



**AGENDA
TOWN OF JUPITER
ENVIRONMENTAL TASKFORCE MEETING
TOWN HALL COMMUNITY ROOM
MONDAY, JUNE 23, 2025
6:00 PM**

Call To Order

ROLL CALL

Chair Willie Puz
Vice-Chair Christina Akly
Christa Cherry
Elizabeth Summers
Emily O'Mahoney
Jill Watson (At Large)
Taylor O'Hara (At Large)
Kara Kreuger (ALT)
Nathan Shemella (ALT)

CITIZEN COMMENTS

All Non-agenda items are limited to three (3) minutes. Anyone wishing to speak is asked to go to the podium and state his/her name and address for the record. **The Task Force will not discuss these items this evening.**

MINUTES

1. Approval of the April 28, 2025 ETF Meeting Minutes [Attachment 1]

PUBLIC BUSINESS

2. Introduction of new Task Force members Taylor O'Hara, Kara Kreuger, and Nathan Shemella
3. Presentation - Vulnerability Assessment Update [Attachment 2]
4. Staff Updates
 - North Delaware Exotic Removal
 - Sims Creek Preserve
 - Natural Environment Centennial Committee

5. Task Force Member Comments
6. Next meeting tentatively scheduled for Monday August 25, 2025 at 6:00 p.m. at Town Hall Community Room

ADJOURNMENT



**MINUTES
TOWN OF JUPITER
ENVIRONMENTAL TASK FORCE (ETF)
TOWN HALL COMMUNITY ROOM
April 28, 2025
6:00 PM**

ROLL CALL:

Chair Willie Puz	X	Member Jill Watson (Alt)	X
Vice-Chair Christina Akly	X	Vacant	<input type="checkbox"/>
Member Christa Cherry	<input type="checkbox"/>	Vacant	<input type="checkbox"/>
Member Emily O'Mahoney	X	Vacant	<input type="checkbox"/>
Member Beth Summers	X		

Staff Liaisons: Jeff Buck, Senior Natural Resources Coordinator
Ashley Reeves, Natural Resources Coordinator
John Sickler, Director of Planning and Zoning

CITIZEN COMMENTS

All non-agenda items are limited to three (3) minutes. Anyone wishing to speak is asked to go to the podium and state his/her name and address for the record. **The Task Force will not discuss these items this evening.**

None

MINUTES

Approval of the October 28, 2024 ETF Meeting Minutes [Attachment 1]

Motion to approve by Board Member O'Mahoney. Seconded by Board Member Akly.

Willie Puz	Christina Akly	Emily O'Mahoney	Beth Summers	Jill Watson
Yes	Yes	Yes	Yes	Yes

PUBLIC BUSINESS

1. Welcome – Jeff Buck, Senior Natural Resources Coordinator

Chair Puz asked newest member Jeff Buck to give a brief introduction of himself.

John Sickler, Director of Planning & Zoning, spoke briefly to make some announcements, including the resignations of Nikki Carpenito and Barrett Cruce from the Town of Jupiter.

2. Resignation of Task Force Member Anne Shoffner

Staff Ashley Reeves brought attention to the vacancies and states that the reappointments are tentatively scheduled for June 3rd and are waiting for an appointment for the open Council Member Seat before committee appointments. Staff explained that the Task Force is required to meet quarterly.

Task Force Members expressed similar comments made by Anne and her reasons for resigning: infrequent and inconsistent meeting times, not feeling as if the Task Force has much meaningful impact, whether Town Council Members reviews the minutes.

Staff explained that the Environmental Task Force focus is designated by the Town Council and concerns regarding issues such as reappointment can be brought up to individual Town Council Members via public comment.

3. Presentation – Oyster Recycling by Tom Twyford, Executive Director of Palm Beach County Fishing Foundation

Tom Twyford introduced himself and the Foundation, the West Palm Beach Fishing Club – involved with the mangroves, artificial reefs, and living shorelines at Lake Worth Lagoon.

Mr. Twyford gave presentation on vertical oyster gardens, which require no permit and are generally installed underneath existing docks. Overall goal is to maintain and restore habitats for marine life. Sediment smothers essential habitat, seagrasses and oyster beds, in the Loxahatchee River Estuary. He wants to support oyster numbers because they are the most efficient, natural, and cost-effective filtering system. Cure shells collected locally to be used for oyster reef restoration.

Task Force members discussed areas within the Town that vertical oyster gardens could be utilized. Staff mentioned that the current marine restoration project at Sawfish Bay Park could potentially utilize vertical oyster gardens. Task Force members discussed an art installation of vertical oyster garden with information signage to explain the project to residents.

Task Force members also discussed potential places within Town that could host a place to cure oysters if the Town was to start constructing its own vertical oyster gardens. It was expressed that the oyster curing station would have to be away from residential areas in order to decrease impacts to residents due to odors.

Task Force members asked Mr. Twyford what the Task Force could do to support the foundation's mission. Mr. Twyford responded that staying informed on the progress of the foundation and spreading word to other residents.

Task Force members asked Mr. Twyford if the foundation provided a manufacturing and installation guide for vertical oyster gardens. Mr. Twyford responded that the foundation does provide that information.

4. Street Tree Management Plan Update [Attachment 2]

Presentation given by Staff on the result of several street tree management plans within Town. Board Member O'Mahoney provided input as her office conducted multiple street tree studies.

Board Member O'Mahoney stated that she believes street trees should be considered infrastructure to the same degree of all other infrastructure.

Staff further discussed creative solutions to address conflicts between trees and the built-environment.

5. Centennial Celebration – Arbor Day May 17, 2025

Staff thanked Task Force Members for participation in Centennial events so far. Staff reminded Task Force members of the date for Arbor Day Proclamation at Town Council on May 6th.

Staff discussed the Arbor Day event this year, a tree giveaway (100 seedlings from the historic Cabot Oak) by Jupiter High School's Horticulture Program.

6. Staff Updates

a. North Delaware Exotic Removal

Staff explained the progress on exotic removal at the North Delaware open space property. The contractor is TreeCycle Land Clearing, Inc. and the contract will be executed soon. There is no site development planned to date as Staff is awaiting direction from Town Council.

b. Sims Creek Preserve

Staff is working on permitting, and preparing to go out for bid. Staff explained that site development includes a small parking lot and a bioretention area on south portion of property. The kayak launch is already constructed. Staff plans to begin construction late this year.

Staff also provided a brief update on the vulnerability assessment. The vulnerability assessment is projected to finish in July, and tentatively scheduled for Town Council roundtable in the fall.

Staff discussed a meeting reminder for future meetings. Task Force members agreed that calendar invite is the most effective reminder. Staff mentioned emailing any meeting changes at least two weeks ahead of time.

7. Task Force Member Comments

Task Force members expressed an interest in having a project to work on. Chair Puz discussed current events in the Town and the State, including balloon release issue, artificial turf bills, CRA bills, and emergency management bill.

Board Member O'Mahoney discussed frustration regarding the Task Force not having input on Town Projects (New Town Hall, Police Department building, etc.).

8. Next meeting – Tuesday, May 27, 2025 at 6:00 p.m. at Town Hall
Community Room

ADJOURNMENT

8:25pm motion to adjourn



Town of Jupiter Environmental Task Force Meeting Vulnerability Assessment Update

June 23, 2025

Background

The Town applied for and was selected for planning grant through the Resilient Florida Grant Program to conduct a Town-Wide Vulnerability Assessment (VA). The Grant Agreement executed in April 2024

Project number	Project Sponsor	Project Title	State Funding Request
54	Town of Juno Beach	Town of Juno Beach Comprehensive Vulnerability Assessment	\$274,000
55	Town of Jupiter	Town of Jupiter Comprehensive Vulnerability Assessment	\$259,838
56	Town of Jupiter Island	Town of Jupiter Island Comprehensive Vulnerability Assessment	\$160,000
57	Town of Lake Park	Town of Lake Park Comprehensive Vulnerability Assessment Update	\$20,320
58	Town of Lauderdale-By-The-Sea	Town of Lauderdale-By-The-Sea Comprehensive Vulnerability Assessment	\$200,000
59	Town of Manalapan	Town of Manalapan Comprehensive Vulnerability Assessment and Adaptation Plan	\$300,000
60	Town of Montverde	Town of Montverde Comprehensive Vulnerability Assessment	\$140,000
61	Town of Penney Farms	Town of Penney Farms Comprehensive Vulnerability Assessment	\$100,000
62	Town of Southwest Ranches	Town of Southwest Ranches Comprehensive Vulnerability Assessment	\$200,000
63	Town of White Springs	Town of White Springs Comprehensive Vulnerability Assessment	\$100,000
64	Village of El Portal	Village of El Portal Comprehensive Vulnerability Assessment	\$150,000
65	Village of North Palm Beach	Village of North Palm Beach Comprehensive Vulnerability Assessment	\$59,250

- ✓ Performance of a VA was a key recommendation from the Sustainability Assessment
- ✓ Completion of a statutorily compliant VA will allow the Town to be eligible for implementation grant funding from FDEP
- ✓ A baseline stormwater model is being developed concurrent with the VA and can be leveraged going forward to evaluate new flood control projects



RESILIENT FLORIDA - IMPLEMENTATION GRANTS

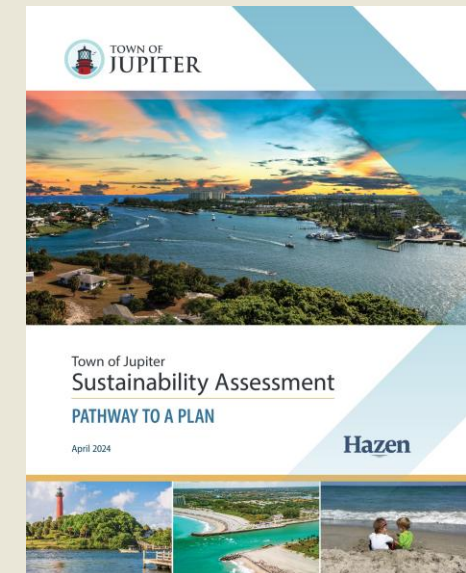
This grant is available to counties, municipalities and certain special districts for infrastructure projects that address risks identified in a local government vulnerability assessment. Funding is also available for water management districts, drainage districts, erosion control districts, flood control districts and regional water supply authorities to mitigate the risks of flooding and storm surge to water supplies or water resources.

[Portal Opens July 1.](#)

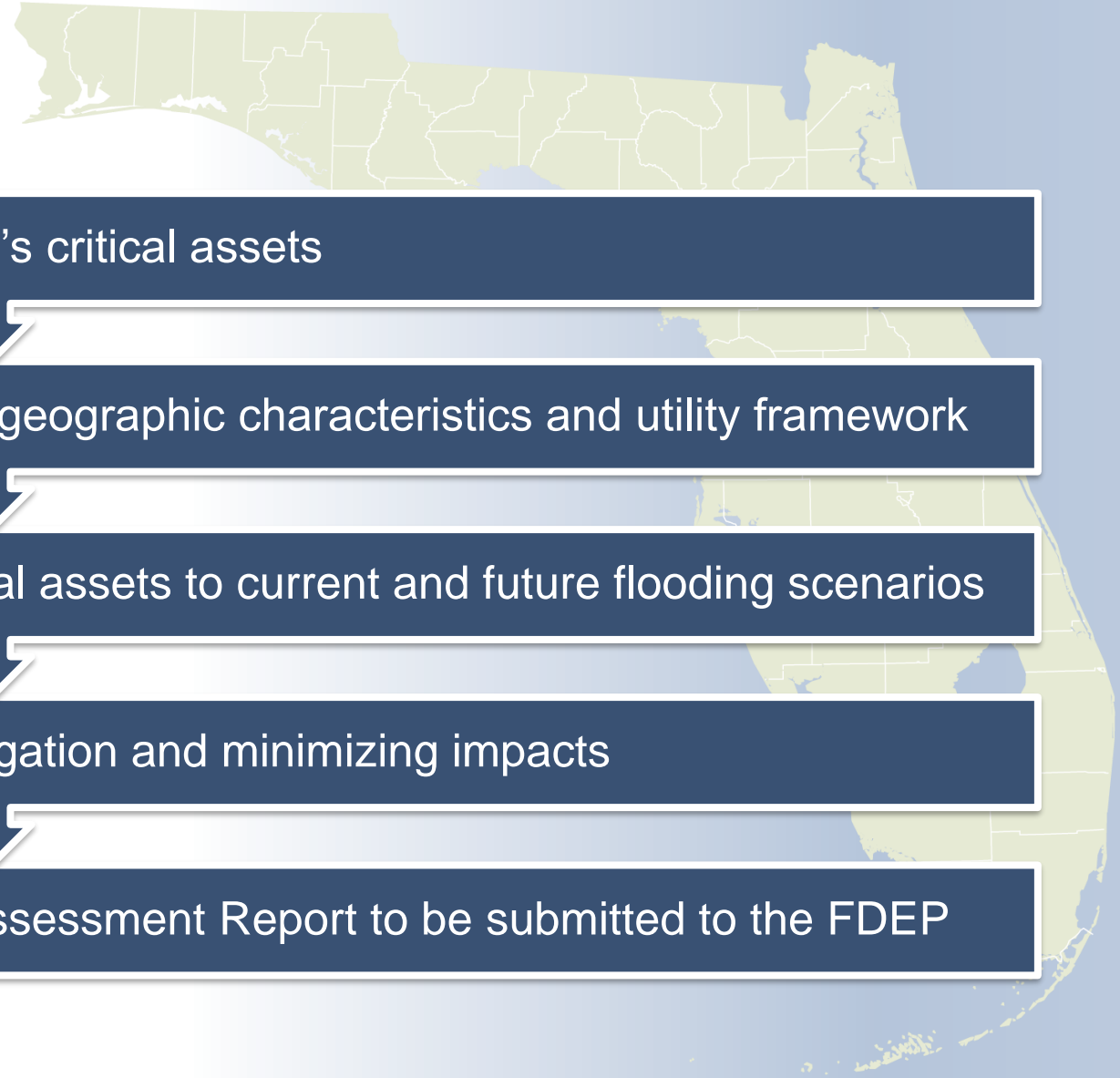
[FY 2023-24 Project List](#)

Conduct a vulnerability assessment of hazards related to climate change including sea level rise, flooding, saltwater intrusion and extreme weather that consider both exposure and sensitivity analysis in relation to community assets

Key recommendation from the
Town of Jupiter Sustainability Assessment



Vulnerability Assessment Overview



Identify the Town's critical assets

Develop a model that is calibrated to the Town's geographic characteristics and utility framework

Evaluate the exposure and sensitivity of the critical assets to current and future flooding scenarios

Investigate focus areas for mitigation and minimizing impacts

Consolidate findings into a Final Vulnerability Assessment Report to be submitted to the FDEP

Critical Assets

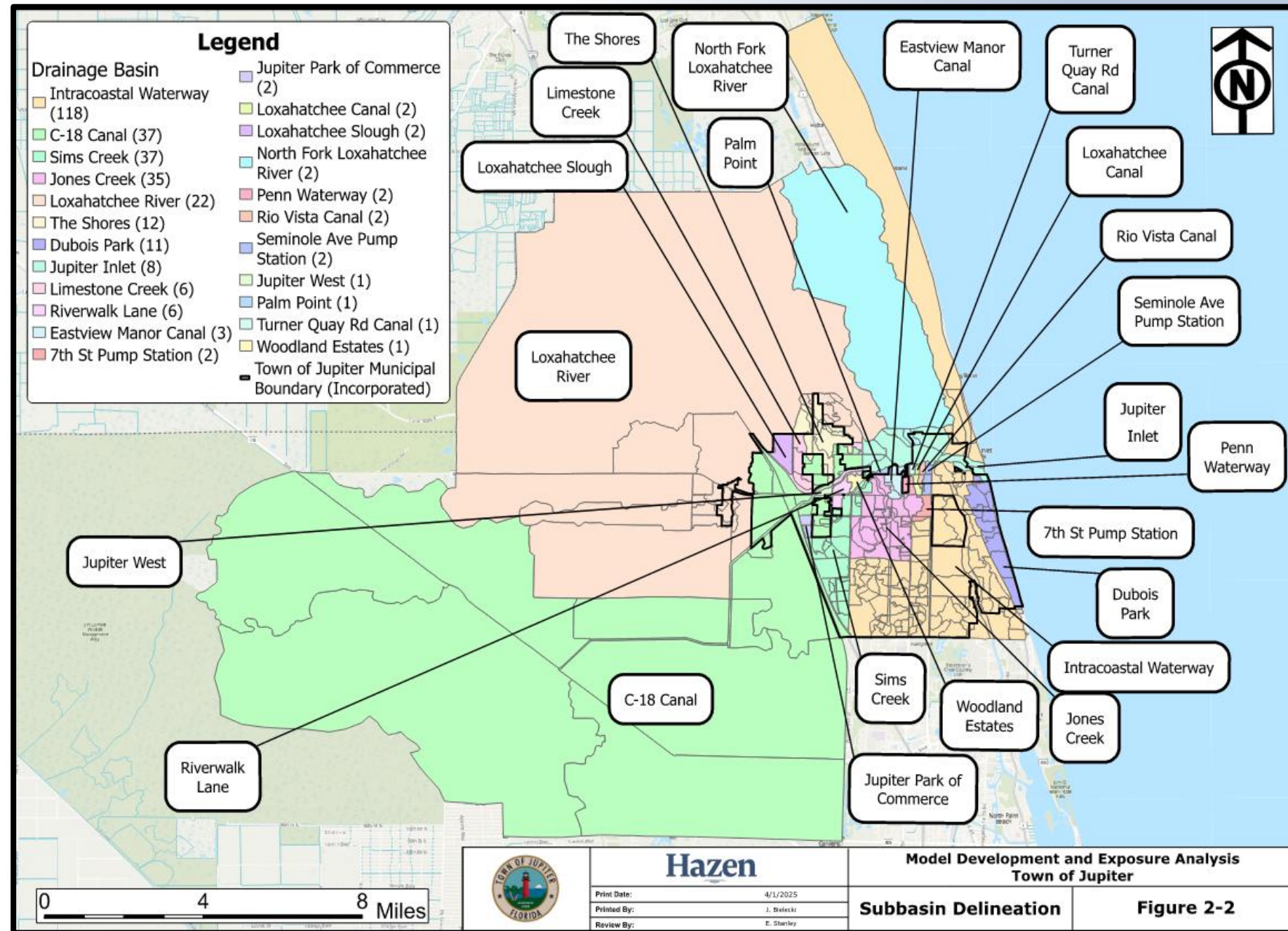
Florida Statute 380.093 classifies Critical Assets as...

- Transportation assets and evacuation routes
- Critical infrastructure
- Critical community and emergency facilities
- Natural, cultural and historic resources

Asset Class	Asset Type	Asset Count
Transportation and Evacuation Routes	Bridges	39
	Major Roadways	79
	Marinas	2
	Rail Facilities	1
	Railroad Bridges	1
Critical Infrastructure	Wastewater Treatment Facilities and Lift Stations	203
	Stormwater Treatment Facilities and Pump Stations	15
	Drinking Water Facilities	76
	Water Utility Conveyance System	8
	Electric Production and Supply Facilities	3
	Solid and Hazardous Waste Facilities	1
Critical Community and Emergency Facilities	Schools	24
	Universities	3
	Community Centers	2
	Emergency Operation Centers	2
	Fire Stations	5
	Health Care Facilities	14
	Hospitals	1
	Law Enforcement Facilities	1
	City Facilities	1
	Affordable Public Housing	7
	Risk Shelter Inventory	1
Natural, Cultural, and Historic Resources	Conservation Lands	37
	Parks	33
	Historical and Cultural Assets	16
Total		575

Model Development

- Sourced Digital Elevation Models and Bathymetry from FDEM, USGS, and NOAA
- Sourced Land Cover/Land Use data from NOAA
- Sourced soils data from NRCS
- Incorporated the Town's existing stormwater infrastructure database
- Developed subbasins, with boundaries determined with the topography and the pipe network (figure)



Modeled Flooding Scenarios

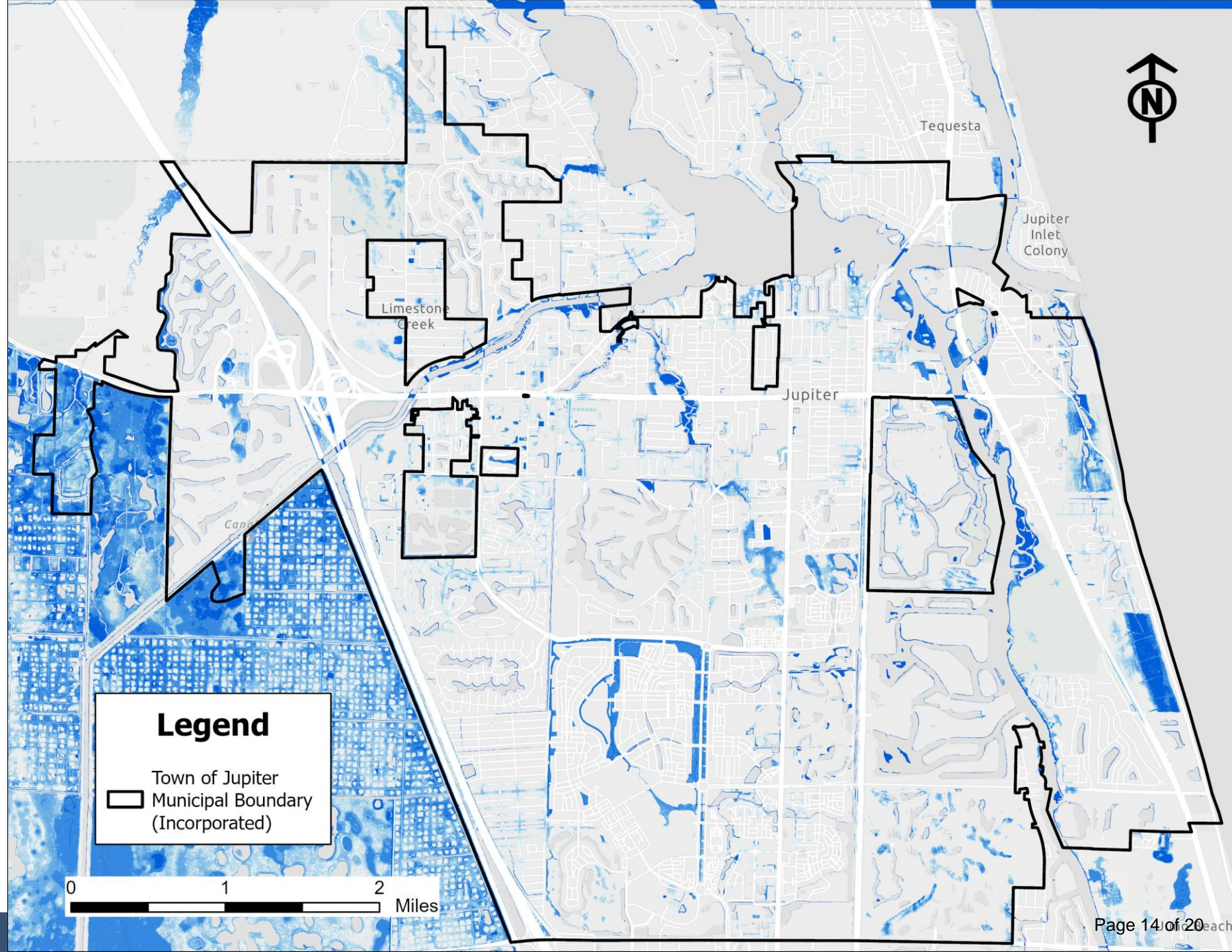
- FDEP requires specific Sea Level Rise and Tidal Condition analyses
 - 2022 NOAA Intermediate Low and Intermediate Projects in 2050 and 2080 Planning Horizons
 - 100-year Storm Surge
- An optional rainfall analysis was included
 - 10-yr, 25-yr, 100-yr, 500-yr
- Considered compounded flooding conditions

Scenario	Rainfall	Sea Level Rise Projection	Planning Horizon	Tidal Condition
S-1	10-yr	N/A	2025 - Current	Normal High Tide
S-2	25-yr			
S-3	100-yr			
S-4	10-yr	2022 NOAA Intermediate Low	2050	
S-5	25-yr			
S-6	100-yr			
S-7	10-yr	2022 NOAA Intermediate	2080	
S-8	25-yr			
S-9	100-yr			
S-10	10-yr	2022 NOAA Intermediate Low	2080	
S-11	25-yr			
S-12	100-yr			
S-13	10-yr	2022 NOAA Intermediate	2050	
S-14	25-yr			
S-15	100-yr			
S-16	10-yr	N/A	2025 - Current	100-year Storm Surge
S-17	25-yr			
S-18	100-yr			
S-19	10-yr	2022 NOAA Intermediate Low	2050	
S-20	25-yr			
S-21	100-yr			
S-22	10-yr	2022 NOAA Intermediate	2080	
S-23	25-yr			
S-24	100-yr			
S-25	10-yr	2022 NOAA Intermediate Low	2080	
S-26	25-yr			
S-27	100-yr			
S-28	10-yr	2022 NOAA Intermediate	N/A	
S-29	25-yr			
S-30	100-yr			
S-31	500-yr	N/A	N/A	Normal High Tide

Example Flood Depth Map

Scenario 1

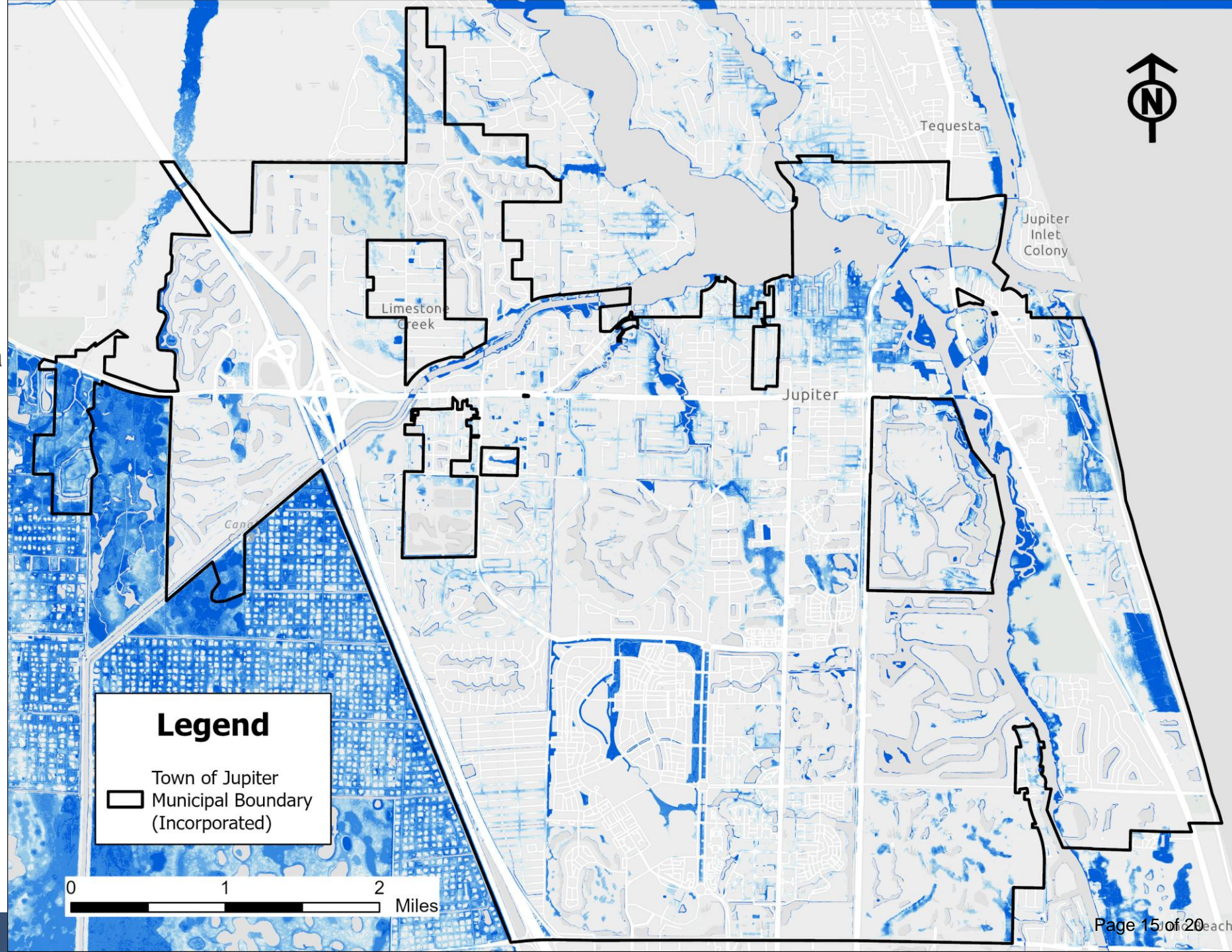
- 10-Year Storm
- Present Day Sea Level Rise
- Normal High Tide Conditions



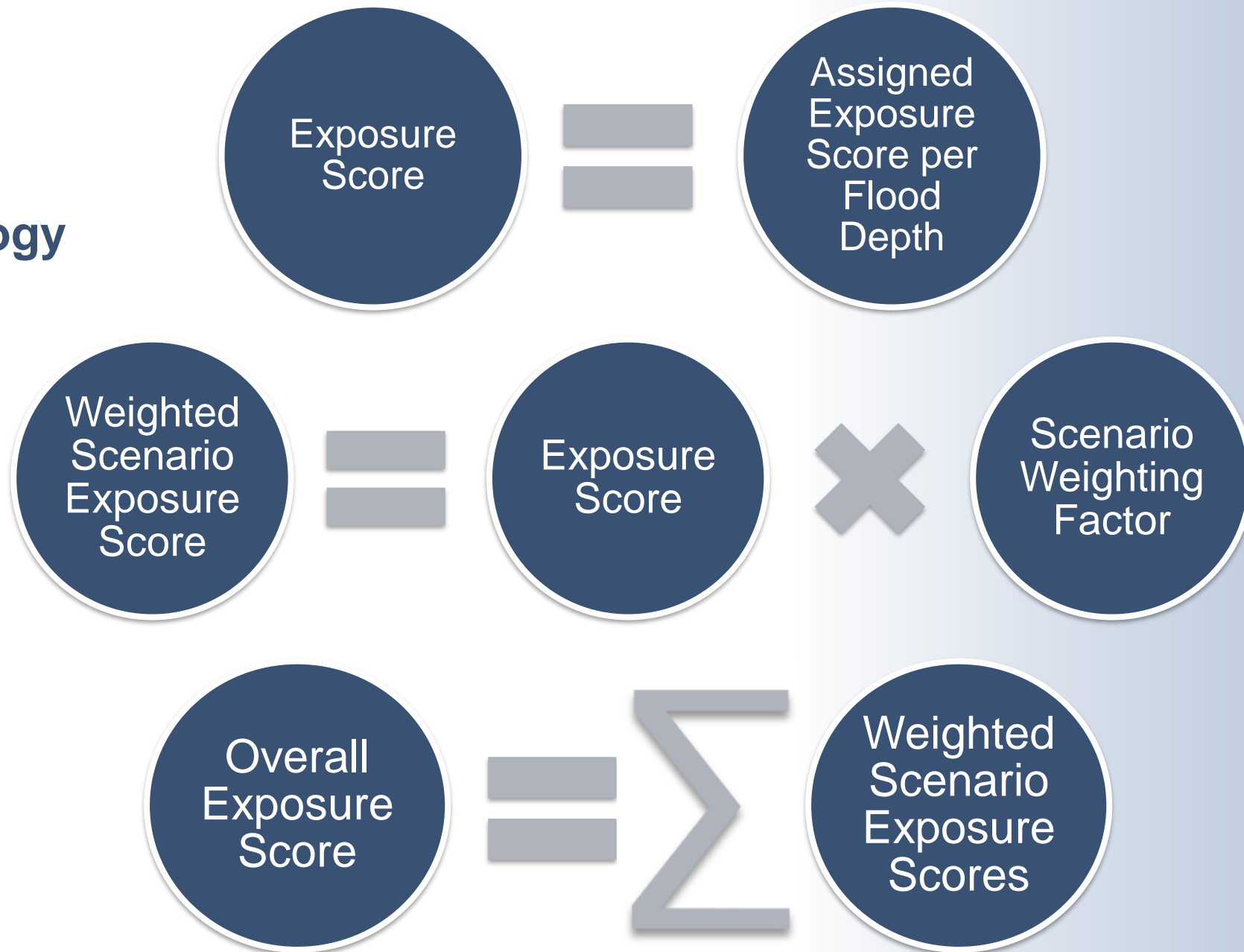
Example Flood Depth Map

Scenario 13

- 10-year Storm
- NOAA 2022 Intermediate Sea Level Rise in 2080
- Normal High Tide Conditions



Exposure Analysis Methodology



Example Exposure Analysis Calculation – Old Town Hall (First Five Scenarios)

	Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5
Flood Depths (ft)	-	0.24	1.56	-0.13	0.83
Exposure Score	0	2	4	1	3
Scenario Weighting Factor	.15	.09	.06	.05	.03
Weighted Exposure Score	0	.18	.24	.05	.09

Critical Facilities - Buildings		
Exposure Level	Exposure Score	Flood Depth (ft)
Severe	5	> 2
High	4	1 - 2
Medium	3	0.5 - 1
Low	2	0 - 0.5
Minimal	1	-0.5 - 0
None	0	< -0.5

Old Town Hall's Overall Exposure Score is the summation of this row for all scenarios

Overall Exposure Scores – Buildings (Top 15)

Rank	Asset Name	Overall Exposure Score
1	Salinity Barrier	5.00
2	Seminole Ave Pump Station	3.36
3	Old Town Hall	3.22
4	The Alice Kitching Benton House	3.05
5	N Old Dixie Highway Pump Station	2.80
6	Florida East Coast Railway Jupiter Train Depot	2.17
7	WWII Naval Housing Building	1.83
8	Sims House	1.32
9	Egret's Landing Recharge System Pump Station	0.70
10	People's Congregation Church	0.47
11	The Brooker House	0.20
11	Main Town Hall	0.20
13	Police Department	0.19
14	Abacoa Electrical Building and Generator #10	0.12
15	Jupiter Inlet Shipwrecks Historical Marker	0.10

Next Steps

Sensitivity Analysis

Weigh the Exposure Scores based on how critical the asset is to Town operations

Identify Focus Areas

Use calculated scores and maps to determine areas within the Town boundary with greatest vulnerabilities to flooding

Presentation to Town Council

Conduct a Public Meeting to present the results of the Vulnerability Assessment Study to Town Council

Submission

Compile findings into a final Vulnerability Assessment Report and submit to FDEP



Adjournment