination of asbestos in bulk samples are found in both methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.



ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, INC.

611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
Client Sample ID					
B21100035.07	Semi-Hard, Silty with Fibers	No		Cellulose 3	Binders/Paint 95
B21100035.07.A	Cream			Synthetic 2	

AR-7

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Gypsum Board from Auditorium

Comments:

B21100035.08	Semi-Hard, Silty with Paint and Fibers	No		Cellulose 16	Binders/Paint 79
B21100035.08.A	Lt. Brown			Synthetic 5	

AR-8

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Gypsum Board from Room 201

Comments:

Paint Included as Binders

B21100035.09	Semi-Hard, Silty with Fibers and Paint	No		Cellulose 12	Binders/Paint 83
B21100035.09.A	Cream			Synthetic 5	

AR-9

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: White Gypsum Board from Corridor

Comments:

Paint Included as Binders

MICROANALYST:


[Elme Rivera]

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Job ID: B21100035



REPORT NUMBER

RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.10 B21100035.10.A AR-10 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 2		Bitumen 12 Sand/Aggregates 56 Binders/Paint 30
B21100035.11 B21100035.11.A AR-11 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 3		Bitumen 8 Sand/Aggregates 50 Binders/Paint 39
B21100035.12 B21100035.12.A AR-12 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Black Mastic from Floor, Room 201 Comments: Asbestos Found in Bitumen	Hard, Aggregates with Mastic and Fibers Gray	Yes	Chrysotile 2		Bitumen 8 Sand/Aggregates 40 Binders/Paint 50

MICROANALYST:

[Elme Rivera]

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PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.13 B21100035.13.A AR-13	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 3	Rubber 80 Glue 6 Binders/Paint 11

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Corridor, 1st Floor

Comments:

Paint Included as Binders

B21100035.14 B21100035.14.A AR-14	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 3	Rubber 81 Glue 6 Binders/Paint 10
--	--	----	--	-------------	---

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Stairs

Comments:

Paint Included as Binders

B21100035.15 B21100035.15.A AR-15	Hard, Rubber with Paint, Glue and Fibers Cream	No		Cellulose 2	Rubber 85 Glue 5 Binders/Paint 8
--	--	----	--	-------------	--

Layer % of Total :100%

Date Analyzed: 10/17/2021

Sample Location: Green/Brown Vinyl Baseboard 3" from Administration

Comments:

Paint Included as Binders

MICROANALYST:

[Elme Rivera]

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Job ID: B21100035



REPORT NUMBER

RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.16 B21100035.16.A AR-16 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue, Mastic Other - and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 8 Sand/Aggregates 20 Glue 6 Binders/Paint 62
B21100035.17 B21100035.17.A AR-17 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue Other - Mastic and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 6 Sand/Aggregates 20 Glue 6 Binders/Paint 64
B21100035.18 B21100035.18.A AR-18 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Pink Vinyl Floor Tile 12"x 12" with Black Glue Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Glue Other - Mastic and Fibers Gray	Yes	Chrysotile 2	Cellulose 2	Bitumen 5 Sand/Aggregates 25 Glue 6 Binders/Paint 60

MICROANALYST:

[Elme Rivera]

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611 Monserrate Street, 2nd. Floor, Santurce, P.R. 00907

PH. (787) 722-0220 Fax (787) 724-5788

Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Client Name:	Municipio de Hormigueros	Date Collected:	10/08/2021
Project Name:	Teatro Juanita Arenas, Hormigueros	Date Received:	10/12/2021
Project ID:			

RESULT OF ANALYSIS (BY % AREA VISUAL ESTIMATE)

Lab Sample ID Client Sample ID	Sample Description	Asbestos Detected	Asbestos Fibers	Other Fibers	Non - Fibrous Material
B21100035.19 B21100035.19.A AR-19 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 2	Cellulose 2	Bitumen 5 Sand/Aggregates 25 Binders/Paint 66
B21100035.20 B21100035.20.A AR-20 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Auditorium Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 2	Cellulose 2	Bitumen 6 Sand/Aggregates 25 Binders/Paint 65
B21100035.21 B21100035.21.A AR-21 Layer % of Total :100% Date Analyzed: 10/17/2021 Sample Location: Cream Vinyl Floor Tile 12"x 12" with Black Mastic from Administration Comments: Asbestos Found in Bitumen	Hard, Compact, Partly Granular with Other - Black Mastic and Fibers Cream	Yes	Chrysotile 1	Cellulose 2	Bitumen 6 Sand/Aggregates 20 Binders/Paint 71

Comments:

For all heterogeneous and layered samples easily separated into sublayers, each component is analyzed and reported separately.

MICROANALYST:

[Elme Rivera]

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Job ID: B21100035



REPORT NUMBER



RP21101903

POLARIZED LIGHT MICROSCOPY (PLM) BULK SAMPLE ANALYSIS REPORT

Samples are analyzed by PLM using dispersion staining techniques in accordance with US EPA methods App. E to Sub. E of 40 CFR Part 763 and EPA/600/R-93/116.

MICROANALYST:

[Elme Rivera]

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ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, IN

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

Ph: (787) 722-0220 Fax: (787) 724-5788



Transmittal Sheet for Bulk Sample Analysis

Client Name: Municipio de Hormigueros

Address: _____

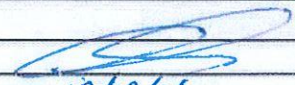
Contact: José ArochoPhone/Fax: (787) 849-2515 Xt. 217Project Name: Teattro Juanita ArenasSite Location: Hormigueros, Puerto RicoSamplers Name: Anthony RiveraCompany: AESI

Chain of Custody Record

Sample I. D.	Sample Description (i.e. Location, Name, etc.)	Collected		Analysis Required		Comments	Laboratory I.D. 21100035
		Date	Time	PLM	Other		
AL-1	See Hazard Assessment	10/3/11		-			01
AL-2				✓			02
AL-3				-			03
AL-4				-			04
AL-5				-			05
AL-6				-			06
AL-7				-			07
AL-8				-			08
AL-9				-			09
AL-10				-			10
AL-11				-			11
AL-12				-			12

Turnaround Time:

Normal: ☐Rush: ☐

Relinquished By: 		Delivered Directly to Lab: ☐ Shipped: ☐	
Date/ Time: <u>10/18/21</u>	Method of Shipment: _____		
Received By: <u>M. Rivera</u>	Lab. Recipient: _____		
Date/ Time: <u>10/12/21 7:20</u>	Date: _____		
Relinquished By: _____	*Job ID: B21100035		
Date/ Time: _____	 Municipio de Hormigueros		
Received By: _____			
Date/ Time: _____			

COC-BULK-011/REV2/16

ANALYTICAL ENVIRONMENTAL SERVICES INTERNATIONAL, IN

611 Monserrate, 2nd. Floor, Santurce, P.R. 00907

Ph: (787) 722-0220 Fax: (787) 724-5788



Transmittal Sheet for Bulk Sample Analysis

Client Name: Municipio de Hormigueros

Address: _____

Contact: _____

Phone/Fax: José Arocho
(787) 849-2515 Xt. 217Project Name: Teatro Juanita ArenasSite Location: Hormigueros, Puerto RicoSamplers Name: Anthony RiveraCompany: AESI

Chain of Custody Record

Sample I. D.	Sample Description (i.e. Location, Name, etc.)	Collected		Analysis Required		Comments	Laboratory I.D.
		Date	Time	PLM	Other		
AL-13	Sec H-1854 Assessment	10/3/21		-			13
AL-14				-			14
AL-15				-			15
AL-16				-			16
AL-17				-			17
AL-18				-			18
AL-19				-			19
AL-20				-			20
AL-21				-			21

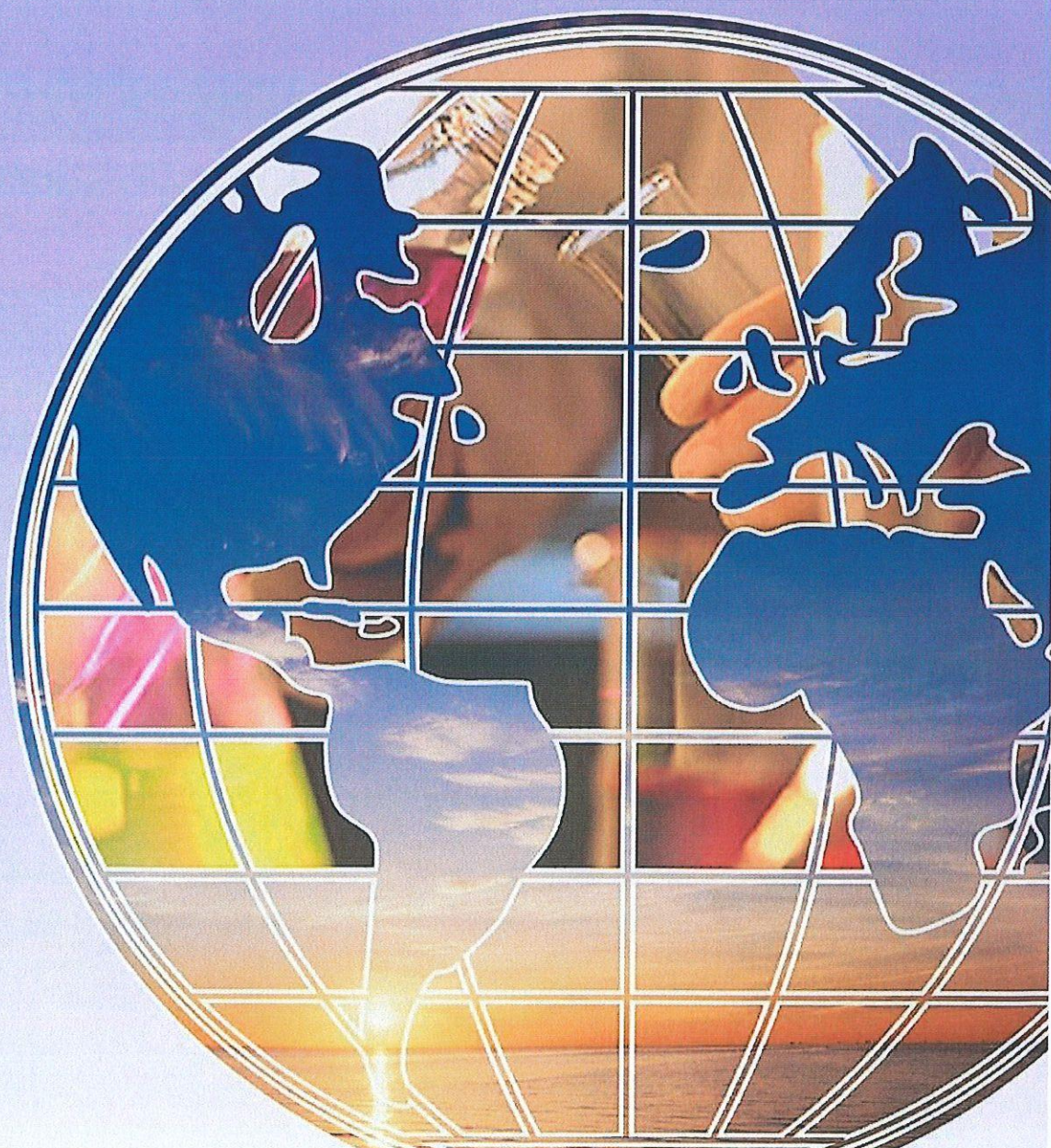
Turnaround Time:

Normal: ☐Rush: ☐

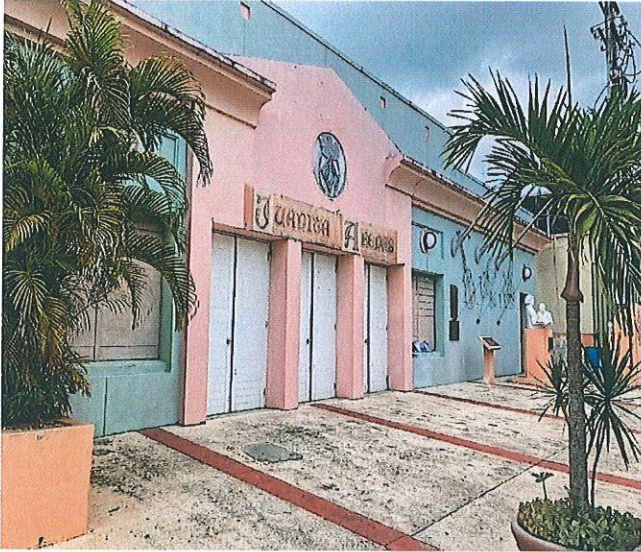
Relinquished By:	Delivered Directly to Lab: ☐	Shipped: ☐
Date/ Time: <u>10/3/21</u>		
Received By: <u>Muniquer</u>	Method of Shipment:	
Date/ Time: <u>10/12/21 7:20am</u>		
Relinquished By:	Lab. Recipient:	*Job ID: B21100035
Date/ Time:	Date:	
Received By:		Municipio de Hormigueros
Date/ Time:		

COC-BULK-011/REV2/16

Appendix IV



Selective Photos



**General View of Juanita Arenas Theater
Hormigueros, Puerto Rico**



**Asbestos Containing Black Mastic on Floor
Room 201- Basement**

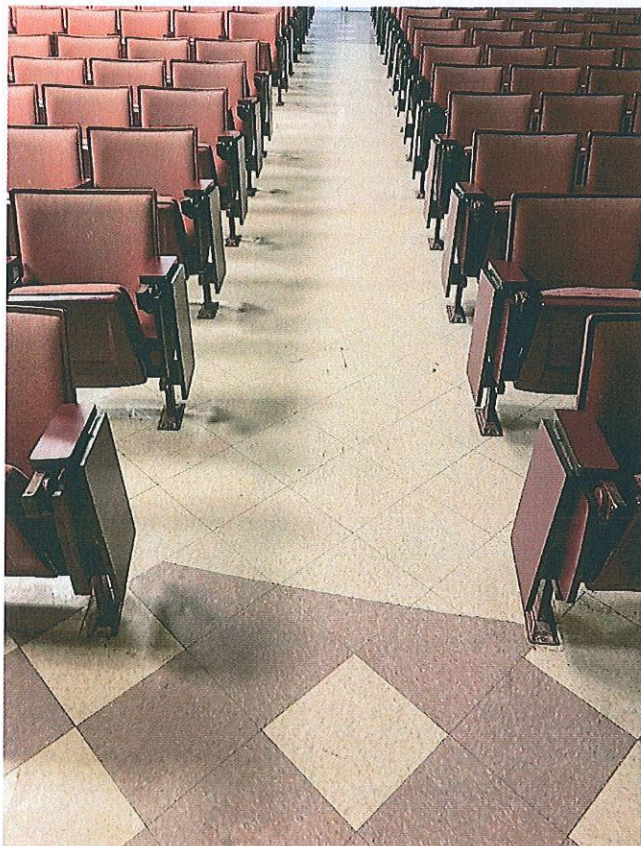


**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Administration Area**

Selective Photos

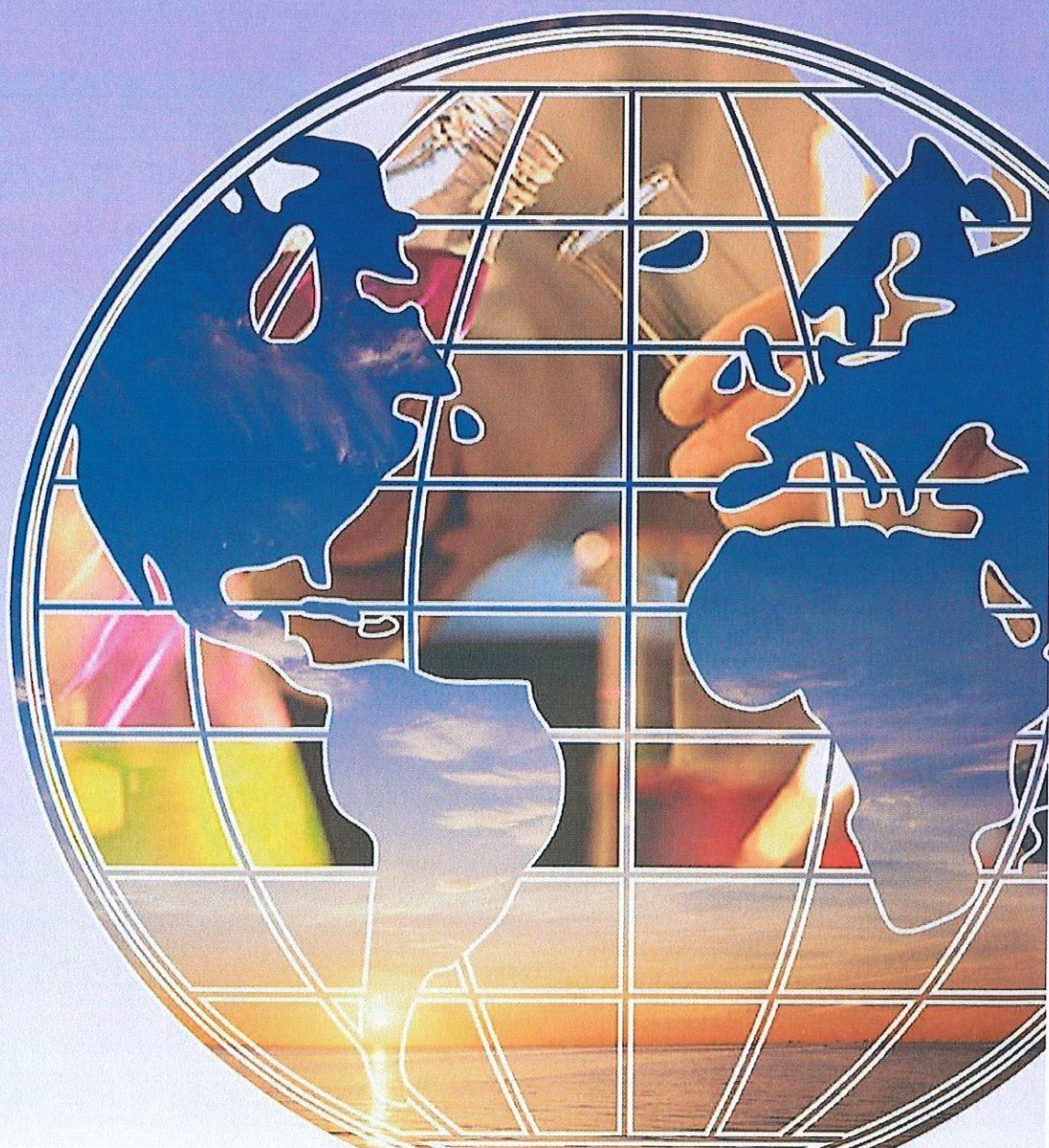


**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Auditorium Area**

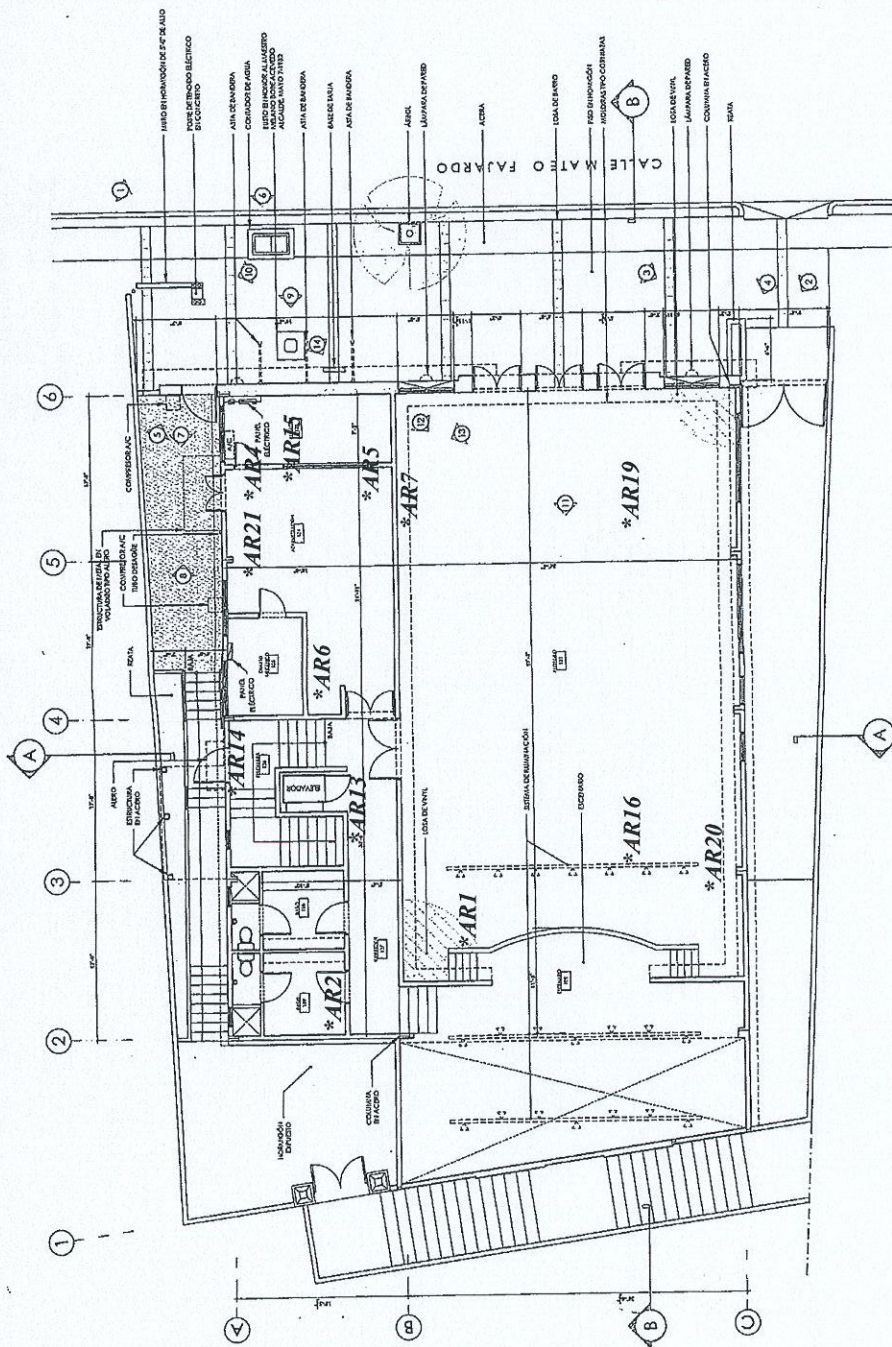


**Asbestos Containing Black Mastic under
Pink and Cream Vinyl Floor Tiles
Auditorium Area**

Appendix V



Schematic Location of Bulk Sampling Points at Juanita Arenas Theater- Ground Floor, Hormigueros, Puerto Rico.



PLANTA PRIMER PISO
Escala: 3/16" = 1'-0"

PLANTA DE PRIMER PISO

[illegible]

EX 101

4

•

UT-DE CERTIFICACIONES

THE NEW YORK TIMES MAGAZINE

NOTES ON CONTRIBUTORS

[illegible]

GEORGE BUGAU FAJA ARQUITECTOS PSC
1001 WOODLAND BLVD. SUITE 1000
LOS ANGELES, CA 90024
TEL: 213.467.1111 FAX: 213.467.1112
WWW.BUGAU.COM

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

13

1

PLANTA DE PRIMER PISO

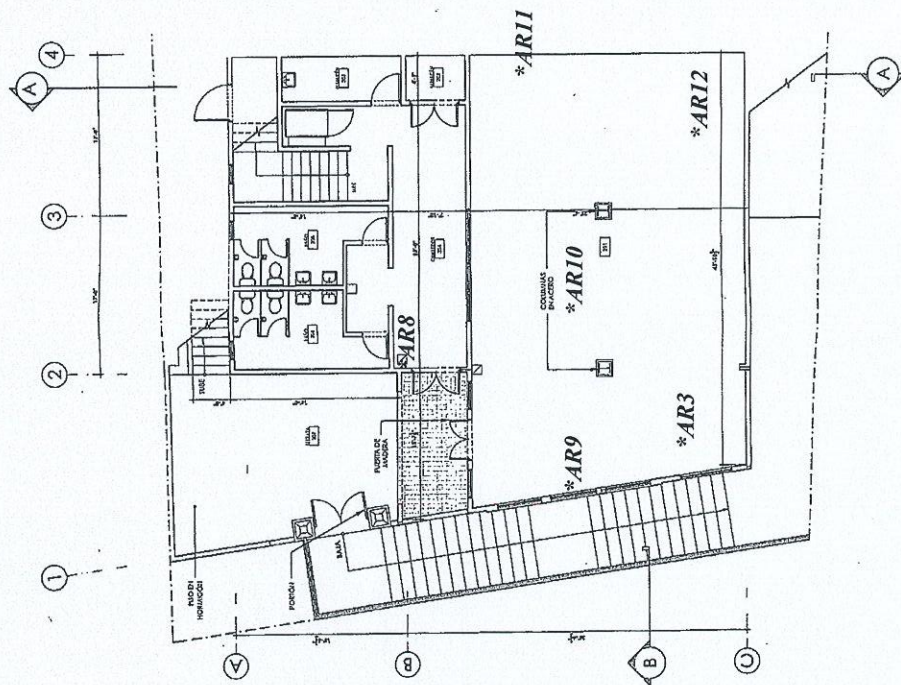
[illegible]

EX 101

4

•

Schematic Location of Bulk Sampling Points at Juanita Arenas Theater-Basement, Horámigueros, Puerto Rico.



PLANTA SÓTANO
DCA: 2/11 = 1.47

PLANTA SOTANO

10	PROYECTO 15-01	DISEÑO: INGENIERO DE HIDRAULICA DRAZINER E. BARRA	BOCUE: JEF. DE RECH. 15-01-2018 FOLIO 11 DE 11 MUEL 3-2018-000000
----	-------------------	---	--

EX.102

1

ПРОДАЖИ ИМПОРТА

CONTINUA

1. **THE COMPANY'S POLICY** IS TO PROVIDE A SAFE AND HEALTHY WORKING ENVIRONMENT FOR ALL EMPLOYEES.

LIST OF GRANTING AGENCIES

[illegible]

RECORDED AND INDEXED BY REGISTRATION DIVISION OF THE
DEPT. OF REVENUE, CHICAGO, ILL. JAN 11 1967

[illegible]

VERGARA FANA ARQUITECTOS PSC

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOLMQUIROS, PUERTO RICO

—

1

[illegible]

Legend:
Asbestos Containing VFT/Mastic

Asbestos Containing Mastic on Floor

[illegible]

JORGE RIGAU FIA ARQUITECTOS PSC
CAR. INCEP. FANT. LUB. 4.98, LAS BAYAS 1.114.046, PUERTO RICO 00909

RESTAURACIÓN Y DISEÑO DE MEJORAS
TEATRO DE JUANITA ARENAS
HOMBAYUERO, FUERTO RICO

PLANTA SOTANO

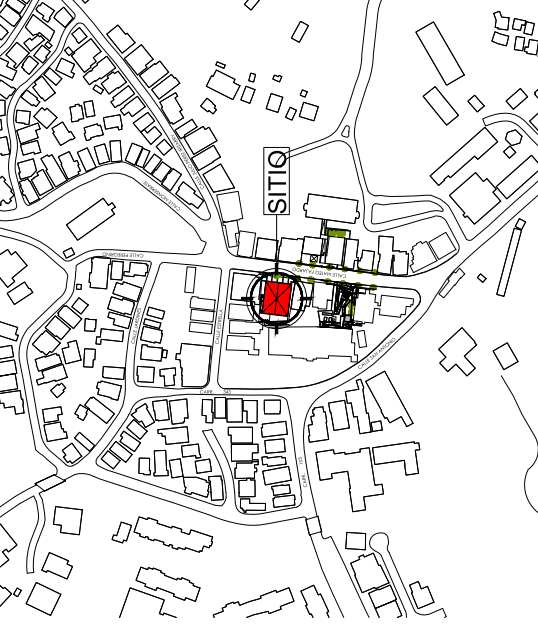
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92	92	92	92	92
93	93	93	93	93
94	94	94	94	94
95	95	95	95	95
96	96	96	96	96

3 CALLE MALEO I AJARDO, TITONMIGUELLOS, TUNENICO
HON. PEDRO I. GARCÍA FIGUEROA, ALCALDE
DOCUMENTOS DE CONSTRUCCIÓN - 60%
10 DE MARZO DE 2022

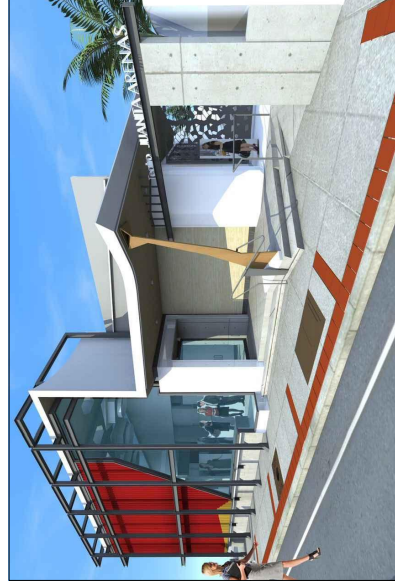
HON. PEDRO J. GARCÍA FIGUEROA, ALCALDE

DOCUMENTOS DE CONSTRUCCIÓN - 60%

SÍMBOLO	LEYENDA
	TÍTULO DE DIBUJO
	NÚMERO DE ESPACIO
	ELEVACIÓN DE PISO
	DRINAJE DE PISO (NIVEL)
	CAMBIO EN NIVEL
	VENTANA
	PUEBLA
	PORTÓN
	PENDIENTE
	NIVEL DE PISO TERMINADO
	DETALLES Y AMPLIFICACIÓN
	CORTE
	CORTE 2º PARED
	EAS
	ALAJADOS EXTERIORES
	SECCIÓN
	NO INCLUIDO EN CONTRATO



SÍMBOLO	LEYENDA
	TÍTULO DE DIBUJO
	NÚMERO DE ESPACIO
	ELEVACIÓN DE PISO
	DRINAJE DE PISO (NIVEL)
	CAMBIO EN NIVEL
	VENTANA
	PUEBLA
	PORTÓN
	PENDIENTE
	NIVEL DE PISO TERMINADO
	DETALLES Y AMPLIFICACIÓN
	CORTE
	CORTE 2º PARED
	EAS
	ALAJADOS EXTERIORES
	SECCIÓN
	NO INCLUIDO EN CONTRATO



PERSPECTIVA #2



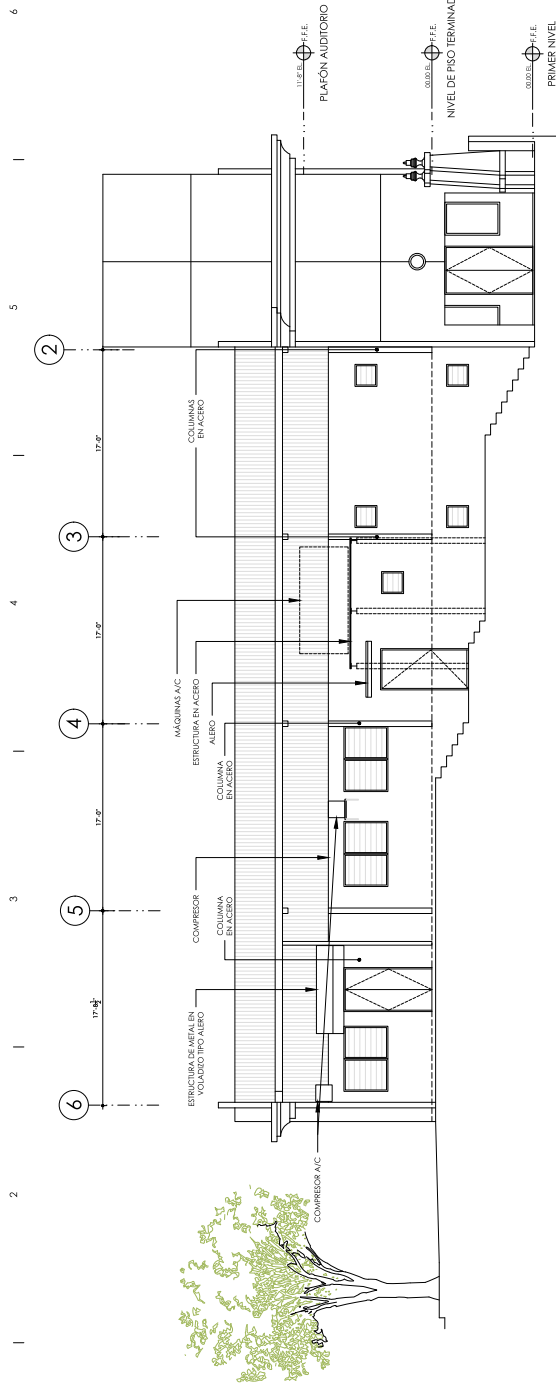
FOTO AEREA



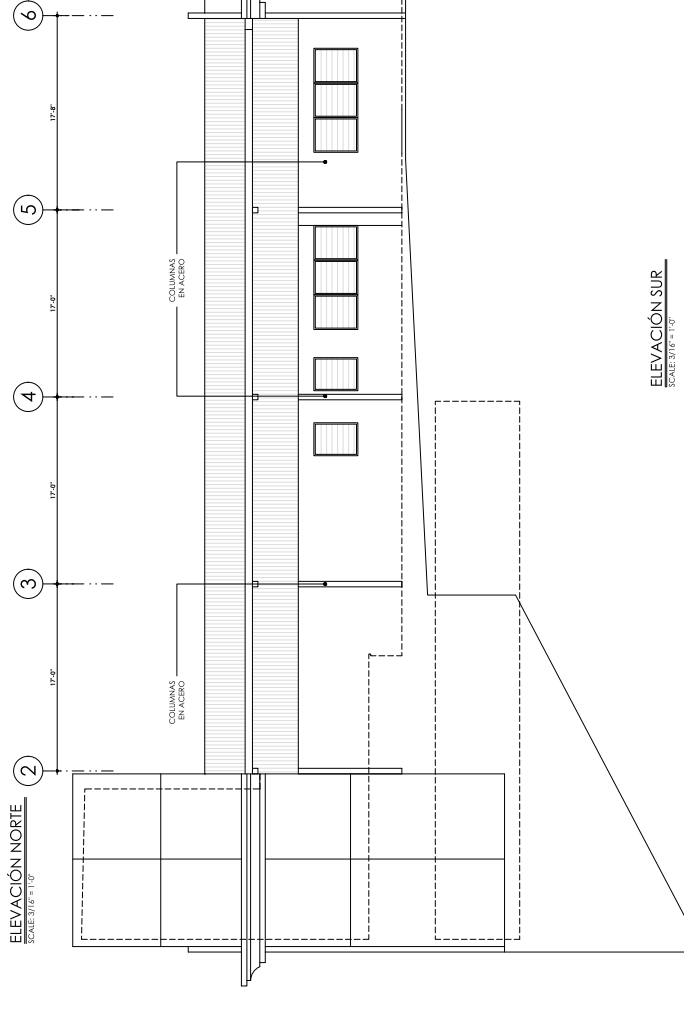
MAPA DE CALIFICACIÓN DE SUELO



PREPAGO	HOJA TÍTULO	Nº FOLIA	G-001
USUARIO	MUNICIPIO DE HORNACHURFE HON. PEDRO J. GARCÍA, ALCALDE	PAE	EXAMINADOR DE CONSTRUCCIÓN
FECHA	10 DE MARZO DE 2022	IMPRESO	3/9/2022 10:49:46 AM



ELEVACIÓN NORTE
SCALE-3/16" = 1'-0"



ELEVACIÓN SUR
SCALE: 3/16" = 1'-0"

[illegible]

JORGE SEGALLA ARQUITECTOS PSC
 UNB, HYDE PARK 665 AVE. LAS MARIAS, SAN JUAN, PUERTO RICO 00927
 TEL: (787)762-2032 FAX: (787)762-2036 EMAIL: OFICINA@JORGEAL.COM

DOCUMENTOS DE CONSTRUCCIÓN

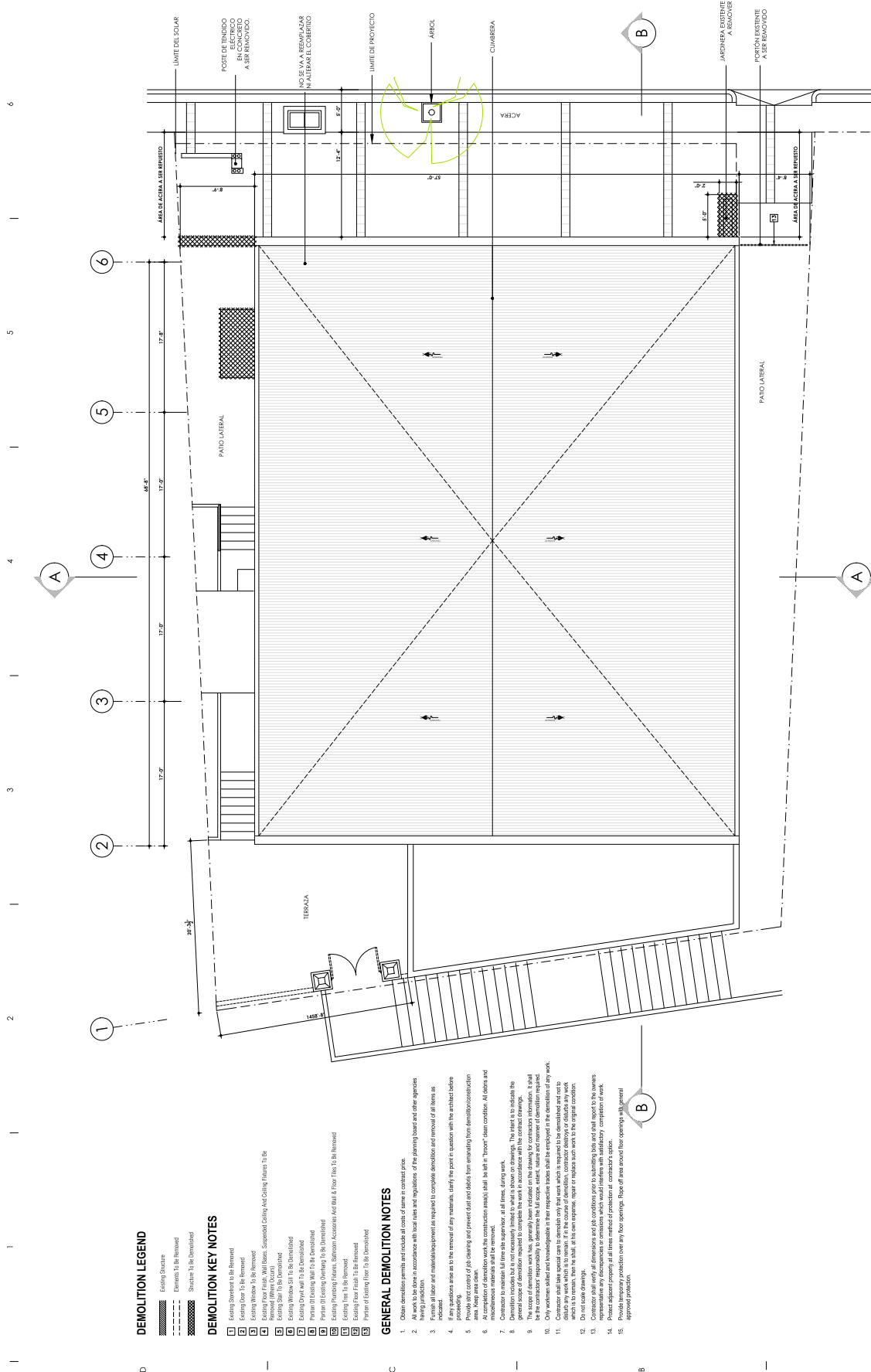
MEJORAS AL TEATRO JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

2018

ELEVACIONES

ESCALA: 3/16" = 1'-0" FECHA: MARZO 10, 2022 PROYECTO: 2022011605 Ave	DUÑO: MUNICIPIO DE HORMIGUEROS HON. PEDRO J. GARCÍA FIGUEROA
--	--

	Nº HOJA:	EX.302
	AREA:	



REVISIONES		
FECHA	DESCRIPCIÓN	FECHA APROB.

JORGE BERGUA FAIA ARQUITECTOS PSC
SRL, FFDE PARK 655 AVE. LAS MARÍAS, SAN JUAN, PUERTO RICO 00927
TEL: (787) 992-3020 FAX: (787) 992-0004 EMAIL: JBERGUA@JBERGUA.COM

DOCUMENTOS DE CONSTRUCCIÓN

MEJORAS AL TEATRO JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

PLANTA DE TECHO

	N° HOJA: XD.100	ESCALA: $3/16" = 1'0"$
		FECHA: MARZO 10, 2022 AUTORE: 3000202-1510-AM PROYECTO: ZONAS VERDE
DUEÑO: MUNICIPIO DE HORMIGUEROS HON. PEDRO J. GARCIA FIGUEROA		

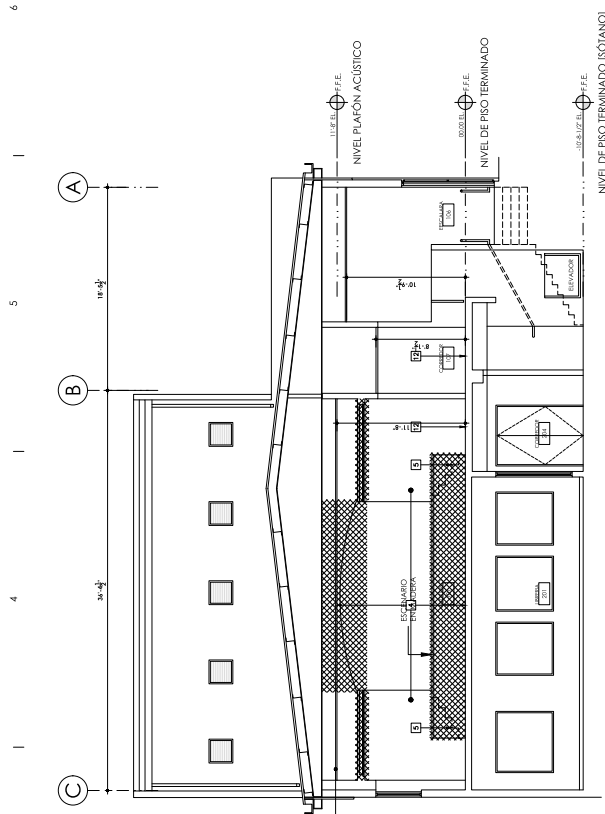
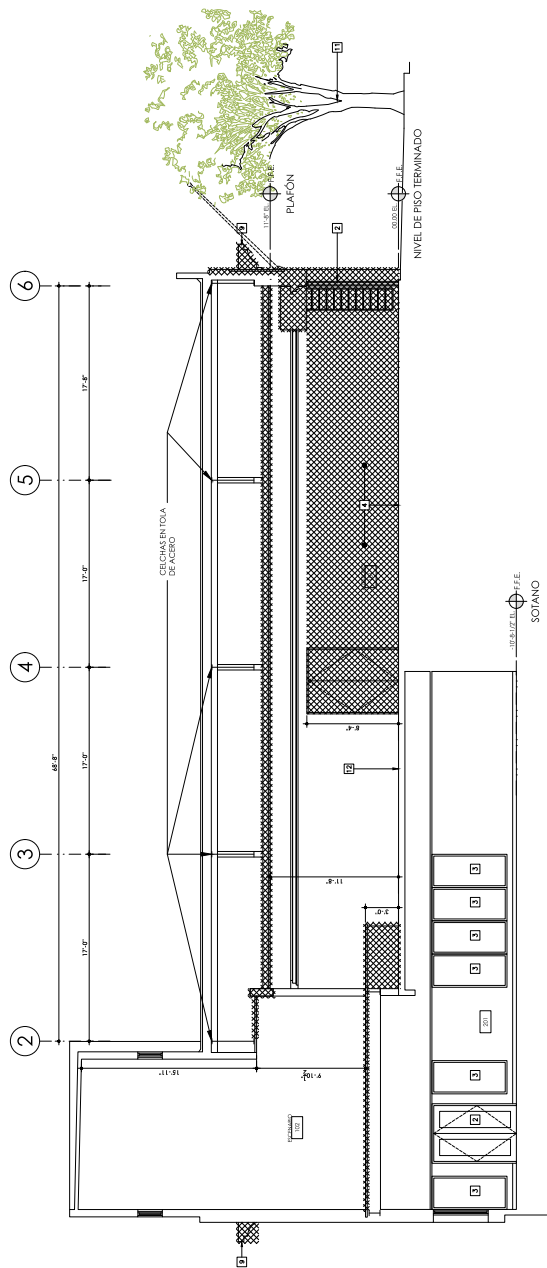
LEY DE CERTIFICACIONES

4. *Phlebotomus* demissionis sensu lato includes all species of *sensu lato* in subgenus *sensu lato*.

- 1

 Published online: November 14, 2016

1

SECCIÓN A-A

SECCIÓN B-B
ESCALA: 3/16" = 1'-0"

[illegible]

- | DEMOLITION LEGEND | |
|---|----------------------------|
|  | Existing Structure |
|  | Elements to be Removed |
|  | Structure to be Demolished |
-
- | DEMOLITION KEY NOTES | |
|----------------------|--|
| 1 | Existing Structure to be Removed |
| 2 | Existing Door to be Removed |
| 3 | Existing Window to be Removed |
| 4 | Existing Floor Finish Wall/Born Separated |
| 5 | Existing Floor Finish Wall/Born to be Demolished |
| 6 | Existing Window to be Demolished |
| 7 | Existing Drywall wall to be Demolished |
| 8 | Portion of Existing Wall to be Demolished |
| 9 | Portion of Existing Opening to be Demolished |
| 10 | Existing/Existing Elements, Same Access |
| 11 | Existing Item to be Removed |
| 12 | Existing Floor Finish to be Removed |
| 13 | Portion of Existing Floor to be Demolished |

GENERAL DEMOLITION NOTES

- [illegible]

69

13. Contractor shall verify all dimensions and job conditions prior to submitting bids and shall report to the owners representative any discrepancies or omissions which would interfere with satisfactory completion of work.
14. Protect adjacent property at all times method of protection at contractor's option.
15. Provide temporary protection over any floor openings. Rope off area around floor openings with general approved protection.

A

15. Provide temporary protection over any floor openings. Rope off area around floor openings with general approved protection.

DEMOLITION LEGEND

Existing Structure	Elements To Be Removed	Structure To Be Demolished
--------------------	------------------------	----------------------------

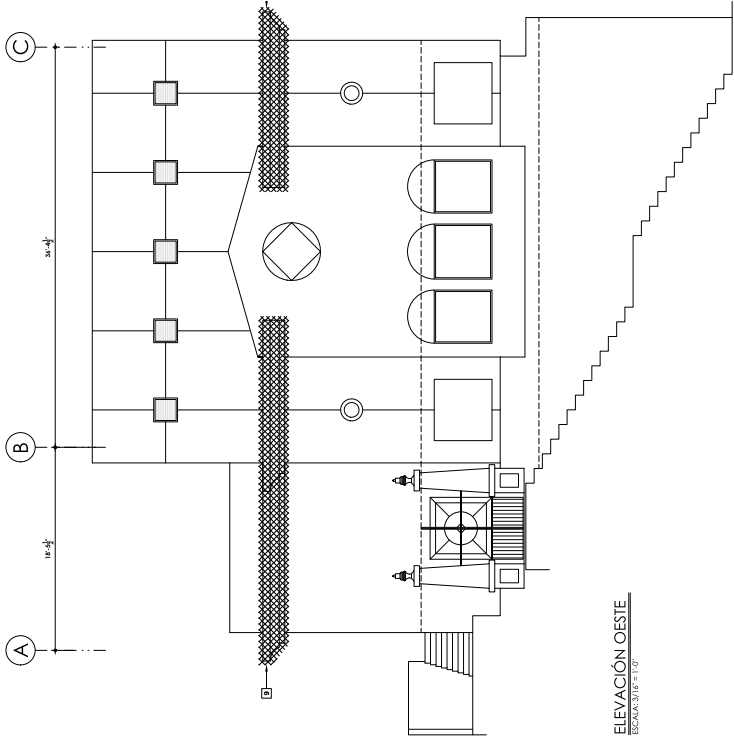
DEMOLITION KEY NOTES

- 1 Existing Staircase to Be Removed
- 2 Existing Door to Be Removed
- 3 Existing Window to Be Removed
- 4 Existing Floor Finish, Wall Bases, Suspended Ceiling and Ceiling Fixtures to Be Removed
- 5 Existing Interior Wall Bases, Suspended Ceiling and Ceiling Fixtures to Be Removed
- 6 Existing Window Sill to Be Demolished
- 7 Existing Window to Be Demolished
- 8 Existing Wall to Be Demolished
- 9 Existing Wall to Be Demolished
- 10 Existing Floor Finish, Wall Bases, Suspended Ceiling and Ceiling Fixtures to Be Removed
- 11 Existing Floor Finish, Wall Bases, Suspended Ceiling and Ceiling Fixtures to Be Removed
- 12 Existing Floor Finish, Wall Bases, Suspended Ceiling and Ceiling Fixtures to Be Removed

GENERAL DEMOLITION NOTES

- [illegible]

ELEVACIÓN ESTE



ELEVACIÓN OESTE

INFORMACIÓN IMPORTANTE PARA EL

[illegible]

KEY

EL JORGE IGUAL SEPTIEMBRE. TUBO CEMENTO QUE LOS
NACIONAL, QUE DESDE OTROS PAÍSES Y LAS OPERACIONES
COMPLEMENTARIAS, TAMBIÉN DESPUES DE ENTENDO QUE DICHO
CAMBIOS Y ESPECIFICACIONES CUERPO CON LAS DISPOSICIONES
FISCAL DE REGISTRO CONJUNTO Y LAS DISPOSICIONES
DE LOS AUTORES DE LOS AUTORES DE LOS AUTORES DE
REGLAMENTACIONES REGULACIONES O CONFORMACIONES PUBLICAS CON
REEDICION.

SE INDICADO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION
DE LA PRESENTACION Y LA SEÑAL PARA MI AGENTE O EMPLEADO, O POR
CUALQUIER PERSONA PROXIMA CON MI CONOCIMIENTO, ME HACEN RESPONSABLE
DE CUALQUIER ACCION JUDICIAL, DISCIPLINARIA POR LA COPIA Y
LAS AUTORIDADES COMPETENTES, INCLUIDO PERO SIN LIMITAR
LA ACCION PENAL, EN LOS PROCEDIMIENTOS DE
INVESTIGACION INTERPOLAR EN LA DROGA.

- EL CONTRATISTA DEBE RESPONDER LA ACERA EXISTENTE

DOCUMENTOS DE CONSTRUCCIÓN

MEJORAS AL TEATRO JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

2017

ELEVACION ESTE & OESTE

ESCALA: 3/16" = 1'-0" FECHA: MARZO 10, 2022 HABIDO: 300565 155 AM INSTRUMENTO: JUNIPER AUTOMATED	Nº HOJA: XD.301
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[illegible]

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SOUND SYSTEM		
Qty.	Description	Equal or Similar to
CONTROL ROOM EQUIPMENT		
Qty.	Description	Equal or Similar to
1	50 Mc. Stereo 15" x 15" x 15" 300 Watt Solid state 4 effects, 28 inputs including 12 Aux, 8 groups, 4 profiles plus 1/2" 1600 Hz, 1000 Hz, 100 Hz, 10 Hz, 1 Hz, 1/2 Hz, 1/4 Hz, 1/8 Hz, 1/16 Hz, 1/32 Hz, 1/64 Hz, 1/128 Hz, 1/256 Hz, 1/512 Hz, 1/1024 Hz, 1/2048 Hz, 1/4096 Hz, 1/8192 Hz, 1/16384 Hz, 1/32768 Hz, 1/65536 Hz, 1/131072 Hz, 1/262144 Hz, 1/524288 Hz, 1/1048576 Hz, 1/2097152 Hz, 1/4194304 Hz, 1/8388608 Hz, 1/16777216 Hz, 1/33554432 Hz, 1/67108864 Hz, 1/134217728 Hz, 1/268435456 Hz, 1/536870912 Hz, 1/1073741824 Hz, 1/2147483648 Hz, 1/4294967296 Hz, 1/8589934592 Hz, 1/17179869184 Hz, 1/34359738368 Hz, 1/68719476736 Hz, 1/137438953472 Hz, 1/274877907344 Hz, 1/549755814688 Hz, 1/1099511629376 Hz, 1/2199023258752 Hz, 1/4398046517504 Hz, 1/8796093035008 Hz, 1/17592186070016 Hz, 1/35184372140032 Hz, 1/70368744280064 Hz, 1/140737488560128 Hz, 1/281474977120256 Hz, 1/562949954240512 Hz, 1/1125899908481024 Hz, 1/2251799816962048 Hz, 1/4503599633924096 Hz, 1/9007199267848192 Hz, 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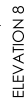
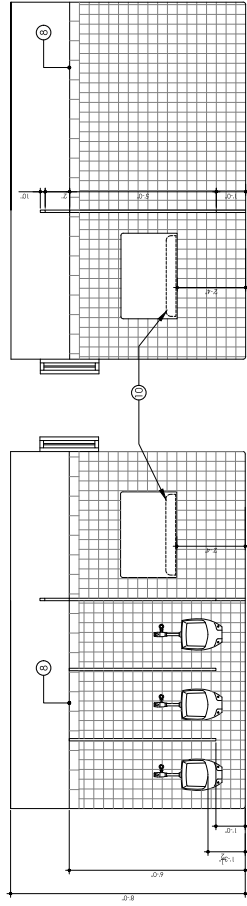
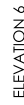
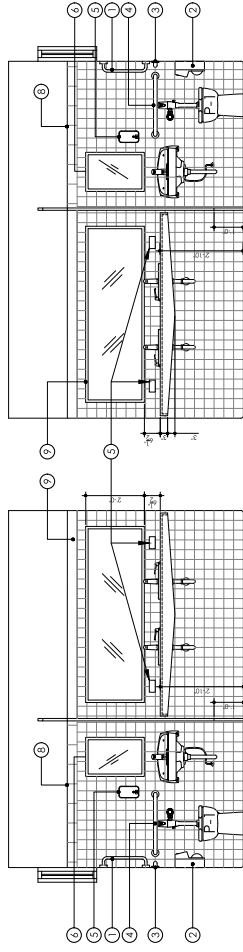
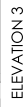
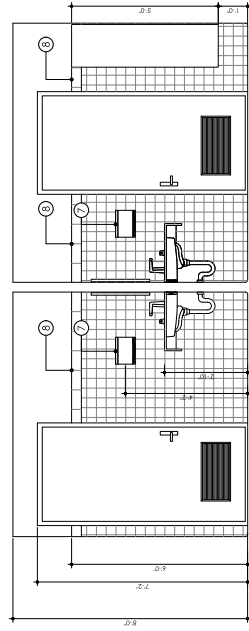
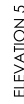
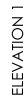
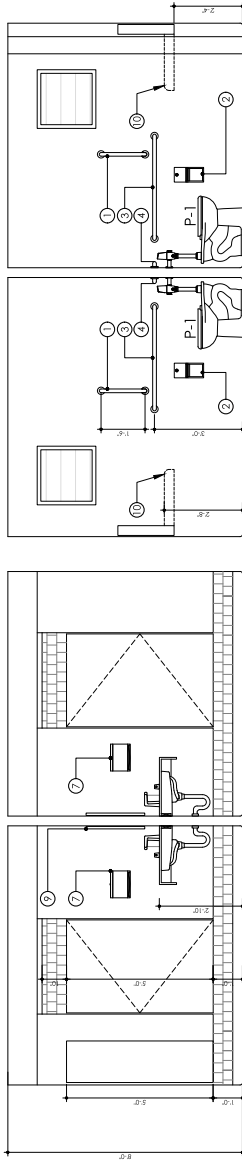
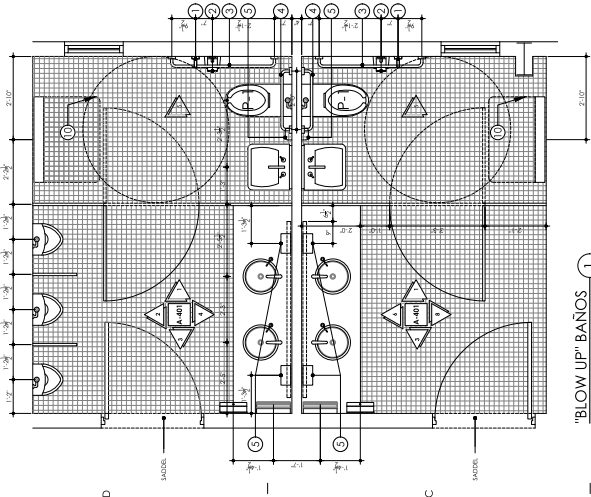
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TABLE 2: CHARACTERISTICS OF DATA						
SAMPLES	TYPE OF DATA	NUMBER OF FEATURES	NUMBER OF CLASSES	NUMBER OF TRAINING SAMPLES	NUMBER OF TEST SAMPLES	CHARACTERISTICS
1	CHARACTERISTICS OF VIBRATION	10	5	10000	1000	SHARPLEST STEEL
2	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL
3	CHARACTERISTICS OF VIBRATION	10	5	10000	1000	SHARPLEST STEEL
4	CHARACTERISTICS OF VIBRATION	10	5	10000	1000	SHARPLEST STEEL
5	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL
6	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL
7	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL
8	CHARACTERISTICS OF VIBRATION	10	5	10000	1000	SHARPLEST STEEL
9	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL
10	PERFORMANCE	10	5	10000	1000	SHARPLEST STEEL

INFORMACIÓN IMPORTANTE PARA EL[illegible][illegible]

RALES:

- EL CONTRATISTA DEBE RESPONDER LA ACERA EXISTENTE HASTA LLEGAR A LA NUEVA EXPANSIÓN

[illegible]

JOSÉ MIGUEL FAYÀ ARQUITECTOS PSC
1801 HTCE PARK 455 AVE. LAS MARINAS, SAN JUAN, PUERTO RICO 00927
TEL: (787) 931-0002 FAX: (787) 931-0066 EMAIL: OFICINA@JOSMIGUEL.COM

DOCUMENTOS DE CONSTRUCCIÓN

MEJORAS AL TEATRO JUANITA ARENAS

HORMIGUEROS, PUERTO RICO

20185

BAÑOS PRIMER NIVEL

DUEÑO: MUNICIPIO DE HORMIGUEROS HON. PEDRO J. GARCÍA FIGUEROA	ESCALA: 3/16" = 1'-0" FECHA: MARZO 10, 2022 LUGAR: 3/10/2022 2:59 PM DISEÑADOR: JGPA ACERDADO
Nº HOJA:	A.401

NOTA:

Trabajos de rehabilitación de baños existente no están incluidos en esta fase.

[illegible]

LEY DE CERTIFICACIONES

NO, JORGE RIVAI FERRI LORCENA, 7450 GRIFFITH, QUE SOTI B. PROFESIONAL, QUE DIERON SEUS PLANOS Y LAS ESPECIFICACIONES COMPLEMENTARIAS, TAMBIEN CERTIFICÓ QUE ENTENDO QUE DICHO DISEÑO Y ESPECIFICACIONES SON VERDADEROS Y CORRECTOS, Y QUE LAS MISMAS SE APLICARON DEL DISEÑO Y ESPECIFICACIONES CONTENIDAS EN LOS PLANOS Y ESPECIFICACIONES DE LA AGENDA, ASÍ COMO LAS DISEÑOS Y ESPECIFICACIONES DE LAS EMPRESAS REGISTRADAS O CORPORACIONES PUBLICAS CON JURISDICCION.

RECONOCIENDO QUE CUALQUIER DECLARACION FALSA O FALSIFICACION DE LOS HECHOS QUE SE HAYA PRODUCIDO SIN CONOCIMIENTO O POR NEGLIGENCIA, DEBERA SER CONSIDERADA UN DELITO, Y DEBERA SER PUNALIZADA POR LAS AUTORIDADES COMPETENTES, Y DEBERA SER CONSIDERADA COMO TAL POR CUALQUIER ACCION JUDICIAL, Y DISCIPLINARIA POR LA COLEGIO DE INGENIEROS, Y DEBERA SER CONSIDERADA COMO TAL POR LAS OTRAS AUTORIDADES COMPETENTES INCLUIDO EN EL DISEÑO Y ESPECIFICACIONES DE LA AGENDA, ASÍ COMO LAS DISEÑOS Y ESPECIFICACIONES DE LAS EMPRESAS REGISTRADAS O CORPORACIONES PUBLICAS CON JURISDICCION.

[illegible]

DOMINGUEZ AND FALA ARCHITECTOS PSC
1001 WIDE PARK 355 AVE. LAS MARINAS, SAN JUAN, PUERTO RICO 00927
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DOCUMENTOS DE CONSTRUCCIÓN

MEJORAS AL TEATRO JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

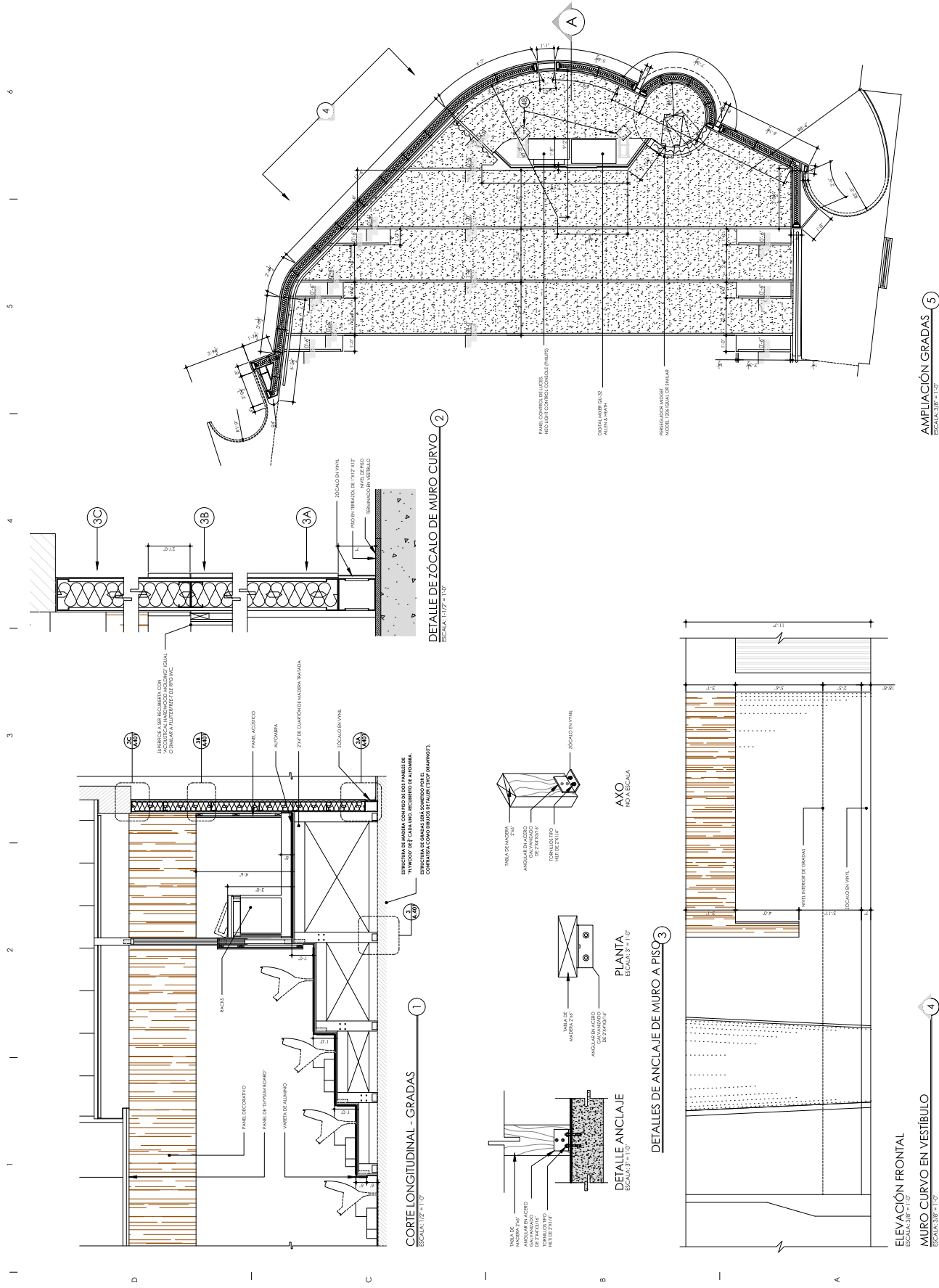
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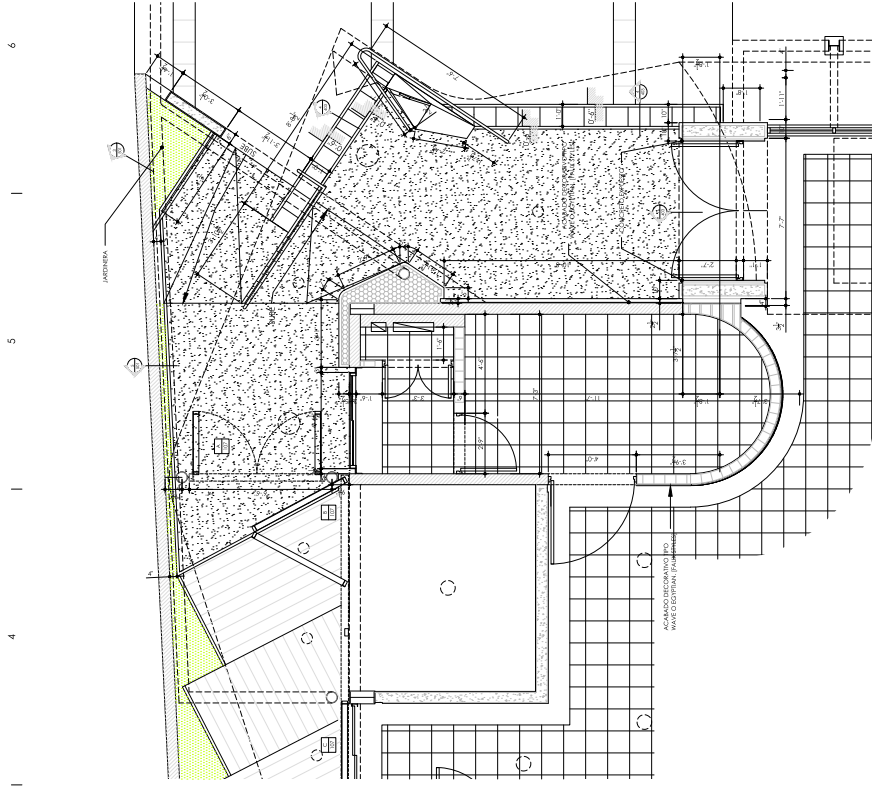
©/m

AMPLIACIÓN Y DETALLES DE GRADAS

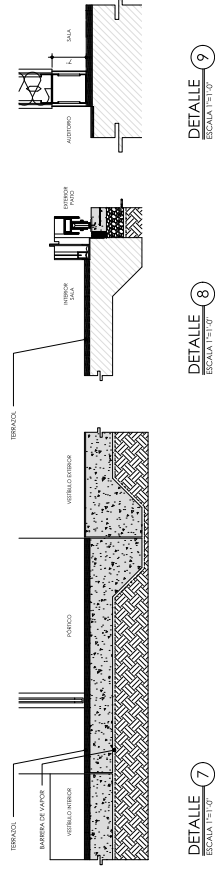
DUÑO: MUNICIPIO DE HORMIGUEROS HON. PEDRO J. GARCÍA FIGUEROA	ESCALA: 3/16" = 1'-0" FECHA: MARZO 10, 2022 DISEÑADO: 1-2022 10:28 PM
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Nº HOJA;	A 103	LINEAS DE 2020 A 2023
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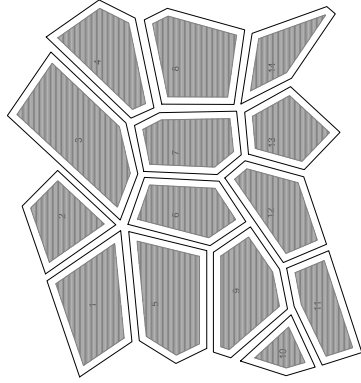
AMPLIACIÓN ÁREA DE VENTAS & ALMACÉN 3



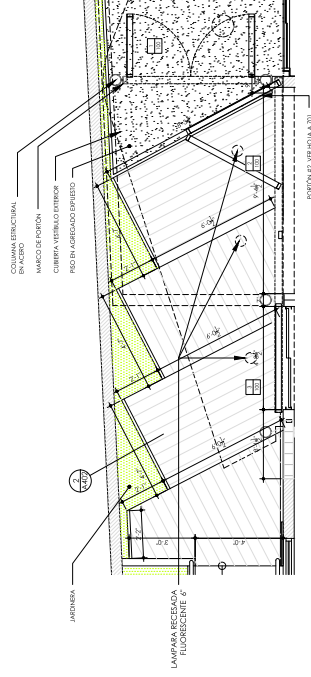
DETALLE 7
ESCALA 1"=1'-0"

8
DETALLE
ESCALA 1"=1'-0"

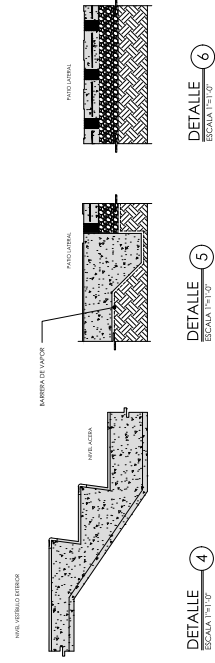
DETALLE 9
ESCALA 1"=1'-0"



AMPLIACIÓN MÓDULO TÍPICO DEL PATRÓN DE PISO



AMPLIACIÓN PATIO LATERAL NORTE ②



DETALLE
ESCALA 1"=1'-0"

DETALLE 5
ESCALA 1"=1'-0"

DETALLE 6
ESCALA 1"=1'-0"

INFORMACIÓN IMPORTANTE PARA EL

[illegible]

LEY DE CERTIFICACIONES

[illegible]

NOTAS GENERALES:

- EL CONTRATISTA DEBE RESPONDER LA ACERA EXISTENTE HASTA LLEGAR A LA NUEVA EXPANSIÓN

[illegible]

JORGE BERGUA FAIA ARQUITECTOS PSC
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TEL: (337) 783-0002 FAX: (337) 783-0006 EMAIL: OMCN@JBERGUA.COM

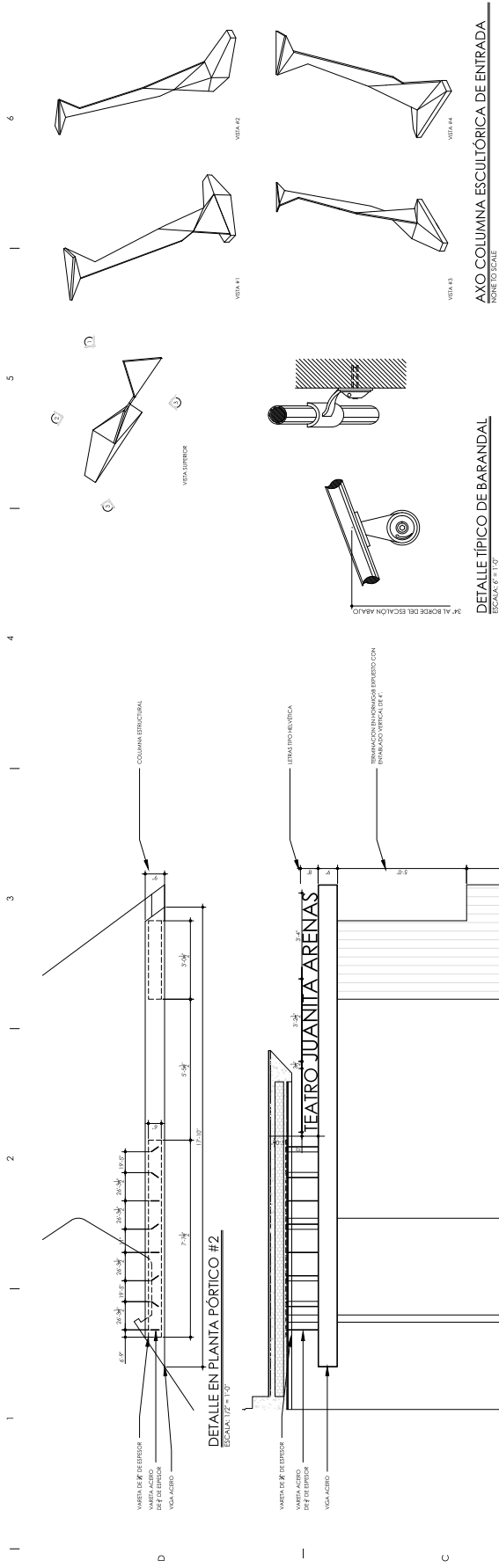
DOCUMENTOS DE CONSTRUCCIÓN

MEJORAS AL TEATRO JUANITA ARENAS
HORMIGUEROS, PUERTO RICO

20185

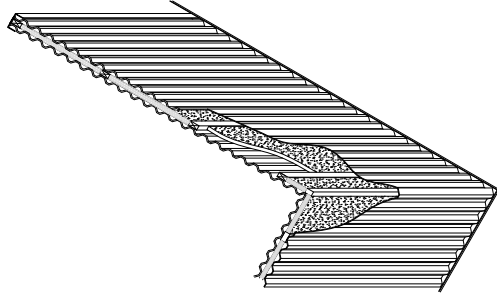
AMPLIACIÓN VESTÍBULO
EXTERIOR

DUEÑO: MUNICIPIO DE HORMIGUEROS HON. PEDRO J. GARCÍA FIGUEROA	ESCALA: $3/16" = 1'-0"$ FECHA: MARZO 10, 2022 DISEÑO: 3/10/2022 10:58 PM AUTOCAD: JORGE ACUNZADO
Nº HOJA:	A.403

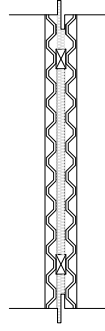


AXO COLUMN ESCULTÓRICA DE ENTRADA
NONE TO SCALE

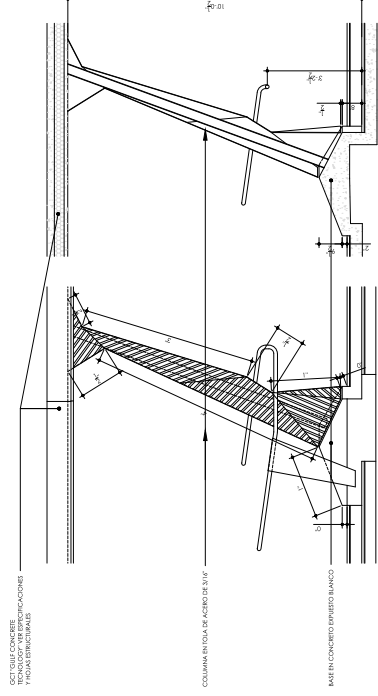
DETALLE TÍPICO DE BARANDAL
ESCALA: 6" = 1'-0"



DETALLE #1
ESCALA: 3/4" = 1'-0"



DETALLE #1
ESCALA: 3/4" = 1'-0"



DETALLE COLUMNA ESCULTÓRICA DE ENTRADA
ESCALA: 1/2" = 1'-0"

[illegible]



GOBIERNO DE PUERTO RICO
Departamento de la Vivienda

13 de enero de 2020

Arq. Carlos A. Rubio Cancela
Director Ejecutivo
Oficina Estatal de Conservación Histórica
Cuartel de Ballajá (Tercer Piso)
Calle Norzagaray, Esquina Beneficiencia
San Juan, Puerto Rico

Re: Autorización para Someter Documentos

Estimado Arq. Rubio Cancela:

El Departamento de Vivienda y Desarrollo Urbano (HUD, por sus siglas en inglés) de los Estados Unidos aprobó una asignación de fondos tipo Subvención en Bloque para el Desarrollo Comunitario (CDBG-DR, por sus siglas en inglés) el 9 de febrero de 2018. El objetivo de esta asignación es atender necesidades insatisfechas a consecuencia del paso de los huracanes Irma y María ocurrido en septiembre de 2017.

Para cumplir con los requisitos ambientales que establece HUD, el Departamento de Vivienda de Puerto Rico contrató a Horne Federal, LLC para proporcionar servicios de revisión de registros ambientales, entre otros, que respaldarán los objetivos de la agencia para el Programa CDBG-DR.

En el ánimo de agilizar los procesos se autoriza a Horne Federal, LLC, a presentar ante la Oficina Estatal de Preservación Histórica, documentación de los casos relacionada al Programa CDBG-DR en representación del Departamento de Vivienda.

Cordialmente,



Dennis G. González Ramos, PE MEM
Subsecretario
Programa CDBG-DR