

Vienna Town Council Stormwater Management Program Update



VIENNA



June 5, 2023

Tonight's Presentation

- Current MS4 permit an impactful five years
 - Permit implementation highlights
 - Chesapeake Bay TMDL action plan progress
 - Other TMDLs
 - DEQ audit
- Transitioning to a new stormwater permit
 - What will change?
 - Timeline for next five years
- Consolidation of erosion and sediment control and stormwater management regulations

2018 MS4 Permit – Greatest Hits

- Effective November 1, 2018. Set to expire October 31, 2023
- Ramped up requirements for:
 - Public education and outreach
 - Stormwater system mapping
 - Illicit discharge detection and response
 - Stormwater facility inspections
 - Staff training
 - Pollution prevention for municipal operations
- Focused on compliance with Chesapeake Bay and local water quality targets



Public Education and Outreach

- Required to have at least four public engagement activities each year
- Vienna far exceeded this minimum
- Maintained engagement even with COVID using on-line engagement
- Targeted pollution prevention focused on:
 - Youth outreach
 - Bacteria from pet waste
 - Proper use of fertilizers
 - Illicit discharges from restaurants and automotive service stations

Youth Focused Outreach



Outreach to Pet Owners



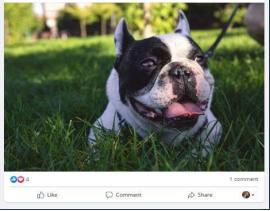
animals and humans — worms, parvovirus, coronavirus, giardiasis, salmonellosis, cryptosporidiosis and campybacteriosis. Fecal waste can take as long as a year to breakdown leaving parasites and bacteria to linger in soil for years. When it rains, stormwater washes contaminates like E. coli and other organisms from the soil into locals streams and watersheds.

This is why we do - every time.

Reasons you do

Town of Vienna, VA - Governm VIEW September 13, 2022 · 🕅

#greentipoftheweek Please pick up after your pooch! Pet waste contains disease-causing pathogens and polluting nutrients. When left on sidewalks or grass, the water runoff can pollute streams and ultimately, the Chesapeake Bay, where it contributes to dangerous conditions for humans and aquatic life.



Town of Vienna, VA - Government

September 20, 2022 · 🕲

#greentipoftheweek Town ordinances come in all shapes and sizes. They all serve a purpose, including Vienna's pooper scooper ordinance. Yes, there is even an ordinance for that! Owners must clean up after their pets when out for a walk. Be a good neighbor—bag it and trash it! You can read more about the ordinance here: https://bitly/towscop.



Outreach to Restaurants





127 Center Street South Vienna, VA 22180

Discharging prohibited items into storn sewer facilities can result in fines.

Nothing but rainwater is allowed into storm drains. It is illegal, and harmful, to allow wastes, wash water, cleaning agents, or materials of any kind into the storm drain system. Rain and mishandled wash water and grease from your facilities and dumpsters carry pollutants directly into local streams and negatively impacts local streams and wildlife.

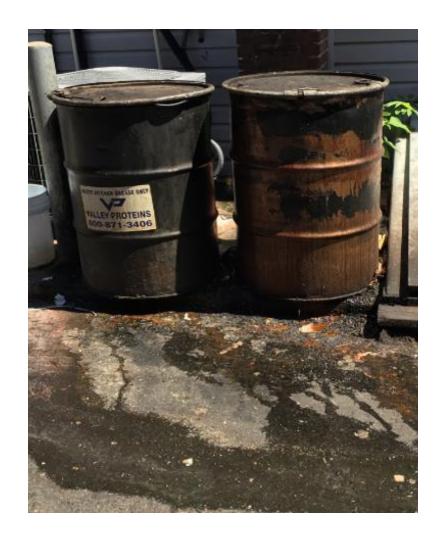
Use the QR code to implement best management practices and prevent common stormwater ranoff pollution.

For information on Town Stormwater Management, visit viennava.gov/stormwater.

Community restaurants and food service workers are an essential key to keeping local streams and watersheds healthy.



Your local watershed drains to the Potomac River and Chesapeake Bay!



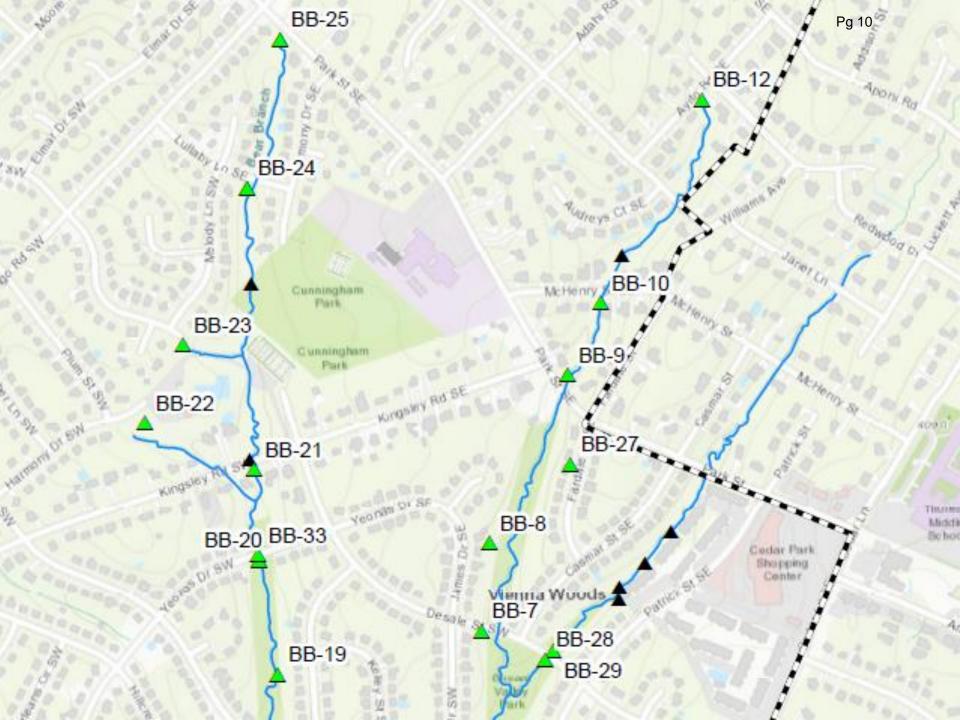
More Work to Do!



- 35% of Fairfax County residents believe stormwater is treated by a wastewater facility or don't know
- 30% don't always pick up after their pets
- 81% could properly identify an illicit discharge; however, only 54% would definitely or probably report it
- 29% of people with lawns use recommended practices (test, fertilizer in the Fall, or do not fertilize)

Illicit Discharge Detection and Reporting

- The Town made significant improvements in mapping storm drain infrastructure
- 200 stormwater outfalls inspected for illicit discharges in past four years – 50 more scheduled for June
- 19 potential/actual illicit discharges investigated:
 - 6 cooking oil/food waste
 - 3 wash water/cleaners
 - 2 sediment
 - 2 petroleum from vehicles/power washing
 - 2 contractor materials (paint/concrete)
 - Other items (trash, dumpsters, etc.)



Stormwater Management Facilities

- Explosion of stormwater facilities good for water quality, a challenge to manage
- 138 private facilities as of July 1, 2028
- Since 2018, have added 262 new private facilities!
- Vast majority are residential facilities
- Privately maintained, but Town is responsible for enforcing maintenance agreements

Good Housekeeping Practices

Training for Town Employees

- Pollution prevention training two times
- Illicit discharge detection and reporting training three times
- Police response training to occur in June

Pollution Prevention Plans

- Updated Northside Property Yard Stormwater Pollution
 Prevention Plan (SWPPP)
- New Nutley Street Maintenance Yard SWPPP
- Both sites inspected semi-annually

Chesapeake Bay TMDL Action Plan

- Successfully implemented Phase II requirement to meet 40% of pollutant reduction targets
- Indeed, <u>draft</u> Phase II plan showed 100% targets were already met using street sweeping!

Town of Vienna, Virginia Draft Phase II Chesapeake Bay

TMDL Action Plan DEQ Submittal – May 30, 2018



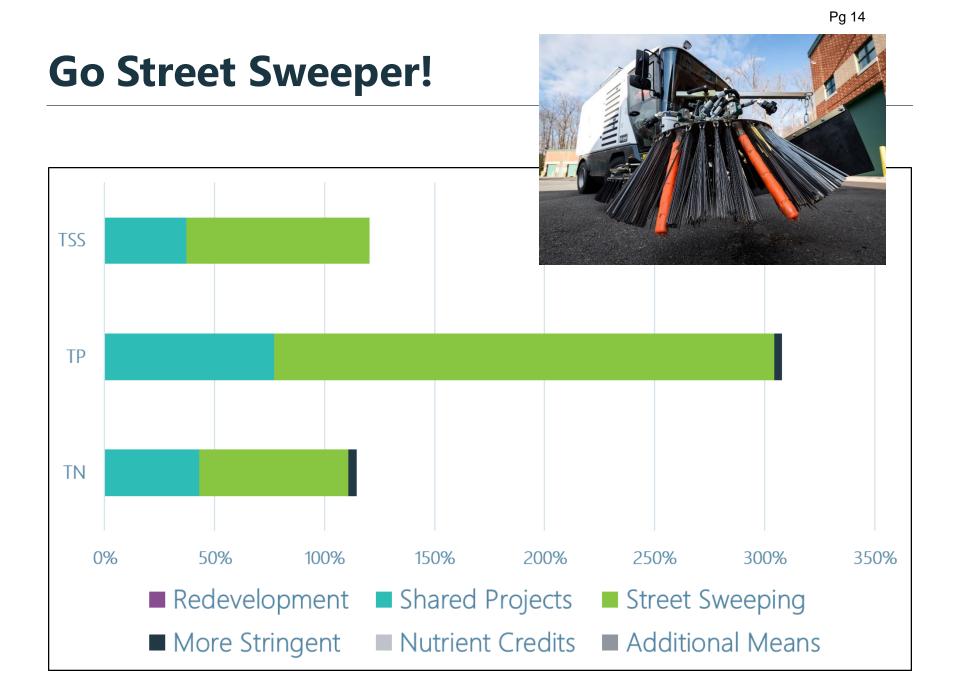
Town of Vienna Department of Public Works 127 Center Street, South Vienna, Virginia 22180



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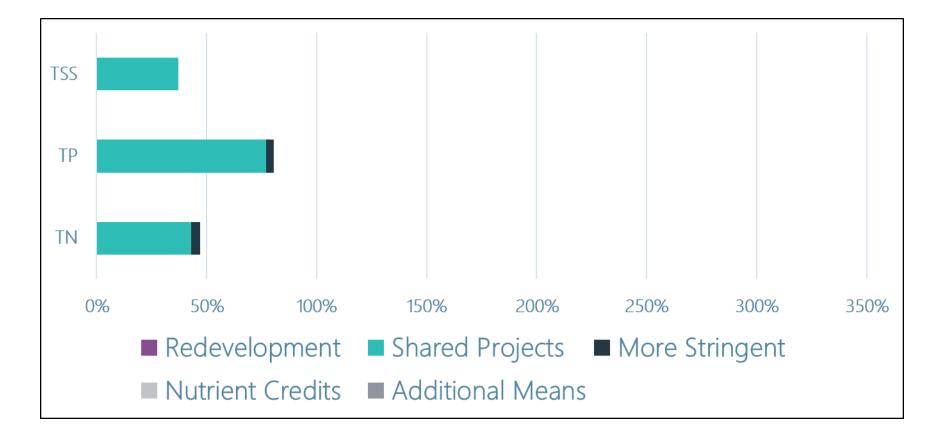
Prepared with assistance by: Wood Environment & Infrastructure Solutions Chantilly, Virginia

Prepared in Compliance with Municipal Separate Storm Sewer System (MS4) Permit No. VAR040066



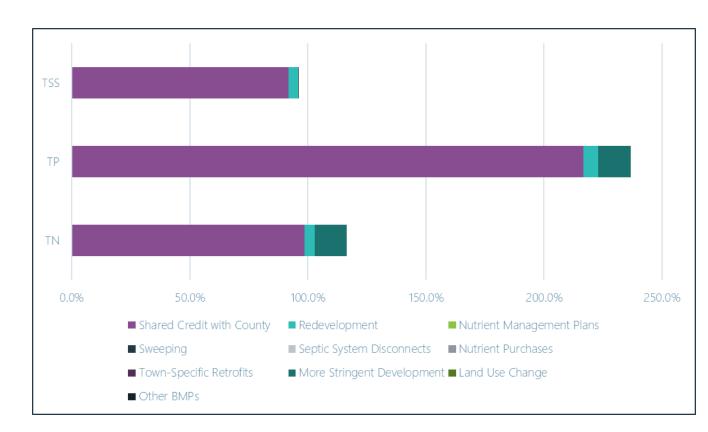
A Step Back... The Rules Change

DEQ guidance on street sweeping changes... dramatically.



A Giant Leap Forward

Partnership with Fairfax County and the Town of Herndon puts Vienna on track.





VIENNA

since 1890





Stream Restoration Projects



Stream restorations like Piney **Branch** were a part of the partnership with Fairfax County.

Local TMDL Action Plans

- Sediment for Accotink Creek and Difficult Run
- Bacteria for Accotink Creek and Difficult Run
- PCBs for Potomac River (Accotink Creek)
- Chloride (Salt) for Accotink Creek

Town of Vienna, Virginia

Chloride TMDL Action Plan for Accotink Creek May 1, 2021



Town of Vienna Department of Public Works 127 Center Street, South

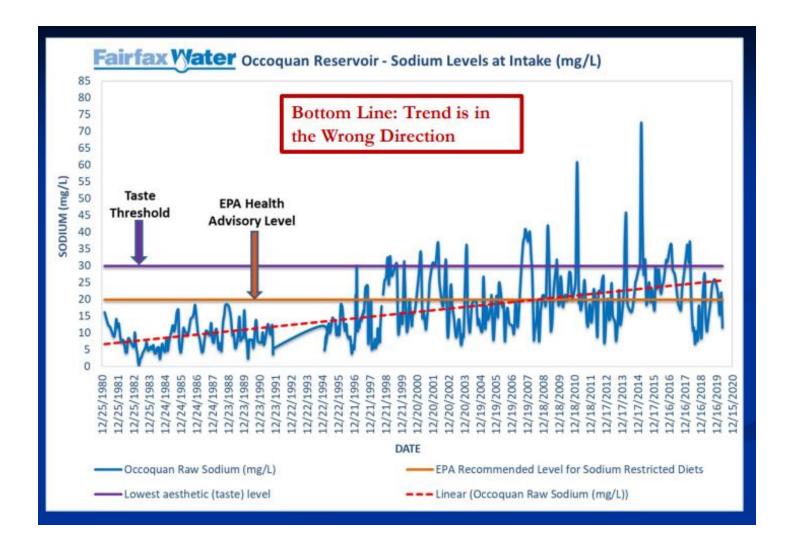
Vienna, Virginia 22180

TOWN OF VIENNA wood.

Prepared with assistance by: Wood Environment & Infrastructure Solutions **Chantilly, Virginia**

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Challenge of Chloride



2021 DEQ Audit



Post the MS4 annual report for each year of permit term to the Town's website



Dry weather screening protocols need to track time for last precipitation event

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BMP database needs to indicate whether BMPs are used for TMDL credit



Implement BMPs for brine salt storage tanks at property yard

Brine Storage Area



- More flexibility for outreach strategies; focus on adaptive strategies
- Require more detail for mapping requirements. Vienna already meets these
- Must report the physical condition of outfalls
- Better tracking and accountability for maintenance of public stormwater facilities
- New standard operating procedures for deicing, exterior building maintenance, utility construction discharges, and landscaping materials
- Update SWPPPs and TMDL action plans

New Permit Schedule

ltem	Timeframe
Registration Statement and Draft Phase III Bay Action Plan	October 1, 2023
Updated MS4 Program Plan	May 1, 2024
Final Phase III Bay Action Plan	November 1, 2024
Update Local TMDL Action Plans	May 1, 2025
Deicing/Anti-icing SOP	November 1, 2025
Building Washing SOP	November 1, 2026
Stream Maintenance and Inspection SOP	November 1, 2026
Other SOPs (Construction and Landscape Materials)	TBD
Update SWPPPs and Other TMDL Plans	TBD

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VESC and VSMP Consolidation

- Consolidated Erosion and Sediment Control and Stormwater Management Regulation to go before the State Water Control Board this June
- No significant changes in technical criteria. Focused on:
 - Streamlining process
 - Clarifying requirements
 - Eliminating redundancies
 - Correcting inconsistencies
- But... there will be significant organizational changes
- Vienna will have until July 1, 2024 to adopt amendments
- Presents an opportunity to make any other changes to the Town's ordinances

Thank You! Questions?

