



Ad Hoc Stormwater Utility and Flood Mitigation Advisory Group

November 8, 2023 Meeting

Tonight's Agenda

1. Approve previous meeting minutes (6:00 pm, 5min)
2. Project update by City staff (6:05pm, 15min)
3. Outreach update by group members (6:20pm, 15min)
4. Letter of support for FY2025 SW Fee (6:35pm, 10min)
5. Letter of support for application to Community Flood Preparedness Fund (6:45pm, 10 min)
6. Follow-on discussion of flow sensors (6:50pm, 20min)
7. Preparation for Annual Report on the FY2025 Stormwater Budget (7:10pm, 15min)
8. Proposed schedule of meetings from now until July 2024 (7:25pm, 10min)
9. Public Comment (7:35pm, 5 min)
10. Adjourn (7:40 pm)

Approval of Minutes from Last Meeting

AGENDA ITEM #1

Update on Flood Action Alexandria Program

AGENDA ITEM #2

Flood Action Progress Report: Large Capacity Projects & CSS

- Large capacity projects
 - Commonwealth/Ashby/Glebe (est. \$50M) 30% submission received on 9/21, City coordinating comments. Design development towards 60%. Continued coordination with utilities for relocation. Development of geotechnical report based on site borings underway.
 - Hooffs Run Culvert Bypass (est. \$60M) Fieldwork component of field survey along Russell Road is complete. An existing model of the culverts and overland flooding has been developed. The team is exploring potential alternatives according to multiple metrics that account for flood mitigation effectiveness, complexity, cost, and impact. The on-going community questionnaire will close Dec 8th, 2023.
- Combined sewer system (CSS) area projects
 - Pitt & Gibbon (\$20-25M) Planning Phase – Site meeting to finalize survey limits. Surveyors developed proposal based on final survey limits. Mobilization expected mid-November.
 - Nethergate (\$5M) Planning Phase – Field survey complete end of last month. After delivery of survey, design team will finalize alternative. Move to design/NPS permit process

Flood Action Progress Report:

Updates to Stormwater Program Schedule

Project Schedule Extended

- CFM Storm Sewer Improvements (Design Procurement)
- Edison St. Cul-de-Sac Drainage Improvements (Design)
- Mt. Vernon Cul-de-sac Inlets & Alley (Construction Procurement)
- F. Hammond Culvert Headwall Modifications (Construction Procurement)
- Hume Ave Stormdrain Bypass (Design)
- Lloyd's Lane (Construction Procurement)
- N. Overlook Drainage (Construction Procurement)
- W. Reed Ave. Curb Inlets & Dale Street Drainage Improvements (Design)

Project Delivery Expedited

- 100 Hume Ave SD Bypass (ARPA* Funding Secured)
- Edison St. Drainage Improvement (CFPF* Funding Secured)
- 100 W. Reed Curb Inlets (CFPF Funding Secured)
- 100 Dale Rd. Overland Relief Channel (CFPF Funding Secured)
- Mt. Vernon and Edison Dual CMP Replacement (CFPF Funding Secured)
- 00 E. Linden Ave. Alleyway Improvements
- CFM Green Alley (HUD* Funding secured)

ARPA* – American Rescue Plan Act
CFPF* – Community Flood Preparedness Fund
HUD* – Housing and Urban Development

Flood Action Progress Report: Updates to Stormwater Program Schedule

Milestones

- 100 Hume Ave Stormdrain Bypass (90% Design NTP)
- W. Reed Ave. Curb Inlets & Dale Street Drainage Improvements (90% NTP)
- Edison St. Cul-de-Sac Drainage Improvements (90% NTP)
- N. Overlook Drainage (Awarded to Sagres Construction)
- Mt. Vernon Cul-de-Sac and Alley (Construction Procurement Begins)

Start Date contingent on Hoofs Run Culvert Bypass

- 300 E. Mason Curb Inlets
- E. Monroe Ave. & Newton St. Curb Inlet
- E. Alexandria Ave. & E. Luray Ave Curb Inlets
- 500 E. Alexandria Ave. Alleyway Stormdrain Extension
- 300 E. Mason Ave. Stormdrain Extension
- 300 E. Mason Ave. & 200 E. Duncan Ave Stormdrain Connection

Maintenance Activities

- Hooffs Run Channel Maintenance completed:
 - Inlet cleaning between Linden and Rosemont Streets completed.
- Hooffs Run Culvert Inspection
 - Pre and post storm inlet inspections and cleaning
 - Coordinating inspection schedule with vendor: November– December 2023
 - Cleaning will be based on the inspection findings
 - Proposing to inspect yearly

Sanitary Sewer Asset Renewal Program: Del Ray East Rehabilitation Project

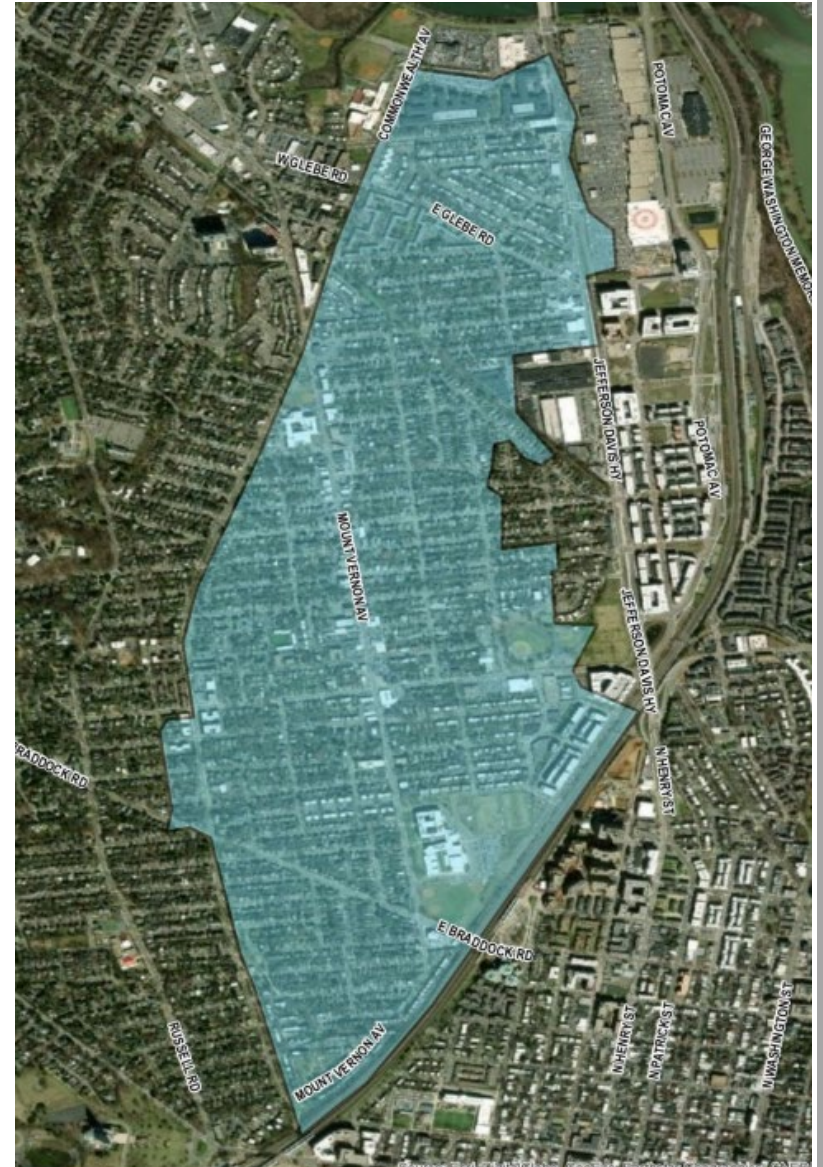


- **Summary of Work**

- 150 pipe segments to be rehabilitated using ultraviolet (UV) cured-in-place pipe (CIPP) technology
- 111 manholes to be rehabilitated

- **Contractor Notice to Proceed Issued October 16th**

- Work to generally start from south and move to the north
- Residents will be provided with 2-week and 48-hour notification if the sewer main serving their home is to be rehabilitated
- No parking signs to be posted 72 hours in advance of work



Outreach Update

AGENDA ITEM #3

Communications

- 132 total messages were received from all social media channels with 35 of them originating from Facebook, an increase of 12.9%.
- Impressions decreased by 7.7%. (46,705)
- Engagement decreased by 3.3%. (1,445)
- Post link clicks decreased by 24.4%. (133)
- Popular content included King Street projects, (Traffic and Stormwater Management related) Pedestrian Safety Month, and recycling.

Letter of support for FY2025 SW Fee

AGENDA ITEM #4

Letter of support for application to Community Flood Preparedness Fund

AGENDA ITEM #5

Letter of Support for Application to Community Flood Preparedness Fund

- State Grant Opportunity: Community Flood Preparedness Fund Round 4
 - \$85M of funds available – funding comes from RGGI proceeds
 - City has received \$5.8M to date
- Requesting funding for a new *Flood Resilience Plan*
- Grant Funds 75% + City-Match 25% = Total of \$669K
- Resilience Plan is required to continue to receive funding through this program
- City Council approved submission of application for grant via Resolution 3195 on Oct. 24, 2023
- Application is due November 12, 2023 at midnight

Elements of the new Flood Resilience Plan (FRP)

- **Outreach and Engagement**
 - Developing a *Community Engagement Plan* to include a survey instrument to reach a broad audience to help identify areas that are prone to flooding that have not yet been brought to the City's attention; a key component of developing the FRP will be continuous engagement with the Ad Hoc Advisory Group.
- **Flood Modeling**
 - Performing a 2D model of flooding City-wide using CASSCA and other inputs including the current modeling efforts in Four Mile Run and Hooffs' Run.
- **Flood Vulnerability Assessment**
 - Undertaking a desktop City-wide flood vulnerability assessment to identify vulnerable communities and critical infrastructure.
- **Review of Policies and Procedures**
 - Working with staff and the community to review current policies and procedures and how they impact new infrastructure as we experience more frequent and severe storm events.
- **Plan Development and Implementation**
 - Developing the FRP to be implemented through the Flood Action Alexandria program.

Follow-on discussion of flow sensors

AGENDA ITEM #6

Annual Report on the FY2025 Stormwater Budget

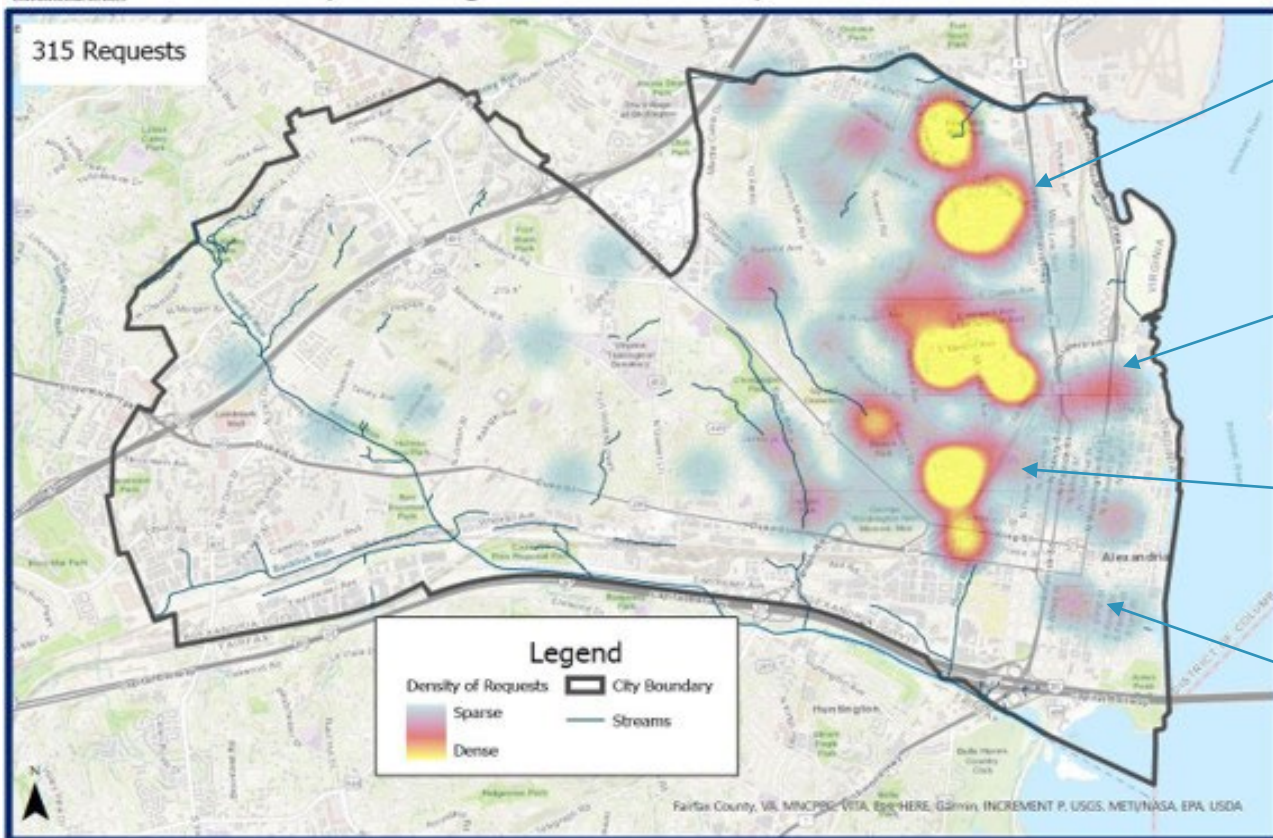
AGENDA ITEM #7

Annual Report Discussion – *The right places? Adequate funding? Sufficient progress?*

Urgent big projects getting started & spot improvements getting done



September 10, 2020 Rain Event
Heat Map Showing Flood-related Requests for Service



Large Capacity Projects:

Commonwealth, Ashby, Glebe

Design started: 7/2022
Construction starts: 4/2026
Cost: \$50M

Nethergate

Design starts: 1/2024
Construction starts: 7/2025
Cost: \$5M

Hooff's Run

Design started: 5/2023
Construction starts: 9/2026
Cost: \$60M

Pitt & Gibbon

Design starts: 12/2023
Construction starts: 9/2027
Cost: \$12M



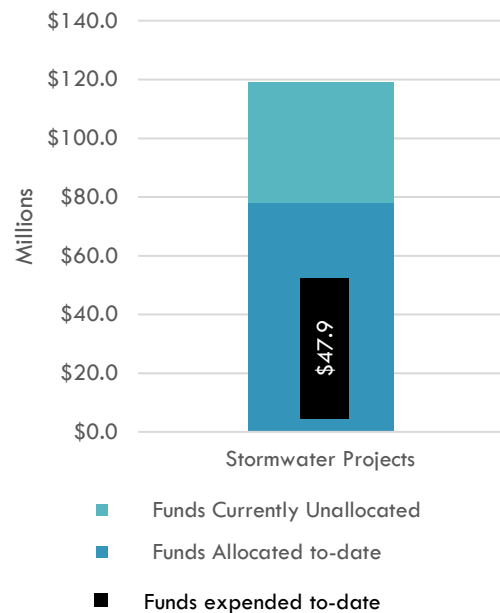
Annual Report Discussion – The right places? Adequate funding? Sufficient progress?

Construction is still years away & more projects beyond...so don't let up!

Stormwater Large Capacity Projects																									
Project	Total Cost (\$M)	FY22	FY22	FY23	FY23	FY24	FY24	FY25	FY25	FY26	FY26	FY27	FY27	FY28	FY28	FY29	FY29	FY30	FY30	FY31	FY31	FY32	FY32	FY33	FY33
		Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun	Jul-Dec	Jan-Jun
Commwlth/Ashby/Glebe	\$50																								
Hooffs Run Culvert	\$60																								
Pitt&Gibbon (CS Area)	\$12																								
Nethergate (CS Area)	\$5																								
E Mason Storage	\$1																								
Edison Store&Convey	\$13																								
DeWitt Store&Convey	\$15																								
E Monroe&Wayne	\$3																								
MtVernon/Glendale/Luray	\$10																								
Notabene&Old Dominion	\$4																								
Russell&Rosemont Convey	\$6																								
Russell&Rosemont Store	\$8																								
Total	\$187																								

LEGEND: Planning Design Construction

Stormwater Capital Budget & Expenditures Year-end FY 2023



Observation:

By the end of FY 2023, \$119M had been appropriated for stormwater projects to-date, but only:

- \$78M was allocated to specific projects, and,
- \$48M was expended or obligated



Proposed schedule of future meetings

AGENDA ITEM #8

Public Comment

AGENDA ITEM #9

Adjourn

AGENDA ITEM #10