



2024 Program for Public Information

Annual Update and Evaluation Report

Developed for the National Flood Insurance Program (NFIP)
Community Rating System (CRS)

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Mayor and City Commission

Mayor

Steven Meiner

Commissioners

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*Marketing & Communications
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INTRODUCTION & BACKGROUND

ANNUAL UPDATE & EVALUATION REPORT

OVERVIEW

This annual report is a requirement of the Program for Public Information (PPI). The PPI is an activity of the Federal Emergency Management Agency (FEMA) National Flood Insurance Program (NFIP) Community Rating System (CRS) that allows communities to earn points for conducting activities that communicate reducing flood risk and the importance of flood insurance.

The CRS program overall is wide-ranging and has a rating scale from 1 to 10, with 1 being the best. In 2019, Miami Beach pursued an aggressive goal to improve its CRS ranking from Class 6 to a Class 5 and was officially awarded the new score. The City has retained the Class 5 score through subsequent audits, most recently through the annual recertification by FEMA in April of 2022.

As a result of this score, qualifying National Flood Insurance Policy holders within the community are eligible to receive a 25% discount on federal flood insurance premiums. This helps offset increasing federal rates.

This program encourages cities to convene a stakeholder committee and collaborate to identify communication projects for flood awareness, flood insurance, and emergency management. The program complements the City's approach to public participation and is a key part of communication strategies regarding climate resilience and flooding.

This annual update and evaluation report highlights the progress made toward desired outcomes established in the plan, discusses project implementation status and includes an update on existing recommendations as well as new ones. In 2022, the City of Miami Beach completed its second Program for Public Information (PPI) Plan. Since then, the Program for Public Information (PPI) Committee has met to monitor and evaluate the status of projects and outcomes and submitted the required annual reports to the governing board. City staff has conducted outreach projects and other CRS activities; collected data on implementation and measures; and presented results and updates to the Committee for feedback and further direction.

FLOOD INSURANCE FACTS

The City of Miami Beach participates in the National Flood Insurance Program (NFIP) Community Rating System (CRS). Miami Beach has a Class 5 score. This effort saves qualifying residents and businesses 25% on their flood insurance premiums.

As a coastal barrier island, 97% of properties in the City of Miami Beach are located within or near a High-Risk Flood Zone Area (Special Flood Hazard Areas- "SFHA") as mapped by FEMA. Within this area, flood insurance is required for buildings with a federally backed mortgage and recommended for all properties.

Miami Beach Background

The City of Miami Beach is a vibrant coastal community. Rich in history, culture, and home to 14 historic districts, the City also has a low-lying topography and high ground water table making it vulnerable to flood risk from rainfall, storms, sea level rise, and tidal storm surge. **The City works to reduce flood risk on many fronts.** This includes a mature dune system of green infrastructure to reduce the impact of storm surge and erosion, a comprehensive stormwater management program, elevating low-lying streets, a Resilience Code to address current and future flood risk for development and construction, higher seawall elevation requirements, and private property assessments in tandem with a competitive flood mitigation grant program. The City utilizes a comprehensive Neighborhood Improvement Project (NIP) approach to address longer-term sea-level rise adaptation; combining urban design and green infrastructure, stormwater, water and sewer, and above-ground improvements.

The Program for Public Information not only shows outreach activities conducted but also demonstrates the impact that projects have in the community. This report allows the Committee to keep track of the plan's outcomes, celebrate achievements, identify areas of improvements, and continue planning for the future.

The following items are covered in this report, as required by the National Flood Insurance Program:

- A review of projects conducted by the Program for Public Information Committee;
- Progress towards the desired outcomes; and
- Recommendations for improvement.

PROGRAM FOR PUBLIC INFORMATION (PPI) COMMITTEE OVERVIEW

The Program for Public Information (PPI) Committee, made up of private and public stakeholders, guided the development of the City's second Program for Public Information (PPI). In 2022, the Committee followed a seven-step planning and public involvement process defined by the Community Rating System Program. Their unique perspectives and expertise helped define target audiences, messages, outcomes, and outreach methods. The Committee built upon the PPI adopted in 2017 by updating and refining it to include recent issues and advancements in flooding vulnerabilities and activities.

The Committee has a wealth of knowledge regarding flood hazards and flood risk. The Committee is comprised of six stakeholders, each with valuable perspectives and insight on flood risk and insurance. The committee member expertise requirements are specified by the CRS program, which requires

representation from the City’s Communications Department and the City’s Floodplain Office, and the local insurance industry. The Committee also has local real estate and banking stakeholders. The Committee was previously formed by the City Commission through Resolution No. 2016-29585 on September 27, 2016; Resolution No. 2017-30104 on December 13, 2017; Resolution No. 2018-30658 on December 12, 2018; Resolution No. 2019-31083 on December 11, 2019; Resolution No. 2020-31527 on December 9, 2020; Resolution No. 2021-31936 on December 8, 2021; Resolution No. 2022-32216 on June 20, 2022; and Resolution No. 2023-32844 on December 13, 2023. The Committee has been re-created annually to comply with the CRS program. In December of 2024, the Committee is required to be re-established once again by the City Commission for the coming year.

Table 1: 2024 PPI Committee Members

2024 PROGRAM FOR PUBLIC INFORMATION (PPI) COMMITTEE	
Melissa Berthier, Chair	Director Office of Marketing and Communications
Scott Diffenderfer, CIPS, LCAM, Vice-Chair	Real Estate Industry Representative Licensed Real Estate Broker Associate, Compass President of the Belle Isles Residents Association
Alex Carrasco	Banking Industry Representative Vice President, Iberia Bank
Carlos Gutierrez, PA	Real Estate Industry Representative Broker Associate, Coldwell Banker 2016 President Miami Association of Realtors
Mohsen Jarahpour, CFM	Floodplain Manager Building Department
John J. Lee	Insurance Industry Representative Vice President, FirstService Financial

**PLAN DEVELOPMENT
SEVEN-STEP PROCESS**

The Committee followed a seven-step process required by the CRS program that serves as a roadmap for completing and reviewing the PPI’s activities. The Committee held its first meeting in October of 2016, and since then, staff has continued working diligently in refining and completing the projects defined in the plan.

The seven-step process was conducted for the new plan in 2022 through two committee meetings.

- 1. Establish the Committee:** The Committee was first established in 2016 and each year following, and meets at least twice a year to discuss initiatives within the program and approve documentation.
- 2. Assess the Community Information Needs:** The Committee agreed that, for the purpose of the Program for Public Information, the entire City should be considered one target area with multiple audiences (property owners, renters, businesses, seawall owners, repetitive loss areas, local organizations, and real estate and insurance agencies).
- 3. Formulate Messages:** The Committee conducted an insurance coverage assessment and formulated specific messages to those properties that carry a lower rate of flood insurance. In addition, the entire City of Miami Beach is targeted with flood awareness messages disseminated through different channels.
- 4. Identify Outreach Projects to Convey the Messages:** The Committee identified various outreach projects outlined on the outreach implementation table of this report. The projects are crucial to achieve established outcomes on this plan, such as increasing flood insurance coverage and awareness of flooding in the community.
- 5. Inventory of other Public Information Efforts:** The Program for Public Information requires examining existing information efforts. A list was compiled through staff research and committee members' input. This list is published on the Program for Public Information Plan published on June 20, 2022, and available on the City's website.
- 6. Prepare the PPI Document:** Preparing the PPI document involved a concerted effort from staff and the Committee. PPI documentation is updated every year through the annual evaluation report to make improvements to projects and increase community outreach.
- 7. Implement, Monitor and Evaluate:** The Committee meets twice annually to evaluate the program and incorporate revisions. This report specifically addresses steps six and seven and includes a summary of the progress made.

EVALUATION AND MONITORING

SUMMARY OF OUTREACH PROJECTS

The Committee met twice in 2024 to evaluate the 18 outreach projects in the 2022 PPI plan. All the projects planned for 2024 were completed or are on track to be completed. The Committee met to review the activities of the Implementation Table and provide feedback on new issues and suggestions. City staff provided an overview of the activities, including photos and examples, and discussion was held regarding any additional opportunities to increase effectiveness. This year, the Committee did not recommend new projects, however, the Committee provided feedback on updated fact sheets and real estate hazard disclosures.

The following is a summary of select outreach projects (OP) implemented and evaluated by the Committee with the full comprehensive list located within the outreach table.

OP #1: Flood awareness information provided to all properties: An important milestone in completing the seven steps of the program was to develop **10 messages** for flood awareness. The 10 messages are included in the Miami Beach Magazine which is mailed directly to all households every quarter and distributed at the City’s public facilities. This year, four issues of the magazine were mailed to residents. In 2024, the City developed a new page on the City’s website dedicated to flood awareness and flood protection information. This page includes updated information on what to do during a flood, how to prepare, and how to seek assistance:



distributed at the City’s public facilities. This year, four issues of the magazine were mailed to residents. In 2024, the City developed a new page on the City’s website dedicated to flood awareness and flood protection information. This page includes updated information on what to do during a flood, how to prepare, and how to seek assistance: <https://www.miamibeachfl.gov/flood-awareness/>. In addition, the City’s sustainability and resilience website, www.MBRisingAbove.com, features a highlighted tab for “flood awareness”. The materials include the 10 steps to flood awareness, fact sheets and important resilience projects. The City also routinely features materials related to flood insurance, flood awareness information, projects, and programs on its website.

Figure 1: Miami Beach Flood Awareness Website

OP #2: Messaging from elected leadership encouraging flood insurance coverage (Activity 370): In April 2024, and October 2024, City of Miami Beach Mayor Steven Meiner and the FEMA Community Rating System Program for Public Information Committee hosted virtual Flood Insurance Forums. The forum informed participants about the importance of obtaining flood insurance and provided risk reduction strategies. This effort provides valuable activity points for the **CRS Activity 370 Flood Insurance Coverage Improvement Plan**.



Figure 2: Flood Insurance Forum Flyer



Figure 3: CERT at the 2024 Disaster Expo

OP #3, 4 Flood Awareness and Hurricane Guide: The flood awareness guide has informed hundreds of residents about the different existing flood awareness messages. The guide has been published on the City’s website since spring of 2017 and was updated in 2020. In addition, the hurricane guide includes flood preparation messages and tips on how to respond to extreme weather events. A Hurricane Preparedness Quiz was sent out in the MB Magazine Spring

2024 edition. On July 17, 2024 Commissioner Tanya K. Bhatt and Miami-Dade County Commissioner Micky Steinberg hosted an Extreme Weather Training on heat, flooding and hurricanes. A newly published “Flood Awareness and Safety Tips” brochure was shared at a sandbag distribution event on July 26, 2024. The Division of Emergency Management (DEM) is working with City departments to make sure all departmental plans reflect the current public health considerations. In addition, messages continue to be sent out through email blasts and text alerts to the community in advance of anticipated rainfall, King Tides, and potential hurricanes. The City’s FEMA-sponsored Community Emergency Response Team (CERT), which are community volunteers and organizations trained in emergency response, distribute flood and hurricane awareness fact sheets at numerous public engagement events for residents, including events at senior centers, a back-to-school resource fair, Fourth of July events, and the Police Block Party.



Florida Governor Ron DeSantis has declared a **State of Emergency** for multiple areas of South Florida, including Miami-Dade County.

Heavy rain and flooding conditions in Miami Beach are expected to continue overnight with a **flood watch** in effect through Thursday evening.

Two consecutive days of more than 5 inches of rain has created a situation where the ground is saturated and there is very little capacity to absorb additional water. With rainfall expected to continue through the weekend, residents should avoid unnecessary travel if possible.

If you come across any flooding that obstructs access or causes damage to public or private property, please call 305.673.7625, report it through the [Miami Beach Gov app](#) or email flooding@miamibeachfl.gov.



OP #6: Response to flood events: The City maintains a **Flood Response Preparations Process (Activity 332.b)** included as a section in the Public Works Manual to provide critical flood awareness information before, during and after a flood event. The City continues to share information amongst departments and the public regarding severe weather events in the area and other flood events in Miami Beach. These communications occur through email, social media, SEFL Climate Compact Leadership Committee meetings, and in-person or virtual discussions regarding flood events across Miami Beach departments.

In 2024, the City experienced an intense, 200-year rainstorm from June 11 to June 14 which caused flood conditions throughout the City.

Responding to flood events in the community is an important priority for the City. As of October,

Figure 4: Flood Watch for June 200-Year Rainstorm

the City addressed 833 flood and drainage related requests in 2024, with 51.6% requests resolved within five days. About 300 of these requests were received in June after a significant 200-year storm, during which 15% were resolved within 5 days. Flood and drainage-related requests are often caused by King Tides or heavy rain. Staff resolved requests by responding to issues on-site, documenting flooding, and communicating with homeowners. Tracking of flooding complaints has helped to prioritize stormwater Critical Needs projects to conduct targeted improvements to flood-prone areas. The Dashboard also indicates that 31 tidal flooding incidents from January 1 through November 17, 2024, were avoided due to completed road raising projects in Sunset Harbour and along Indian Creek.

In addition, the Division of Emergency Management provides damage assessment training to departments who respond to flooding incidents and utilizes web-based tools that track flooding, tides, and impacts to property. Information is collected and shared with Miami-Dade County Office of

Emergency Management (OEM). Following the flooding event in June, the Miami-Dade County OEM activated a Damage Assessment Survey tool to assess flood damage and provide resources.

Although Tropical Storm Debby, Hurricane Helene, and Hurricane Milton did not hit Miami Beach directly, Flood Watches were put into effect through the storms to prepare for potential impacts. The City actively monitors and documents the impacts of flooding by visiting flooded areas and proactively documenting the impacts of high tides from a boat on City waterways.



Figure 5: Updated Business Fact Sheet Header

OP #8 Fact Sheets: In 2017, fact sheets were created to reach various target audiences, focusing on the areas with low flood insurance coverage as defined through the flood insurance coverage analysis. In 2021, the following fact sheets were updated to include new information: 10 Steps to Flood Awareness, encouraging businesses to purchase flood insurance, and Keep It Clean Biscayne Bay water quality. In 2024, all fact sheets were updated to reflect more recent flood insurance coverage statistics and current Miami Beach messaging, policies, and procedures. These communications on water quality, in tandem with the affidavits for storm drain cleanliness and erosion control included in the building permitting checklist, contribute to **Activity 540 Drainage System Maintenance**. Starting in 2020 and 2021, fact sheets have been featured on the MBRisingAbove and Flood Awareness websites and promoted through the Program for Public Information (PPI) Committee. Special fact sheets are on the website for renters and tenants in 2-4-unit buildings to encourage the purchase of flood insurance. Flood preparation messages for the King Tide season and projected dates were emailed to over 35,000 recipients across Miami Beach prior to and during King Tide events on September 13, October 11, and October 16, and November 12. Additional fact sheets include information tailored to business owners, real estate agents, tenants, construction industry, potential homeowners, and for Biscayne Bay water quality protection.



Figure 6: Active Flood Insurance Rate Map (FIRM)

OP #9 Community Meetings for Flood Awareness: The City conducted multiple outreach meetings with the public for flood awareness. The Environment & Sustainability (E&S) Department spoke about flooding, sea level rise, and adaptation efforts at a Venetian Way Neighborhood Association meeting on April 4, 2024. The E&S Department also led meetings to introduce the findings of a Sea Level Rise Vulnerability Assessment and Adaptation Plan with public committees and the Miami Beach Chamber of Commerce in Fall of 2024. Throughout July, the Division of Emergency Management also collaborated with the Office of Housing & Community Services and the American Red Cross to conduct hurricane preparedness workshops for all congregate sites and senior housing. The Public Works Department held various meetings related to flood mitigation projects, including a meeting in April to engage the South of Fifth Neighborhood Association regarding the First Street and South Point Stormwater Improvements and on August 8th to engage the North Beach community regarding the upcoming design and procurement phases for the

North Shore Stormwater Improvement Project.

OP# 6, 8, 12 Social media messages: As more residents use social media, the City has expanded its reach via X, Facebook and Nextdoor. Tweets related to flood awareness received more than 138,000 impressions in 2024 as of August. Impressions mean that Tweets were viewed by users and possibly re-tweeted. In addition, the City continues measuring the quality of flood awareness messaging in social media and email to ensure all communications are effectively educating the community on flood risk.



Figure 7: 2024 PPA Flyer

OP #15 Private Property Adaptation Program: The City Commission authorized \$3.3M in funding through FY 2025 for this new innovative program which aims to reduce the risk of flooding for private properties. This competitive, reimbursement-based grant program is designed for residential and commercial property owners to understand their flood risk and implement flood mitigation projects. Properties selected for the program receive funding through a 50/50 matching grant, with up to \$20,000 available for the full scope of work, including the \$2,500 value of the assessment. In addition, if the applicant is considered low-to-moderate income (LMI), the PPA funds the entirety of the program, up to \$20,000, without requiring a cost match. Only proposed projects that directly address flood mitigation are funded. The program is divided into two phases.

The first is an assessment that provides information on the flooding risk of the property and proposes up to three possible flood risk mitigation projects. The second phase is the design and construction of these projects. It is intended for the program to link to existing City and Federal programs. The information distribution on flood protection contributes to **Activity 350: Flood Protection Information**. Furthermore, the financial and technical assistance provided through this program contributes to **Activity 360: Flood Protection Assistance**. As active flood insurance policies are required for the PPA, it also contributes to outcomes for **Activity 370: Flood Insurance Promotion**.

Through this program, City consultants reviewed multiple properties to encourage participation in the FEMA Flood Mitigation Assistance (FMA) grants. The City applied to the FEMA FMA program on behalf of two residents, one of which owns a severe repetitive loss property. Both properties were selected for final review. If the final award is granted by the federal government, it is expected that FEMA will cover 90% of the cost of elevation for one property and 100% of the cost for the second property.

The inaugural cohort is currently in the Design and Construction Phase, and one project has been completed. The 2024 application period for the second cohort resulted in 48 applications received. The Assessment Phase is currently being completed for this second cohort. The Assessments included site visits to 38 properties and meetings with property owners to understand site conditions and flooding challenges, as well as the owners' priorities and interests. Participants in the second cohort are expected to begin Phase II by the end of 2024.



Figure 8: 2024 PPA Report Adaptation Concept

CRS ACTIVITY 370 & FLOOD INSURANCE ANALYSIS

The Flood Insurance Analysis also compliments the flood insurance coverage assessment, coverage improvement plan, and coverage implementation plan as part of the **CRS Activity 370 Flood Insurance Coverage Improvement Plan**.

The City and Floodplain Manager requested updated NFIP policy data from the FEMA Region 4 Floodplain Management and Insurance Branch. The City uses this data to review trends in policy numbers and savings for target community groups and community members in the AE and X Zones. As of November 2024, Region 4 Office and FEMA Headquarters have not provided the updated report for Pivot NFIP data across target groups. This section will be updated for future PPI Update Reports.

OUTREACH IMPLEMENTATION TABLE

The following outreach implementation table, required within the PPI, details the audiences, messages, desired outcomes, projects to support the messages, list of projects, project accomplishments for 2024, and stakeholders that help disseminate the information. The table serves as a tracking mechanism to ensure that projects are completed in a timely manner. To evaluate the outreach project status for 2024, the table shows the status of projects for this year, achievements, and output measures indicating the level of effort and resources invested for this plan.

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
<p>All of Miami Beach</p> <p>Note that the flood awareness messages and outreach projects are important for all of Miami Beach residents and businesses since 97% of all properties are within a SFHA (Special Flood Hazard Area)</p>	Messages 1-10	OP #1: 10 Steps for Flood Awareness Information	<p>MB Magazine - Provided to all properties four times a year</p> <p>City Website featuring flood awareness page. Includes information, tools, and flood insurance material</p> <p>Email blasts, MBAlert, and Public Meetings</p>	<p>Increase comprehensive awareness of flood hazard and Miami Beach Messages related to people and properties protection for flood events</p>	Communications	<p>Ongoing</p> <p>MB Magazine: Four Times a Year</p>	Neighborhood Associations Share Messages	Ongoing	<p>The 10 Steps Message graphic was updated in 2023 and language updates were reflected in the 2024 editions of the MB Magazine. The graphic is also available on the City Website's flood awareness page, which is currently being updated.</p>
	Messages 1-5, 7 & 9	OP #2: Encouraging flood insurance coverage and king tide messaging	Elected Official (Mayor) Flood Insurance Forum		Environment and Sustainability	Annual, Ongoing	No	Ongoing	<p>On April 8th and October 28 Mayor Steven Meiner and the FEMA Community Rating System Program for Public Information Committee hosted a virtual Flood Insurance Forum to inform residents about the importance of flood insurance and risk reduction strategies.</p>
	Messages 1-10	OP #3: Flood Awareness Guides	City Website featuring flood awareness page. Includes information, tools, and flood insurance material		Environment and Sustainability	<p>Ongoing</p> <p>Letter annual, summer</p>	No	Ongoing	<p>A "Flood Awareness and Safety Tips" brochure was published and shared at a sandbag distribution event in July. New Flood Awareness page was created.</p>
<p>All of Miami Beach</p> <p>Note that the flood awareness messages and outreach projects are important for all of Miami Beach residents and businesses since 97% of all properties are within a SFHA (Special Flood Hazard Area)</p>	Messages 1-3 & 7-8	<p>OP #4: Hurricane Communications</p> <p>OP #12: Social Media Messaging</p> <p>Know Your Hazards Webpage</p>	E-Blasts		<p>Emergency Management / Communications</p>	Ongoing	Yes - Residents, Business Owners	Ongoing	<p>Hurricane preparedness messaging has been sent in email newsletters and on social media throughout the year. A Hurricane Preparedness Quiz was sent out in the MB Magazine Spring 2024 Edition. Evacuation routes, preparation materials, and the full MB Hurricane Guide are available on the City website.</p> <p>The Office of Housing & Community Services, with the Division of Emergency Management and the Red Cross, conducted hurricane preparedness workshops at all congregate sites and senior housing in July 2024. Community Emergency Response Team (CERT) volunteers distributed emergency preparedness and hurricane information at multiple events.</p> <p>The Division of Emergency Management conducted training for the Crisis Track and WebEOC applications, which are used for hurricanes and emergencies. DEM will conduct its annual Hurricane Recovery Homeland Security Exercise and Evaluation Program (HSEEP) Table-Top Exercise and Planning Workshop for City Staff later this year.</p>
			Newsletters						
	Messages 2, 3, 4, 5, 9	OP #5: FEMA and State of Florida Flood Hazard and Flood Insurance Guides	Available at City Hall						

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
<p>All of Miami Beach</p> <p>Note that the flood awareness messages and outreach projects are important for all of Miami Beach residents and businesses since 97% of all properties are within a SFHA (Special Flood Hazard Area)</p>	Messages 1-10	<p>OP #6: FLOOD RESPONSE and Messaging 1-10</p> <p>OP #12: Social Media Messaging</p> <p>Activity 332.b</p>	Email blasts	<p>Increase safety awareness before, during, and after flood events.</p> <p>Reduce preventable accidents and damage from flood waters</p>	<p>Environment and Sustainability, Communications, Public Works, Emergency Management</p>	<p>Flood response procedure remains in effect and is part of Public Works manual</p> <p>Spring and Fall King Tide Season emails and preparation messages</p> <p>Stormwater Dashboard is updated regularly and project is ongoing</p>	<p>Yes - Local news and social media sharing; local universities based on projects and requests</p>	Ongoing	<p>The Stormwater Dashboard continues to receive updated data and will be updated when additional road improvement projects are completed. In 2024, the Dashboard notes 833 flood and drainage related events, 51.6% of which were resolved within 5 days. The Dashboard also indicates that 31 tidal flooding incidents were avoided in 2024 due to completed road raising projects.</p> <p>The City distributed information about its Private Property Adaptation Program in the 2024 Winter Edition of MB Magazine.</p> <p>During the flood watch from June 11 to June 15, resources to "Stay Safe and Report Flooding" were posted on the MiamiBeachfl.gov, sent in an emailed newsletter, and texted to residents as an MB alert. The City also posted about the flood watch, Parking Flood Relief Program, flash flood warnings, and ways to report flooding on X and Facebook.</p>
			Social Media Messaging						
<p>All of Miami Beach</p> <p>Note that the flood awareness messages and outreach projects are important for all of Miami Beach residents and businesses since 97% of all properties are within a SFHA (Special Flood Hazard Area)</p>	Messages 1-10	<p>OP #9: Fact Sheet Distribution, FEMA Map Update Information, and Flood Risk Reduction</p>	Community Meetings	<p>Increase comprehensive awareness of flood hazard and Miami Beach Messages related to people and properties protection for flood events</p>	<p>Communications, Public Works, Capital Improvement, Building Department, Environment and Sustainability</p>	Ongoing	<p>Yes - Residents, Chamber of Commerce</p> <p>Vision: Yes, Conducted in Partnership with local academic institute</p>	Ongoing	<p>The E&S Department attended a Venetian Way neighborhood meeting to discuss flooding, sea level rise, and adaptation. E&S also presented results from the Sea Level Rise Vulnerability Assessment to the MB Chamber of Commerce, Neighborhood Resiliency Projects Advisory Committee, and the Sustainability Committee.</p> <p>Miami Beach DEM distributed preparedness and safety materials at over 20 in-person events and trainings.</p> <p>Public Works presented at Commission and Land Use Sustainability Committee meetings about the First Street Stormwater and Neighborhood Improvement project.</p>
			<p>Vision 2070: Partnership with Florida International University and architecture students to create a conversation regarding the imagined future of Miami Beach</p>						

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments	
<p>All of Miami Beach</p> <p>Note that the flood awareness messages and outreach projects are important for all of Miami Beach residents and businesses since 97% of all properties are within a SFHA (Special Flood Hazard Area)</p>	Messages 1-5 & 9	OP #16 FEMA Map Updates and Risk 2.0	MB Magazine NFIP Updates and Risk Rating 2.0	<p>Increase insurance coverage</p> <p>Increase in the use of flood resistant materials</p> <p>Increase comprehensive awareness of flood hazard</p>	Environment and Sustainability, Communications, Building	Ongoing	Yes - Shared with residents and elected officials	Ongoing	<p>Miami Beach created a new website with a direct focus on flood awareness and distribution of what to do in a flood. Additionally, Miami Beach updated flood awareness and insurance fact sheets and placed on the Flood Awareness site and on the Floodplain Management site.</p> <p>Preliminary information on FIRM updates is shared with Private Property Adaptation participants on their assessment reports. Risk 2.0 information is also shared on the Floodplain management City website.</p> <p>Communications created a flood awareness and preparedness pamphlet, and printed 5,000 copies to share at local flood awareness events and a sandbag distribution event.</p>	
			Commission Letter explaining changes							
		OP #5: FEMA and State of Florida Flood Hazard and Flood Insurance Guides	See OP #5 for more information							Community Meetings
		OP #9: Fact Sheet Distribution, FEMA Map Update Information, and Flood Risk Reduction	Communicating to commission and residents Flood Risk 2.0 and Map Updates							
Repetitive Loss Areas (RLA) (RLAs are defined by FEMA)	Messages 1-10	See OP #1,3,4,5	Letter mailed to RLA property owners to encourage flood resistant construction and prevent flood damage.	<p>Increase comprehensive awareness of flood hazard and Miami Beach messages related to people and properties.</p> <p>Increase building retrofits and flood resistant materials inquiries from Repetitive Loss Area property owners</p>	Building	See OP#1, 3, 4, 5	See OP#1, 3, 4, 5	See OP#1,3,4,5	<p>RLA property owners are part of the greater target audience.</p> <p>Letter to RLA properties was mailed in November 2024 and included information about flood protection through the Private Property Adaptation (PPA) program.</p> <p>In February 2024, RLA properties received a postcard in the mail encouraging them to apply to the PPA program.</p>	
	Messages 1-10 Supporting Activity 360 Flood Protection Information)	OP #7: Letter mailed to all RLA Properties (Activity 360)				Fall	No	Ongoing		

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
Repetitive Loss Areas (RLA) (RLAs are defined by FEMA)	Messages 1, 2, 3, 4, 5 Maps illustrate planned risk reduction improvements in relation to Repetitive Loss Areas (Activity 320)	OP #8: Fact sheets with improvements, and guidance for private property resilient building options Activity 320 - Map Information Services	Flood-related public meetings	Increase in map information inquiries from Repetitive Loss Area property owners	Building, Public Works	Annual, Ongoing	Yes - Shared	Factsheet and inquiries: Annual, ongoing	The city Flood Awareness Website, floodplain management site, and the MB Rising Above site contain information on private property protection and fact sheets for flood preparedness. Information on floodplain maps is made available to the public on the floodplain management website, which was updated to redirect to the preliminary floodplain map. Building Department staff responded to 23 flood information inquiries in 2024. Letter to RLA properties was mailed in November 2024 and included information about flood protection through the Private Property Adaptation (PPA) program.
			Publicly available information on website						
			Information provided by Floodplain Manager and Building Department Staff						
2a. Residents: Tenants	Messages 1-8 Importance of insurance coverage for renters.	See OP #1, 3, 4, 5, 6, 16	Provided on Website	Increase insurance coverage, flood preparedness awareness and flood resistant material use	Building, Environment and Sustainability	Ongoing	No	Ongoing	Fact sheets for renters are provided on the City's flood awareness website.
		OP #8: Fact sheet for tenants	Provided at meetings						
2b. Residents: Property Owners	Messages 1-10	See OP #1, 3, 4, 5, 6	See OP #1, 3, 4, 5, 6	Increase comprehensive awareness of CRS and Miami Beach flood messages	Environment and Sustainability, Building, Communications	Ongoing	Yes - Local news, Retweets	Ongoing	*Described previously in the 'All of Miami Beach' audience
	Messages 1, 2, 3, 4, 5, 6	OP #8: Fact sheet designed for renters and owners highlighting risk reduction from resilience projects. Including Relevant information on flood insurance OP #15: PPA Program	Community Events Flood protection Assistance meetings conducted one-on-one with Flood Plain Manager (Activity 360)	Increase retrofits, use of flood resistant materials Increase in inquiries/technical assistance to the Flood Plain Manager	Building, Communications	Ongoing	Yes	Ongoing	The first cohort of the PPA program is currently in the Design and Construction Phase, and participants include multifamily complexes and single-family homes. One PPA project has been completed. 48 applications were received for the second iteration of the PPA program in early 2024. 38 are moving forward with the program following onboarding and site assessments. The 2024 cohort includes multifamily complexes, single-family homes, and commercial properties. They are expected to begin Phase 2 this fall.

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
2b. Residents: Property Owners	Messages 1-10	OP #8: King Tide Fact Sheets	Email blasts to subscribers	Reduce preventable accidents and damage from flood waters	Communications, Environments and Sustainability	Spring and Fall King Tide messages sent by email and social media	Yes - Associations share with members, additional promotion through community newsletters	Fall; Ongoing	An LTC was issued prior to the King Tide season informing of the risk to residents and the predicted King Tide dates for 2024. A Constant Contact email blast was sent to Miami Beach Residents in September, October and November notifying of upcoming King Tides dates. The King Tide fact sheet updated 2024.
3b. Residents: Condo/Neighborhood Associations	Messages 1-10	See OP #1, 3, 4, 5, 9, 16	As described previously in the 'All of Miami Beach' Audience	Increased insurance coverage	Building, Communications, Environment and Sustainability	Ongoing	Yes - Associations share with members	Ongoing	*Described previously in the 'All of Miami Beach' audience
		OP #8: Fact Sheets	Shared by associations with members	Increase retrofits, flood resistant materials					
			Provided at meetings						
4a. Businesses: tenants*	Messages 1-10	See OP #1, 3, 4, 6, 16	Emailed and Mailed with Business Tax Receipt (BTR) renewals	Increase insurance coverage	Building, Environment and Sustainability, Finance	Spring/Summer	No	Complete	The language and statistics of the fact sheet were updated in June and mailed to businesses across Miami Beach with the BTRs.
		OP #8: Fact Sheet		Increase retrofits, flood resistant materials (Targeted through Flood Insurance Coverage Improvement)					
4b. Businesses: Property Owners*	Messages 1-10 Importance of insurance coverage and storm/flood preparation Elevation resources and information on public infrastructure improvements	See OP #1, 3, 4, 5, 6, 16	Emailed and mailed with the Business Tax Receipt (BTR) renewals. (Activity 360)	Increase insurance coverage	Environment and Sustainability, Building, Finance	Spring/Summer	No	Ongoing	The language and statistics of the fact sheet were updated in June and mailed all businesses across Miami Beach with their BTRs. Direct canvassing was conducted with businesses for the PPA application period in March of 2024, and a business-specific flyer was sent to businesses physically and through business improvement districts.
		OP #8: Fact Sheet	Flood protection Assistance meetings conducted one-on-one with Flood Plain Manager (Activity 360)	Increase retrofits, flood resistant materials (Targeted through Flood Insurance Coverage Assess.					

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
4c. Businesses: Contractors	Message 1-8 Importance of protecting equipment and vehicles Education in retrofits and flood resistant materials	See OP #6 OP #8: Building Resiliently Fact Sheet	Issued with building permits	Increase resilient retrofits, flood resistant materials	Building	Ongoing	Yes - Contractors share with property owners	Ongoing	Building resiliently factsheets are on the flood awareness website.
	Message 8 Importance of keeping the Biscayne Bay clean and the storm drain system clean Supports Activity 540	OP #8: Biscayne Bay and storm drain cleanliness Fact Sheet	Issued with building permits (540) Activity 540 - included as a condition in Right of Way and Building Permit Condition	Reduce dumping and pollutant discharges to storm drains and Bay	Building, Environment and Sustainability	Ongoing	Yes - Contractors share with sub-contractors	Ongoing	Storm drain cleanliness and erosion control affidavits are included in the permitting checklist and are issued with building permits. The Water Quality fact sheet is updated with information from recent NPDES reports. Keeping storm drains free of debris added in City flood messaging.
Real Estate Agents and Insurance Agents	Messages 1-8 The City is investing in flood risk reduction efforts. Know your elevation and your options to reduce risk Resources to understand personal property elevation, if there is any history of flooding Supports Activity 340	See OP #1, 3 OP #10: Real Estate Fact Sheet OP #11: Letter to Real Estate Agents, Insurance Agents, and Banks	Available on City Website Distributed to MB Agencies Distributed by Miami Association of Realtors Targeted letter sent to more than 90 real estate agents, insurance agents, and banks on Miami Beach advising about flood zone information	Maintain or increase flood insurance coverage rates Increase resilient retrofits with renovations Increase in information inquiries, technical assistance to the Flood Plain Manager	Building, Communications	Fall	Yes - Real Estate Agencies and agents share	Ongoing	Real estate fact sheets and letters to real estate agents and insurance agents were distributed November of 2024 with assistance from the PPI Committee.

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
Private Property Adaptation Program Recipients	Messages 1, 2, 4, 5, 9	OP #15: Private Property Assessment outreach flyer	Flyers mailed to PPA Buildings	Increase in information on PPA Program and resilient building	Environment and Sustainability, Communications	Ongoing	No	Ongoing	<p>The first cohort of the PPA program is currently in the Design and Construction Phase, and participants include multifamily complexes and single-family homes. One PPA project has been completed. 48 applications were received for the second iteration of the PPA program in early 2024. During the application period, the City hosted 3 webinars to share information about applying for a PPA grant. 38 are moving forward with the program following onboarding and site assessments and meetings with residents for flood risk. The 2024 cohort includes multifamily complexes, single-family homes, and commercial properties. They are expected to begin Phase 2 this fall.</p> <p>The Floodplain Manager met with 1 resident for an information meeting this year</p>
			Emails						
Information provided on Website									
Recurring public meetings on flood mitigation									
		OP #18: Resident Information Meetings	Private meetings with PPA Manager for more information on program, resiliency, and flood mitigation						
Seawall Owners	Message 1, 4, 5,	OP #8: Fact Sheet	Information provided on website	Increase in information on Seawall and seawall upgrades for affected properties	Environment and Sustainability, Communications	Ongoing	No	Ongoing	<p>Fact sheets, permitting information, and other resources are available on the MbRisingAbove, Flood Awareness, and Floodplain Management websites. The E&S Team answered calls and questions regarding a letter sent to seawall owners informing them of the Seawall height ordinance in December 2023. An additional letter will be sent by end of 2024.</p>
			Letter to Seawall Owners						
		OP #17: Seawall Ordinance Information Outreach	Newsletter Email Blasts Other Public Outreach						

Target Audience	Messages	Project(s) to Support Messages	Implementation	Outcomes	Department Assignment	Scheduling	Stakeholder	2024 Status of Projects	2024 Project Accomplishments
Special Projects All Audiences	<p>Messages 1, 3, 5</p> <p>Stormwater Management Dashboard</p> <p>Importance of reducing flood risk, measuring the effectiveness of stormwater program and responding to flooding</p>	Additional Project OP #13: Stormwater Management Dashboard	The dashboard's purpose is to measure how the city is becoming more resilient over time, track the effectiveness of the stormwater program and understand the impact of extreme events as well as the city's response	<p>Increase safety awareness before, during, and after flood events.</p> <p>Reduce preventable accidents and damage from flood waters</p>	Environment and Sustainability, Public Works, IT	Ongoing	No	Ongoing	The Stormwater Dashboard continues to receive updated data and will be updated when additional road improvement projects are completed. In 2024, the Dashboard notes 833 flood and drainage related events, 51.6% of which were resolved within 5 days. The Dashboard also indicates that 31 in 2024 tidal flooding incidents were avoided due to completed road raising projects.
	<p>Messages 1 & 3</p> <p>After Actions capturing rain events and King Tides</p> <p>Importance of understanding the impact of heavy rain events and how the city can better respond and document</p>	Additional Project: OP #14: After-Actions	After-Actions include recommendations to improve the city's response to flooding and data collection efforts.	<p>Increase safety awareness before, during, and after flood events.</p> <p>Reduce preventable accidents and damage from flood waters</p> <p>Increase retrofits, flood resistant materials</p> <p>Increase flood preparedness awareness</p>	Environment and Sustainability, Public Works	Ongoing - As Needed	Shared in Sustainability and Resiliency Committee - open to Residents	Ongoing - as needed	<p>In a Press Release, the City outlined resources for residents and businesses to mitigate flood risk during the State of Emergency Flooding Event in June.</p> <p>The Small Business Administration's (SBA) disaster assistance notification was sent out by Miami Beach's Economic Development Department to business associations and PPA participants via email.</p>

PERFORMANCE MEASURES

The following measures show progress toward the desired outcomes described on the outreach implementation table. The measures not only serve as a tracking mechanism, but they are also important to understand successful initiatives and identify areas of improvement. The measures help illustrate the City’s flood mitigation and communications initiatives and efforts undertaken in the past years. The PPI plan’s outcomes are noted below. Each table lists one or more of the plan’s desired outcomes at the top and shows success measures indicating progress made and its corresponding data.

Outcomes: 1. Increase comprehensive awareness of CRS and Miami Beach flood messages 2. Increase awareness of being safe before, during and after flood events.								
Success Measures	2017	2018	2019	2020	2021	2022	2023	2024
Number of X (Twitter) impressions about flood awareness messages	256,224	410,747	1,217,629 ¹	635,463	142,631	195,874	115,714	138,023 ²
Number of pageviews on MBRisingAbove website	N/A	13,255	28,134	19,651	21,619	83,000	240,961	68,603 ³
Residents preferring City Email for communication ⁴	N/A	N/A	33%	N/A	N/A ⁵	41.5%	N/A	47%
Residents preferring City Website for communication ⁴	N/A	N/A	34%	N/A	N/A	40.7%	N/A	40%
Residents preferring MB Magazine for communication ⁴	N/A	N/A	44%	N/A	N/A	40.0%	N/A	45%

¹Twitter impressions increased significantly in 2019 due to the implementation of communication campaigns and outreach efforts. Data was obtained from the City’s Office of Marketing and Communications.

²Social media data for 2024 was pulled from January 1 through July 31.

³Number of pageviews captured through November 17. Data was obtained from the City’s Environment & Sustainability Department.

⁴Miami Beach resident and business survey is administered every two years.

Using various channels to reach different audiences has been a key part of this outreach plan. With social media's importance as a communication channel for various demographics, the City is reaching residents through this outlet and raising awareness of flooding issues. Promoting flood awareness materials online has also been an important way of communicating with businesses. The City continues to evaluate the most suitable platforms and methods for communications via the Miami Beach Community Survey. This helps the City prioritize which communications channels to use for news, events, and awareness messages. The preferences of residents for communication channels are shown below in the results from the 2024 survey.

- Residents preferring the use of City email newsletters for communication about City government, issues, and events was 47%, an increase from 42% in 2022.
- Residents preferring the use of MiamiBeachfl.gov for communication about City government, issues, and events was 40%, a slight decrease from 41% in 2022.
- Residents preferring the use of MB Magazine for communication about City government, issues, and events was 45%, an increase from 40% in 2022.

The Miami Beach Community Survey was conducted in Spring of 2024 and received 1,300 responses from residents throughout the City. The number of pageviews on MB Rising Above decreased from about 240,961 in 2023 (year-end) to 68,603 (through November 17) in 2024. Pageviews may have been particularly high in 2023 in part due to the highly publicized We ♥ Biscayne Bay campaign, which is an educational campaign created to inform residents of steps they can take to keep Biscayne Bay clean from contaminants and pollution. For 2024, the most visited page on the website is the Private Property Adaptation (PPA) program page providing an overview of the PPA program, which opened applications for its second cohort in early 2024, and contains information on how to apply. The page with the second most views is the Sea Turtles page, which provides information on sea turtle nesting season and how to help protect sea turtle hatchlings. The page with the third most views is the Household Hazardous Waste page providing information on waste drop-off events and on how to safely dispose of hazardous materials.

Outcome: Reduce preventable accidents and damage from flood waters								
Success Measures	2017	2018	2019	2020	2021	2022	2023	2024 ¹
Total pumping system capacity (gallons per minute) ²	148,400	357,600	481,600	481,600	481,600	526,600	526,600	526,600
Number of stormwater backflow prevention devices installed	0	0	0	6	6	6	12	5
Percent of flood and drainage complaints resolved in 5 days from initiation date	88%	73%	73%	66%	74%	79%	79%	52% ³
Percent of stormwater pump stations, outfalls, catch basins, and associated piping cleaned annually	95%	100%	100%	100%	100%	100%	100%	100%
% of active construction sites inspected for proper sediment and erosion control	N/A	N/A	N/A	N/A	100%	100%	100%	100%

¹ Data provided is accurate to October and does not reflect November or December data.

² Includes stationary stormwater treatment systems. Methodology updated by Public Works Department including projects that have reached substantial completion since 2016. Only new generation stormwater treatment stations are being counted.

³ Responses resolved within 5 days was heavily impacted during a 200-year storm in mid-June of 2024. The extent of flooding and volume of flood responses resulted in many being resolved outside of the 5 day window.

Reducing preventable accidents and damage from flood waters is an important desired outcome of the plan and the stormwater program. The measures above help the City track progress in this area and also reflect the various efforts dedicated to improving the storm water system, responding to flooding more efficiently, and building resiliently.

The City of Miami Beach reduces potential pollution and continuously improves its stormwater management through a combination of education and outreach, maintenance, cleaning, and the use of cutting-edge technology and industry-vetted operational practices. Through these efforts, the City has made improvements to many of the pipes and drains of the stormwater conveyance system; Additionally, the City has installed 30 stormwater backflow prevention devices in various areas since 2020. These backflow prevention devices reduce the need for temporary stormwater pumps to be deployed during major storm events.

As it relates to the operations of its stormwater system, the City has made a commitment to inspect, clean, and maintain the entire stormwater system at least once per year. Public Works Operations staff responsible for overseeing these activities are evaluated annually on their ability to meet this metric. In

addition, the Environment and Sustainability Department staff conducts a review of these activities every year as part of the National Pollution Discharge Elimination System (NPDES) annual reporting.

The City exceeds regulatory requirements for stormwater management. For reference, the NPDES permit that governs the system’s operation requires the entire system be inspected, cleaned and maintained a minimum of once every three years. In addition to exceeding the required NPDES frequency, the City cleans certain structures more frequently than once a year. For example, stormwater treatment systems are cleaned at a minimum once per quarter as required by their maintenance manuals. The City elects to clean certain stormwater treatment systems even more frequently, as needed. Stormwater treatment systems connected to higher trafficked drainage basins in tourism areas are cleaned once per week to ensure they are preventing as much pollution from entering the receiving water body, as well as operating as designed. The Public Works stormwater team cleans the entire storm drain system, including pump stations, prior to storms as well.

Outcome: Increase awareness of being safe before, during, and after a flood event				
Success Measures	2016	2019	2022	2024
Household is prepared with food/water/supplies for an emergency (percent of strongly agree and agree)	58%	66%	69%	58%
I know where to get information during an emergency (percent of strongly agree and agree)	65%	71%	74%	68%
I'm satisfied with my building(s) flood risk protections ¹	N/A	43%	40%	42%

¹ In 2019 and 2022, residents were asked if they were “comfortable” rather than “satisfied.”

Increasing awareness of being safe before, during and after a flood event is important to ensure residents have the information needed to remain safe and protect their property during extreme weather events. The Community Survey measures emergency preparedness and awareness as it relates to weather events and emergencies. Results in both areas decreased by 11% and 6%, respectively. However, residents’ satisfaction with their buildings’ flood risk protections increased by 2%. The most recent survey was conducted in the Spring of 2024.

Outcome: Reduce preventable accidents and damage from flood waters							
Success Measures	2009	2012	2014	2016	2019	2022	2024
Percent of residents observing increased flooding	N/A ¹	N/A ¹	N/A ¹	74%	40%	45%	46%
Resident satisfaction with efforts to address stormwater and drainage (rating of excellent or good)	44%	37%	25%	46%	50%	38%	42%

¹Resident Survey data not available for 2009, 2012, and 2014.

To understand if residents are experiencing issues with flooding and drainage, survey questions related to these areas are included in the City’s community survey. Data related to the satisfaction with stormwater program is provided above.

- The percent of residents observing flooding increased by 1% since 2022.
- Satisfaction with efforts to address stormwater and drainage increased by 4% since 2022. This issue also ranked as a top priority item for respondents.

The activities to encourage flood insurance in target areas, including commercial properties and properties in the AE and X zones, have been outlined in the Implementation Table and the Evaluation and Monitoring sections of the report. A full outline of the NFIP policy update will be provided in the 2025 PPI Plan Report.

SUMMARY OF RECOMMENDATIONS FOR IMPROVEMENT

As part of this report, recommendations were developed with the Committee to make improvements to the implementation of the plan. The following paragraphs provide a summary of recommendations with their corresponding status.

1. **Continue implementing outreach projects** to reduce flood risk, help reduce the cost of flood insurance premiums, promote flood insurance, and educate about changes to flood insurance.

STATUS: ONGOING

The City provides considerable information online and holds in-person events and engagement within the community. The City has emphasized wide-spread, accessible community engagement within its initiatives, including the Sea Level Rise Vulnerability Assessment and the Private Property Adaptation (PPA) program, and has incorporated promotion of flood insurance into these

programs and their engagement activities. The City will continue to provide updates to the community.

The City's Neighborhood Resiliency Projects Advisory Committee is now a permanent standing committee and acts as an advisory board to City Commission and City Manager on neighborhood infrastructure programs and private property matters related to the City's climate resilience projects to help build awareness within the community and to incorporate resident ideas and feedback. Staff presented updates regarding sea level rise and flooding studies to this committee and the Sustainability Committee, both of which are open to public attendance and comment. A public comment period for the City's Sea Level Rise Vulnerability Assessment Update was held from August 27 to September 13, 2024.

2. **Adopting plans and policies to advance resilience.** Over the last six years, more than 20 land use amendments have been adopted to address sea level rise, a full City Resiliency Code update went into effect on June 1, 2023, and the City's Stormwater Modeling and Master Plan Update was completed and approved by City Commission on March 19, 2024.

STATUS: ONGOING

In 2021 there were several ordinances passed that enhanced the City's flood awareness and mitigation efforts: two ordinances—fertilizer and erosion—to manage stormwater quality; dune protection ordinance that provides, among other benefits, protection from storm surge; seawall ordinance that sets minimum height for new seawall construction. The City is actively engaged in the promotion and enforcement of these ordinances. Additionally, the Stormwater Modeling and Master Plan Update was completed by the Public Works Department and approved by City Commission on March 19, 2024. Finally, the Environment and Sustainability Department completed its Sea Level Rise Vulnerability Assessment Update to analyze the effects from sea level rise, king tides, compound flooding, and storm surge based on NOAA projections for the years 2040 and 2070. The City will continue work on an Adaptation Plan related to the Vulnerability Assessment to be finalized early 2025. This Adaptation Plan compiles, organizes, and prioritizes sea level rise adaptation strategies from a multitude of previous city plans. These resources are available through: <http://www.mbrisingabove.com>

3. **Implementing flood mitigation/ climate adaptation projects:** Miami Beach is leading the way in South Florida and nationally in designing neighborhood projects with an integrated approach to addressing flooding and improving the water and sewer systems in each neighborhood in a holistic way.

STATUS: ONGOING

Neighborhood projects are designed to have multiple co-benefits including the installation of a new and robust drainage system, upgrading aging water and sewer infrastructure, improving mobility with bike lanes and complete streets, lighting, and incorporating native and Florida friendly vegetation and tree canopy to help manage stormwater and improve stormwater quality. Additionally, greater emphasis on aesthetics, particularly regarding the above-ground elements associated with neighborhood projects, is being implemented and will be another significant co-

benefit. To supplement these projects while preparing for future environmental conditions, the City completed and approved a Stormwater Master Plan on March 19, 2024.

Sunset Harbour, Palm and Hibiscus, Indian Creek, West Ave Phase I, and other areas where improvements have been completed now experience less flooding due to king tides and intense rainfalls. Construction has commenced for Phase II of the West Avenue neighborhood improvements. Design is underway for First Street and North Shore D, which have both held community meetings in 2024 to review design and community priorities and concerns.

In addition to large-scale neighborhood improvement projects, the City is incorporating resilience into its new parks. Brittany Bay Park, which includes resilience features like a floodable park with a setback seawall, was officially opened in 2023. Maurice Gibb Park is currently undergoing a redesign and construction, which will include a new playground, a higher seawall, and a natural shoreline with planted mangrove trees. The Bayshore Park is also under construction and will serve as a retention and percolation area for stormwater runoff, complete with a floodable park and a system of underground retention infrastructure.

Upcoming projects include:

Short-term: The City began construction on West Avenue Phase II, is currently designing the First Street project (currently at 60% design) and is currently designing of the North Beach Town Center project. The City expects to complete construction of the Maurice Gibb Park and Bayshore Park in 2025.

Mid-term and Long-term: The City will continue the Neighborhood Improvement Projects based on the Jacob's Engineering neighborhood project prioritization and commence the critical needs projects identified in the Stormwater Modeling and Master Plan Update.

4. **Preparing critical assets in the City** for current and future flood risk to compound flooding.

STATUS: ONGOING

The City completed a Sea Level Rise Vulnerability Assessment and Adaptation Plan in 2024. The Vulnerability Assessment is complementary to the Stormwater Master Plan, specifically focusing on the critical assets that keep Miami Beach running. It evaluates risks due to compound flooding and sea level rise projections for the years 2040 and 2070. Based upon findings from the Assessment, specific buildings, environmental assets, and City infrastructure will be incorporated into an Adaptation Plan for future flood risk mitigation projects. The Adaptation Plan is currently being drafted and will be completed in 2025. The Vulnerability Assessment was presented to the Sustainability Committee and the Neighborhood Resilience Projects Advisory Committee in September of 2024. A public comment period was held for the Vulnerability Assessment from August 27 to September 13 in 2024.

5. **Promote the Private Property Adaptation (PPA) Program** which promotes and supports flood mitigation property improvements.

STATUS: ONGOING

The PPA program launched in August 2022 and has been approved for funding of \$3.3M through FY 2025. The program provides a 50/50 matching grant fund for private property owners—single family homeowners, multifamily property owners, and commercial property owners—to undertake flood risk mitigation improvements. The program is split into two phases: the first is an assessment to analyze risks and possible improvements for each property; the second is the design and construction of improvements. In addition, the program links to other funding opportunities available in the City and at the federal level, like the FEMA FMA. To apply for the PPA, properties must provide proof of flood insurance and an Elevation Certificate. The inaugural cohort is now in Phase II: Design and Construction, and one grantee has completed their project to replace an impervious walkway with pervious pavers. The Assessments included site visits with the purpose of understanding the property’s site conditions and challenges, as well as the participants’ priorities and interests. Of the 65 properties that applied for the inaugural program, 42 properties moved forward with Phase I and received flood risk assessment reports. Of the 42 Phase I participants, 35 are currently moving forward with Phase II of the program. The application for the 2024 cohort opened on February 15 and closed on April 2, 2024. The City received 48 applications, and 38 applicants moved forward with Phase I of the program. Site visits to these 38 properties were completed from June to August. For 2024, the City emphasized the outreach of the program to non-residential properties, and the City is pleased that two commercial properties are participating and received site visits. The program is expected to begin accepting applications for the next cohort in early 2025.

6. **Seawall Program:** Make forward progress and conduct outreach and education on seawall ordinance

STATUS: ONGOING

Seawall Ordinance 2021-4393 establishes construction standards and a minimum elevation of 5.7' NAVD for new construction of seawalls or seawalls undergoing substantial improvement. This ordinance was passed in January 2021. The City has focused on communication and education throughout the past three years. A letter on enforcement of seawall heights was sent to seawall owners in December 2023, and the City plans to send another in December 2024. This helps support **Activity 430 Higher Regulatory Standards**.

CONCLUSION & NEXT STEPS

The Program for Public Information (PPI) Plan activities were implemented successfully in 2024. Various outreach projects were completed and continue to be scheduled for upcoming years. New projects have been added with the purpose of using data for better decision-making and more effective communication. In addition, the City is preparing for its annual CRS audit by tracking and documenting PPI efforts.

For more information, the City website contains comprehensive flood awareness located at <https://www.miamibeachfl.gov/flood-awareness>. Information is also available at www.MBRisingabove.com, through the Flood Awareness tab. MBRisingabove.com is the City of Miami Beach's resource for climate change adaption and mitigation efforts. In addition, information regarding capital projects that contribute to flood awareness and reducing flood risk are located at [Active Projects - City of Miami Beach \(miamibeachfl.gov\)](#).

Miami Beach is committed to reducing the cost of flood insurance, reducing flood risk and increasing flood awareness. This Program for Public Information (PPI) Annual Update & Evaluation Report, developed for the National Flood Insurance Program Community Rating System program, opens the doors for increased integration of initiatives that go hand in hand with resilience practices and provides the City with opportunities to improve its programs. The Committee and staff will continue to implement the plan, track progress, and make recommended improvements.

Legend

FEMA Flood Zones

- AE-10
- AE-9
- AE-8
- VE-11
- VE-9
- X

FEMA Flood Zones: Land Ration

Total Urban Area = 7.22 Square Miles
 Flood Zone AE = 7.02 Square Miles or 97.2 %
 Flood Zone VE = 0.03 Square Miles or 0.004 %
 Flood Zone X = 0.17 Square Miles or 0.024 %

