

1. **Welcome to the Sept, 2023 FMAC Meeting**
2. **Meetings Info**
 - a. 4th Tuesday of the month, generally, 7 PM, Courthouse with Zoom for the Public
 - i. Members who cannot attend in person may Zoom in but cannot vote unless they follow location protocol
3. **Updates**
 - a. **Updates on *The Holistic Watershed Plan – ‘Parallel Paths’ for Stormwater Mitigation***
 - i. Silt Removal – in progress
 - ii. USACE Project and Next Meeting – tba
 - iii. Mam Dam & Reservoir Study – requested study from VoM BoT – see below
 - iv. SLR Studies
 1. waiting for Final Report to be released by DEC and VoM on the Mam/Sheldrake Study
 2. Beaver Swamp Brook will be studied by SLR
 - v. Comprehensive Plan - updates?
 - vi. I 95 Stormwater Flows – NYTA
 1. VM to draft letter to NYTA requesting status and timeframe of
 - a. Dirt Pile, Construction Vehicles storage
 - b. Info on detention/retention of SW for I 95 in the VoM
 2. VM/BoT to send Letter to NYTA for possible further study of detention/retention at the Clover Leaf sites
 - vii. US1 Boston Post Rd Bridge; Waverly Ave Br
 - viii. The Resident Assistance Initiative – Updates?
 - ix. Mam Ave School -?
 - x. Communication & Cooperation with Municipalities in our Watersheds?
 - b. **Emergency Preparedness**
 1. **CERTS** – Certified Emergency Response Team – VM looking into starting a VoM CERTs Team
 - a. **Sandbag Info - TG** - did some research – several Towns with programs, including NYC:
 - i. **FLOOD FIGHTING TECHNIQUES** - US Army Corps of Engineers, Little Rock District <https://www.swl.usace.army.mil/Portals/50/Flood%20Fighting%20Booklet.pdf>
 - ii. ‘**Sandbagging** is one of the most versatile of **flood** fighting tools and is a simple, effective way to prevent or reduce **flood** water damage.’
 - iii. **Washington State - Available to all King County Residents - Sandbag Distribution Locations:** <https://kingcounty.gov/services/environment/water-and-land/flooding/sandbag-distribution.aspx>
 - iv. ‘**NYC Department of Environmental Protection - giveaway event at a WW Plant in NYC** “I was begging these guys for as many as possible,” Swepson said. “With this, I’m not sure how it’s gonna work, but it’s better than nothing.”
 - v. <https://www.thecity.nyc/environment/2022/8/31/23331667/ida-flood-victims-storm-season-sandbags-sewers> -
 - c. **Other?**
4. **Neighborhood Gatherings**
 - a. **Kickoff in Beaver Brook Area – Led by Steven Glener – Updates**
 - i. Study of Beaver Brook requested
 - ii. Accurate Summary of wall ownership needed
5. **FMAC Resolutions – Draft - Updates Needed**
 - a) **The VoM FMAC supports the appropriate dredging of our Rivers and Columbus Park asap** to improve flows and reduce flooding. The FMAC asks that any and all Agencies involved with permitting, expedite the process so that appropriate dredging can occur, and our community members can 'sleep a little better' when it rains.'
 - b) **April 2023 - Mitigating Recent Flooding Along the Sheldrake:**
 - a. Discuss with the ACE the immediate removal of the Center St. Footbridge
 - b. Add barriers at the 90 degree turn before the Mason to prevent water flowing through Marvil Mystery Oil and onto Fenimore and into the Industrial Area
 - c. remove the 'dog run' in the floodway adjacent to the Mason
 - d. Clean out the Sheldrake channel from Fenimore Rd to Mam Ave Br - trees growing in the floodway and on the banks, debris from recent storms in the river; silt removal as soon as permits are obtained
 - e. Review and enforce storage and floatables along the banks of the Sheldrake
 - f. Flood gauge system or alternate camera system asap
 - c) **May 2023 - Stormwater (SW) Regulations and Codes** - develop an action and implementation plan asap, to help control stormwater and reduce flooding throughout the VoM by
 - a. **Tightening** the Stormwater Codes and Regulations

- b. **Enhance code enforcement** from the permitting process through construction and occupancy to ensure that existing and new codes are fully enforced and existing floatables, property and debris of all types are either secured, enclosed by a fence or removed in its entirety.
 - c. **Review and amend the very recent code changes to the C1 and C2 districts** to comply to the existing and proposed SW Regs in both flood zones (i.e. Zones AE, A1-A30, AH, AO, VE, V1-V30) and non-flood designated zones.
 - d) **Development of a SW Detention/Retention Program** to incentivize Property Owners to increase detention/retention on their properties
 - e) **The Highway Stormwater Mitigation Initiative - I 95 & Hutchinson River Parkway** In the interest of reducing flooding in Mamaroneck and protecting our residents and businesses, we FMAC, strongly ask that the BoT **resolve** to mitigate this stormwater runoff
 - f) **6/27/2023 - Study of Water Retention and Detention Possibilities** for the Mamaroneck Reservoir and Saxon Woods Park from Mamaroneck Ave north to The Hutchinson River Parkway
 - g) **6/27/2023 - Aquifer Study for Impacts on Groundwater flooding and Potential Solutions,**
 - h) **Partner with Westchester County to seek funds for an Engineering Assessment of potential detention and retention sites for stormwater throughout the Mamaroneck, Sheldrake and Beaver Swamp Watersheds**
 - a. including but not limited to the Mamaroneck Reservoir, Saxon Woods Park, Silver lake and any and all areas where stormwater could be detained/retained
 - b. In discussions with SLR, SLR did not study retention/detention and do not have this in the scope of the Watershed study they are completing.
- 6. **New Business**
 - a. SLR Final Report – when will it become Public?
 - i. Discussion Points Needed
 - 1. Compare recommendations with USACE Report – How do we resolve
 - 2. Study of Beaver Swamp Brook?
 - b. Mam Dam Presentation to the BoT
 - c. SW Code Tightening Updates
 - d. Moratorium in Washingtonville – discussion
 - e. Mamaroneck Greenway Project – idea of Kate Dehais
 - f. Other
- 7. **Review of the USACE Report & Recommendations – TG – from LIS to North of Columbus Park including the Confluence**
 - a. **Overview of - PPA, Scope and Schedule, Design, Property Easements needed – temporary, permanent, other**
 - i. **Reach ‘A’ – LIS to Tompkins Br**
 - 1. Design
 - 2. Channel Work – Widen, Deepen?
 - 3. Property Acquisitions?
 - 4. Other
 - ii. **Reach ‘B’ – Tompkins Br to Halstead Br**
 - 1. Bridges
 - a. Tompkins Br. – closed to vehicular Traffic
 - b. Ward Ave Br. – plans being developed for demolition
 - c. Anita Lane Br -?
 - 2. Channel Work – Widening and Deep
 - 3. Design
 - 4. Property Acquisitions?
 - 5. Other
 - iii. **Halstead Ave Br., RR Ave Br, Columbus Park and the Confluence**
 - 1. **Tweaks Requested**
 - a. Open channel across the parking lot
 - b. Flows and methods to improve
 - c. Bridges – RR and Halstead
 - 2. Design
 - 3. Channel Work – Widen, Deepen?
 - 4. Property Acquisitions?
 - 5. Other
 - 6.
 - b. **Other**
- 8. **Other?**

VoM FMAC – Minutes – 6/27/2023 - Draft

1. **Present – Gelber, Spatz, Finch, Glener, Rubin, Camad, Triffiletti, Tustee Yizar-Reid, Sarnoff by Zoom**
2. **Meeting Minutes Approved – March & April 2023**
3. **Discussion re the July FMAC Meeting – Motion passed – ‘no July 2023 FMAC Meeting’**
4. **Updates**
 - a. **To Do’s from the May 2023 Meeting**
 - i. Resolution 1 to Mayor & BoT – May 2023 -1 - FMAC Resolution - Stormwater (SW) Regulations and Codes - see below - sent
 - ii. Resolution 2 to Mayor & BoT – May 2023 -2 FMAC Resolution - Mitigating Recent Flooding Along the Sheldrake - sent
 - b. **Updates on *The Holistic Watershed Plan – ‘Parallel Paths’ for Stormwater Mitigation***
 - i. Silt Removal – larger items being removed; VoM pursuing permits
 - ii. USACE Project and Next Meeting – no updates
 - iii. Mam Dam & Reservoir Study – SLR Report not Released – further discussion and Resolution below
 - iv. SLR Study – Updates and when will report be public? – Asked Ass’t Village Mgr. to try and find out
 - v. Comprehensive Plan – FMAC to review current Plan, on VoM website
 - vi. I 95 Stormwater Flows – Updates – Next Mtg – NYSTA waiting for SLR Report
 - vii. US1 Boston Post Rd Bridge – no updates
 - viii. Waverly Ave Br – Construction start delayed until July 17 2023
 - ix. The Resident Assistance Initiative – Updates Glener, Yizar-Reid - none
 - x. EV Stations at Jefferson Parking Lot – no updates
 - xi. Communication & Cooperation with Municipalities in our Watersheds – Yizar-Reid reaching out to the Harrison Flood Committee
 - xii. Other – SW Surface Flows in Washingtonville and the West Village – need further info at next meeting
5. **New Business**
 - a. Monthly or every other month FMAC meet and greets, the procedure we need to follow and where the first one should be (Stoneybrook Ave is under-discussed) – no info
 - b. Recommend to the BOT to study:
 - i. Retention/detention at Mamaroneck Reservoir and the Saxon Woods Lake/Park
 - ii. The aquifer and solutions
 - c. 2 Motions made and passed unanimously – see full resolutions at end of Minutes
 - i. **Resolution 1 - 6/27/2023 - Study of Water Retention and Detention Possibilities for the Mamaroneck Reservoir and Saxon Woods Park from Mamaroneck Ave north to The Hutchinson River Parkway**, see full Resolution below
 - ii. **Resolution 2 - 6/27/2023 - Aquifer Study for Impacts on Groundwater flooding & inflows to Rivers and Potential Solutions**, see full Resolution below.

Previous Business - Updates

6. **Flood Plain Regulations – discussion;**
 - a. How do we best proceed on this subject?
 - b. Discussion - Member letter on VanRanst
 - c. Simple Actions to take
 - i. E.g. – no variances in the flood plain
 - ii. other
7. **Applications Review – Updates & Process**
 - a. Process Review – what is it? Are we following it, how can we do better?
 - b. Status of Various Applications
8. **Project List – Update on Revision – Patti T**
9. **Emergency Preparedness – Tony G spoke with Jim Killoran of The Fuller Center re Sandbag Program for VoM**
 - a. Jim has volunteers who could help us distribute
 - b. Next Steps
 - c. Actions in conjunction with small flooding April/May 2023 – what can we do?
10. **Other**
11. **Questions from the Audience**
 - d. Allowed if Agenda has been completed
 - e. limited to 3 minutes per person on Flood topics – will discuss at next FMAC Meeting

Appendices

1.

FMAC Resolution 1 - 6/27/2023

Study of Water Retention and Detention Possibilities for the Mamaroneck Reservoir and Saxon Woods Park from Mamaroneck Ave north to The Hutchinson River Parkway

Dear Mayor & BoT,

The FMAC has heard from residents that the Mamaroneck Reservoir was a larger body of water than exists today and was used as a recreation area by residents. It appears that over the last 50 years silt and vegetation have reduced the size of the reservoir and the capacity to retain and detain water.

FMAC believes that to help reduce flooding in the VoM and in concert with our 'Holistic Watershed Approach', 'Parallel Paths' we would like to review the possibility of restoring the Mamaroneck Reservoir and to review the Saxon Woods Lake and Park, from Mamaroneck Ave to the Hutch for the ability to retain/detain water and to be expanded to increase holding capacity to the maximum.

Resolution

FMAC asks that the Mayor and BoT hire an expert on Stormwater Retention/detention to study the Mamaroneck Reservoir and the Saxon Woods lake and Park as follows:

- study the Mamaroneck Reservoir to increase retention/detention as it was historically and possibly to maximize storage and review opportunities for recreation
- study Saxon Woods Lake and Park, Mamaroneck Ave to the Hutchinson Parkway for their ability to retain/detain water and maximize holding capacities.

FMAC Resolution 2 - 6/27/2023

Aquifer Study for Impacts on Groundwater flooding and Potential Solutions

Dear Mayor & BoT

The FMAC understands that an aquifer lies under a portion of Mamaroneck.

FMAC has been questioned in the past about the impacts the aquifer has on groundwater flooding and on inflow to our rivers, particularly during storm events. FMAC has also been questioned on the possibility of actions to prevent aquifer contributions to flooding.

FMAC believes that to help reduce flooding in the VoM and in concert with our 'Holistic Watershed Approach', 'Parallel Paths', we would like to review the Aquifer as described in the Resolution.

Resolution


FMAC asks that the Mayor and BoT hire an expert on Aquifers and their impacts on flooding to review and recommend:

- A study of the Aquifer for location, size, capacity, including a brief historical overview in relation to Aquifer use in the past
- Effects the Aquifer has on groundwater flooding and the contribution to river flows, particularly during storm events
- Identify possible solution to reduce the aquifer's contributions to flooding such as:
 - drawing down the aquifer, in general and or in flood times
 - Storing stormwater in the Aquifer
 - **other?**

3.

The Holistic Watershed, Parallel Paths Approach to Flood Mitigation – Planning & Project List - Draft

	The Mamaroneck Holistic Watershed Flood Control Plan - Draft Outline - for Discussion Only - Updated	
TG est	<i>Industry Std Projects Steps - Feasibility Study & Review; Schematic Design & Rev; Design Dev & Rev; Const Doc; Bidding & Award; Construction; 24 months minimum Commissioning</i>	

TG est	Permitting & Funding should be a parallel path - Local Land Use Committees Review & Approvals, DEC & ACE review & permits; Local building permits		
		Projects	Updates Needed
	1	USACE Project - PPA	Needed asap
2		USACE Project Tweaks – for Review with ACE & VoM	
	a	Columbus Park Tunnel to Open Grassy Channel	 <p>Open Diversion Culvert & Porous, Floodplain Parking</p> <p>The open culvert has same the carrying capacity as the underground culvert, but grass, under concrete, allows for permeability of the channel area. Open culverts will be easier and safer to maintain, especially in heavy flood conditions.</p> <p>Lowering of parking and park area by 3½ ft. (~100,000 sq. ft. per 5000 GCS imp. 4-2-5FT) and replacement of asphalt with porous pavers and vegetation allows for the holding of an additional 350,000 cubic ft. 2.6 mm gallons of floodwater which will recharge groundwater and avoiding neighboring homes.</p> <p>Lowering and reconfiguration of parking allows for revitalization of interflow parkland and neighborhood access.</p>
	b	Columbus Park Flows Through Bridges	
	c	Harbor Heights – Review of Proposed Solutions re Ida SW Flows	
	d	Funding Reallocations	
3		Studies	
	a	Mam Dam	FMAC recommends new, larger
	b	Mam, Sheldrake Beaver - Watershed Study - SLR	Being reviewed by NY DEC
	c	Surface Flows in the West Village	
		Codes for better SW Mgmt.	Requested
	d	High-way Runoff from I 95 and the Hutch R	Discussion with NYTA
		Aquifer and Impact on Flooding	
	3	Silt Removal	Large Items - In Progress
	7	Emer Preparedness	TG spoke with Jim Killoran re Sandbags
7		Evaluate Innovative Options	
		Temp pumps at the Confluence	
		Innovative flood barriers	
		Modern Floodgates & Controls	
		Roads as temp bypasses	
		Highway Stormwater Mgmt. - The Mountain	
		other	
9			

		Determine Vision, Options and Costs	
10		Harbor Heights & Hydraulic & Hydrology Study	VoM FMAC has asked USACE to include in the Village H&H, Hydrology & hydraulic study - TG
		Rd to Nowhere & Glendale Rd	Asked ACE to include
		Development in Harrison	
		Other	
11		Crushed Culvert Under Ralph Ave	?
12		Florence Park Storm & Sanitary Sewer Problems	?
13		Beaver Swam Brook Flooding	to be included in DEC Watershed Study - TG
14		Sound Shore Flooding	
15		Bridge Replacements	
		Waverly Ave.	being completed by the ToM
		Walk Bridges	USACE
		Ward Ave	USACE
		Thompkins	VoM rec'd rebuild Grant
		Short St Br/Culvert	
		other	
16		Better Dry Housing Initiatives	
17		Other	
1		Stormwater Drainage Pipes Study, in Flood Areas	
8		– size, location, condition	
19		I 95 Mountain of Dirt - Options	
20		Enforcement of 'Floatables Law' -Storage Containers, etc.	

1. Present: Spatz, Glener, Rubin, Triffiletti, Camarda, Finch, Yizar Reid, Gelber

2. Updates

a. Updates on *The Holistic Watershed Plan – ‘Parallel Paths’ for Stormwater Mitigation*

- i. Silt Removal – in progress at various points in the Sheldrake & Mamaroneck Rivers
- ii. USACE Project: Updates needed – PPA; discussion on requested ‘Tweaks’, Next Mtg with ACE, VM, FMAC Trustee & Chair – tba
- iii. Mam Dam & Reservoir Study requested – FMAC Resolution – unanimous – FMAC asks BoT to partner with Westchester County to obtain funding to study retention and detention at the Mam Reservoir and Saxon Woods Park study from VoM BoT – updates?

iv. SLR Study – Mama/Sheldrake Watershed – Initial Draft Report - not a Public Document

1. – some questions for the future
2. How will the findings of the SLR Report line up with the ACE Report
3. If they do not agree how do we resolve the differences
4. Did the SLR study – Beaver Swamp Brook
5. Detention/retention in the Watershed
6. Will the upstream flows when improved increase flows in the VoM
7. Did SLR assess the Highway runoff problems
8. How are future flow increases dealt with i.e., changes from Climate Change
- v. Comprehensive Plan – updated Plan to be released shortly
- vi. I 95 Stormwater Flows – Next Steps?
 1. When the SLR Report is final and released it will be sent to NYTA
 2. NYTA to read and then have a meeting
- vii. US1 Boston Post Rd Bridge – in progress
- viii. Waverly Ave Br – construction to be started mid-Sept; traffic patterns to change;
 1. ? can VoM inform the residents of proposed changes to traffic flows?
- ix. The Resident Assistance Initiative – No Updates
- x. Mam Ave School – Bernie Camarda sent letter to NYS Ed Dept requesting assistance with better SW detention/retention in Mamaroneck
- xi. EV Stations at Jefferson Parking Lot – no discussion
- xii. Communication & Cooperation with Municipalities in our Watersheds – possible subcommittee?

xiii. Emergency Preparedness

1. **CERTS** –VM Barberio announced that he will be trying to start a CERTs Team in the VoM. During IDA many people wanted to help but there was no process to make it happen
 - a. **CERTs Certified Emergency Response Team is a FEMA program.** VM will send out info requesting volunteers who will be trained
2. **Sandbags** – no discussion
3. **Neighborhood; ‘Meet & Greets’** - Glener suggested a series of informal ‘Meet & Greets’ to help FMAC get to know the Community and their problems
 - a. Glener to follow up with some dates and places; perhaps Beaver Swamp Brook as the 1st ‘Meet & Greet’
4. Resident Guest from Beaver Swamp brought up some concerns:
 - a. Will SLR be studying Beaver Swamp Brook Watershed?
 - b. Why were Projects in this area removed from the Capital Plan
 - c. Brook walls in poor condition
 - i. Who owns the walls?
 - ii. If wall is falling should be fixed; are permits needed what permits; who can repair
 - d. Can silt removal happen in Beaver Brook – depend on whether tidal or not and whether permits cover the areas

3. New Business

- a. Renaissance Funding is available if Munis work together- can VoM work to get some of these monies?
 - i. Further discussion needed
- b. Trustee Yizar-Reid – Mental Health Flier for Flood Victims being developed