

## VoM FMAC – Agenda -1/24/2023

1. **Welcome to the Jan 2023 FMAC Meeting**
2. **Meetings Info**
  - a. 4<sup>th</sup> Tuesday of the month, 7 PM, Courthouse with Zoom for the Public
    - i. Members who cannot attend in person may Zoom in but cannot vote
3. **Minutes Review & Comments for 2022**
  - a. Feb – edits            Approved?
  - b. July – edits            Approved?
  - c. Oct – edits            Approved?
  - d. Nov – edits            Approved?
  - e. Dec 2022 actual meeting 1/3/2023 – edits    Approved?
4. **Meetings – Priorities – Discussion**
  - a. TG - Watershed flood planning & stopping flooding asap in the VoM
  - b. AS – low hanging fruit, things we can get done – clean up rivers, leaves, sewers, floatables
  - c. DF – USACE Project
  - d. SG – development in the flood plain – regulations, process
  - e. ER – concentrate efforts on the areas that flood the worst
  - f. Patti T – Dredging the Rivers & cleaning the debris
  - g. Bernie C – Dam & Reservoir and funding
  - h. Leilani – Emergency Preparedness
5. **Member Roles & Priorities – Discussion – how can we be more effective? -Subcommittees?**
  - a. **Timely communication to and from the VoM Admin. very important**
    - i. Updates on the Watershed Plan -Draft, below – monthly from VoM
    - ii. Timely & regular updates on the USACE Plan & Progress
    - iii. Timely, Regular and comprehensive Applications in the Floodplain
    - iv. Emergency Preparedness – VoM has plans at the VoM Level; FMAC can work at the home/business level
    - v. LYR possible quarterly meetings of all VoM Committee Chairs
    - vi. Meeting Minutes – ER to assist TG
  - b. **TG & LYR planning to meet VM for discussion on these items.**

## Previous Business - Updates

6. **BoT Work Session** – involvement with Harrison; FMAC sent Letter to BoT supporting working with Harrison
7. **USACE** - Open Questions – TG to find Q&A and circulate to FMAC
  - a. also discuss Process for info with VM
8. **NY DEC** – Mamaroneck Sheldrake Watershed Study is starting;
  - a. TG to see if they can attend the 1/24/23 FMAC Meeting
9. **The Holistic Watershed Plan** (draft below) - need updates monthly if possible
  - a. **The Surface Flow Study for the Western Parts of the Village**
  - b. **Mamaroneck Reservoir & Dam**
    - i. Feasibility Study expected completion Feb 2023 – will need funding – State, County?
  - c. **Stream Gauges – FMAC sent ‘Guidelines Letter to Village Mgr. and cc BoT**
  - d. **Add these items to the Watershed Plan:**
    - i. Waverly Ave Br., Crushed Culvert under Ralph Ave; Dredging; Aquifers; Plan for Communications
10. **Emergency Preparedness** – Fiscally, Environmentally & Culturally Responsibly!
  - a. FMAC believes we can help prepare residents and business owners & workers
11. **Applications Review in the Floodplain**
12. **Flood Plain Regulations – discussion;**
  - a. Model Laws generally generated by the States; BC to see if there are new model laws such as the ToM passed that we could review
13. **Temp Pumps for Columbus Park -TG believes pumps could reduce floodwaters 5-6 feet over 50 acres in 24 hours**
  - a. Researching FEMA Grant for pumps?
14. **Communication & Cooperation with Municipalities in our Watersheds**

## New Business

15. **Emails to FMAC from the Community – How does FMAC respond?**
  - a. TG – emails can be very time consuming – receives 1 email with 30+cc’s









## VoM FMAC – Minutes – Feb 15, 2022 – DRAFT

Attendance:

Anthony Gelber, Chairperson; Peggy Jackson Founding Member; Andrew Spatz, Steven Glener, Elsa Puerto Rubin, Dana Gallagher, Dan Natchez, Member of BOT

### Minutes:

Meeting came to order at 7 pm through Zoom remote access.

### Old Business

1. Welcome to the FMAC Feb, 2022 Meeting and Happy Valentine's Day +1
2. Meeting Dates for 2022 – posted on VoM Website; next Mtg. March 22, 2022, 7 PM
3. Updates
  - a. USACE
    - i. The VOM is in the process of arranging a meeting to be held between the ACE/VOM/FMAC in the middle of March. We are awaiting more info and a specific date
    - ii. **FMAC has been asking for this meeting for months. It is critical to begin the dialogue with ACE to identify the Project Scope, Process and Schedule, and then communicate this info to residents and business owners.**
    - iii. **Gelber to reach out and determine status of meeting.**
4. Capital Projects
  - a. Road to Nowhere, RTN
    - i. Mayor Murphy, Mayor Richard Dionisio, Harrison, Tony Gelber, Peg Jackson and several of the Harrison Flood Committee met on the Road to Nowhere
    - ii. Previous plans to trim the road back were located by the VM's office and forwarded to the TOH. We are awaiting an update.
    - iii. Trustee Natchez trying to get BoT approval for River gauges
    - iv. **Next Steps: VoM to send plans to Harrison**
5. USDA NRCS - Paula Bagley USDA
  - a. Post Ida River Cleanup Program - Updates
    - i. **Next Steps: FMAC, Gelber, send PowerPoint to Barberio and Sarnoff**
  - b. Flood Plain Easement – Info
    - i. **Next Steps: Further discussion needed**
6. County Involvement – Updates - Catherine Parker's office
  - a. **Catherine Parker & John Filiberti attended, Thank you both!**
  - b. **FMAC & Parker discussed:**
    - i. **LISWIC and how it could be a tool for progress between Municipalities**
    - ii. **Westchester Co. has completed SW Reconnaissance Plans for several Watersheds, available at:**
      1. **<https://planning.westchestergov.com/stormwater-management-law>**
    - iii. **Possibly changing Regs so the concept of not discharging more SW becomes discharging less SW**
    - iv. **River gauges should be a Watershed Project so upstream flows can be communicated in a timely manner to downstream Muni's and residents**
    - v. **Monies available – Requesting Capital \$, starts with submitting the correct documentation – Engineering Plans and Cost estimates**
7. Watershed Flood Planning
  - a. Communications

- i. FMAC sent info paragraph to Robert Ingenito for inclusion in the VoM Newsletter
  - 1. Updates: FMAC sending info paragraphs to Ingenito for inclusion in the VoM e newsletter

8. Low Hanging Fruit Memo – discussion re next steps

- a. Discussion:
  - i. River and Storm System Maintenance
    - 1. Do we have, and where are the written schedules for:
      - a. Regular River maintenance and cleanouts
      - b. Standard storm syst maintenance
      - c. Pre-storm storm sewer cleanout by Priority area
  - b. Add'l Equipment – what do we need
    - i. Glener mentioned that Army Surplus vehicles and equipment available at very good prices
    - ii. Discuss with Fire Chief?

9. Minutes – Dec 2021 - Approved

**New Business**

10. Other

- a. Floatables – problem for the VoM
  - i. In Ida, 2 floatables, 40 foot-ish container stuck at Plaza St Br and blue storage shed stuck at bridges
  - ii. Regulations prohibit floatables
  - iii. Glener to view VoM and take pics of Floatables for discussion next meeting
- b. Emergency Parking locations during Floods
  - i. Elsa to look into
- c. Regulations – Members to review existing regs.

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**VoM FMAC – Minutes – July 12, 2022 - Draft**

- A. Present – Andrew Spatz, Steven Glener, Dana Gallagher, Tony Gelber, Trustee Natchez; Excused Peggy Jackson, Elsa Rubin
- B. Meeting Dates for 2022 – posted on VoM Website
- C. Minutes for 5/24/22 – Approved

Updates

- D. **Emergency Preparedness** – Fiscally, Environmentally & Culturally Responsibly!
  - a. Meeting to be held at ST Vito’s Community Room to update community members
- 19. Waverly Ave Br.** – being renovated by the Town of Mamaroneck and funded not by USACE
- 20. USACE Plan Tweaks** – Discussion & should we generate a ‘Motion’ for the BoT
  - a. Tweaks to include: Grassy Open Channel vs Closed Tunnel, Reconstruction of RR Br. & Halstead Br, Review of solutions for Harbor Heights & House raising
  - b. Discussion to include Mamaroneck Reservoir & Dam – no – not included in the ACE Plan. Tweak has to be in the original Plan
  - c. Motion to BoT in support of requesting Tweaks for ACE - passed - 4 ayes and Chair
  - d. Further discussion, RR Br and Halstead too big for tweaks
- 21. New Motion** to overturn 1<sup>st</sup> Motion – 4 no’s and 1 aye – 1<sup>st</sup> Motion remains
  - a. FMAC to send Motion to BoT supporting asking USACE for Tweaking the Plan to include Tweaks above.

## 22. Meeting Ended.

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### VoM FMAC – Minutes – Oct 25, 2022

1. **Present – Peg Jackson, Steven Glener, David Finch, Tony Gelber, Dan Natchez**
2. **USACE Meeting at the BoT Meeting Oct 11 2022 - Recap**
  - a. **4 Questions including Tweaks**
  - b. **Previous Questions**
    - i. **FMAC**
    - ii. **Public**
3. **Updates**
  - a. **Meetings – new NY State Regs for meetings?**
  - b. **The Surface Flow Study for the Western Parts of the Village**
    - i. Village has hired an Engineer – will discuss process for the Study
    - ii. Charrette with Residents being considered
  - c. **Mamaroneck Reservoir & Dam - Was the letter sent to request County Funding?**
    - i. VOM FMAC sent a Letter to the VoM BoT asking that the VoM send a Letter to the CE, Latimer requesting funding for the study to determine if the Mamaroneck Dam & Reservoir could be enhanced as a part of the Mamaroneck Flood Control System
4. **Stream Gauges**
  - a. Discussion needed re intent and scope of work
5. **Emergency Preparedness – Fiscally, Environmentally & Culturally Responsibly!**
  - a. Updates/Next Steps
  - b. Comments on the VoM Mtg at Mamaroneck Ave School?
  - c. Other
6. **Applications Review in the Floodplain**
  - a. TG spoke with Village Mgr. re Process
    - i. All Applications in the Flood plain to be sent to FMAC. FMAC to review and send 1 response to Village X
    - ii. X to circulate to all other Land Use Committees
  - b. **Updates – Steven Glener**
7. **Flood Plain Regulations**
  - a. Town of Mamaroneck reviewing Model - ‘No Flooding Regs’
  - b. other
8. **Temp Pumps for Columbus Park**
  - a. Possible FEMA Grant for study, pumps?
  - b. Next Steps?
9. **Communication & Cooperation with Municipalities in our Watersheds**
  - a. Harrison – Updates
    - i. Rd to Nowhere – believe there has been a negative response from Harrison on Rd to Nowhere Removal
      1. Engineer Amodeo proposing a Plan for 3 Dams – approx. 10 years ago
10. **The Holistic Watershed Plan (HWP) - Parallel Paths to a Drier Mamaroneck**
  - a. Overview – MANY PROJECTS
    - i. ‘Grassy Channel’ in lieu of Closed Culvert – ‘Tweak’ for the USACE Project?
    - ii. Possible Mam Dam & Reservoir Modernization
    - iii. The Flats – Surface Flow Study



iv. See list below

11. Other.

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**VoM FMAC – Minutes – 11/22/2022 - Draft**

1. Nov 22, 2022 FMAC Meeting in person at the Courthouse
2. Present – Peg Jackson, Andrew Spatz, Dave Finch, Steven Glener, Elsa Rubin, by phone, Tony Gelber
3. Discussion – Development
  - a. in Harrison
    - i. West St Development – are they following floodplain regs?
    - ii. TG attended a previous Harrison Planning – observation – Harrison is asking questions re floodplain regs
  - b. Open Space near Toyota City – what is happening with this space?
4. Discussion – Floodplain Regs – Insurance
  - a. If landlord has insurance does/can it protect tenants?
  - b. Can Tenants get insurance?
  - c. How can FMAC assist?
5. Discussion – Dredging
  - a. Can FMAC get the scope of work; What is the status of the project and permits?
6. Updates
  - a. Applications Review in the Floodplain – Steven Glener following up on Applications
    - i. Does not believe FMAC is getting all Applications?
7. Thank you, Peg Jackson, for your service.
8. The FMAC Dec 2022 Meeting will be Jan 3, 2023

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**VoM FMAC – Minutes – 1/03/2023 - Draft**

1. Welcome to the Dec/Jan 2023 FMAC Meeting – *Meeting held in the Courtroom*
2. Present: Andrew Spatz, Dave Finch, Steven Glener, Elsa Rubin, Bernard Camarda, Patti Trifiletti, Tony Gelber, Trustee Leilani Yizar-Reid
3. *Thank you to previous Trustee Dan Natchez and former FMAC Chair Peg Jackson for their service to the VoM.*
4. Welcome & welcome to 2023:
  - a. new Members - Bernard Camarda, Patti Trifiletti
  - b. Andrew Spatz, Dave Finch, Steven Glener, Elsa Rubin,
  - c. Trustee liaison - Leilani Yizar-Reid
5. Meetings Info
  - a. 4<sup>th</sup> Tuesday of the month, 7 PM, Courthouse
  - b. Thoughts? – FMAC Members expressed desire for more transparency
    - i. TG to det Options – In Person, Zoom etc.
6. Meetings – Priorities – Discussion
  - a. TG - Watershed flood planning & stopping flooding asap in the VoM
  - b. AS – low hanging fruit, things we can get done – clean up rivers, leaves, sewers, floatables
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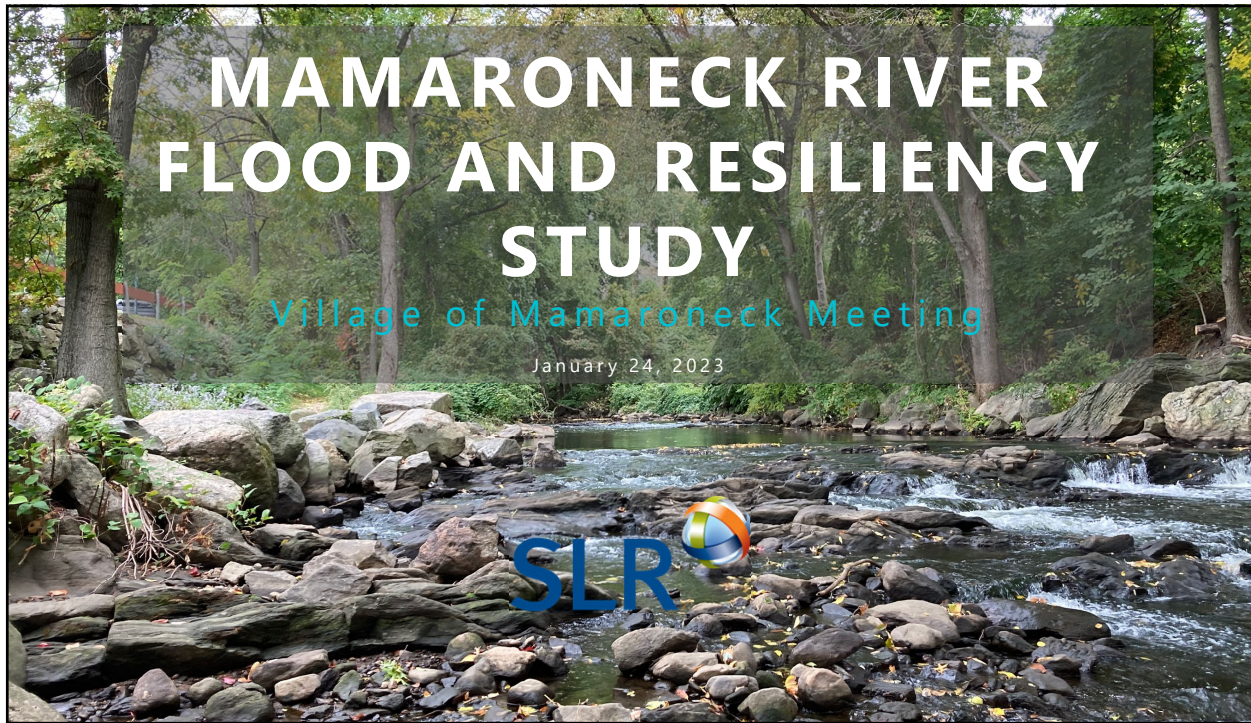
- g. **Bernie C – Dam & Reservoir and funding**
- h. **Leilani – Emergency Preparedness**
- 7. **Member Roles & Priorities – Discussion – how can we be more effective? -Subcommittees?**
  - a. **Timely communication to and from the VoM Admin. very important**
    - i. **Updates on the Watershed Plan -Draft, below – monthly from VoM**
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    - iv. **Emergency Preparedness – VoM has plans at the VoM Level; FMAC can work at the home/business level**
    - v. **LYR possible quarterly meetings of all VoM Committee Chairs**
    - vi. **Meeting Minutes – ER to assist TG**
      - 1. **TG & LYR planning to meet VM for discussion on these items**

#### **Previous Business - Updates**

- 8. **BoT Work Session – involvement with Harrison; FMAC sent Letter to BoT supporting working with Harrison**
- 9. **USACE - Open Questions – TG to find Q&A and circulate to FMAC; also discuss Process for info with VM**
- 10. **NY DEC – Mamaroneck Sheldrake Watershed Study is starting;**
  - a. *TG to see if they can attend the 1/24/23 FMAC Meeting*
- 11. *The Watershed Plan (draft below) -need updates monthly if possible*
  - a. **The Surface Flow Study for the Western Parts of the Village – No Updates**
  - b. **Mamaroneck Reservoir & Dam – no updates**
    - i. **Feasibility Study expected completion Feb 2023 – will need funding – State, County?**
  - c. **Stream Gauges – FMAC sent ‘Guidelines Letter to Village Mgr. and cc BoT – no updates**
- 12. **Emergency Preparedness – Fiscally, Environmentally & Culturally Responsibly!**
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- 15. **Temp Pumps for Columbus Park -TG believes pumps could reduce floodwaters 5-6 feet over 50 acres in 24 hours**
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- 16. **Communication & Cooperation with Municipalities in our Watersheds – needed and has begun**
- 17. **The Holistic Watershed Plan (HWP) - Parallel Paths to a Drier Mamaroneck**
  - a. **Overview – MANY PROJECTS – need updates TG monthly if possible**
- 18. **Other**

#### **New Business**

- 19. **Emails to FMAC from the Community – How does FMAC respond?**
  - a. **TG – emails can be very time consuming – receives 1 email with 30+cc’s**
  - b. **Discussion – TG to respond, TY, please attend our meeting and there will be some time at the end of FMAC meetings for a 3-minute question per resident**
- 20. **Add these items to the Watershed Plan: Waverly Ave Br., Crushed Culvert under Ralph Ave; Dredging; Aquifers; Plan for Communications**



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## Agenda

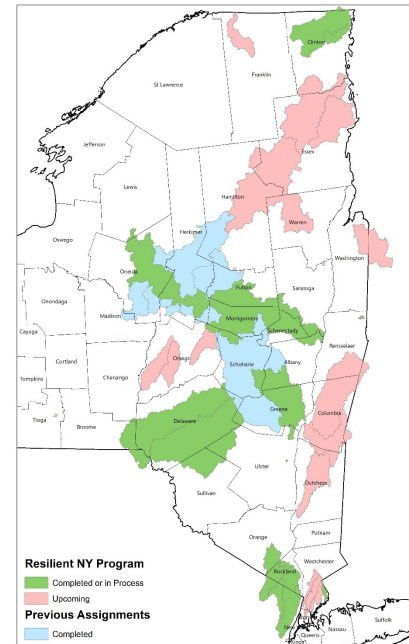
- Background & Overview
  - Resilient NY Program
  - Project implementation example
- Mamaroneck River Flood Study
  - Focus watercourses & watershed
  - Flood history
  - Project phases
- Village of Mamaroneck engagement/data gathering



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## Resilient NY Program

- Initiative of NYSDEC, contracted through OGS
- Conduct flood studies and develop flood and ice-jam hazard mitigation alternatives that help guide implementation of mitigation projects
- Statewide focus on 48 floodprone streams and rivers in 29 counties
- Make New York State more resilient to future flooding and climate change
- SLR focusing on eastern portion of state
- Full list of focus watersheds and completed studies at: <https://www.dec.ny.gov/lands/121102.html>



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## Example of Project Implementation

Steele Creek, Village of Ilion, Herkimer County

- Residential property buyouts
- Road removals
- Dam removal
- Widening and lowering of channel bed
- Channel restoration
- Floodplain creation
- Bridge replacement



**Top Right:** Remington Arms Dam, Ilion, NY, before construction, 2019  
**Bottom Right:** Remington Arms Dam, Ilion, NY, during construction, 2020

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## Example of Project Implementation

Steele Creek, Village of Ilion, Herkimer County

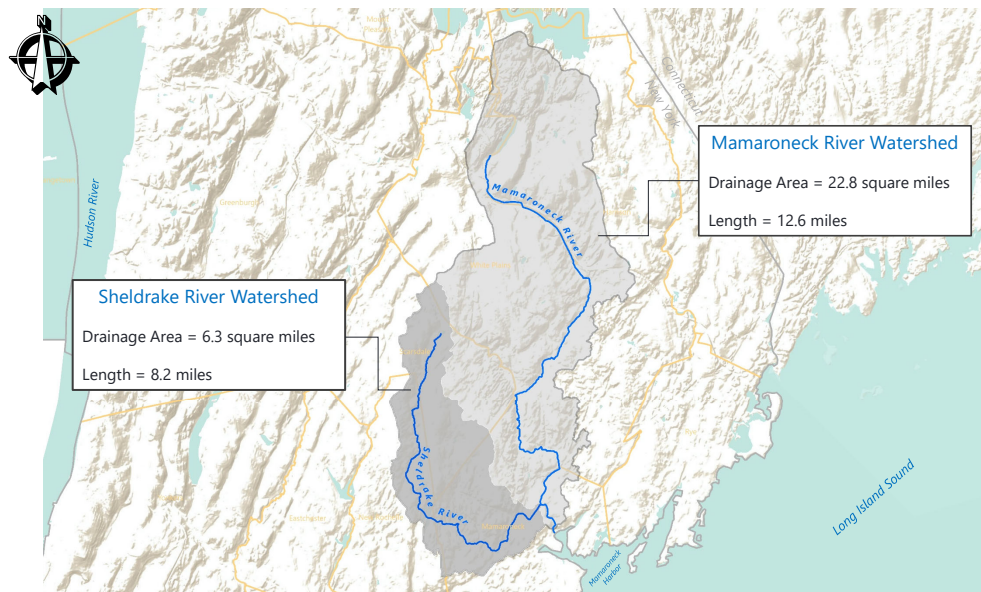
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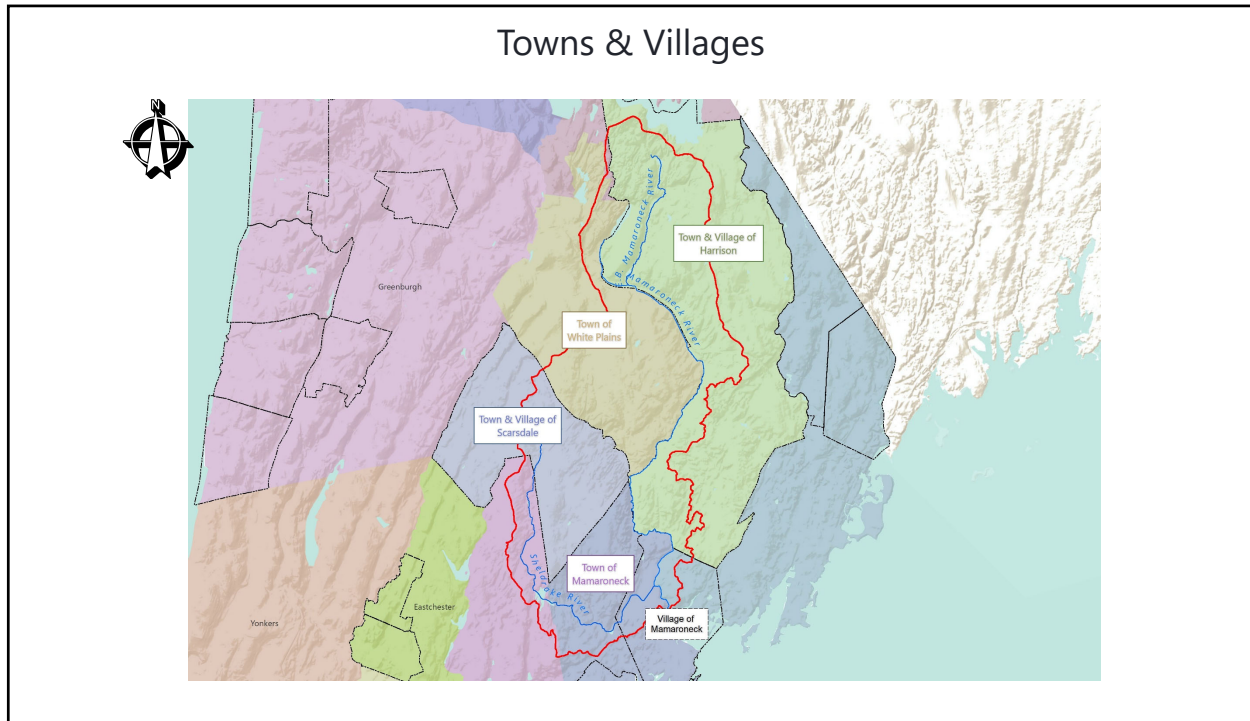
**Top Right:** Steele Creek, Ilion, NY, during construction, 2020  
**Bottom Right:** Steele Creek, Ilion, NY, after construction, 2021

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## Focus Watershed



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Flood History		
Date	Event Type	NOTES
September 1975	Hurricane Eloise	Hurricane Eloise caused extensive flooding within the Mamaroneck River watershed. It dropped 10.84 inches of rain over the Village of Mamaroneck from September 19 <sup>th</sup> to September 27 <sup>th</sup> and was considered a record flood in the area. Around \$19 million in damages occurred.
December 1992	Nor'easter	This Nor'easter dropped heavy rains and caused heavy flooding in Westchester County. It caused about \$1 to \$2 million in damages. 19 people died as a result of the storm.
September 1999	Hurricane Floyd	Remnants of Hurricane Floyd caused widespread flooding in Westchester County and much of southern New York. Rainfall rates were from 1 to 2 inches per hour for at least 3 consecutive hours. Total damages were estimated at \$14.6 million, with \$6.6 million worth of damage in Westchester County.
April 15-16, 2007	Nor'easter	This Nor'easter dropped 8.05 inches of rain on southern Westchester County within a 24-hour period. Widespread flooding ensued, and some people considered it the "worst flooding in half a century". The Village of Mamaroneck was seriously affected.
August 2011	Tropical Storm Irene	\$296 million in damages across New York State. Over 7 inches of rainfall fell on the Village of Mamaroneck and approximately 40 percent of the village was flooded. Between 400 and 500 homes in the Village of Mamaroneck's low-lying areas and coastal and river flood zones were affected by an evacuation order. A storm surge of 3 feet occurred off the Long Island Sound.
October 2012	Hurricane Sandy	Record coastal flooding in Lower New York. Hurricane Sandy produced high tides in the coastal areas. Around 60 percent of the community is without power, and seventy roads are closed due to downed trees and wires.
September 2021	Hurricane Ida	Significant flooding occurred in the Village of Mamaroneck and many residents were evacuated. An average of 6 inches of rain fell in Westchester County. Some neighborhoods reported as much as 14 feet of water. 3 people died as a result of this storm.

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### Flood History: Sheldrake River in Mamaroneck



Fenimore Road & Waverly Ave during Hurricane Irene 08-28-2011

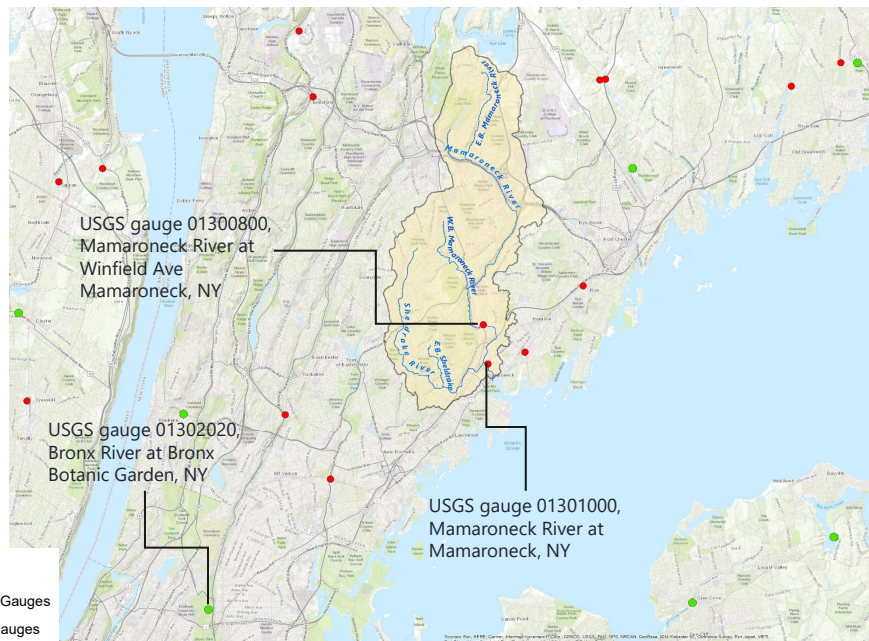


Fenimore Road & Waverly Ave on 10-13-2022

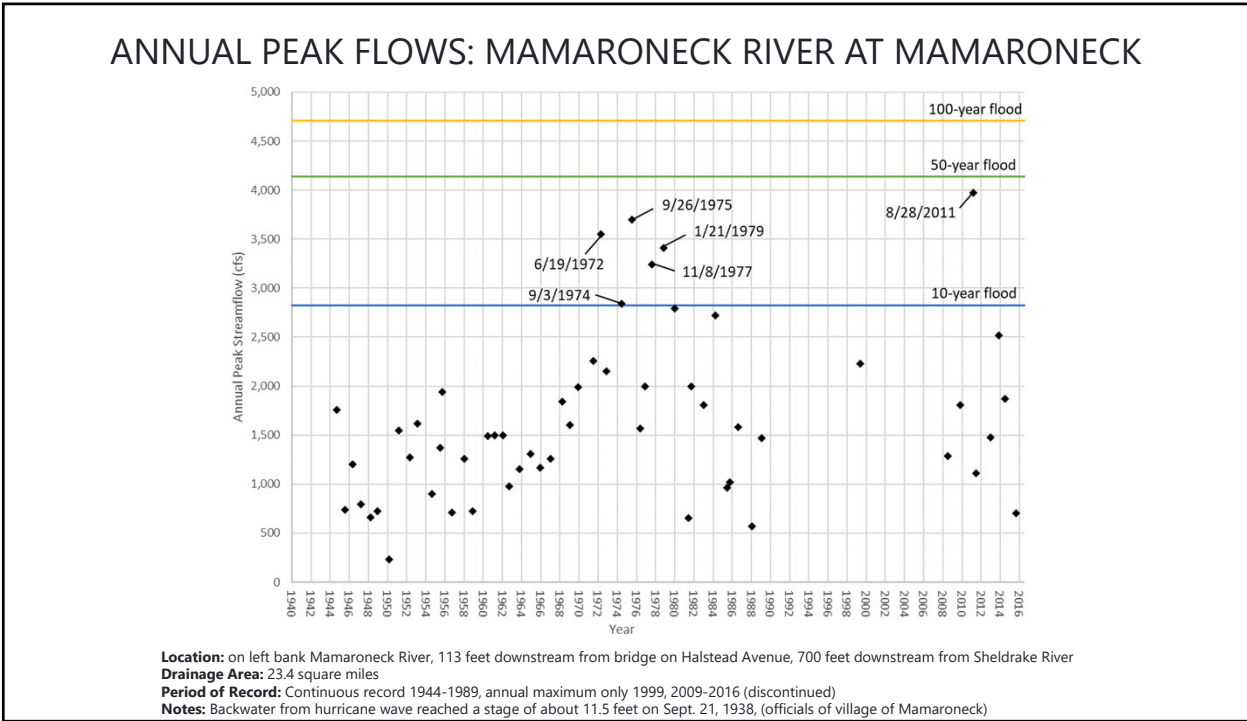


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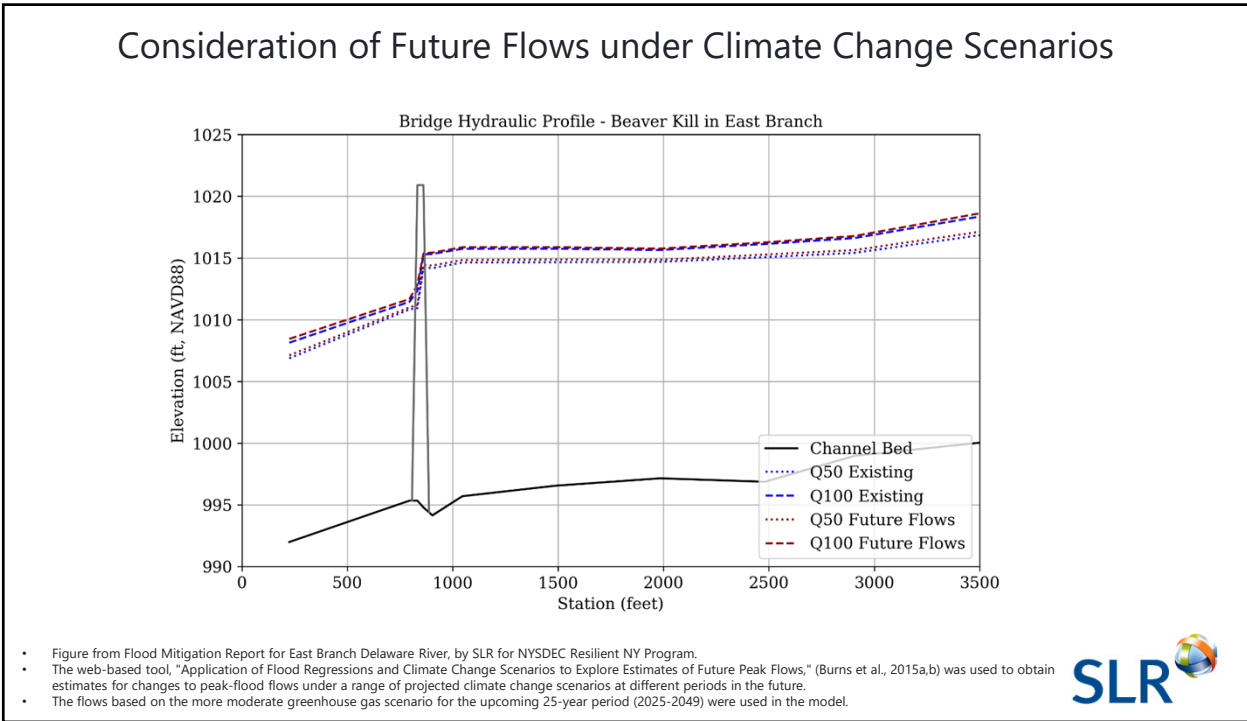
### USGS Gauge Locations



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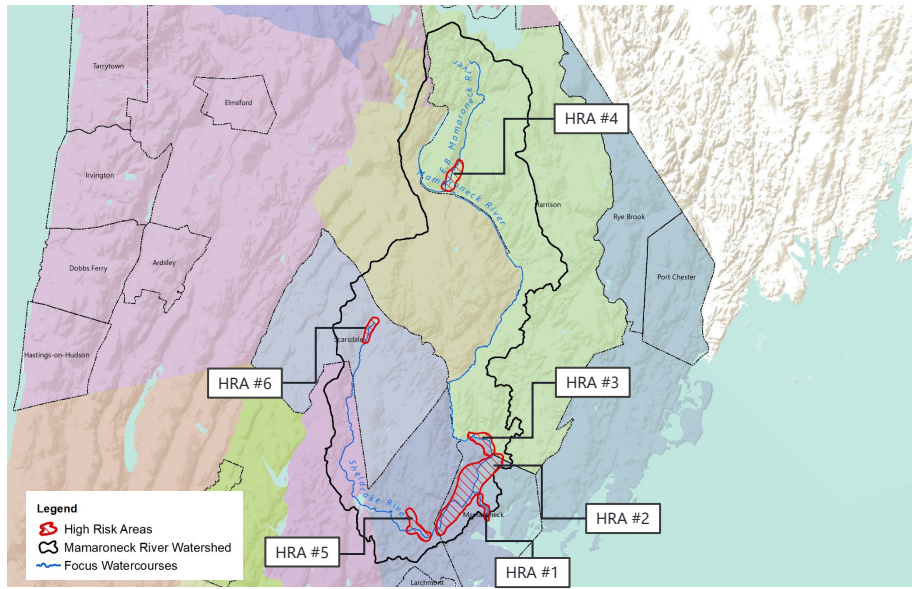


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### Mamaroneck River Watershed: High Risk Areas



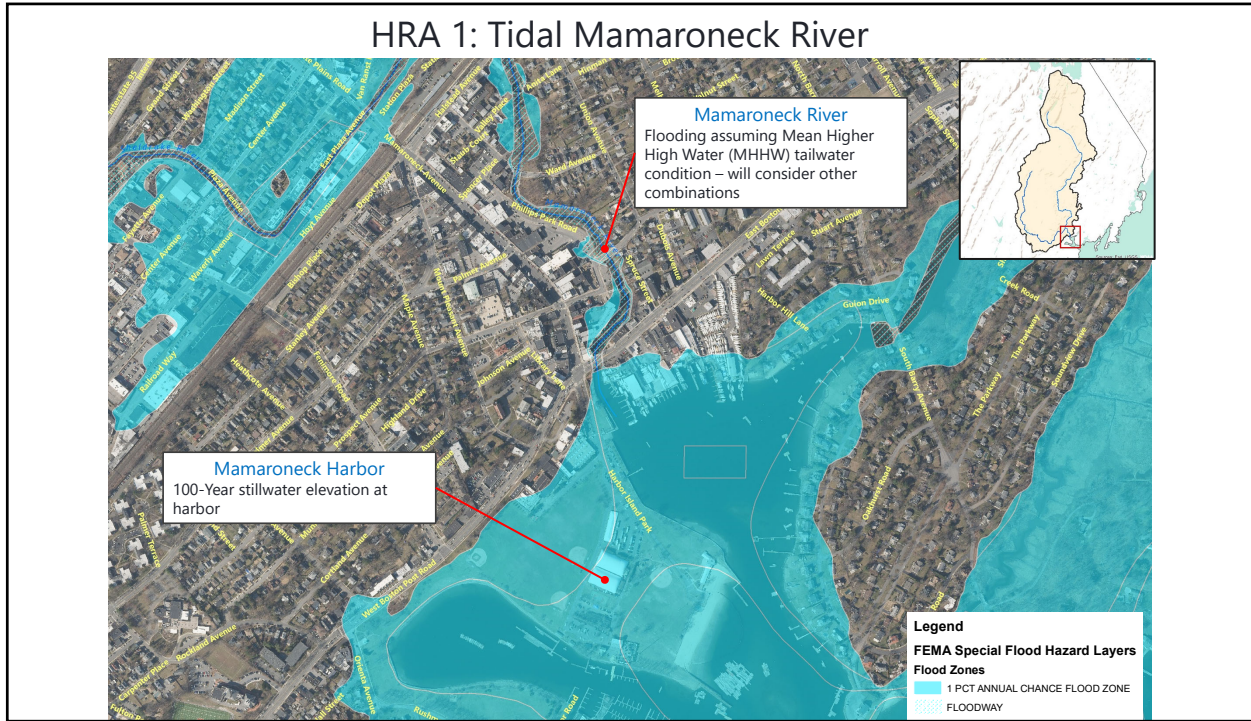
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### HRA 1: Tidal Mamaroneck River



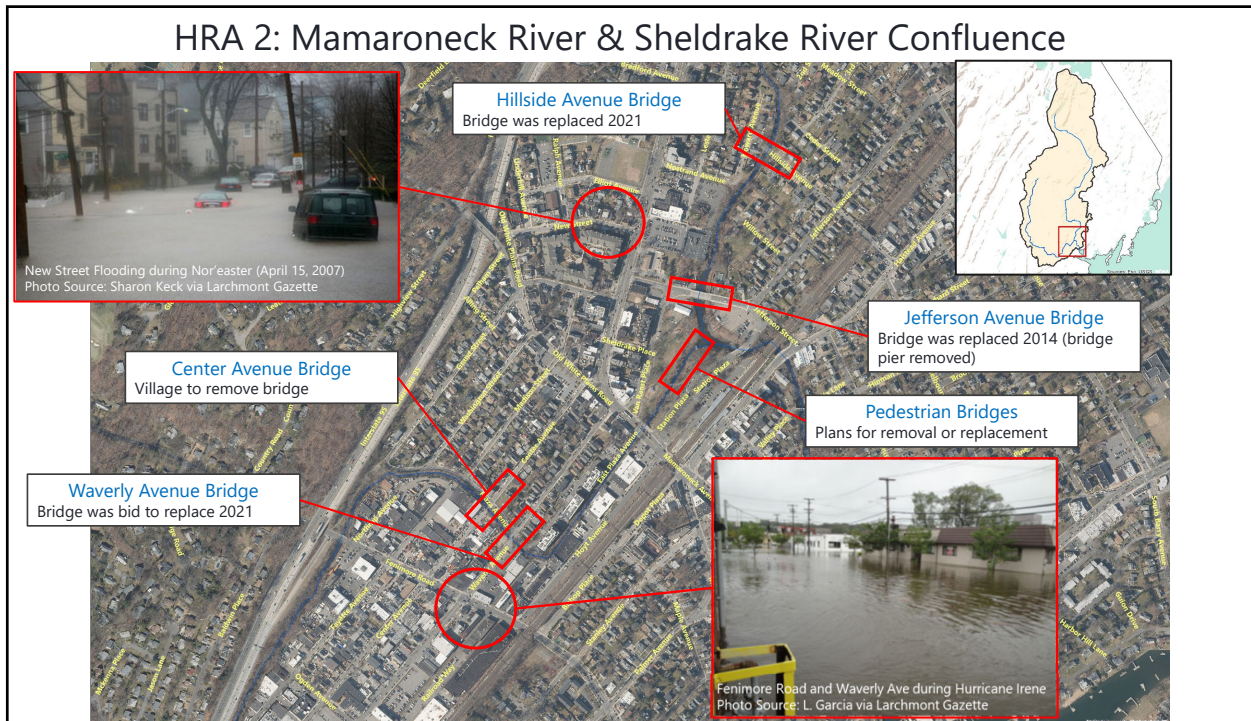
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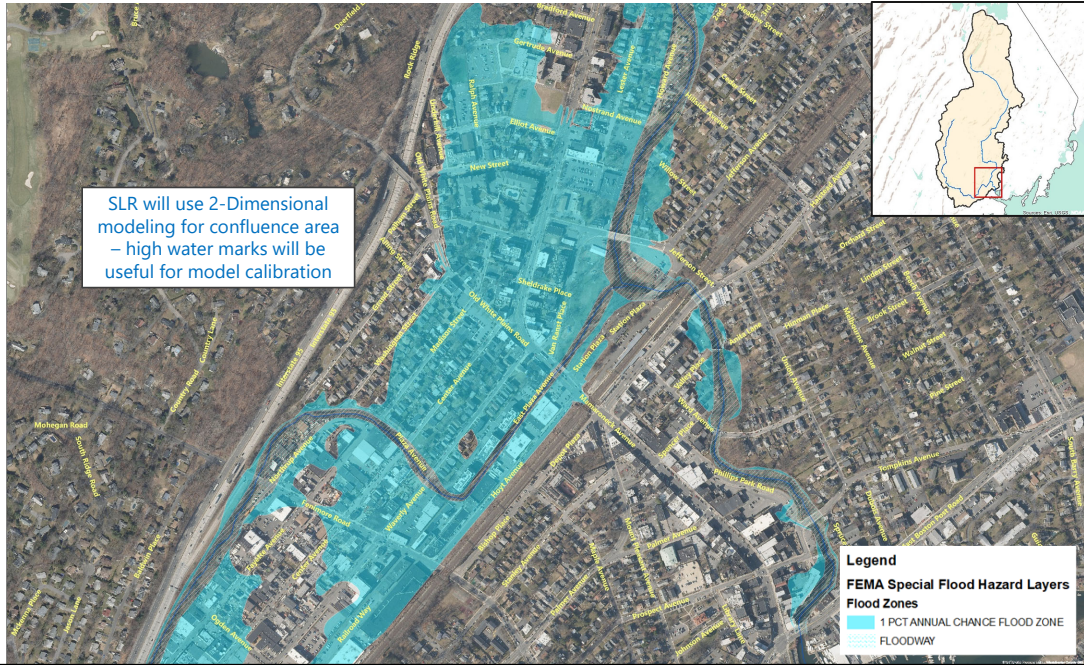
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### HRA 2: Mamaroneck River & Sheldrake River Confluence



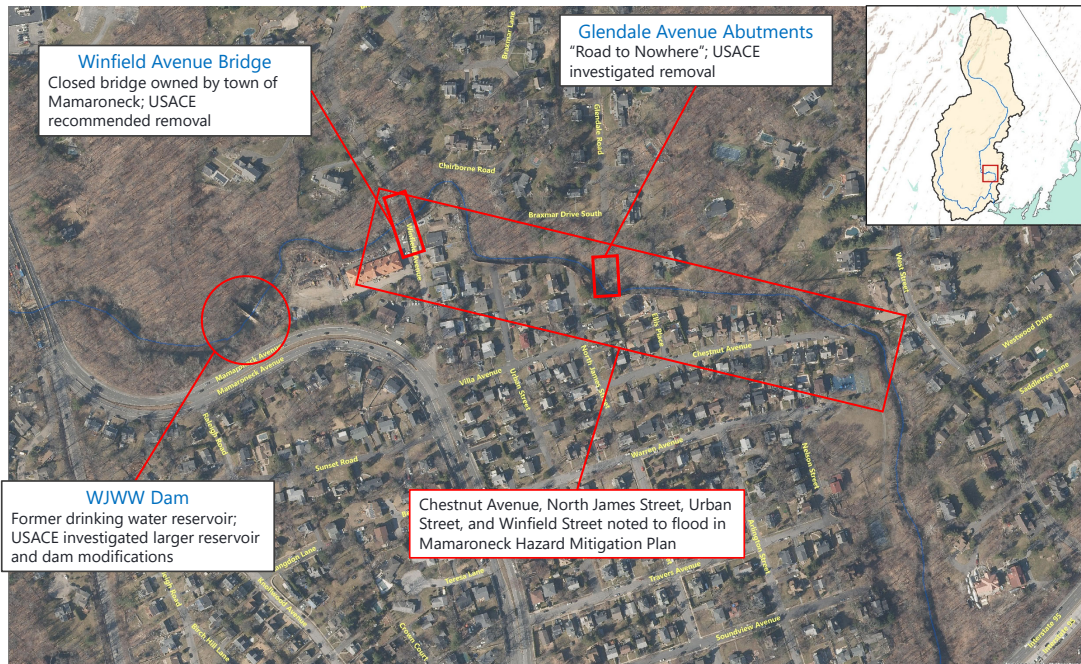
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### HRA 2: Mamaroneck River & Sheldrake River Confluence

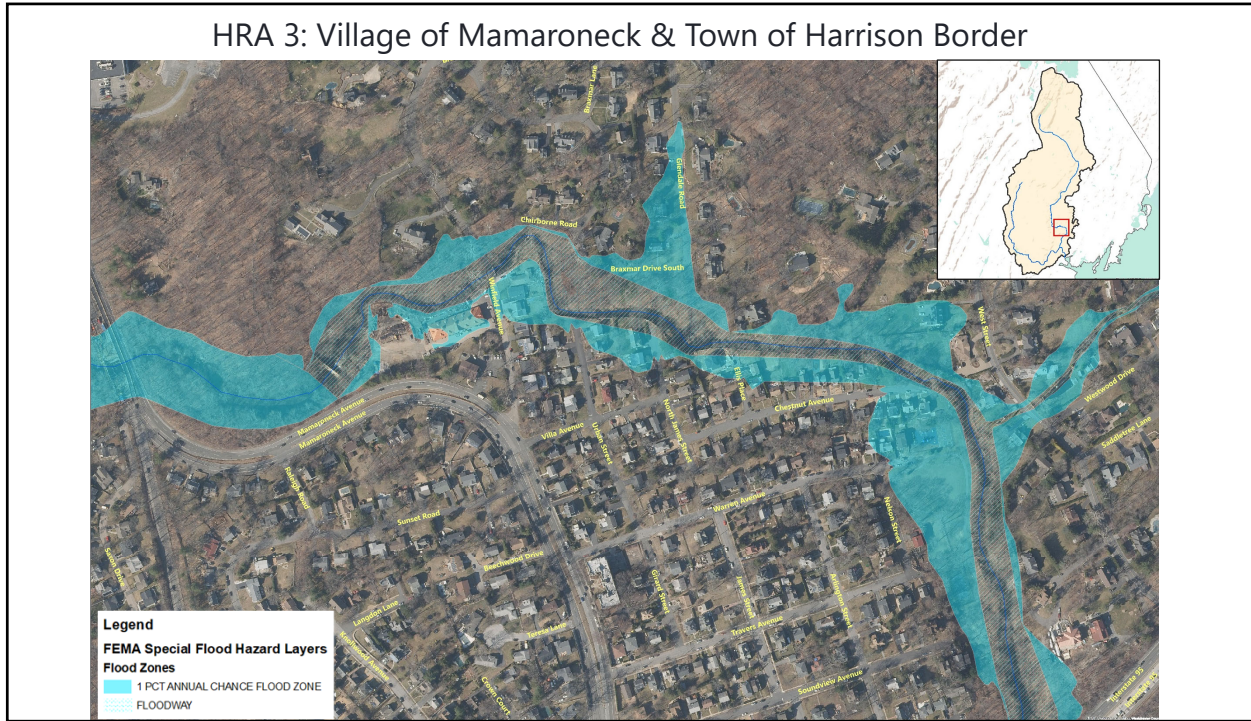


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### HRA 3: Village of Mamaroneck & Town of Harrison Border



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## Approach


Data Collection

- Input from experts and witnesses
- Input from watershed groups
- Existing reports, studies, publications
- Existing hydraulic models


Identification of High-Hazard Areas



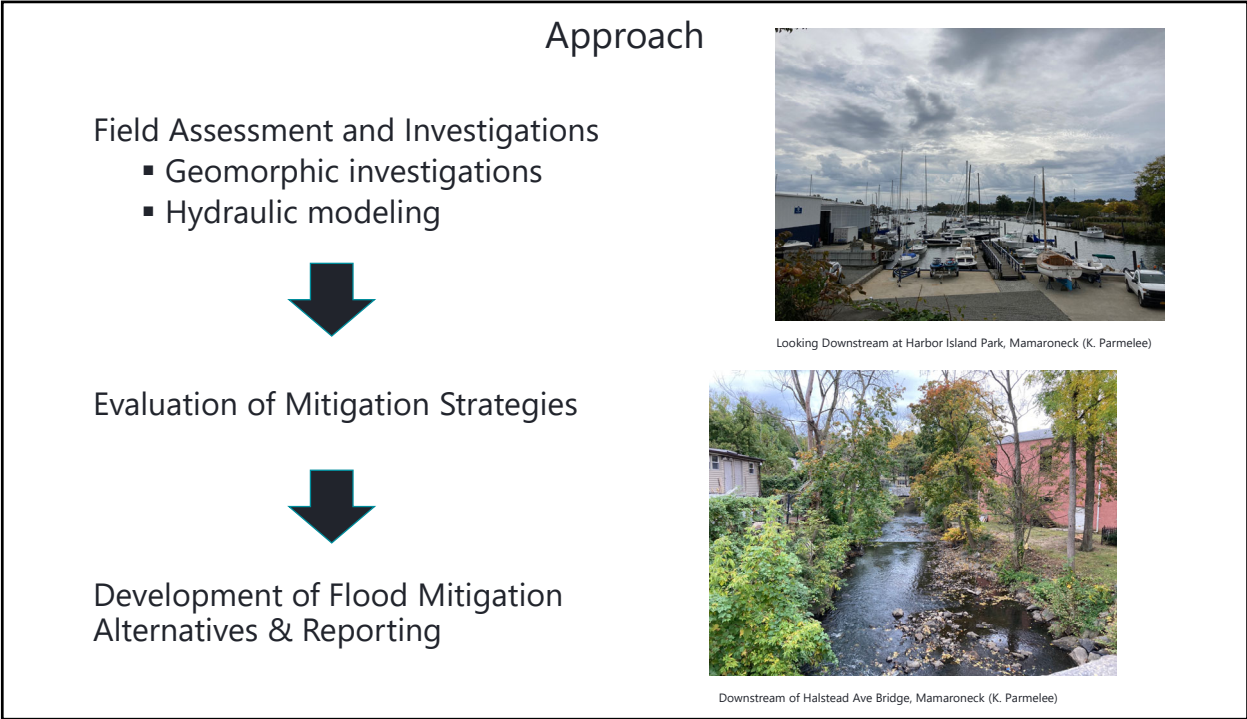
Meeting with City representatives  
Utica, NY (M. Castellanos)

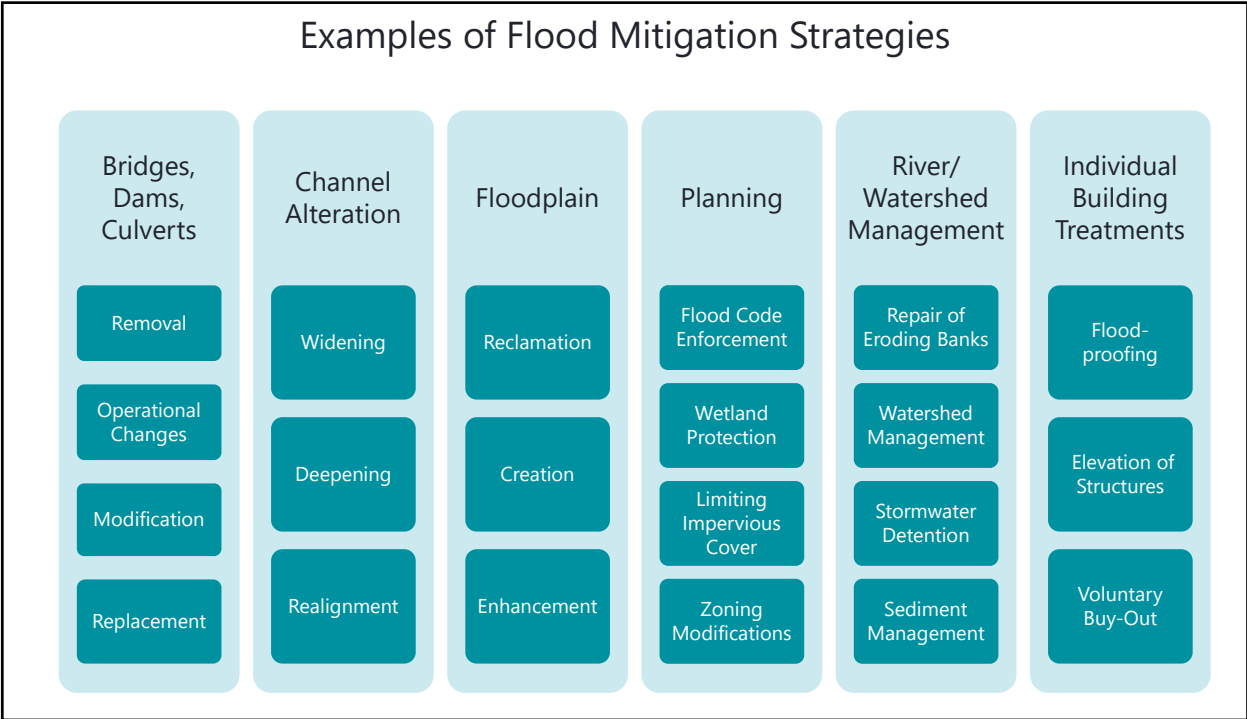
Gathering input from witnesses of flooding  
Hunter, NY (M. Castellanos)



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## Data Gathering

- Reports and Studies:
  - FEMA Flood Insurance Study (2007)
  - FEMA Flood Insurance Rate Maps
  - Flood Risk Management Report (USACOE, 2017)
  - V of Mamaroneck Multi-Hazard Mitigation Plan (2012)
- Contacts:
  - Harbor & Coastal Zone Management Commission
  - Public Works/Highway Departments
  - Emergency Responders
  - Other key contacts with firsthand knowledge of flooding
- Observations:
  - Areas of flooding/flow paths/flooding depths
  - Bridges/culverts that overtopped or became clogged with ice or debris
  - Locations of critical facilities and anchor businesses
  - Photographs and Videos (drone)



Mamaroneck River upstream of Tompkins Ave (K. Parmelee)



Mamaroneck River upstream of Jefferson Ave Bridge (K. Parmelee)

Data Sharing by Email or Upload Link

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