



City of Miramar, FL FMP

Public Meeting #2 - Draft Plan Review

March 19, 2026

Agenda & Introductions



Introductions

Agenda

Introductions

Floodplain Management Plan

- Planning Process Update
- Review of the Draft Plan
 - Organization of the Plan
- Mitigation Action Plan
 - Review Projects

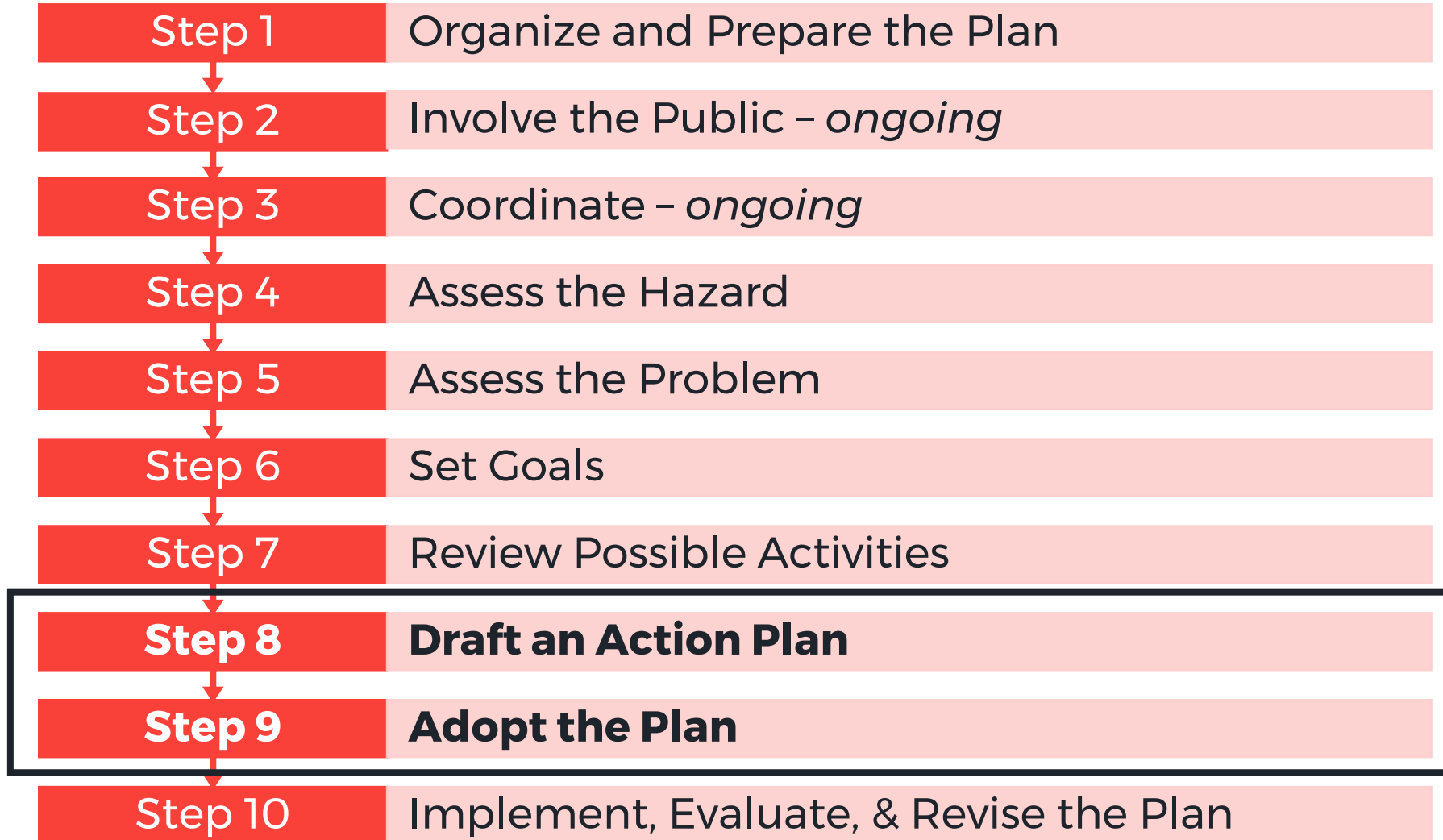
Next Steps



Planning Process Update



Planning Process



Review the Draft FMP



Organization of the Plan

1. Introduction
 2. Planning Process
 3. Community Profile
 4. Flood Risk Assessment
 5. Capability Assessment
 6. Mitigation Strategy
 7. Plan Adoption
 8. Plan Implementation and Maintenance
- Appendix A. Planning Process Documentation
- Appendix B. Mitigation Strategy
- Appendix C. References

Organization of the Plan

1. Introduction

- 1.1 Purpose and Authority
- 1.2 Background
- 1.3 Scope
- 1.4 References
- 1.5 Plan Organization

Provides context and justification for the plan, including regulatory framework, and FEMA and CRS guidance documents

2. Planning Process

- 2.1 Local Government Participation
- 2.2 The 10-Step Planning Process

Explains the steps followed to prepare the plan documents the process, including FMPC participation, public outreach, and stakeholder coordination

FMPC & Public Meetings

Meeting Title	Meeting Topic	Meeting Date	Meeting Location
FMPC Mtg. #1 – Project Kickoff	1) Introduction to DMA, CRS requirements and the planning process 2) Trends in disasters and justification for planning 3) Review of FMPC responsibilities and the project schedule 4) Preliminary hazard identification	June 11, 2025 10 am	Microsoft Teams Meeting
FMPC Mtg. #2	1) Review draft Hazard Identification & Risk Assessment (HIRA) 2) Discuss asset inventory, risk, and vulnerability	August 26, 2025 2:30 p.m.	Microsoft Teams Meeting
FMPC Mtg. #3	1) Discuss goals & objectives 2) Review mitigation action plan requirements 3) Discuss local capability 4) Discuss new mitigation action alternatives	October 21, 2025 2:00 p.m.	Microsoft Teams Meeting
FMPC Mtg. #4	1) Review the draft Floodplain Management Plan 2) Finalize the mitigation action plan 3) Solicit comments and feedback	January 20, 2026 11:00 a.m.	Microsoft Teams Meeting

Meeting Type	Meeting Topic	Meeting Date	Meeting Locations
Public Meeting #1	1) Introduction to DMA, CRS and the planning process 2) Introduction to hazard identification 3) Discussion on integrating FMP with existing city projects	July 17, 2025 6:00 – 7:00 p.m.	City Commission Chambers, 2300 Civic Center Place, Miramar, FL
Public Meeting #2	1) Review draft Floodplain Management Plan 2) Solicit comments and feedback from the public	March 19, 2026 5:30 – 6:30 p.m.	Microsoft Teams Meeting

Public Survey Results



167 Responses

- 38% of respondents have experienced flooding (61% have not)
 - Backed up drainage/sewers
 - Flooded streets that impact driveway, or home
- 61% of respondents have not taken actions to protect their home
- 67% do not know who to contact regarding flood risk
- Suggested steps for the City to take:
 - Debris management (trees/clippings)
 - Drain cleaning
 - Drainage improvement

**Majority of responses
centered around drainage
maintenance and
improvements**

Organization of the Plan

3. Community Profile

- 3.1 Geography and Environment
- 3.2 Economy
- 3.3 Housing
- 3.4 Population
- 3.5 Social Vulnerability
- 3.6 Growth and Development Trends

Provides an overview of current conditions in the City

4. Flood Risk Assessment

- 4.1 Hazard Identification
- 4.2 Risk Assessment Methodology
- 4.3 Asset Inventory
- 4.4 Hazard Profiles, Analysis, and Vulnerability
- 4.5 Risk and Vulnerability Conclusions

Identifies the hazards, summarizes risk, estimates exposure and vulnerability, and prioritizes the hazards for mitigation

Priority Risk Index Results

High	Moderate	Low
≥3.0	2.0-2.9	<2.0

Hazard	Probability	Impact	Spatial Extent	Warning Time	Duration	PRI Score
Flood	Likely	Critical	Moderate	6 to 12 hrs	Less than 1 week	3.0
Levee Failure	Unlikely	Limited	Moderate	Less than 6 hrs	Less than 1 week	2.2
Stormwater/Localized Flooding	Highly Likely	Limited	Moderate	Less than 6 hrs	Less than 24 hrs	2.9
Tropical Cyclones	Likely	Catastrophic	Large	More than 24 hrs	Less than 1 week	3.3

Organization of the Plan

5. Capability Assessment

- 5.1 Regulatory Mitigation Capabilities
- 5.2 Administrative and Technical Mitigation Capabilities
- 5.3 Fiscal Mitigation Capabilities
- 5.4 Education and Outreach Capabilities

Details existing tools, resources, and staff that can support mitigation project implementation

6. Mitigation Strategy

- 6.1 Mitigation Strategy Overview
- 6.2 Mitigation Goals
- 6.3 Identification and Analysis of Mitigation Actions
- 6.4 Mitigation Action Plan

Summarizes activities for continued compliance with the NFIP; reviews goal setting and resulting goals; describes the mitigation action identification and prioritization process; and presents the mitigation action plan

Proposed Goals



Goal #1: Continue outreach and public awareness on flood risk, preparedness, and mitigation to encourage people to responsibly protect their property and ensure public health and safety.



Goal #2: Improve stormwater management to protect existing property, critical facilities, and infrastructure from current and future flood risk.



Goal #3: Prioritize the use of green infrastructure and seek to integrate such techniques into future development projects to expand greenspace and manage stormwater.

Organization of the Plan

7. Plan Adoption

Documents plan adoption

Plan must be formally adopted by the City Commissioners

8. Plan Implementation and Maintenance

8.1 Role of FMPC in Implementation, Monitoring,
and Maintenance

8.1 Implementation

8.2 Maintenance

Summarizes the process for
monitoring and evaluating
the plan, including the
FMPC's responsibilities once
the plan is adopted
*Quarterly review meetings
are recommended*

Organization of the Plan

Appendix A. Planning Process
Documentation

Documents the planning process, including meeting minutes, attendance records, public outreach efforts, and stakeholder coordination

Appendix B. Mitigation
Strategy

Reviews mitigation action alternatives within each FEMA mitigation category

Appendix C. References

Lists data sources and other references

Mitigation Action Plan



Proposed Projects

Action #	Mitigation Action	Hazard(s) Addressed	Mitigation Category
1	Historic Miramar Infrastructure Improvement Project - Phases 5 and 6	Stormwater/Localized Flooding	Structural Projects
2	C-9 Canal outfall pipe plug removal. This will reduce the time it takes for water to recede in the lakes.	Stormwater/Localized Flooding	Structural Projects
3	Acapulco drainage improvement	Stormwater/Localized Flooding	Structural Projects
4	SW 33rd St. drainage improvement	Stormwater/Localized Flooding	Structural Projects
5	Tarpon pipe collapse replacements	Stormwater/Localized Flooding	Structural Projects
6	Implement CIP projects identified in the City's Stormwater Master Plan (plan development is currently underway)	Stormwater/Localized Flooding	Structural Projects
7	Drainage improvements - Miramar Parkway from Canal Road to University Drive. Add inlets with connection to nearby canal or french drain to eliminate the problem of water retention in the curblane and ponding in the travel lanes.	Stormwater/Localized Flooding	Structural Projects

Proposed Projects

Action #	Mitigation Action	Hazard(s) Addressed	Mitigation Category
8	Develop a voluntary property acquisition plan and program for repetitive loss areas and other high risk flood locations.	Flood; Tropical Cyclones	Property Protection; Prevention
9	Create a public information program on the benefits of onsite retention. Highlight examples of LID techniques, the establishment of rain gardens, and the use of rain barrels to reduce flash flooding impacts.	Stormwater/Localized Flooding; Flood	Public Information
10	Promote and publicize the City's public flood risk website that allows property owners to access flood risk data for their individual properties. Prioritizes Historical Miramar.	Flood	Public Information
11	City staff provide advice and assistance to homeowners who want to flood proof their home or business. Publicize technical assistance for Activity 360 Flood Protection Assistance. Maintain records of assistance given to receive CRS credit.	Flood	Property Protection; Public Information
12	Create plan for improved vegetative management around canals/lakes to improve water quality. Include a public outreach educational component that describes benefits of increased vegetation around these waterways.	Flood	Natural Resource Protection
13	Coordinate open space opportunities with flood control needs for new developments, repetitive loss areas, or other localized flooding locations. Establish coordination between Parks and Recreation Department, Public Works, and Building, Planning and Zoning.	Flood	Natural Resource Protection

Proposed Projects

Action #	Mitigation Action	Hazard(s) Addressed	Mitigation Category
14	Increase protection of residential areas and neighborhoods through the support of green design guidelines and LID requirements for new development and major renovation residential areas, historic neighborhoods, and areas vulnerable to flooding. Could provide development incentives and variances for participation.	Flood	Prevention; Property Protection
15	Seek additional funding for the Embankment Restoration Program. Promote and publicize program to residents in high-risk areas.	Flood	Structural Projects; Natural Resource Protection; Public Information

Next Steps



Project Schedule

June

Project Kickoff Meetings

Committee & Public Meetings

August

Meeting 2

FMP Risk Assessment Review

PPI Target Areas/Audiences and Topics

October

Meeting 3

FMP Capability & Mitigation Strategy

PPI Outreach Projects

January

Meeting 4 Draft Plan

Draft plan review

March

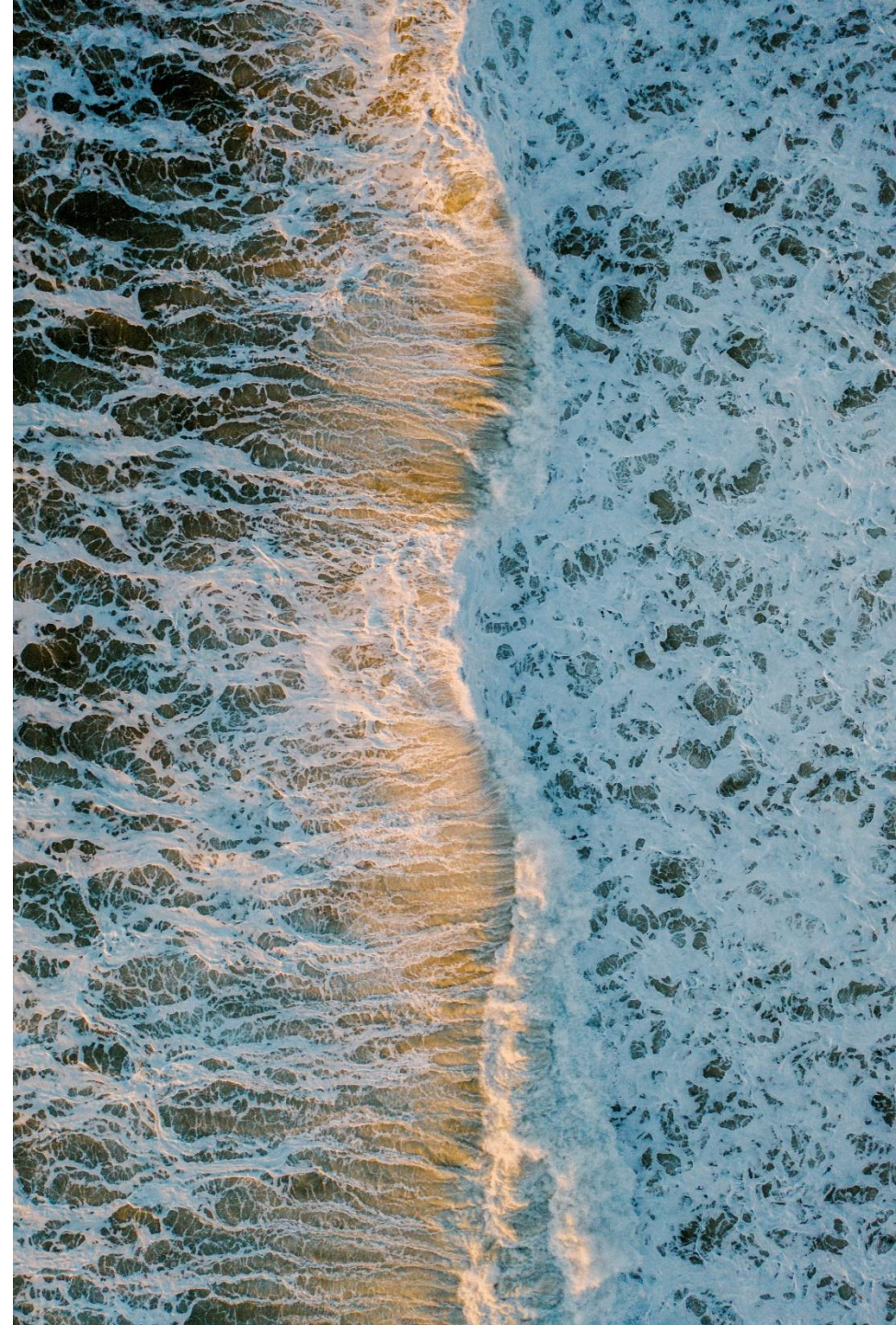
Final Draft Plan Review

Public Meeting 2

What's Next

Review the Draft Plan and submit comments by
March 26th

- View plan on City's Floodplain Management website
 - <https://www.miramarfl.gov/Departments/Building-Planning-Zoning/Floodplain-Management>
- Send comments to ranger.ruffins@wsp.com



Thank you

Questions?

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