

US Environmental Protection Agency – Region 2
 Caribbean Environmental Protection Division
 Response and Remediation Branch



Resource Conservation and Recovery Act (RCRA)
 Compliance Evaluation Inspection

Facility Name:	Hamilton Sundstrand de Puerto Rico, Inc.		
EPA ID Number:	PRD987380078		
FRS:	110042087256		
Date of Inspection:	January 10, 2024		
Generator Status in Record:	Large Quantity Generator (LQG)		
Generator Status at the time of inspection:	LQG		
RCRA Permitted:	No		
Basis for Inspection:	Core Program		
Corrective Action:	No		
Potential EJ Concern	Yes. At least 3 EJ Indexes above the 80% USA Percentile. (See Appendix C)		
Potential Flood Prone Area	No. (See Appendix D)		
Facility Physical Location: (Municipality, PR, zip code)	Felicia Industrial Park PR-576 Km 0.7 Santa Isabel, PR 00757		
Mailing Address:	PO Box 2805 Santa Isabel, PR 00757		
Geographical Coordinates:	17.960035, -66.405047		
Facility Owner:	Hamilton Sundstrand de Puerto Rico, Inc. Felicia Industrial Park PR-576 Km 0.7 Santa Isabel, PR 00757		
Facility Operator:	Hamilton Sundstrand de Puerto Rico, Inc. Felicia Industrial Park PR-576 Km 0.7 Santa Isabel, PR 00757		
NAICS:	336413; Other Aircraft Parts and Auxiliary Equipment Manufacturing		
SIC:	3728; Aircraft Parts and Equipments		
Area:	~200,000 square feet		
Number Employees:	~1,300		
Personnel participating in the inspection:			
Name	Affiliation	Title	Contact Information
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Agnes Velazquez	Collins Aerospace	Associate Director, EH&S	787-354-0805; agnes.velazquez@collins.com

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

Liza M. Rivera	Collins Aerospace	Principal, EH&S Specialist	787-502-3406; liza.riveratorres@collins.com
Status:	Final		
Record Schedule:	1044(c)		
EPA Inspector Signature/Date	X  Digitally signed by CARLOS COLOMBANI DN: c=US, o=U.S. Government, ou=Environmental Protection Agency, cn=CARLOS COLOMBANI, 0.9.2342.19200300.100.1.1=680010036677 85 Date: 2024.02.01 06:23:39 -04'00' Adobe Acrobat version: 2023.008.20470 Carlos Josue Colombani Enforcement Officer		
Supervisor Signature/Date	X DAVID CUEVAS- MIRANDA Digitally signed by DAVID CUEVAS-MIRANDA Date: 2024.02.01 07:07:21 -04'00' David N. Cuevas Miranda, Ph.D.		

CONTENTS

1	INTRODUCTION	4
2	OPENING CONFERENCE	4
2.1	Facility Background And Operation	5
2.2	Solid And Hazardous Waste Generation.....	5
3	FACILITY WALKTHROUGH	6
3.1	Satellite Accumulation Areas (SAAs) and Internal Central Accumulation Areas (CAAs)	6
3.2	Central Accumulation Areas (CAAs).....	7
3.3	Universal Waste	8
3.4	Used Oil	9
4	DOCUMENT REVIEW	9
5	CLOSING CONFERENCE	11
6	POTENTIAL AREAS OF CONCERN	11
7	ENVIRONMENTAL ASSISTANCE.....	12
8	APPENDICES	13

1 INTRODUCTION

On January 10, 2024, a Resource Conservation and Recovery Act (RCRA) Subtitle C Compliance Evaluation Inspection (CEI) was conducted at Hamilton Sundstrand de Puerto Rico, Inc. (the Facility), pursuant to Section 3007 of RCRA. As part of the inspection, an opening conference, walkthrough, document review and closing conference were conducted to evaluate the Facility's compliance with the requirements that govern hazardous waste generators, universal waste handlers and used oil generators, as applicable.

The Facility is located at Felicia Industrial Park PR-576 Km 0.7, Santa Isabel, Puerto Rico, 00757. See aerial photograph (Figure 1) below for reference.



Figure 1: Overview of Hamilton Sundstrand de Puerto Rico, Inc. Aerial Photograph

The purpose of this inspection was to evaluate the Facility's compliance with the RCRA requirements for hazardous waste management. Based on EPA's RCRAInfo database, the Facility is listed as a large quantity generator (LQG) of hazardous waste and the last onsite inspection by EPA was conducted on June 21, 2016. Under EPA Policy, LQGs are required to be inspected every five (5) years and thus, an inspection was due in 2021. During the COVID-19 pandemic, an Off-Site Compliance Monitoring activity was conducted for the Facility on April 28, 2021. The onsite inspection conducted on January 10, 2024, was unannounced.

2 OPENING CONFERENCE

I met with Ms. Agnes Velazquez, Associate Director of Environmental Health, and Safety, and with Ms. Liza M. Rivera, Principal Environmental Health, and Safety Specialist for the opening conference. I identified myself as an EPA RCRA enforcement officer, told the Facility representatives the purpose of the inspection, and offered an opportunity to claim confidential business information (CBI).

I then proceeded to request documents that would be needed to complete the compliance evaluation. These were the following:

- Hazardous waste manifests;
- Land disposal restrictions;
- RCRA personnel training;
- Contingency Plan;
- Quick reference guide;
- Biennial report; and
- Weekly inspections.

I also explained the areas that required a visit to ensure compliance with the regulations. A plan was put in place to ensure these areas were inspected during the walkthrough.

2.1 FACILITY BACKGROUND AND OPERATION

The Facility has been at its location since approximately 1992 when Sundstrand Corporation acquired it from Westinghouse. In 1999, it was acquired by United Technologies Corporation (UTC) to form Hamilton Sundstrand. Later in 2012, it merged with Goodrich Corporation forming UTC Aerospace Systems. In 2018, UTC Aerospace Systems and Rockwell Collins combined to form Collins Aerospace. Nonetheless, the Facility's legal name remains as Hamilton Sundstrand de Puerto Rico, Inc. The Facility is dedicated to the manufacturing of aircraft parts and has two (2) different processes or operations on site: electronics manufacturing and electromechanical manufacturing.

The electronic manufacturing process produces boards for different types of aircrafts. These are dock control unit cabins, auxiliary starters, power controls, turboprops, and air management system controls. The electromechanical manufacturing area produces auxiliary generator rotors, auxiliary generator exciter rotors, motor controller inductor transformers, common motor start controllers, ram air turbine generators and mixed flow fans. The final products are either for military or commercial use.

The Facility representatives reported that the plant currently employs approximately thirteen hundred (1,300) employees between four (4) shifts. From Monday through Friday, it operates a 24/7 schedule and on weekends there is a shift from 0600 to 1800 hours. Hamilton Sundstrand de Puerto Rico, Inc. covers an area of about two hundred thousand (200,000) square feet.

2.2 SOLID AND HAZARDOUS WASTE GENERATION

Hamilton Sundstrand de Puerto Rico, Inc. generates hazardous and nonhazardous wastes mainly from its electronic and electromechanical manufacturing areas. These areas have multiple Satellite Accumulation Areas (SAAs) and internal Central Accumulation Areas (CAAs). The Facility accumulates its hazardous and non-hazardous waste in two (2) main CAAs, also known as buildings PR1 and PR5. Hazardous waste is generated daily throughout the Facility.

Majority of the hazardous waste generated is shipped under waste codes D001 (ignitable), D002 (corrosive), D003 (reactive), D007 (chromium), D008 (lead), D009 (mercury-containing wastes), D011 (silver), D018 (benzene), D035 (methyl ethyl ketone), and F-listed spent non-halogenated solvents. Typically, the bulk of the hazardous waste is generated during cleaning processes and paint washes. The Facility utilizes Veolia Environmental Services LLC and Clean Harbors as their dedicated haulers.

3 FACILITY WALKTHROUGH

Ms. Velazquez and Ms. Rivera accompanied me during the facility walkthrough. The following areas were inspected for compliance:

- PR1 (Circuit card test and coating) Internal CAA;
- PR2 (Circuit card assembly) SAA and Internal CAA;
- PR3 (Electronic chassis assembly) Internal CAA;
- PR4 (Micro magnetic and electric motors) SAA and Internal CAA;
- PR5 (Manufacturing of electric motors, assembly and test) SAA;
- PR6 (Electric generators assembly) SAA and Internal CAA;
- PR12 (Electronics) SAA;
- CAA PR1, and
- CAA PR5.

The observations for each area are described below.

3.1 SATELLITE ACCUMULATION AREAS (SAAs) AND INTERNAL CENTRAL ACCUMULATION AREAS (CAAs)

As mentioned above, the PR2, PR4, PR5, PR6 and PR12 SAAs and the PR1, PR2, PR3, PR4 and PR6 internal CAAs were visited to evaluate compliance with the RCRA Regulations. The Facility representatives stated that the internal CAAs hazardous waste drums, which are dated with accumulation start dates, are moved to any of the main CAAs once they have been accumulated for fifty-five (55) days, and then, shipped offsite within two (2) weeks. The drums are usually kept in flammable safety cabinets (See Appendix A, Photograph One [1]).

SAAs

At the time of the inspection, the SAAs listed above had the following hazardous waste:

- a small container of used rags at PR2;
- a bucket of used rags at PR2;
- a 55-gallon drum of solid paint at PR4;
- a container of skydrol particulate at PR5;
- a container of recycling blend at PR5;
- a 55-gallon drum of solid paint at PR5;
- a 55-gallon drum of solid impregnation at PR6; and
- a 55-gallon drum of solder paste at PR12.

Although PR7 (repair station) was not visited due to minimal activity, the Facility provided a photograph of a 55-gallon drum of solid paint located at its SAA (See Appendix A, Photographs Two [2] and Three [3]).

The hazardous waste containers, bucket, and drums at the SAAs that I visited were closed, properly labeled with the words “hazardous waste”, with an indication of the nature of the hazard, and at or near the point of generation. Also, throughout the SAAs, spill kits were readily available.

Internal CAAs

At the time of the inspection, the internal CAAs listed above had the following hazardous waste:

- a 55-gallon drum of liquid paint dated January 8, 2024, at PR1;
- a 55-gallon drum of solid paint dated January 8, 2024, at PR1;
- a 55-gallon drum of liquid paint dated December 5, 2023, at PR2 (See Appendix A, Photograph One [1]);
- a 55-gallon drum of solid paint dated January 4, 2024, at PR2 (See Appendix A, Photograph One [1]);
- a 55-gallon drum of solid paint dated December 29, 2023, at PR3;
- a 55-gallon drum of liquid paint dated January 8, 2024, at PR3;
- a 55-gallon drum of solid paint dated January 8, 2024, at PR4;
- a 30-gallon drum of liquid paint dated December 5, 2023, at PR6; and
- a 55-gallon drum of solid impregnation dated January 10, 2024, at PR6.

At the time of the inspection, all internal CAAs had inventory logs to track the accumulation start date and the drum’s 55-day mark. In addition, the hazardous waste drums were closed, properly labeled with the words “hazardous waste”, accumulation start dates, with an indication of the nature of the hazard, and were in good condition. Spill kits and eye washing stations were available in each area. Also, there were fire extinguishers throughout the Facility, an alarm system in place, and the emergency contact information was posted outside of the flammable safety cabinets.

3.2 CENTRAL ACCUMULATION AREAS (CAAs)

CAA PR1

At the time of the inspection, the CAA PR1 was accumulating the following hazardous waste:

Hazardous Waste	Accumulation Start Date
• a 30-gallon drum of alcohol	• January 9, 2024
• a 55-gallon drum of machine cleaning solvent	• January 9, 2024

CAA PR5

At the time of the inspection, the CAA PR5 was accumulating the following hazardous waste:

Hazardous Waste	Accumulation Start Date
• a container of aerosols	• December 13, 2023
• two (2) 55-gallon drum of impregnation solids	• December 19, 2023; and • January 10, 2024.
• a 55-gallon drum of solid paint	• December 19, 2023
• a bucket of liquid paint	• December 20, 2023

Universal Waste	Accumulation Start Date
• a bucket of carbon batteries	• February 17, 2023
• a bucket of light-emitting diode (LED) lamps	• March 17, 2023
• a bucket of lamps containing mercury	• May 25, 2023
• a bucket containing ballast	• June 6, 2023
• a bucket of nickel-metal hydride batteries	• July 13, 2023
• two (2) tube of fluorescent lamps	• September 9, 2023; and • December 31, 2023
• two (2) buckets of fluorescent lamps	• October 31, 2023, and • December 22, 2023

At the time of the inspection, both CAAs had emergency spill kits and eye washing stations readily available, fire extinguishers present throughout the areas and fire sprinkler systems, the emergency contact information signage posted, a telephone and radio at reach in case emergency protocols had to be activated, and adequate aisle space to conduct a thorough inspection of the hazardous waste drums/containers. The drums/containers were properly labeled with the words “hazardous waste”, accumulation start dates and with an indication of the nature of its hazard. For an outside view of the CAAs, See Appendix A, Photographs Four (4), Five (5) and Six (6).

3.3 UNIVERSAL WASTE

The Facility accumulates universal waste at CAA PR5. Typically, it generates used fluorescent lamps and batteries. At the time of the inspection, the following universal waste was being accumulated:

Universal Waste	Accumulation Start Date
• a bucket of carbon batteries	• February 17, 2023
• a bucket of light-emitting diode (LED) lamps	• March 17, 2023
• a bucket of lamps containing mercury	• May 25, 2023
• a bucket containing ballast	• June 6, 2023
• a bucket of nickel-metal hydride batteries	• July 13, 2023

• two (2) tube of fluorescent lamps	• September 9, 2023; and • December 31, 2023
• two (2) buckets of fluorescent lamps	• October 31, 2023, and • December 22, 2023

The buckets and tube were closed, and properly labeled with the words “universal waste lamps/batteries/mercury” and accumulation start dates.

3.4 USED OIL

The Facility accumulates its used oil for recycling at CAA PR5 but was not accumulating any at the time of the inspection.

4 DOCUMENT REVIEW

During the inspection, I requested the documents listed under Section 2 of this report. Below are the observations noted after the document review was completed.

Weekly Inspections

Central Accumulation Areas

The weekly inspection records for the internal and main CAAs were audited on-site since they were readily available and provided by the Facility representatives after conducting the walkthrough. These are kept by key personnel in several folders. The inspection checklist includes checking for leaking containers and for deterioration of containers caused by corrosion or other factors, and for proper hazardous waste labels and accumulation start dates. The inspection checklists were reviewed for 2021, 2022, 2023, and for the first week of January 2024.

Contingency Plan

The Facility provided a copy of the contingency plan the day of the inspection since it must include specific information and it would require a more in-depth review. A contingency plan dated January 2022 (Revision R) was not signed, not submitted to local emergency responders, and it listed Mr. Nelson Baez as the primary emergency coordinator. Mr. Baez left the position in May 2022, requiring the Facility to review and amend the plan and list its current emergency coordinator which is Ms. Velazquez. The Facility made another plan available that was completed in 2019, which was not signed either. The last available signed/approved integrated contingency plan (includes the spill prevention, control, and countermeasure plan) was dated January 26, 2017.

For the contingency plan dated January 2017, I verified that the plan was submitted to local emergency response agencies and that the Facility made arrangements with local responders, that it describes the actions needed to respond to explosions, fires and/or releases of hazardous waste, that it identifies an emergency coordinator alongside a 24/7 emergency telephone number, that it lists emergency equipment with its location and capabilities, and that it includes an evacuation plan.

Quick Reference Guide

The Facility has a quick reference guide that includes a list and description of the hazardous waste generated at the site, the estimated maximum amount of each generated waste, access routes and locations, a facility map layout, and the emergency coordinator contact information. The quick reference guide was prepared after the contingency plan's 2022 revision but was not submitted to local emergency responders.

Personnel Training

Annual personnel training was provided for staff associated with the hazardous waste management and operations of the Facility. The sign-in sheets included the trainees name alongside their respective job title and department, and the completion training date. These records were provided for 2021, 2022, and 2023 as requested.

The Facility provided its Hazardous and Universal Waste Training Program and Job Description plan. The program consists of both classroom and on-the-job training in areas like safe storage, handling, and management of hazardous and universal waste. It also describes skills, education or qualification, and duties associated with each job title, and the type and amount of introductory and continuing training needed per job title.

Manifests

The hazardous waste manifests had proper land disposal restriction notification forms based on the shipped waste codes, were dated, and signed by the designated facility, and were processed into EPA's Hazardous Waste Electronic Manifest System (e-Manifest). For a list of hazardous waste shipments during 2021 through 2023, see Appendix B.

In 2021, the Facility shipped approximately 22,130 kilograms of non-acute and four (4) kilograms of acute hazardous waste. In 2022, it shipped approximately 27,373 kilograms of non-acute hazardous waste, and in 2023, the Facility shipped approximately 25,537 kilograms of non-acute hazardous waste.

Thus, based on the manifests reviewed for the past three years, and conversations with the Facility representatives, it appears that the Facility routinely generated more than 1,000 kg per month of hazardous waste. Consequently, the Facility appears to be correctly classified as an LQG.

The following table summarizes the amount of non-acute and acute hazardous waste the Facility shipped by calendar year.

Manifest Year	Acute?	Amount of Waste (kg)
2021	Acute	4
2021	Non-Acute	22,130
2022	Non-Acute	27,373
2023	Non-Acute	25,537

Hamilton Sundstrand ships its hazardous waste normally on a bi-weekly basis given the amount that is being generated.

Biennial Report

The Facility provided proof of its Biennial Report submission. This was verified in RCRAInfo for the reporting cycle of calendar year 2021. The report was received on February 25, 2022.

Note, the Facility must complete and submit by March 1, 2024, the [biennial report](#) for reporting cycle year 2023.

5 CLOSING CONFERENCE

On January 10, 2024, after completion of the walkthrough and onsite document review, I met with facility representatives Ms. Velazquez and Ms. Rivera to conduct a closing conference. I indicated that the purpose of the closing conference was to inform the Facility about the CEI observations and the opportunity to clarify any questions or doubts the representatives might have pertaining the RCRA inspection. I also communicated that a CEI report would be emailed once finalized.

6 POTENTIAL AREAS OF CONCERN

Based on observations made during the walkthrough of the Facility and/or a review of records provided to EPA by the Facility on-site and/or afterwards, the following potential areas of concern were identified:

REGULATORY, STATUTORY OR PERMIT REFERENCE	FIELD OBSERVATION
RCRA Subtitle C – Hazardous Waste	
40 CFR § Part 262.262(a) : The large quantity generator must submit a copy of the contingency plan and all revisions to all local emergency responders (<i>i.e.</i> , police departments, fire departments, hospitals and State and local emergency response teams that may be called upon to provide emergency services). This document may also be submitted to the Local Emergency Planning Committee, as appropriate.	The Facility was not able to produce any record that proves the contingency plan dated January 2022 was submitted to local emergency responders. The records provided were for an earlier version of the contingency plan dated January 26, 2017.

REGULATORY, STATUTORY OR PERMIT REFERENCE	FIELD OBSERVATION
40 CFR § Part 262.262(b) : A large quantity generator that first becomes subject to these provisions after May 30, 2017 or a large quantity generator that is otherwise amending its contingency plan must at that time submit a quick reference guide of the contingency plan to the local emergency responders identified at paragraph (a) of this section or, as appropriate, the Local Emergency Planning Committee.	The quick reference guide that was prepared based on the January 2022 contingency plan was not submitted to local emergency responders.
40 CFR § Part 262.263(d) : The contingency plan must be reviewed, and immediately amended, if necessary, whenever: the list of emergency coordinators changes.	The contingency plan dated January 2022 lists a primary emergency coordinator that has not worked at the Facility since May 2022. There has been no revision of the contingency plan since January 2022.

7 ENVIRONMENTAL ASSISTANCE

Based on the observations made during the inspection, the Facility can consider the following resources to increase their understanding and compliance with applicable environmental requirements and/or go ‘beyond compliance’ to reduce its overall environmental footprint:

- Final Rule: Hazardous Waste Generator Improvements (2017),
<https://www.epa.gov/hwgenerators/final-rule-hazardous-waste-generator-improvements>
- Compliance Assistance Centers,
<https://www.complianceassistance.net/>
- Hazardous Waste Portal, and
<https://www.hazwasteportal.org/>
- Fact Sheet on Requirements for Large Quantity Generators of Hazardous Waste,
https://www.epa.gov/sites/default/files/2020-07/documents/10635_lqg-factsheet_508.pdf

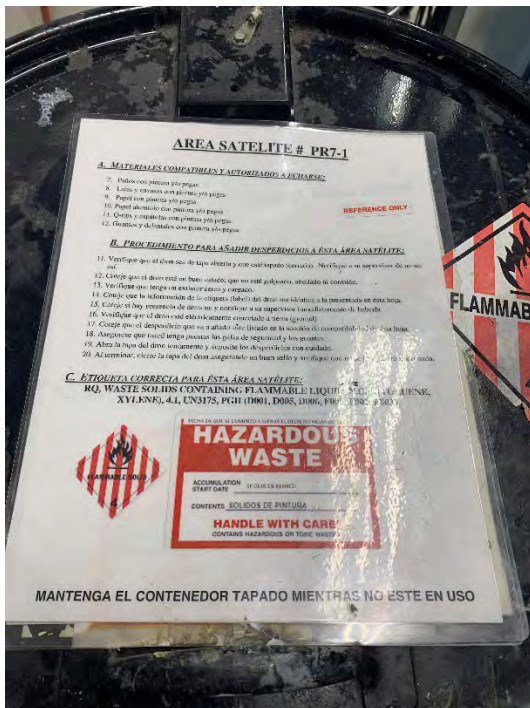
8 APPENDICES

- A. Inspection Photographs
- B. Hazardous Waste Manifests
- C. EJSscreen Report
- D. Flood Zone Map

Appendix A: Inspection Photos



Photograph One (1): A 55-gallon drum of solid paint and a 30-gallon drum of liquid paint at the internal PR2 CAA.



Photograph Two (2): PR7 SAA handling information.



Photograph Three (3): A 55-gallon drum of solid paint at the PR7 SAA.



Photograph Four (4): Outside overview of the CAA PR1.



Photograph Five (5): Outside overview of the CAA PR1.



Photograph Six (6): Outside overview of the CAA PR5.

Appendix B: Hazardous Waste Manifests

Manifest Date	Waste (kg)	Manifest Tracking Number
11/22/2023	18	002066854VES
11/22/2023	145	002066851VES
11/22/2023	18	002066854VES
11/22/2023	54	002066853VES
11/22/2023	726	002066851VES
11/8/2023	5	002065976VES
11/8/2023	20	002065977VES
11/8/2023	2	002065977VES
11/8/2023	147	002065977VES
11/8/2023	73	002065974VES
11/8/2023	218	002065975VES
11/8/2023	73	002065974VES
11/8/2023	109	002065976VES
11/8/2023	1	002065977VES
11/8/2023	544	002065976VES
11/8/2023	181	002065975VES
10/18/2023	14	002066878VES
10/18/2023	145	002066878VES
10/18/2023	254	002066880VES
10/18/2023	73	002066878VES
10/18/2023	127	002066879VES
10/18/2023	127	002066881VES
10/11/2023	23	002066882VES
10/11/2023	18	002066882VES
10/11/2023	145	002066882VES
10/11/2023	327	002066884VES
10/11/2023	18	002066883VES
10/11/2023	109	002066882VES
10/11/2023	18	002066883VES
10/11/2023	254	002066885VES
10/11/2023	1	002066882VES
10/11/2023	907	002066885VES
10/11/2023	91	002066884VES
9/20/2023	145	002068209VES
9/20/2023	181	002068323VES
9/20/2023	36	002068209VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

9/20/2023	18	002068208VES
9/20/2023	127	002068210VES
9/20/2023	363	002068210VES
9/20/2023	16	002068323VES
9/6/2023	5	002065941VES
9/6/2023	32	002065943VES
9/6/2023	340	002065938VES
9/6/2023	204	002065940VES
9/6/2023	18	002065939VES
9/6/2023	136	002065940VES
9/6/2023	236	002065937VES
9/6/2023	18	002065939VES
9/6/2023	98	002065943VES
9/6/2023	36	002065709VES
9/6/2023	5	002065943VES
9/6/2023	9	002065943VES
9/6/2023	472	002065937VES
9/6/2023	234	002065938VES
8/23/2023	363	002066982VES
8/23/2023	2	002066951VES
8/23/2023	472	002066950VES
8/23/2023	218	002066951VES
8/23/2023	109	002066951VES
8/23/2023	18	002066952VES
8/23/2023	54	002066982VES
8/23/2023	36	002066952VES
8/23/2023	848	002066982VES
8/23/2023	134	002066950VES
8/23/2023	1	002066953VES
8/8/2023	3	002066108VES
8/8/2023	143	002066108VES
8/8/2023	290	002066104VES
8/8/2023	145	002066106VES
8/8/2023	109	002066106VES
8/8/2023	116	002066105VES
8/8/2023	3	002066108VES
8/8/2023	181	002066105VES
8/8/2023	268	002066104VES
8/8/2023	36	002066107VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

7/27/2023	327	002068446VES
7/27/2023	218	002068449VES
7/27/2023	145	002068449VES
7/27/2023	109	002068447VES
7/27/2023	109	002068448VES
7/27/2023	68	002068269VES
7/27/2023	726	002068447VES
7/27/2023	79	002068446VES
7/13/2023	2	002068302VES
7/13/2023	2	002068301VES
7/13/2023	68	002068302VES
7/13/2023	181	002068302VES
7/13/2023	327	002068367VES
7/13/2023	18	002068303VES
7/13/2023	145	002068302VES
7/13/2023	18	002068303VES
7/13/2023	18	002068305VES
7/13/2023	36	002068303VES
7/13/2023	1,023	002068305VES
7/13/2023	54	002068367VES
6/8/2023	181	002068177VES
6/8/2023	109	002068179VES
6/8/2023	18	002068180VES
6/8/2023	73	002068179VES
6/8/2023	18	002068178VES
6/8/2023	109	002068180VES
6/8/2023	111	002068181VES
6/8/2023	36	002068182VES
6/8/2023	7	002068181VES
6/8/2023	2	002068181VES
6/8/2023	544	002068178VES
6/8/2023	249	002068177VES
5/11/2023	45	002068157VES
5/11/2023	36	002068157VES
5/11/2023	109	002068157VES
5/11/2023	290	002068159VES
5/11/2023	18	002068158VES
5/11/2023	236	002068160VES
5/11/2023	7	002068160VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

5/11/2023	2	002068157VES
5/11/2023	290	002068160VES
5/11/2023	160	002068159VES
4/11/2023	181	002067011VES
4/11/2023	544	002067014VES
4/11/2023	181	002067011VES
4/11/2023	11	002067012VES
4/11/2023	272	002067015VES
4/11/2023	154	002067014VES
3/9/2023	1	002068007VES
3/9/2023	272	002068004VES
3/9/2023	136	002068006VES
3/9/2023	18	002068005VES
3/9/2023	68	002068006VES
3/9/2023	127	002068003VES
3/9/2023	127	002068005VES
3/9/2023	102	002068008VES
3/9/2023	16	002068008VES
3/9/2023	1,923	002068003VES
3/9/2023	23	002068004VES
2/17/2023	5	002066262VES
2/17/2023	29	002066263VES
2/17/2023	218	002065651VES
2/17/2023	113	002065652VES
2/17/2023	18	002065654VES
2/17/2023	36	002065652VES
2/17/2023	9	002066263VES
2/17/2023	18	002065654VES
2/17/2023	907	002065650VES
2/17/2023	79	002065651VES
1/17/2023	2	002064401VES
1/17/2023	23	002064401VES
1/17/2023	399	002064399VES
1/17/2023	218	002064401VES
1/17/2023	145	002064401VES
1/17/2023	218	002064400VES
1/17/2023	127	002064402VES
1/17/2023	5	002064401VES
1/17/2023	1,125	002064400VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

1/17/2023	95	002064399VES
12/20/2022	689	002066254VES
12/20/2022	327	002066255VES
12/20/2022	45	002066256VES
12/20/2022	290	002066255VES
12/20/2022	36	002066253VES
12/20/2022	18	002066256VES
12/20/2022	544	002066253VES
12/20/2022	45	002066254VES
11/29/2022	290	002069979VES
11/29/2022	109	002069980VES
11/29/2022	36	002069980VES
11/29/2022	68	002064199VES
11/29/2022	236	002067127VES
11/29/2022	91	002069979VES
11/29/2022	363	002069980VES
11/16/2022	147	002069978VES
11/16/2022	363	002064426VES
11/16/2022	145	002069978VES
11/16/2022	68	002069977VES
11/16/2022	109	002069978VES
11/16/2022	109	002064425VES
11/16/2022	18	002069977VES
11/16/2022	9	002069977VES
11/16/2022	1,848	002064425VES
11/16/2022	44	002064426VES
11/16/2022	113	002069978VES
10/5/2022	27	002066033VES
10/5/2022	4	002066030VES
10/5/2022	82	002066029VES
10/5/2022	36	002066029VES
10/5/2022	109	002066034VES
10/5/2022	145	002066029VES
10/5/2022	127	002066003VES
10/5/2022	3	002066030VES
10/5/2022	320	002066034VES
9/22/2022	9	002064232VES
9/22/2022	5	002064231VES
9/22/2022	120	002064231VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

9/22/2022	36	002064246VES
9/22/2022	181	002064248VES
9/22/2022	733	002064247VES
9/22/2022	91	002064248VES
8/16/2022	9	002064210VES
8/16/2022	181	002064212VES
8/16/2022	14	002064213VES
8/16/2022	109	002064211VES
8/16/2022	290	002064213VES
8/16/2022	109	002064210VES
8/16/2022	145	002064211VES
8/16/2022	127	002064210VES
8/16/2022	236	002064212VES
8/16/2022	18	002064211VES
8/16/2022	2,830	002064212VES
8/16/2022	32	002064213VES
7/6/2022	109	001849706VES
7/6/2022	181	001849449VES
7/6/2022	39	001849449VES
7/6/2022	254	001849446VES
7/6/2022	109	001849447VES
7/6/2022	18	001849448VES
7/6/2022	145	001849447VES
7/6/2022	127	001849706VES
7/6/2022	18	001849448VES
7/6/2022	7	001849705VES
7/6/2022	771	001849706VES
7/6/2022	218	001849446VES
6/8/2022	145	002064323VES
6/8/2022	218	002064326VES
6/8/2022	73	002064323VES
6/8/2022	18	002064327VES
6/8/2022	1,651	002064327VES
6/8/2022	18	002064325VES
5/12/2022	32	002064340VES
5/12/2022	1	002064345VES
5/12/2022	102	002064340VES
5/12/2022	181	002064341VES
5/12/2022	36	002064343VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

5/12/2022	18	002064344VES
5/12/2022	109	002064343VES
5/12/2022	218	002064342VES
5/12/2022	191	002064340VES
5/12/2022	2	002064340VES
5/12/2022	5	002064340VES
5/12/2022	73	002064341VES
5/12/2022	2	002064340VES
5/5/2022	5	002069737VES
5/5/2022	181	002069736VES
5/5/2022	435	002069740VES
5/5/2022	18	002069737VES
5/5/2022	181	002069736VES
5/5/2022	127	002069737VES
5/5/2022	109	002069741VES
5/5/2022	18	002069738VES
5/5/2022	20	002069729VES
5/5/2022	726	002069741VES
5/5/2022	36	002069740VES
4/6/2022	5	002064165VES
4/6/2022	10	002064166VES
4/6/2022	472	002064163VES
4/6/2022	18	002064165VES
4/6/2022	109	002064162VES
4/6/2022	68	002064166VES
4/6/2022	18	002064165VES
4/6/2022	5	002064166VES
4/6/2022	828	002064162VES
4/6/2022	159	002064163VES
3/14/2022	5	002064103VES
3/14/2022	14	002064107VES
3/14/2022	122	002064107VES
3/14/2022	36	002064102VES
3/14/2022	36	002064105VES
3/14/2022	16	002064107VES
3/14/2022	5	002064107VES
3/14/2022	2	002064107VES
3/14/2022	726	002064106VES
3/10/2022	227	002064069VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

3/10/2022	109	002064062VES
3/10/2022	508	002064070VES
3/10/2022	18	002064063VES
3/10/2022	145	002064062VES
3/10/2022	113	002064063VES
3/10/2022	245	002064069VES
3/10/2022	36	002064063VES
3/10/2022	1,882	002064069VES
3/10/2022	179	002064070VES
2/9/2022	5	002065352VES
2/9/2022	435	002065356VES
2/9/2022	145	002065358VES
2/9/2022	64	002065359VES
2/9/2022	14	002065354VES
2/9/2022	218	002065358VES
2/9/2022	435	002065357VES
2/9/2022	9	002065359VES
2/9/2022	102	002065354VES
2/9/2022	14	002065359VES
2/9/2022	581	002065357VES
12/30/2021	9	002064077VES
12/30/2021	1	002064078VES
12/30/2021	218	002064077VES
12/30/2021	145	002064081VES
12/30/2021	290	002064082VES
12/30/2021	109	002064081VES
12/30/2021	109	002064079VES
12/30/2021	236	002064083VES
12/30/2021	34	002064079VES
12/30/2021	2	002064077VES
12/30/2021	1	002064077VES
12/30/2021	1,851	002064083VES
11/30/2021	1	002065390VES
11/30/2021	107	002065391VES
11/30/2021	254	002065387VES
11/30/2021	36	002065389VES
11/30/2021	73	002065389VES
11/30/2021	7	002065391VES
11/30/2021	218	002065386VES

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

11/30/2021	109	002065388VES
11/30/2021	20	002065391VES
11/30/2021	3	002065391VES
11/30/2021	27	002065387VES
11/3/2021	318	002065198VES
11/3/2021	18	002065197VES
11/3/2021	472	002065191VES
11/3/2021	181	002065199VES
11/3/2021	145	002065199VES
11/3/2021	435	002065192VES
11/3/2021	14	002065198VES
11/3/2021	6	002065197VES
11/3/2021	1	002065197VES
11/3/2021	1,975	002065192VES
9/22/2021	145	002065025VES
9/22/2021	363	002065028VES
9/22/2021	36	002065025VES
9/22/2021	91	002065026VES
9/22/2021	290	002065027VES
9/22/2021	1,887	002065027VES
9/22/2021	143	002065028VES
8/25/2021	7	001851031VES
8/25/2021	68	001851033VES
8/25/2021	181	001851033VES
8/25/2021	327	001851034VES
8/25/2021	109	001851033VES
8/25/2021	109	001851035VES
8/25/2021	15	001851032VES
8/25/2021	41	001851034VES
8/11/2021	218	016425069FLE
8/11/2021	399	016425070FLE
8/11/2021	132	016425071FLE
8/11/2021	227	016425068FLE
8/11/2021	2,214	016425070FLE
8/11/2021	109	016425069FLE
7/21/2021	113	015722650FLE
7/21/2021	91	016434319FLE
7/21/2021	181	016434318FLE
7/21/2021	472	016434319FLE

Resource Conservation and Recovery Act
Hamilton Sundstrand de Puerto Rico, Inc.
PRD987380078

7/21/2021	18	016434318FLE
7/21/2021	1	015722650FLE
7/21/2021	36	016434318FLE
7/21/2021	544	016434319FLE
7/21/2021	109	016434318FLE
6/22/2021	18	001851052VES
6/22/2021	23	001851053VES
6/22/2021	134	001851053VES
6/22/2021	218	001851055VES
6/22/2021	218	001851056VES
6/22/2021	109	001851054VES
6/22/2021	181	001851057VES
6/22/2021	14	001851053VES
6/22/2021	1,270	001851057VES
6/22/2021	27	001851056VES
5/7/2021	145	001656850VES
5/7/2021	109	001656850VES
5/5/2021	272	001656847VES
5/5/2021	218	001656849VES
5/5/2021	23	001656847VES
3/23/2021	497	001656865VES
3/23/2021	254	001849343VES
3/23/2021	50	001656864VES
3/23/2021	54	001849342VES
3/23/2021	36	001849342VES
3/23/2021	1,324	001656864VES
3/23/2021	23	001656865VES
1/26/2021	2	001849356VES
1/26/2021	209	001849357VES
1/26/2021	363	001849357VES
1/26/2021	109	001849358VES
1/26/2021	109	001849358VES
1/26/2021	11	001849357VES
1/26/2021	15	001849357VES

Appendix C: EJScreen Report



EJScreen Community Report

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

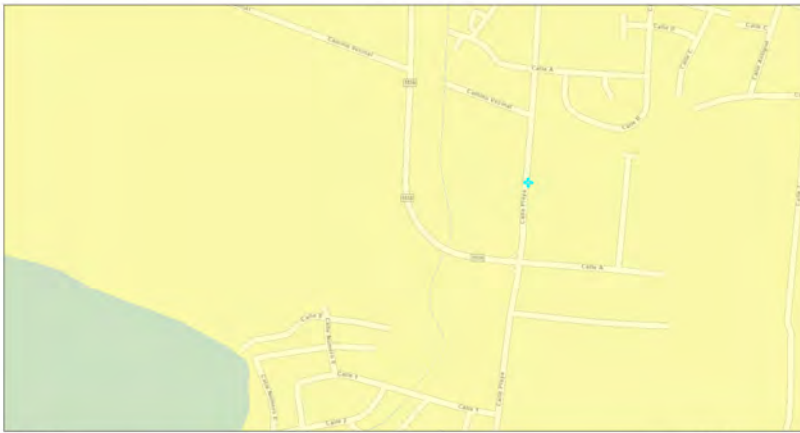
Santa Isabel Municipio, PR

1 mile Ring Centered at 17.960037,-66.405047

Population: 5,912

Area in square miles: 3.14

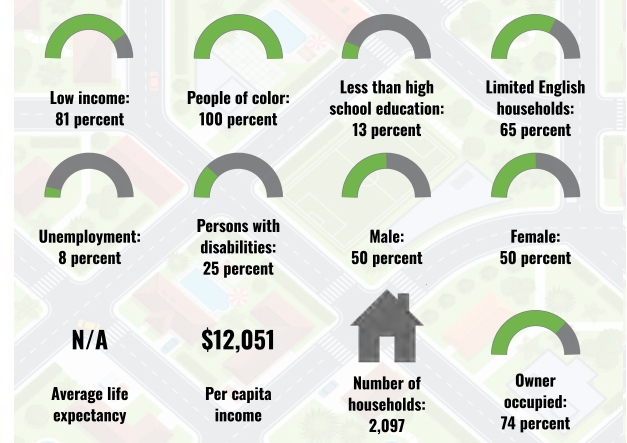
A3 Landscape



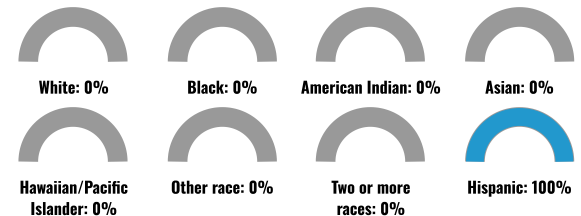
January 9, 2024
Hamilton Sundstrand - Appendix C

1:4,514
0 0.05 0.1 0.2 mi
0 0.05 0.15 0.3 km
Map: Community Map Contributors, Kananis
Cartography, Inc. Tustin, CA; Foundation
Landscape Architecture, Inc. BETHLEHEM, PA; US
GS, US Census Bureau, USFWS

COMMUNITY INFORMATION



BREAKDOWN BY RACE



BREAKDOWN BY AGE



LIMITED ENGLISH SPEAKING BREAKDOWN



LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	5%
Spanish	95%
Total Non-English	95%

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

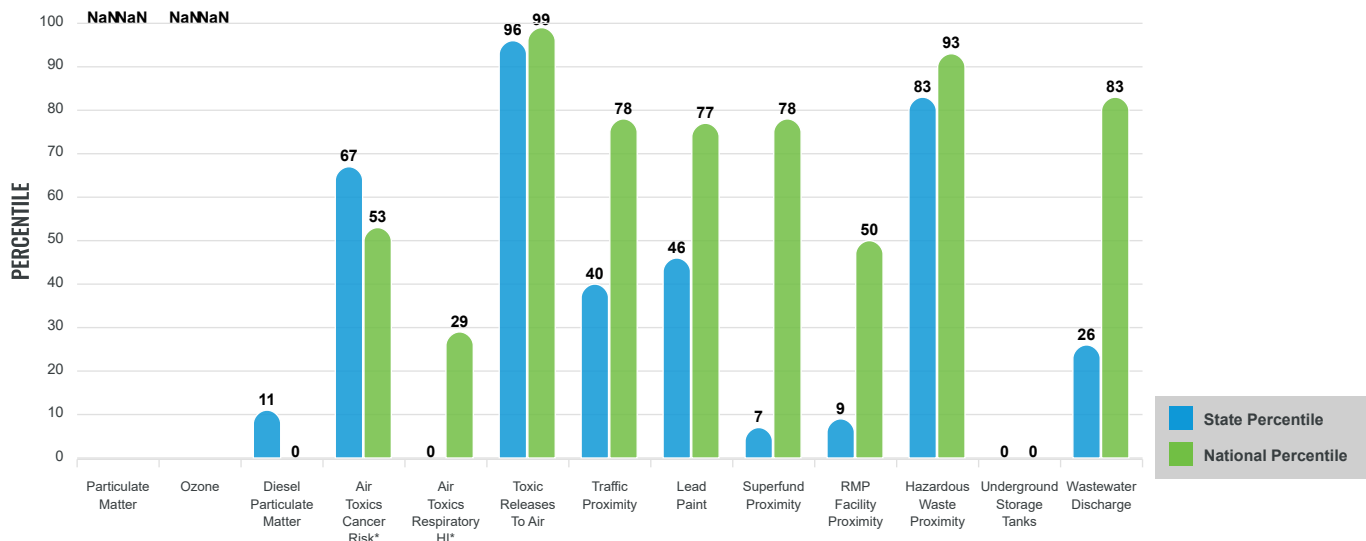
Environmental Justice & Supplemental Indexes

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

EJ INDEXES

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

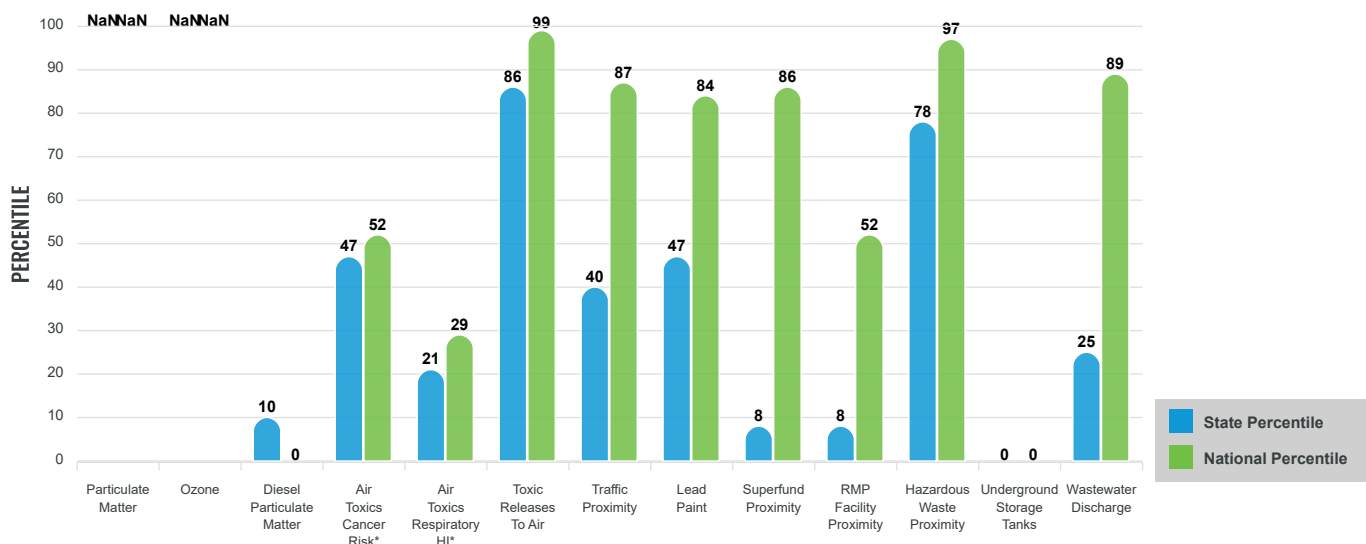
EJ INDEXES FOR THE SELECTED LOCATION



SUPPLEMENTAL INDEXES

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

SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



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

Report for 1 mile Ring Centered at 17.960037,-66.405047

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
POLLUTION AND SOURCES					
Particulate Matter ($\mu\text{g}/\text{m}^3$)	N/A	N/A	N/A	8.08	N/A
Ozone (ppb)	N/A	N/A	N/A	61.6	N/A
Diesel Particulate Matter ($\mu\text{g}/\text{m}^3$)	0.0141	0.0667	10	0.261	0
Air Toxics Cancer Risk* (lifetime risk per million)	20	20	15	25	5
Air Toxics Respiratory HI*	0.15	0.19	0	0.31	1
Toxic Releases to Air	5,300	4,300	95	4,600	87
Traffic Proximity (daily traffic count/distance to road)	48	180	40	210	39
Lead Paint (% Pre-1960 Housing)	0.14	0.16	63	0.3	41
Superfund Proximity (site count/km distance)	0.037	0.15	7	0.13	33
RMP Facility Proximity (facility count/km distance)	0.059	0.47	8	0.43	14
Hazardous Waste Proximity (facility count/km distance)	1.1	0.76	78	1.9	63
Underground Storage Tanks (count/km ²)	0	1.7	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0029	2.3	48	22	57
SOCIOECONOMIC INDICATORS					
Demographic Index	90%	83%	63	35%	98
Supplemental Demographic Index	42%	43%	38	14%	98
People of Color	100%	96%	31	39%	98
Low Income	81%	70%	61	31%	97
Unemployment Rate	8%	15%	37	6%	74
Limited English Speaking Households	65%	67%	38	5%	99
Less Than High School Education	13%	21%	30	12%	67
Under Age 5	3%	4%	55	6%	34
Over Age 64	20%	22%	43	17%	67
Low Life Expectancy	N/A	N/A%	N/A	20%	N/A

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

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	1
Water Dischargers	1
Air Pollution	2
Brownfields	0
Toxic Release Inventory	5

Other community features within defined area:

Schools	3
Hospitals	0
Places of Worship	0

Other environmental data:

Air Non-attainment	No
Impaired Waters	Yes

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

Report for 1 mile Ring Centered at 17.960037,-66.405047

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	N/A	N/A	N/A	20%	N/A
Heart Disease	N/A	N/A	N/A	6.1	N/A
Asthma	N/A	N/A	N/A	10	N/A
Cancer	N/A	N/A	N/A	6.1	N/A
Persons with Disabilities	24.7%	21.6%	66	13.4%	94

CLIMATE INDICATORS

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

CRITICAL SERVICE GAPS

INDICATOR	HEALTH VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	31%	32%	52	14%	89
Lack of Health Insurance	7%	7%	55	9%	48
Housing Burden	No	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 1 mile Ring Centered at 17.960037,-66.405047

Appendix D: Flood Zone Map

Federal Emergency Management Agency (FEMA) 100 Year Flood Zones and EPA's Region 2 Composite Flood Risk Layer

Facility Name: Hamilton Sundstrand



The Facility is not located within the FEMA 100-Year Flood Zones layer.



The Facility is not located within a potential risk area based on EPA's Region 2 Composite Flood Risk layer.