Town of Vienna, Virginia

Municipal Separate Storm Sewer System (MS4) Program Plan

FY23 Annual Report

Submitted to the Virginia Department of Environmental Quality in compliance with Permit No. VAR040066, "General Virginia Pollutant Discharge Elimination System Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems."

TOWN OF VIENNA

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

October 1, 2023 – DEQ Submittal

General VPDES Permit for Small Municipal Storm Sewer Systems

Permit No. VAR040066

Fiscal Year 2022 Annual Report
July 1, 2022 – June 30, 2023

TOWN OF
VIENNA

Submitted by:

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

CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name	Title	Date

General VPDES Permit for Small Municipal Storm Sewer Systems Permit No. VAR040066

Fiscal Year 2023 Annual Report
July 1, 2022 – June 30, 2023 Reporting Period
Town of Vienna, Virginia

TABLE OF CONTENTS

Tables

Appendices

1 Introduction

This Fiscal Year 2023 (FY23) annual report has been prepared by the Town of Vienna Department of Public Works (DPW) in accordance with the requirements of General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (9VAC250890-40 *et seq.*). The Town was issued the most recent five-year General Permit (VAR040066) effective November 1, 2018.

Pursuant to the General Permit, the Town has developed a Municipal Separate Storm Sewer System (MS4) Program Plan. The MS4 Program Plan has been updated in accordance with the General Permit and posted at https://www.viennava.gov/residents/sustainability/protecting-the-chesapeake-bay.

The plan implements six minimum control measures (MCMs) aimed at reducing the discharge of pollutants to the "maximum extent practicable." MCMs include the following:

Table 1: Six Minimum Control Measures

1. Public Education and Outreach 2. Public Involvement and Participation 3. Illicit Discharge Detection and Elimination	4. Construction Site Stormwater Runoff Control 5. Post-Construction Stormwater Management 6. Pollution Prevention and Good Housekeeping

The General Permit requires the Town to submit annual reports to the Department of Environmental Quality (DEQ) covering the reporting period of the preceding July 1 through June 30. Part I D of the General Permit outlines the requirements for the annual report. The following is a summary of the requirements and where the information is located in this annual report.

Table 2: MS4 Permit Annual Reporting Requirements

Permit	Requirement	Location
Part I D 2 a-b	2. The annual report shall include the following general information: a. The permittee, system name, and permit number; b. The reporting period for which the annual report is being submitted;	Section 2
Part I D 2 c	c. A signed certification as per Part III K;	Certification page
Part I D 2 d	d. Each annual reporting item as specified in an MCM in Part I E; and,	Section 3

Permit	Requirement	Location
Part I D 2 e	e. An evaluation of the MS4 program implementation, including a review of each MCM, to determine the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.	Section 4
Part I D 3	3. For permittees receiving initial coverage under this general VPDES permit for the discharge of stormwater, the annual report shall include a status update on each component of the MS4 program plan being developed. Once the MS4 program plan has been updated to include implementation of a specific MCM in Part I E, the permittee shall follow the reporting requirements established in Part I D 2.	Not applicable
Part I D 4	4. For those permittees with requirements established under Part II A, the annual report shall include a status report on the implementation of the Chesapeake Bay TMDL action plan in accordance with Part II A of this permit including any revisions to the plan.	Section 5
Part I D 5	5. For those permittees with requirements established under Part II B, the annual report shall include a status report on the implementation of the local TMDL action plans in accordance with Part II B including any revisions to the plan.	Section 5

2 General Information

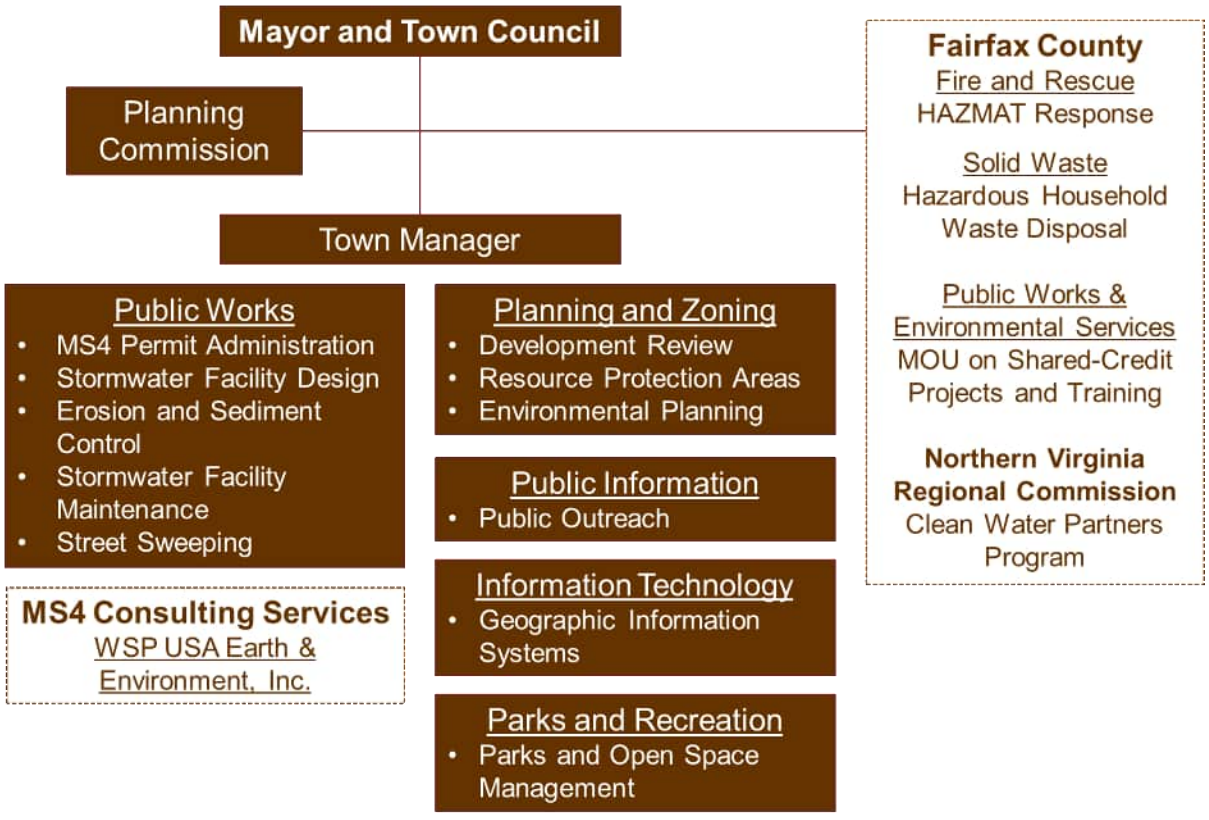
This section provides the general information required from Part I D 2 a-b of the General Permit.

Table 3: Required Background Information

Permittee:	Town of Vienna
System Name:	Town of Vienna MS4
Permit Number:	VAR040066
Reporting Period:	July 1, 2022 – June 30, 2023

The chart below outlines departments with major stormwater management responsibilities that are referenced in this annual report. DPW is the primary lead on MS4 compliance activities. There have been no changes to Town departments that affect the MS4 Program Plan. A consultant provides MS4 support services to the Town. Support may include, but is not limited to, annual report preparation, MS4 Program Plan development, mapping/GIS, dry weather outfall screening, and pollution prevention training.

Figure 1: Organization of Stormwater Management Program



3 Status of Compliance with Fiscal Year 2022 Conditions

This section provides an overview of progress made toward meeting each MCM. Each MCM includes the specific annual reporting items as specified in Part I E of the General Permit followed by a more detailed description of each best management practice (BMP) contained in the MS4 Program Plan. Support materials are located in the appendices as referenced.

3.1 Public Education and Outreach (MCM #1)

In accordance with Part I E 1 g of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program.	• Nutrients • Sediment and other illicit discharges • Bacteria from pet waste
✓	(2) A list of strategies used to communicate each high-priority stormwater issue.	See BMPs 1.3-1.5.

BMP 1.1 – General Education and Outreach

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report: (1) the amount of materials distributed and an estimate of the number of individuals reached; (2) the message included in the Town Water Quality Report or residential water bill; (3) a snapshot of the stormwater web page; and, (4) a summary of the Clean Water Partners program and the results of any surveys or other mechanisms used to determine program effectiveness."

BMPs from MS4 Program Plan	FY23 Activities
Distribute giveaways with water quality messages at events.	The Town continued to distribute give-aways at events. Approximately 300 items were distributed at Public Works Day and the Family Fishing Rodeo. Items included rulers, magnets, and stickers.
Include general pollution prevention article in either (1) Town Water Quality Report; or, (2) residential water bill.	A general pollution prevention message "Get Involved – Protect Your Water Sources" was included in the Town's 2023 Water Quality Report. See Appendix A for the message.
Host stormwater web page.	The website is located at: http://www.viennava.gov/residents/sustainability/protecting-the-chesapeake-bay
Participate in Clean Water Partners	The Town continued to participate in Clean Water

BMPs from MS4 Program Plan	FY23 Activities
regional program.	Partners. A summary of FY23 activities is included in Appendix A. The 2023 campaign focused on bacteria, nutrients, salt, and illicit discharges. These align with the Town's high-priority stormwater issues. The campaign aired two public service announcements (one in English and one in Spanish) on a combination of 44 networks for a total of 865,060 impressions/views. The campaign also resulted in 825,685 social media impressions. Each year, Clean Water Partners conducts a survey of approximately 500 residents in Northern Virginia to measure beliefs, attitudes, and behaviors related to water pollution. The survey includes information about Vienna residents. However, it is statistically more valuable to look at the results of Fairfax County, which includes Vienna. The survey is valuable for understanding where additional effort may be needed. The following is a summary of highlights: <u>General Education</u>: • 55% of Fairfax County residents correctly stated that stormwater does not flow to a wastewater treatment facility. This is a decrease in the County from FY22 (65%), FY21 (62%), and FY20 (60%). The regional average is 54%. • 38% of Fairfax County residents reported receiving information about reducing water pollution in the past 12 months. This is an increase from FY23 (31%). The regional average is 34%. <u>Bacteria from Pets</u>: • Regionally, 88.7% of owners always or usually picked up dog waste on walks. This figure has been relatively steady since 2020. The percent was in the low 90s from 2016 through 2019. The percent of households indicating that they have a dog has increased significantly in recent years (36% in FY20 to 51% in FY23). <u>Illicit Discharges and Illegal Dumping</u>: • 81% of Fairfax County residents successfully recognized a picture of an illicit discharge. This is the same as FY22. The regional average is 79%. • 55% of Fairfax County residents were "confident" or "somewhat confident" about where to report an illicit

BMPs from MS4 Program Plan	FY23 Activities
	discharge. This is about the same as FY22 (56%). The regional average is 57%. • 59% of Fairfax County residents would "definitely" or "probably" report the illicit discharge. This is an increase in Fairfax County from FY22 (54), FY21 (49%), and FY20 (43%), and a strong increase from FY19 (38%). The regional average is 63%. The most common reason for not reporting was "Didn't want to communicate with authorities" at 32% and "None of my business" at 23.1%. <u>Nutrients from Fertilizers</u>: • 12% of Fairfax County residents with lawns test before fertilizing. An additional 12% don't fertilize. Regionally, while those using soil tests have increased, so too have the number of residents applying 3 or 4 times a year. The results show a generally positive trend. Good progress has especially been made on reporting potential water pollution. Picking up after pets has stayed relatively flat and is lower than a few years ago. Fewer people also recognize that stormwater does not flow to a wastewater facility. These latter two areas may require additional focus.

<u>BMP 1.2 – Youth-Focused Outreach</u>

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report documentation of efforts to educate youth, including an estimate of the number of youth engaged."

BMPs from MS4 Program Plan	FY23 Activities
Host DPW Day with a focus on youth activities.	The Town resumed Public Works Day in FY23 (May 18, 2023). A stormwater outreach booth was set up to teach young participants about which watershed they live in and how to protect water quality through pollution prevention.
Use the EnviroScape model at Town events.	The EnviroScape model was set up for the Family Fishing Rodeo.

BMP 1.3 – Chesapeake Bay Nutrients

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report: (1) documentation that information has been distributed on proper fertilizing techniques; and, (2) a snapshot of the social media post. In FY21, the Town will also provide information mailed to HOA and condominiums."

BMPs from MS4 Program Plan	FY23 Activities
Distribute information on proper fertilizing techniques through one of the following: (1) press release; (2) Vienna Voice; (3) Town Calendar; (4) water bill.	The 2023 Water Quality Report included a fertilizer-specific article entitled "Get Involved – Be Fertilizer Smart." An article entitled "The Dos and Don'ts of Lawn Fertilization" was included in the June 2023 Vienna Voice. See Appendix A.
Distribute nutrient-related message using a social media platform.	Messages were posted to Facebook on August 30, 2022 and April 25, 2023 with tips on when to fertilize and how to fertilize properly. See Appendix A.
Distribute nutrient-related message to HOAs/condominium associations.	This BMP was completed in FY21.

BMP 1.4 – Sediment and Other Illicit Discharges

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report: (1) documentation that information has been distributed on how to report a suspected illicit discharge; (2) a snapshot of the social media post; and, (3) documentation of how the HHW program was promoted."

BMPs from MS4 Program Plan	FY23 Activities
Distribute information on illicit discharge reporting through one of the following: (1) press release; (2) Vienna Voice; (3) Town Calendar; (4) water bill.	The September 2022 Vienna Voice included an article entitled "Help Keep Our Storm Drains and Streams Clean," which focused on illicit discharge prevention. The 2023 Town Calendar included a section about stormwater protection and how to report an illicit discharge. See Appendix A.
Distribute illicit discharge reporting message using a social media platform.	The Town continued to post pollutant-specific messages on Facebook to highlight how residents can prevent illicit discharges. For FY23, the Town focused on illicit discharge reporting as well as on cigarette butts. See Appendix A.

Promote County HHW program through either; (1) Vienna Voice; (2) Town Calendar; (3) Vienna Happenings.	The County's HHW program was promoted in the Town's 2023 Water Quality Report and HHW disposal options were prominently included in the 2023 Town Calendar. See Appendix A.

BMP 1.5 – Bacteria

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report: (1) documentation that information has been distributed on proper pet waste disposal; and, (2) a snapshot of the social media post. In FY20, the Town will also provide information mailed to pet owners. The Town will confirm maintenance of existing signage and document any newly installed signage."

BMPs from MS4 Program Plan	FY23 Activities
Distribute information on proper pet waste disposal through one of the following: (1) press release; (2) Vienna Voice; (3) Town Calendar; (4) water bill.	The 2023 Town Calendar included a message referencing the Town's "pooper scooper" ordinance requiring pet owners to clean up after pets. See Appendix A.
Distribute one bacteria-related message using a social media platform.	Messages were posted to Facebook on September 13 and September 20, 2022 reminding owners to always pick up after their pets. See Appendix A.
Distribute bacteria-related message to dog license holders.	This BMP was completed in FY20.
Maintain signage at medium risk and priority sites identified in the Difficult Run and Accotink Creek Bacteria TMDL Action Plan; install signage at newly identified sites within one year.	Signage continues to be maintained. No additional signs have been installed.

BMP 1.6 – Targeted Business Outreach for Illicit Discharges

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each MS4 annual report documentation of the message in Town Business Matters. No later than FY22 and FY23, the Town will provide information sent to restaurants and automotive service centers, respectively."

BMPs from MS4 Program Plan	FY23 Activities
Include pollution prevention message in Town Business Matters.	A message was included in the Town Business Matters entitled "Stormwater Impacts Business." The message highlights the important role of dumpster maintenance and containment by businesses in preventing stormwater pollution. See Appendix A.
Distribute pollution prevention materials to restaurants.	This BMP was completed in FY22.
Distribute pollution prevention materials to automotive service centers.	This BMP was delayed due to a staff departure. The Town will include this BMP in the first year of the MS4 Program Plan update required by the 2023 MS4 permit.

3.2 Public Involvement and Participation (MCM #2)

In accordance with Part I E 2 f of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded.	No public input was received about the MS4 program during this reporting period. See BMP 2.3. The Town did receive complaints from the public about potential illicit discharges. See BMP 3.5 and Table 5.
✓	(2) A webpage address to the permittee's MS4 program and stormwater website.	The webpage address is www.viennava.gov/residents/sustainability/protecting-the-chesapeake-bay. See BMP 2.1.
✓	(3) A description of the public involvement activities implemented by the permittee.	See BMP 2.4.
✓	(4) A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality.	See BMP 2.4.
✓	(5) The names of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.	The Town did not collaborate with other MS4 permittees on public involvement opportunities.

BMP 2.1 – Stormwater Web Page

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a snapshot of the stormwater webpage documenting all required elements."

BMPs from MS4 Program Plan	FY23 Activities
Host the stormwater webpage with information required by the permit.	The Town's stormwater webpage includes the following information: • Effective MS4 permit and coverage letter • Most current MS4 Program Plan • Annual reports within 30 days of submittal to DEQ • Links to reporting functions from BMPs 2.2 and 2.3 See Appendix B for a snapshot of the stormwater webpage.

BMP 2.2 – Public Reporting of Potential Illicit Discharges

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a snapshot of the reporting functions on the stormwater webpage."

BMPs from MS4 Program Plan	FY23 Activities
Provide information on how to report a potential illicit discharge on the stormwater webpage.	See Appendix B for a snapshot of the illicit discharge reporting mechanism on the Town's stormwater webpage under "How residents can help.

BMP 2.3 – Public Input and Complaints

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report: (1) a snapshot of the public input and complaint reporting function; and, (2) a summary of any public complaints or input on the MS4 Program Plan and the Town's response to complaints or input."

BMPs from MS4 Program Plan	FY23 Activities
Provide information on how to register public input or complaints on the stormwater web page.	See Appendix B for a snapshot of the public input and complaint reporting mechanism on the Town's stormwater webpage.
Implement the Public Involvement and Participation SOP to document complain tracking and response.	The Town continued to implement the SOP. No public input about the MS4 program was received during this reporting period. The Town did receive complaints from the public about potential illicit discharges. See BMP 3.5 and Table 5 for details.

BMP 2.4 – Public Involvement Opportunities

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of the activities implemented and the metrics from the above table."

BMPs from MS4 Program Plan	FY23 Activities
Promote or implement four local watershed activities annually.	See the Table 4 for a summary of public involvement activities in FY23.

Table 4: Summary of Public Involvement Activities

Description	Time Period	Metrics and Evaluation of Benefit
Family Fishing Rodeo Watershed Education Booth	March 25, 2023	**Metrics:** Approximately 100-150 children and adults attended.  **Benefits:** This event provides an opportunity for residents to connect with their local streams. Participants were provided information about how they can protect local water quality.
Town Clean Ups	November 5, 2022	**Metrics:** 43 adults and children participated resulting in 12 bags of trash collected. See Appendix B for additional details.

		 **Benefits:** This event resulted in the direct removal of trash and debris from local streams. Participants have a better appreciation of how litter impacts water quality and ecosystems.
Green Expo	April 20, 2023	**Metrics:** Approximately 250 people attended the Green Expo.  **Benefits:** Give-aways were distributed at the event to educate residents about how they are an important part of pollution prevention efforts.
Eagle Scout Storm Drain Marking Project	May 7 through June 18, 2023	**Metrics:** 215 storm drain inlets were marked. See Appendix B for more details. **Benefits:** Markers can prevent illicit discharges by remining residents and businesses that storm drains lead directly to local streams and not a wastewater treatment facility.

BMP 2.5 – Town Council Update

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in the FY22 or FY23 annual report any meeting materials and a summary of significant feedback, if any."

BMPs from MS4 Program Plan	FY23 Activities
Provide MS4 program update to Town Council.	The Town Council update was provided on June 5, 2023. The update included information on current permit accomplishments, likely changes in the new permit, and pending regulations to consolidate erosion and sediment control and stormwater management ordinance. See Appendix B for the presentation.

3.3 Illicit Discharge Detection and Elimination (MCM #3)

In accordance with Part I E 3 e of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year.	The Town confirms that the MS4 map and information table have been updated accordingly. See BMP 3.1.
✓	(2) The total number of outfalls screened during the reporting period as part of the dry weather screening program.	See BMP 3.4.
✓	(3) A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows: • The source of illicit discharge • The dates that the discharge was observed, reported, or both • Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method • How the investigation was resolved • A description of any follow-up activities • The date the investigation was closed	See BMP 3.5.

BMP 3.1 – Storm Sewer System Map

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will provide DEQ with the GIS-compatible shapefile by July 1, 2019. The Town will include in each annual report: (1) documentation of updates to the storm sewer system map and outfall table; and, (2) copies of notifications to downstream MS4s, if any."

BMPs from MS4 Program Plan	FY23 Activities
Update the outfall information table in accordance with Part I E 3 a of the permit.	The Town updated the outfall information table in FY19 with all information required in Part I E 3 a of the permit.
Submit GIS shape-file to DEQ.	The GIS shape-file, with all requested information, was submitted to DEQ on June 17, 2019.
Maintain the storm sewer system map and outfall information table, no later than October 1.	The Town conducted a comprehensive update of the storm sewer system map and outfall information table in FY23 as part of the draft Phase III Chesapeake Bay TMDL Action Plan. See Appendix C for the map.
Notify downstream MS4s of any new interconnections, as applicable.	No new interconnections were identified during FY23.

BMP 3.2 – Prohibition on Illicit Discharges

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will annually assess whether any changes are necessary to the Town Code. The Town will document any changes in the appropriate annual report."

BMPs from MS4 Program Plan	FY23 Activities
Enforce the provisions of Section 16.2.2 of the Town Code.	The Town continued to enforce its prohibition on illicit discharges. The Town has assessed the provisions of the Town Code and finds that they remain adequate to meet the requirements of the MS4 permit.

BMP 3.3 – Written Procedures for Illicit Discharges and Illegal Dumping

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will document any changes to the written procedures during the reporting period in the associated annual reports."

BMPs from MS4 Program Plan	FY23 Activities
Implement IDDE plan and incorporate into training.	The Town continued to implement the IDDE plan, including during dry weather outfall screening in BMP 3.4. The Town incorporated the IDDE plan into its field personnel training in BMP 6.3. The IDDE plan was updated in FY21 in response to a corrective action from the DEQ Program Audit Report (January 14, 2021).

BMP 3.4 – Dry Weather Outfall Screening

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of all dry weather outfall monitoring activities including the total number of outfalls screened, the screening results, and detail of any follow up actions. Tracking will be reported as part of BMP 3.5."

BMPs from MS4 Program Plan	FY23 Activities
Annually perform dry weather screening on 50 outfalls.	The Town performed dry weather screening on 54 outfalls between May 18 and June 5, 2023. All outfalls were characterized as "unlikely" for illicit discharges. See Appendix C for dry weather outfall screening results.

BMP 3.5 – Track and Report Illicit Discharges

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of all potential and actual illicit discharges in the tracking database. For each case, the Town will provide: (1) the date the discharge was observed or reported; (2) follow up activities; (3) measures to resolve the investigation; and, (4) closure date."

BMPs from MS4 Program Plan	FY23 Activities
Maintain tracking database.	See Table 5 for potential and actual illicit discharges with follow up actions required from the MS4 permit.

Table 5: Suspected Illicit Discharge Reporting

Report Date	Report Source	Description	Corrective Action	Follow-Up/ Resolution	Date Closed
9/15/2022 Louise Archer ES	Resident	Resident reported excess sediment at Peterson Lane Park (Fairfax County). Town staff investigated and found that a contractor at Louise Archer ES had ruptured a water main. As a result, sediment laden water was being discharged.	The Town coordinated with the Louise Archer ES contractor to repair the water main break and monitor stream clean up.	DEQ notified via portal. Fairfax County notified of clean up efforts. Contractor implemented improved inlet protection.	9/22/2022
12/8/2022 122 Locust Street SW	Town Staff	Town Engineer noted residential construction site with oily residue from waterproofing membrane. Also noted sediment laden water discharged to adjacent storm drain.	Contractor was initially resistant to Town clean-up efforts but agreed to use absorbent pads to remove all oily residue and to use a filter bag for	DEQ notified via portal. Additional inspection of construction site by the Town. Contractor had to make minor	12/13/2022

Report Date	Report Source	Description	Corrective Action	Follow-Up/ Resolution	Date Closed
			dewatering activities.	adjustments to E&SC but no additional violations noted.	
1/30/2023 603 Delano Drive SE	Resident	Residents complained that 603 Delano Drive engaged in unauthorized stream restoration work within the floodplain and RPA, installing gabion baskets and riprap, raising the stream bed, and restricting the stream width. Lack of proper E&SC also caused sediment to discharge to the stream.	Resident and his contractor were told to stop work and stabilize the construction site. DEQ, DCR, and Fairfax County were notified. Resident was cooperative and agreed to remove the gabion baskets and riprap and restore the original channel.	DEQ and DCR notified directly via email. The Town coordinated closely with the resident to ensure proper completion of the restoration.	7/10/2023
1/31/2023 222 Battle Street SW	Town Staff	Town staff noticed accumulated mold, algae, and grime on tires and outdoor furniture stockpiled on the storm sewer inlet.	Resident notified to remove debris from inlet and to store stockpiles away from concentrated flows and storm drain inlets. Resident did not respond to violation letter but debris was cleared.	No additional Town follow up required.	2/7/2023
2/22/2023 540 Maple Ave.	Resident	Multiple complaints about slippery surface from discharge from Flagship Carwash entrance on Maple Ave.	Town staff inspected car wash and issue was determined to be tire shine product applied to vehicles after washing. Manager scheduled cleaning for weekend and monthly cleaning of driveway was scheduled.	Routine inspection of driveway entrance to car wash.	2/28/2023

BMP 3.6 – Site-Specific Illicit Discharge Assessment and Prevention

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will provide a summary of any pet waste stations installed at priority sites and the results of the annual walk through of medium risk and priority sites. The Town will provide a summary of the results of the annual assessment of Waters and Caffi Fields, and any corrective actions taken to address sediment pollution."

BMPs from MS4 Program Plan	FY23 Activities
Maintain pet waste stations at priority sites.	The Town continued to maintain all previously reported pet waste stations. No new stations were added.
Conduct walk through of medium risk and priority sites for pet waste.	See Table 6 for a summary of the FY23 walk through results. No waste was detected in FY23. See Appendix C for full report.
Assess condition of Waters and Caffi Fields, Meadow Lane Park, and Southside Park, and take corrective action as necessary.	Several minor areas of erosion and exposed soil were identified during the FY23 walk through and will be the subject of follow-up maintenance. See Appendix C for full report.

Table 6: Results of Walk Through for Medium Risk and Priority Sites for Bacteria

Property	Observations	Follow Up Needed?
Glyndon Park	No waste observed.	No action required. No pet waste in FY23, FY22, or FY21. Small amount in FY20. Pet waste station installed in FY20.
Meadow Lane Park	No waste observed.	No action required. No pet waste in FY23, FY22, or FY21, three areas in FY20. Pet waste station installed in FY20.
Vienna Community Center	No waste observed.	No action required. No waste in FY23, FY22, FY 21, FY20, FY19, or FY18. Pet waste station installed in FY20.
Vienna Dog Park/Moorefield Park	No waste observed.	No action required. No waste in FY23, FY22, FY21, FY20, or FY19, small amount of waste detected in FY18. Pet waste station installed.
Vienna Town Green	No waste observed.	No action required. No waste in FY23, FY22, FY21, FY20, FY19, or FY18. Pet waste station installed.

3.4 Construction Site Stormwater Runoff Control (MCM #4)

In accordance with Part I E 4 d of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (3): • A confirmation that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control. • If one or more of the land disturbing projects were not conducted with the department approved standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications.	The Town is subject to Part I E 4 a (1) and is therefore not subject to this requirement. The Town does confirm that it has an approved Virginia Erosion and Sediment Control Program consistent with the Virginia Erosion and Sediment Control Law and its attendant regulations. See BMP 4.1 for additional information.
✓	(2) Total number of inspections conducted.	See BMP 4.2.
✓	(3) The total number and type of enforcement actions implemented and the type of enforcement actions.	See BMP 4.2.

BMP 4.1 – Maintain Local Program Consistency

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of any changes in program consistency, if applicable."

BMPs from MS4 Program Plan	FY23 Activities
Implement consistent construction site stormwater control program.	The Town continued to maintain a program consistent with state law and regulations. There has been no change to the Town's approval status.

<table>
<tr>
<td>Train all plan review, inspection, and enforcement staff.</td>
<td>The following maintained certifications during FY23. Certificates are in Appendix D.
<table>
<tr><td>Name:</td><td>Christine Horner</td></tr>
<tr><td>Certification #:</td><td>SWCA0477</td></tr>
<tr><td>Expiration Date:</td><td>03/09/2024</td></tr>
<tr><td>Name:</td><td>Emily Goodman</td></tr>
<tr><td>Certification #:</td><td>DIN0925</td></tr>
<tr><td>Expiration Date:</td><td>04/05/2024</td></tr>
<tr><td>Name:</td><td>John Jay Sergent</td></tr>
<tr><td>Certification #:</td><td>DCA0290</td></tr>
<tr><td>Expiration Date:</td><td>10/28/2025</td></tr>
<tr><td>Name:</td><td>Alan Chen</td></tr>
<tr><td>Certification #</td><td>SWCA0684</td></tr>
<tr><td>Expiration Date:</td><td>2/14/2026</td></tr>
</table>
</td>
</tr>
</table>

BMP 4.2 – Land Disturbing Activities Tracking System

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report: (1) a confirmation statement that land disturbing activities have been conducted in accordance with all approved standards and specifications; (2) an explanation for any projects not conducted in accordance with all standards and specifications; (3) the total number of inspections conducted; and, (4) the number and type of enforcement actions taken during the reporting period."

<table>
<tr><th>BMPs from MS4 Program Plan</th><th>FY23 Activities</th></tr>
<tr>
<td>Track and report annually on all land disturbing activities.</td>
<td>The Town confirms the following:

All land disturbing activities were conducted in accordance with approved standards and specifications.
The Town did not grant any exceptions during FY23 per 9VAC25-870-126.

The following was tracked during FY23 in accordance with the MS4 permit.
<table>
<tr><td>Total Regulated Activities:</td><td>86 (started in FY23)
145 (active projects in FY23)</td></tr>
<tr><td>Total Disturbed Acres:</td><td>29.50 (started in FY23)
56.96 (active projects in FY23)</td></tr>
<tr><td>Total Number of Inspections</td><td>2,563</td></tr>
<tr><td>Enforcement Actions:</td><td>2 Notice to Comply letters</td></tr>
</table>
</td>
</tr>
</table>

3.5 Post Construction Stormwater Management (MCM #5)

In accordance with Part I E 5 f of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) If the permittee implements a Virginia Stormwater Management Program in accordance with Part I E 5 a (1) and (2): • The number of privately owned stormwater facility inspections conducted. • The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately owned stormwater management facilities including the type of enforcement action.	See BMP 5.2.
✓	(2) The total number of inspections conducted on stormwater management facilities owned or operated by the permittee.	See BMP 5.2.
✓	(3) A description of the significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned and operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection.	The Town only conducted routine maintenance activities during FY22.
✓	(4) A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.	See BMP 5.3.
✓	(5) A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted.	See BMP 5.3.

BMP 5.1 – Maintain Local Program Consistency

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of any changes in program consistency, if applicable."

<table>
<tr><th>BMPs from MS4 Program Plan</th><th>FY23 Activities</th></tr>
<tr><td>Implement consistent post-construction site stormwater control program.</td><td>The Town continued to maintain a program consistent with state law and regulations. There has been no change to the Town's approval status.</td></tr>
<tr><td>Train all plan review, inspection, and enforcement staff.</td><td>The following maintained certifications during FY23. Certificates are in Appendix D.
<table>
<tr><td>Name:</td><td>Christine Horner</td></tr>
<tr><td>Certification #:</td><td>SWCA0477</td></tr>
<tr><td>Expiration Date:</td><td>03/09/2024</td></tr>
<tr><td>Name:</td><td>Emily Goodman</td></tr>
<tr><td>Certification #:</td><td>DIN0925</td></tr>
<tr><td>Expiration Date:</td><td>04/05/2024</td></tr>
<tr><td>Name:</td><td>John Jay Sergent</td></tr>
<tr><td>Certification #:</td><td>DCA0290</td></tr>
<tr><td>Expiration Date:</td><td>10/28/2025</td></tr>
<tr><td>Name:</td><td>Alan Chen</td></tr>
<tr><td>Certification #</td><td>SWCA0684</td></tr>
<tr><td>Expiration Date:</td><td>2/14/2026</td></tr>
</table></td></tr>
</table>

BMP 5.2 – Stormwater Facility Maintenance, Inspection, and Enforcement

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report: (1) the number of private facilities inspected each year; (2) the number and type of enforcement actions taken against private facilities, if applicable; (3) the number of public facilities inspected each year; (4) a description of significant maintenance, repair, or retrofit activities performed on public facilities; and, (5) confirmation that new facilities were reported either through the DEQ Construction Stormwater Database or the DEQ BMP Warehouse."

BMPs from MS4 Program Plan	FY23 Activities
Require all new BMP facilities to enter into a maintenance agreement with the Town.	All new BMP facilities are subject to a maintenance agreement in accordance with Town Code Chapter 23, Article 3 "Stormwater Management."

<table>
<tr><td>Inspect private facilities at least once every five years.</td><td>The Town had 138 private facilities as of July 1, 2018 that must be inspected at least once before June 30, 2023. Most of these came on-line during the last permit cycle and are therefore on their first inspection. The following is used to track annual inspections:
<table>
<tr><td>FY19</td><td>FY20</td><td>FY21</td><td>FY22</td><td>FY23</td><td>Total %</td></tr>
<tr><td>11</td><td>14</td><td>25</td><td>47</td><td>56</td><td>111%</td></tr>
</table>
All facilities were inspected and certified by a qualified third party in accordance with Virginia law and were confirmed to be functioning with no deficiencies. See Appendix E for the inspection log and sample inspection due notification letters.</td></tr>
<tr><td>Inspect public facilities once annually or in accordance with an adopted alternative schedule.</td><td>All public facilities were inspected during FY23. Results include:
Five in need of follow up maintenance
30 clean and functioning
See Appendix E for the inspection log.</td></tr>
</table>

BMP 5.3 – Stormwater Facility Tracking Database

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: “The Town will submit an electronic database or spreadsheet of all facilities brought online during the reporting period with the appropriate annual report. The data will include: the type of facility, location, acres treated (total acres with a breakdown of impervious and pervious acres), date brought online, sixth order Hydrologic Unit Code (HUC), the name of the impaired stream segment the facility is discharging into, whether public or private, existence of maintenance agreement, date of the most recent inspection, and when applicable, the number of enforcement actions.”

BMPs from MS4 Program Plan	FY23 Activities
Update the stormwater facility database in accordance with Part I E 5 of the MS4 permit.	In FY23, 87 BMPs were added to the database. All of these are privately-owned. See Appendix E for detailed information.
Update the database no later than 30 days after each new stormwater facility is brought-online.	New facilities are added to the Town’s BMP database no later than 30 days after a project receives occupancy and the BMP comes on-line.
Record inspection and enforcement actions in the tracking database.	The BMP database is updated throughout the year to record inspection and enforcement actions.

Use the DEQ Construction Stormwater Database to report new facilities requiring a construction general permit.	The Town confirms that it submitted required information through the Virginia Construction General Permit database. See Appendix E for confirmation.
Use the DEQ BMP Warehouse to report all other new facilities no later than October 1.	The Town confirms that it submitted required information through the DEQ BMP Warehouse. See Appendix E for confirmation. There were no BMPs implemented during the reporting period but not entered into the DEQ BMP Warehouse.

3.6 Pollution Prevention and Good Housekeeping (MCM #6)

In accordance with Part I E 6 q of the MS4 permit, the following information must be reported in the annual report:

	Annual Report Requirement	Documentation
✓	(1) A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period.	See BMP 6.1.
✓	(2) A summary of any new SWPPPs developed in accordance with Part I E 6 c during the reporting period.	See BMP 6.2.
✓	(3) A summary of any SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities de-listed in accordance with Part 1 E 6 h during the reporting period.	See BMP 6.2.
✓	(4) A summary of any new turf and landscape nutrient management plans developed that includes: • Location and total acreage of each land area. • The date of the approved nutrient management plan.	The Town does not apply nutrients to any contiguous area greater than one acre. As a result, no NMPs have been developed.
✓	(5) A list of training events conducted in accordance with Part I E 6 m, including the following information: • The date of the training event. • The number of employees who attended the training event. • The objective of the training event.	See BMP 6.3.

BMP 6.1 – Good Housekeeping Standard Operating Procedures for Daily Operations

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a confirmation that the SOPs have been reviewed and any necessary changes have been made."

BMPs from MS4 Program Plan	FY23 Activities
Implement operation and maintenance SOPs.	The Town continued to implement its Stormwater Pollution Prevention SOPs.
Prohibit the application of deicing agents containing urea or nutrients.	The Town updated its Stormwater Pollution Prevention SOP for Snow and Deicing Operations in FY19 to prohibit deicing agents containing urea or nutrients.
Annually review, and update if necessary, operation and maintenance SOPs.	The Town reviewed its Stormwater Pollution Prevention SOPs during FY23. No changes were required.
Incorporate SOPs into employee training.	The Stormwater Pollution Prevention SOPs were the focus of training conducted in FY22.

BMP 6.2 – Stormwater Pollution Prevention Plans for High-Priority Facilities

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report: (1) confirmation that the SWPPP is being implemented, including a sample completed site inspection checklist; (2) confirmation of the review of high-priority sites; and, (3) a description of any changes to the SWPPP or any new SWPPPs."

BMPs from MS4 Program Plan	FY23 Activities
Implement Northside Property Yard SWPPP.	The Town continued to implement the Northside Property Yard SWPPP. See Appendix F for completed semi-annual inspection checklists.
Review, and update as needed, the Northside Property Yard SWPPP.	The Northside Property Yard SWPPP was updated in FY21.
Review high-priority sites and develop new SWPPPs, if necessary.	Based on a review of activities, the Town determined that the Nutley Street Maintenance Yard qualified as a high-priority site. A SWPPP was developed in FY21. See Appendix F for completed semi-annual inspection checklists.
Review high-priority sites after incidents and update SWPPPs, if necessary.	No unauthorized discharges or spills occurred that would require a review or modification of the Northside Property Yard or Nutley Street Maintenance Yard SWPPPs. No high-priority facilities are proposed to be de-listed.

BMP 6.3 – Employee Training

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report: (1) the date of each training event; (2) the number of employees attending each training event; and, (3) the objective of each training event."

BMPs from MS4 Program Plan	FY23 Activities
Implement employee training plan with focus on TMDL pollutants of concern.	The Town conducted annual in-person training on August 23 and September 5, 2023. In accordance with the plan, the focus of the training was IDDE recognition and reporting. Sign-in sheets and the training presentation are found in Appendix F. In addition, the Town conducted police spill response refresher training. The training was conducted online and can be found at https://watertech.blob.core.windows.net/vienna-spill-training-2023/index.html. Documentation of completion is found in Appendix F.

BMP 6.4 – Certification for Pesticide and Herbicide Applicators

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report verification that all employees that handle or apply pesticides and herbicides are certified by the Virginia Department of Agriculture and Consumer Services. The Town will retain the training and certification records and report this information in the annual report."

BMPs from MS4 Program Plan	FY23 Activities
Maintain certifications.	Active certifications are listed in Table 7.

Table 7: Summary of Pesticide and Herbicide Certifications

Name	Certification Number	Expiration Date
Jeremy M. Edwards	#81434-G	6/30/2024
Nickolas R. Jester	#132828-T	6-30-2024

BMP 6.5 – Proper State Certification for Erosion and Sediment Control

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "Staff certification will be kept in the department of human resource files and employee supervisor will ensure that certifications remain current."

BMPs from MS4 Program Plan	FY23 Activities
Maintain the required state erosion and sediment control certification.	All Town staff that engage in the review and inspection of erosion and sediment controls are certified in accordance with state law and regulations.
Maintain DEQ certification and approval for stormwater management basic, inspector, plan reviewer, and combined administrator, as applicable.	See BMPs 4.1 and 5.1.

BMP 6.6 – Contractor Oversight Procedures

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report verification that the contract language is being implemented."

BMPs from MS4 Program Plan	FY23 Activities
Implement contract language that contractors will abide by all SOPs.	The Town continues to include language in all contracts requiring contractors to be in full compliance with applicable licensing and certification requirements as well as the Town's pollution prevention SOPs.

BMP 6.7 – Street Sweeping

The MS4 Program Plan establishes the following measurable goals and evaluation criteria: "The Town will include in each annual report a summary of street sweeping activities and an estimate of the amount of material collected and prevented from entering the storm drain system."

BMPs from MS4 Program Plan	FY23 Activities
Operate street sweeping program.	The Town swept 6.4 curb miles (~3.2 centerline miles) at four or more passes during FY23.

4 MS4 Program Plan Assessment

The MS4 Program Plan was updated in April 2019 to address the requirements of the current MS4 permit. DPW continues to be responsible for overall stormwater planning, operations, and the administration of the Town's MS4 permit.

In accordance with the MS4 permit, the Town has evaluated the MS4 Program Plan, including a review of each MCM. The Town finds that the BMPs established to implement the MCMs are effective and that no changes are required at this time.

5 TMDL Action Plans

In accordance with Part I D 4 and 5 of the MS4 permit, the following provides an update on the status of the Town's Chesapeake Bay TMDL Action Plan, PCB TMDL Action Plan, Benthic TMDL Action Plan for Difficult Run and Accotink Creek, Bacteria TMDL Action Plan for Difficult Run and Accotink Creek, and Chloride TMDL Action Plan for Accotink Creek.

5.1 Chesapeake Bay TMDL Action Plan

The Town submitted a final Phase II Chesapeake Bay TMDL Action Plan to DEQ dated October 31, 2019.

Status of Means and Methods

The following table summarizes progress made by the Town toward implementation of the plan during the period of July 1, 2022 through June 30, 2023. Documentation of completed reductions during this time period is contained in Appendix G.

Table 8: Summary of Chesapeake Bay TMDL Action Plan Implementation

		Final Phase II Action Plan Planned Reductions			Cumulative Reductions Achieved Through FY23		
Means and Methods	**Status Narrative**	**TN (lbs/yr)**	**TP (lbs/yr)**	**TSS (lbs/yr)**	**TN (lbs/yr)**	**TP (lbs/yr)**	**TSS (lbs/yr)**
Redevelopment	No additional redevelopment projects occurred that resulted in creditable reductions during FY23.	64.77	10.29	4,979.36	98.90	15.95	8.832.39
Shared Credit Projects	Under the MOU with Fairfax County, the Town receives 3.5% credit of any project funded by the County's Stormwater Service District Fee. This is regardless of the project's location in Vienna, Herndon, or Fairfax County. Shared credit projects completed in FY22 are found in Appendix G.	1,862.58	461.19	164,142.90	2,319.34	610.72	211,104.18
Street Sweeping	The Town swept 6.4 curb miles (3.2 centerline miles) at four or more passes during FY23 using a vacuum assisted sweeper. This is an increase from last year. See Appendix G for calculations.	0.00	0.00	0.00	0.00	0.12	166.40
Purchased Off-	No off-site nutrient credits have been	0.00	0.00	0.00	0.00	0.00	0.00

		Final Phase II Action Plan Planned Reductions			Cumulative Reductions Achieved Through FY23		
Means and Methods	**Status Narrative**	**TN (lbs/yr)**	**TP (lbs/yr)**	**TSS (lbs/yr)**	**TN (lbs/yr)**	**TP (lbs/yr)**	**TSS (lbs/yr)**
Site Nutrient Credits	purchased by the Town to-date.						
More Stringent Single Family Residential Development	The Town takes credit for pollutant reductions achieved as a result of more stringent regulation of single family residential development than what is required under the VSMP regulations. Reductions achieved between July 1, 2022 and June 30, 2023 are documented in Appendix G. These include reductions from structural facilities and purchased credit.	146.43	17.16	0.00	336.08	42.16	0.00
Additional Means and Methods	No additional means and methods have been implemented by the Town to-date.	0.00	0.00	0.00	0.00	0.00	0.00
Total		**2,073.78**	**488.63**	**169,122.26**	**2,754.32**	**668.95**	**220,102.98**

Pollutant	**Required Reductions (40% Reduction + Offsets)**	**Planned Reductions from Final Phase II Action Plan**	**Total Reductions Achieved Through FY23**
Total Nitrogen	948.40	2,073.78	2,754.32
Total Phosphorus	113.93	488.63	668.95
Total Suspended Sediment	91,356.79	169,122.26	220,102.98

Means and Methods Planned for FY2024

The Town will submit the draft Phase III Chesapeake Bay TMDL Action Plan along with the registration statement for continued MS4 permit coverage no later than October 1, 2023. The draft Phase III plan will include means and methods planned for FY2024. New reductions will continue to come from redevelopment, more stringent development, and continued shared-credit projects with Fairfax County. The Town is in various stages of design for three stream restoration projects – Bear Branch/Southside Park, Bear Branch Tributary Phase II, and Hunters Branch Phase II. Funding is a combination of Fairfax County cost-share and SLAF grants. As a result, credit will be reflected in shared-credit projects. A combination traffic calming/bioretention project at the intersection of Tapawingo Road and Kingsley Road is set to begin construction in FY2024.

5.2 Bacteria TMDL Action Plan for Difficult Run and Accotink Creek

The following table summarizes progress made by the Town to implement the Bacteria TMDL Action Plan for Difficult Run and Accotink Creek. All actions have been integrated into the MS4 Program Plan and are addressed in Section 3 of this annual report.

Table 9: Summary of Bacteria TMDL Action Plan Implementation

Element	Description	Implementation Mechanism and Schedule	FY23 Update
Restaurant Education	The MS4 Program Plan (BMP 1.6) includes education of restaurants on preventing illicit discharges of bacteria to the MS4.	Information to restaurants, including bacteria prevention, was sent during FY22.	Completed. See BMP 1.6.
Signage at Medium Risk and Priority Sites	The MS4 Program Plan (BMP 1.5) includes the installation of signage at medium risk sites (as well as any priority sites that were not first identified as medium risk sites) to encourage pet walkers to clean up pet waste and to alert them of the fines that may be imposed for non-compliance.	Initial signage was installed in FY18. Signage was added at the Town Green in FY20. The Town will install additional signage within one year of the identification of a property as medium risk or a priority site.	Signage continues to be maintained.
Pet Waste Stations at Priority Sites	The MS4 Program Plan (BMP 1.5) includes installing pet waste stations at priority sites to provide a convenient place to dispose of pet waste in areas where concentrated levels of pet waste are expected or observed.	The Town will install pet waste stations within one year of the identification of a property as a priority site. Five new stations were installed in FY20.	Stations continue to be maintained.
Annual Site Assessment	The MS4 Program Plan (BMP 3.6) includes conducting an annual walk through of medium	Assessments occur annually, between April 1 and June 30.	See BMP 3.6 for FY23 results.

Element	Description	Implementation Mechanism and Schedule	FY23 Update
	risk and any future priority sites. The walk through is used to determine whether medium risk sites should be re-classified as priority sites and to assess the effectiveness of implemented management strategies.		

5.3 Sediment TMDL Action Plan for Difficult Run and Accotink Creek

The following table summarizes progress made by the Town to implement the Sediment TMDL Action Plan for Difficult Run and Accotink Creek. All actions have been integrated into the MS4 Program Plan and are addressed in Section 3 of this annual report.

Table 10: Summary of Sediment TMDL Action Plan Implementation

Implementation Item	Description	Schedule and Milestones	FY23 Update
MS4 Program Plan	The MS4 Program Plan was updated to reflect the actions of the Sediment TMDL Action Plan.	See MS4 Program Plan for implementation schedule.	Completed.
Chesapeake Bay TMDL Action Plan	The Town will continue to implement the final Phase II Chesapeake Bay TMDL Action Plan, including actions to reduce sediment.	See Chesapeake Bay TMDL Action Plan for implementation schedule. Document additional sediment reductions in annual reports.	Total and FY23 sediment reductions by watershed are presented in Table 11 and Table 12.
Town Owned Property: Northside Property Yard SWPPP	The Town will continue to implement the Northside Property Yard SWPPP and will implement the recommendations	Review and update the SWPPP in FY2021 in accordance with the MS4 Program Plan. Provide updates on CIP	The Town updated the SWPPP in FY21. The Town has implemented several improvements. The Town installed a dewatering pit for street sweeper spoils (see photo). Excess water is pumped to the adjacent sanitary sewer manhole. The Town has installed bin blocks for better stockpile containment.

Implementation Item	Description	Schedule and Milestones	FY23 Update
	of the Northside Property Yard Stormwater Design Improvements Conceptual Report.	improvements in the MS4 annual report.	
Town Owned Property: Sports Fields	The Town will continue to annually assess the condition of Waters and Caffi fields and take corrective action, if necessary, to ensure that they are not a source of sediment pollution. Beginning FY2021, Meadows Lane Park and Southside Park will be added to the annual assessment schedule.	Assessments occur annually, between April 1 and June 30.	See BMP 3.6 for FY23 results.
Town Owned Property: Nutley Street Maintenance Yard	The Town will develop a SWPPP for the Nutley Street Maintenance Yard.	Complete no later than December 31, 2020 and include in the subsequent MS4 annual report.	The Town completed the SWPPP in FY21.
Town Owned Property: Beulah Road Lot	The Town will incorporate the Beulah Road Lot into the Northside Property Yard SWPPP.	Complete with the scheduled review and update of the SWPPP in FY2021 in accordance with the MS4 Program Plan.	Completed, see above.

Implementation Item	Description	Schedule and Milestones	FY23 Update
Stormwater Pollution Prevention Public Education and Outreach Plan	The Town will continue to implement the Stormwater Pollution Prevention Public Education Plan, including elements related to sediment. The implementation schedule has been integrated into the MS4 Program Plan.	See MS4 Program Plan for implementation schedule.	Completed.

Table 11: Summary of Sediment Reductions for Accotink Creek

Means and Methods	Status	FY23 Reductions	Cumulative Reductions
Redevelopment	No additional redevelopment projects were in Accotink Creek.	0.00	1,427.17
Shared Credit Projects – Retrofits	One additional structural retrofit (Nutley Pond) was in Accotink Creek.	6,144.12	13,316.85
Shared Credit Projects – Stream Restoration	One new stream restoration project was in Accotink Creek (Rolling Creek Way).	9,810.75	391,547.54
Total		**15,954.87**	**406,291.56**

Table 12: Summary of Sediment Reductions for Difficult Run

Means and Methods	Status	FY23 Reductions	Cumulative Reductions
Redevelopment	No additional redevelopment projects were in Difficult Run.	0.00	7,405.23
Shared Credit Projects – Retrofits	No additional structural retrofits were in Difficult Run.	0.00	22,637.25
Shared Credit Projects – Stream Restoration	One new stream restoration project was in Difficult Run (Piney Run at Lake Wereowance).	84,836.29	1,057,240.22
Total		**84,836.29**	**1,087,282.70**

5.4 PCB TMDL Action Plan Implementation

The following table summarizes progress made by the Town to implement the PCB TMDL Action Plan. All actions have been integrated into the MS4 Program Plan and are addressed in Section 3 of this annual report.

Table 13: Summary of PCB TMDL Action Plan Implementation

Implementation Item	Description	Schedule and Milestones	FY23 Update
Education and Training	BMP 6.3 of the MS4 Program Plan provides that training material will include information relevant to PCB discharges.	Training in FY19, FY21, and FY23.	Training was completed in FY23. See training presentation in Appendix F for specific reference to PCBs.

5.5 Chloride TMDL Action Plan Implementation

The Chloride TMDL Action Plan was adopted in FY21, with implementation reporting beginning in FY22. The following tables include actionable strategies from the plan. Table 14 shows the status of the "Fundamental 5 Priorities." The goal of the plan is to implement the "Fundamental 5 Priorities" during the current permit cycle. Table 15 shows education and outreach strategies.

Table 14: Summary of Chloride TMDL Action Plan – Fundamental 5 Priorities

BMP	Description	Status from Plan	Follow Up Needed	FY23 Update
Winter Operations Planning	Develop a winter maintenance plan.	Partially implemented.	Review SOP against SaMS Winter Maintenance Plan and revise as needed.	In process of review. Completion expected FY24.
	Plan snowplow routes.	Implemented.	None. Primary streets are cleared first, followed by secondary, and then neighborhood streets.	Completed.
Levels of Service	Communicate LOS internally.	Review.	Define the Town's LOS and expectations.	In process of defining. Completion expected FY24
	Communicate LOW externally.	Review.	Communicate LOS to elected officials and Town residents.	Completion expected FY24.
Training	Training program.	Implemented.	Document and refine training program based on other BMPs.	Under development. Completion expected FY24.
Calibration	Establish calibration procedures.	Implemented.	Document calibration process to ensure consistency.	Under development. Completion expected FY24.
	Calibrate equipment.	Implemented.	None.	Completed.
Measurement	Measure and record deicer use.	Review	Utilize a standard process to measure and record annual deicer use over time.	Completed. See forms in Appendix G.

Table 15: Summary of Chloride TMDL Action Plan – Outreach Strategies

Audience	Strategy	Timeline	FY23 Update
Single Family Residential	Distribute message on proper use of deicing/anti-icing materials through one of the following: (1) press release; (2) Vienna Voice; (3) Town Calendar; (4) water bill	Annually (ideally immediately before winter months).	The November 2022 Vienna Voice included an article on smart salt use. See Appendix G.
Single Family Residential	Distribute deicing/anti-icing message using a social media platform.	Annually (ideally immediately before winter months).	Posted on social media December 14, 2022 and January 4 and 24, 2023. See Appendix G.
HOA/Condominium Associations	Distribute deicing/anti-icing fact sheet to HOA/condominium associations.	One during permit cycle (FY22 or FY23).	Post card developed and distributed in FY23. See Appendix G for post card and distribution list.
HOA/Condominium Associations	Develop presentation on proper deicing/anti-icing techniques for use at HOA/condominium association meetings.	Beginning FY22.	This BMP was delayed and will occur in FY24.
Commercial/ Institutional	Distribute deicing/anti-icing fact sheet to commercial/ institutional property owners.	Once during permit cycle (FY22 or FY23).	This BMP was delayed and will occur in FY24.

APPENDIX A

Public Education and Outreach (MCM #1)

Social Media Posts

- Fertilizers
- Illicit Discharges
- Dog Waste

2023 Water Quality Report

Clean Water Partners Program 2023 Summary

Vienna Voice

- Proper Lawn Care (June 2023)
- Keep Our Storm Drains and Streams Clean (September 2022)
- Town Clean Up Day (April 2023)
- BMP Maintenance Reports Due (January 2023)

Town Calendar – Stormwater Protection and Other Pollution Prevention Efforts

Town Business Matters

- Stormwater Impacts and Business – Dumpster Management and Fats, Oils, and Grease

Town of Vienna FY23 Social Media Posts

Fertilizer Messages

Illicit Discharge Messages

Town of Vienna, VA - Government
22h ·

Hey Vienna! Did you know that you can help protect local waterways? All you have to do is keep an eye out for pollution like illegal dumping, contamination or sewer breaks. If you notice anything unusual with the storm drain system near you, just call the Department of Public Works at 703-255-6380. It's that simple! To learn more, visit https://bit.ly/tovstormwater.

1

Like Comment Share

Town of Vienna, VA - Government
September 27, 2022 ·

#greentipoftheweek There's no smoke and mirrors here! Cigarette butts left out on the ground can leach nicotine, heavy metals, and microplastics into soil and water, disrupting the environment. If you smoke, please carry a pocket ashtray. Please sweep up cigarette butts, don't wash or blow them into gutters and storm drains. Let's keep Vienna clean!

11 1 comment 1 share

Town of Vienna, VA - Government
June 13 ·

#greentipoftheweek Cigarette butts are the most common form of litter in our waterways and oceans. They're long-lasting and toxic. If you smoke, don't flick your butt outdoors. Instead, please place it in a proper receptacle or purchase a pocket ashtray. #SustainableViennaVa

5 1 comment

Bacteria Messages

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://bit.ly/tovscoop.

2 5 shares

Like Comment Share

Town of Vienna, VA - Government
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.

4 1 comment

Like Comment Share

Other Messages

Town of Vienna, VA - Government
March 25 ·

It was all smiles as fishermen took to the streambanks and put their skills to the test at today's Fishing Rodeo! The rain couldn't stop them—just look at everyone in action! Special thanks to volunteers from the Northern Virginia Chapter of Trout Unlimited and to Navy Federal Credit Union for sponsoring this beloved Town tradition.

91 4 comments 2 shares

Town of Vienna, VA - Government
April 11 ·

#greentipoftheweek Take advantage of April showers with rain barrels. Placed under your home's downspouts, they will reduce polluting runoff from your property and capture naturally soft water that your plants will find tastier than treated tap water from a hose.
#SustainableViennaVa

10

TOWN OF
VIENNA
Public Works

2023 WATER QUALITY REPORT

GET INVOLVED – PROTECT YOUR WATER SOURCES

A watershed is an area of land that drains to a particular point along a stream or river. The best way to protect the Potomac River from contamination is to help protect the watershed.

Here are several ways to help protect your drinking water supply:

- **Use less fertilizer.** Test your soil before application and follow the manufacturer's instructions.
- **Apply fertilizer in the fall** to help reduce nitrogen and phosphorus runoff or leaching often caused by heavy spring rains.
- **Leave grass clippings on lawn** as a natural fertilizer.
- **Mow grass to proper height** - three inches is recommended.
- **Plant native or well-adapted plants** that are likely to require less water, fertilizer, and pesticides.
- **Flush pet waste** down the toilet or wrap securely and place in trash.
- **Don't pour chemicals down the drain.** Dispose of household chemicals through a hazardous waste recycling program such as the Fairfax County's Household Hazardous Waste Disposal Program.
- **Don't flush unused pharmaceuticals.** Find a drug take-back location or properly dispose of medication in the garbage.
- **Prevent trash and debris** from entering storm drains and catch basins. To report a clogged drain or basin, call 703-255-6380.
- **Report spills** that could potentially enter waterways by calling 703-255-6380. After regular business hours, call the Vienna police non-emergency number at 703-255-6366.
- **For more information** on stormwater management within the Town, visit viennava.gov/stormwater.

GET INVOLVED – BE FERTILIZER SMART

Smart fertilizer application follows a less is more approach. Fertilizers contain nutrients, like phosphorus and nitrogen, which harm the health and water quality of our local streams and the Chesapeake Bay. Plants can only utilize a certain amount of fertilizer, and the excess washes away with the rain into our streams. Proper management of applied fertilizers and pesticides to lawns and landscapes helps prevent nutrient pollution and protect water quality.

Here are some helpful tips to keep in mind.

- Before applying fertilizer, test soil to determine the correct application rate.
- Fall is the best season to fertilize.
- Never apply fertilizer before it rains.
- For more information, please visit **onlyrain.org**

WHAT IS THE HARDNESS OF THE TOWN'S WATER?

Vienna's water can be classified as moderately hard to hard. The historical range on our water hardness is 5 – 10 grains per gallon (80 – 170 mg/L). Hard water is high in dissolved minerals, largely calcium and magnesium. You may have felt the effects of hard water, literally, the last time you washed your hands. Depending on the hardness of your water, after using soap to wash you may have felt like there was a film of residue left on your hands. In hard water, soap reacts with the calcium (which is relatively high in hard water) to form "soap scum". When using hard water, more soap or detergent is needed to get things clean, be it your hands, hair, or your laundry. While hard water is not a health risk. It may, however, be a nuisance causing mineral buildup on fixtures and poor soap and detergent performance. Some people choose to soften their water. Before you soften your water, weigh the benefits of hard water while it can be a valuable source of essential dietary nutrients, like calcium and magnesium. It is less likely to cause pipe corrosion. It often tastes better. Many water softeners operate by adding sodium to the water in exchange for the minerals causing the hardness. This may be a concern for those who must restrict their sodium intake. Consider the options that will work best for you. Additional information on treating water may be found at **nsf.org/testing/water/water-treatment**.

Northern Virginia Clean Water Partners

Annual Summary of Results

July 1, 2022 - June 30, 2023

This summary was produced by Northern Virginia Regional Commission on behalf of the 2023 Clean Water Partners.

nvrc
Northern Virginia Regional Commission

Virginia Coastal Zone
MANAGEMENT PROGRAM

Stormwater Pollution in Northern Virginia

Water bodies in Northern Virginia, including the region's numerous streams, lakes, and rivers, provide a range of environmental, social, and economic benefits to surrounding communities. However, when waterways are polluted and water quality becomes impaired, their key resources are reduced and result in negative impacts to both humans and the natural environment.

Polluted stormwater runoff is the number one cause of poor water quality in Northern Virginia's waterways. When it rains and snows, water runs off streets, driveways, yards and parking lots and mixes with pollutants, such as litter, fertilizer, pet waste, road salt, and auto fluids. These pollutants then enter storm drains on the street and are discharged directly into nearby streams.

To reduce the impacts of stormwater pollution, the Northern Virginia Clean Water Partners joined together to improve residents' knowledge and behaviors through an ongoing public education campaign.

About the Partnership

The Northern Virginia Clean Water Partners (NVCWP) is composed of a group of local governments, drinking water and sanitation authorities, and businesses that share the common goals to keep Northern Virginia residents healthy and safe by reducing the amount of pollution from stormwater runoff that reaches local creeks and rivers, and empower individuals to take action to reduce pollution.

To meet these goals, the partners work together to:

- Identify high priority water quality issues for the region
- Identify the target audience(s) for outreach
- Educate the region's residents on simple ways to reduce pollution around their homes
- Monitor changes in behavior through surveys and other data collection techniques
- Pilot new cost-effective opportunities for public outreach and education

Membership is voluntary and each member makes an annual contribution to fund the program. By working together, the partners are able to leverage their funds to develop and implement a range of bilingual education and outreach strategies throughout Northern Virginia.

"Only rain down the storm drain"
- Partnership Motto

The 2023 campaign helped to satisfy MS4 (Municipal Separate Storm Sewer System) Phase I and Phase II permit requirements for stormwater education and documenting changes in behavior.

For more information visit **onlyrain.org**

2023 Campaign Overview

The Northern Virginia Clean Water Partners identified the following water quality issues to highlight in their 2023 campaign:

- **Nutrients (Phosphorus and Nitrogen)**
- **Bacteria**
- **Salt**
- **Illicit Discharges (e.g., pesticides, motor oil, etc.)**

Target audiences for these issues include pet owners, winter salt applicators, home mechanics, and residents with a lawn or garden. To reach these audiences, the campaign used a combination of social media, television, printed advertising, and the Only Rain website to distribute messaging that would improve stormwater-related knowledge and behaviors. Partners also participated in local events throughout the year to engage residents and raise campaign awareness.

The 2023 campaign also continued to expand outreach and engagement programming with several new social marketing strategies, including:

- Updated infographics to promote pollution-reduction practices
- New social media content, including monthly partner spotlights
- A new campaign video
- An NVCWP Instagram account

Social Media

The NVCWP have continued to use social media as a key tool to engage their campaign's target audiences.

The partners created Facebook and Twitter accounts as a part of their 2020 campaign strategy. Since July 1, 2022, the Facebook page has gained 115 new followers for a total of 518 current followers. During the campaign year, the page had 387 posts, 20,858 post engagements, and 6,987 post link clicks.

The Twitter account currently has 165 followers, with 34 new followers since July 1, 2022. Over the year, the account had 393 tweets, 1,093 tweet engagements, and 116 link clicks.

As a part of the 2023 campaign, the partners also created an Instagram account to further reach the public. Since it was created in December 2022, the Instagram account has gained 140 followers and created 79 posts.

Top reaching Instagram photo in 2023

Video Advertisements

The campaign continued to reach residents through a series of video advertisements that focused on residential stormwater management actions. In 2023, the campaign aired two public service announcements (one in English and one in Spanish) on a combination of 44 English and Spanish language networks for a total of 865,060 impressions, or views.

Key Facts and Figures for 2023

2,256
visits to OnlyRain.org

596
Stormwater Survey responses

1,128
Clean Water Pledges

865,060
premium digital TV impressions*

825,685
total social media impressions*

22,151
engagements with social media posts

**Impressions are the number of times an ad appeared on a single television or computer screen.*

Annual Stormwater Survey

Survey Goal

The Northern Virginia Clean Water Partners conduct an annual online survey of approximately 500 Northern Virginia residents to better understand their stormwater-related knowledge and behaviors over time. Results help the partners to assess their campaign's effectiveness and direct future education and outreach efforts.

Results

Stormwater and Watershed Knowledge

69% of Northern Virginia residents reported that they are familiar with the term "watershed". When asked which watershed they live in, 45% of residents selected that they live within the Potomac River watershed, which represents a 8% increase in this response from 2022. However, only 30% selected that they live in the Chesapeake Bay watershed.

When asked where stormwater eventually ends up, 62% of residents responded that it goes to the Potomac River or Chesapeake Bay, while 46% also selected that it goes to a wastewater treatment plant. Responses to this question have not significantly changed since 2019.

These results indicate that although residents have likely heard of a "watershed", further education is needed to characterize the term in Northern Virginia and explain its relationship to stormwater runoff.

Information and Advertising

Similar to 2022, 34% of residents reported that they have seen or received at least some form of information about reducing water pollution in the past 12 months. Notably, there was a 9% increase (24% in 2022 versus 33% in 2023) in those that had heard of specific opportunities to participate in water quality improvement activities, such as stream clean ups or storm drain stenciling.

42% of survey respondents indicated that they were familiar with the NVCWP prior to the survey. 74% selected that they trust information from the campaign, and 71% would contact the NVCWP if they had questions about water quality.

When shown the "only rain down the storm drain" fish logo, 61% of residents reported seeing the logo prior to the survey. Although this represents a 5% decrease in those that recognize the logo from 2022, responses to this question have remained above 60% since 2019.

Campaign Impact

Residents who have viewed at least one NVCWP ad were asked a series of questions about the impact of the ads, including ways that their behaviors have changed since they first saw the ads. Over 70% of respondents reported that they now have a greater understanding of pet waste, fertilizer, and motor oil impacts on local water quality. 43% of residents stated that they pick up pet waste more often, 50% plan to fertilize less frequently, and 48% now also properly dispose of motor oil. However, over 50% of residents also reported that they were already taking some action to reduce water pollution. These results indicate that NVCWP advertisements likely reinforce positive behaviors in many residents while providing new information to a smaller percentage of ad viewers.

Resident Behaviors

The survey asked specific questions to understand changes in Northern Virginia residents' behaviors around relevant stormwater management and pollution issues, including pet waste, lawn and garden care, car fluids, and household hazardous waste.

In 2023, 51% of residents reported owning at least one dog. Of those that walk their dog, 89% stated that they always or usually pick up their dog's waste during walks, while 3% rarely or never pick up the waste. In comparison, only 61% of residents reported picking up their pet's waste on a daily basis in their own yard.

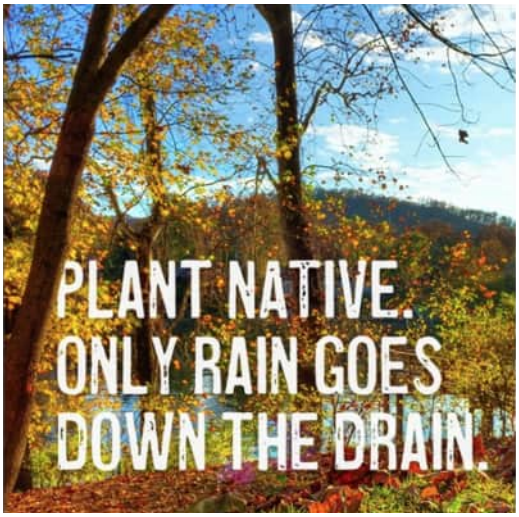
When asked why they pick up their dog's waste, 25% of residents responded that their actions where due to city or county ordinances, and 20% selected that they “don’t want to step in it”. Similar to 2022 (17%), only 15% of residents noted picking up their pet's waste because it causes water pollution.

As in previous years, Northern Virginia residents continue to clean up after their pet for a variety of reasons unrelated to local water quality. As such, future messaging could aim to encourage homeowners to pick up waste in their own yard and further describe the connection between dog waste and water quality impacts.

When asked about reporting potential water pollution, 57% of residents reported knowing who to contact, and nearly two-thirds (63%) stated that they would probably or definitely contact someone to report a potential source of water pollution. Of those who were equally likely to call and not to call as well as those who reported that they would not call, 32% selected their reason being that they would prefer not to communicate with officials or authorities, while 23% selected that "it’s none of my business".

Two-thirds (66%) of residents with a lawn or garden stated that they use a lawn care service at least once a year. Notably, 71% of residents with a lawn or garden reported using fertilizer at least once a year. Similar to 2022, 26% of residents most frequently fertilize twice a year, while 13% never fertilize their lawn.

For those that cut their own grass, 29% of residents keep their grass clippings on their lawn or garden. 56% choose to bag their clippings and either recycle them (32%) or put them in the regular trash (24%).



If grass clippings ended up in the street, only 53% reported sweeping or blowing them back into their lawn, instead choosing to leave them in the street (20%) or to sweep them into the storm drain (15%). These results indicate a need for further outreach to encourage residents to leave clippings or sweep them back into their yard after mowing.

As in 2022, respondents were provided descriptions of a rain barrel, rain garden, and conservation landscaping and asked whether they have heard of these stormwater management features and would be interested in getting one for their property. Compared to prior years, there was a significant increase in residents that not only reported having a feature on their property, but also in those that were familiar and/or interested in installing the features.

In particular, residents are most familiar with rain barrels, and 45% reported an interest in obtaining one for their property. 28% also reported already owning at least one. Over 40% of residents were also interested in installing a rain garden or some form of conservation landscaping on their property.

With growing awareness of their benefits to water quality and conservation, the Clean Water Partners will continue to highlight opportunities and resources for installation and maintenance of stormwater management features, including regional workshops and other education events, throughout the year.

61% of residents reported knowing if their locality has a specific drop-off location for household hazardous waste (HHW). This response represents a slight decrease from 2022 (67%), indicating the need for new tools and resources, such as online maps and fact sheets, to more specifically point out HHW sites across local jurisdictions.

Similar to 2022, the majority of residents who own a car reported going to an auto center for an oil change (70%) or taking their old motor oil to a gas station or hazmat facility for recycling (17%). In addition, approximately 13% of residents continue to store their used motor oil in their garage, place it in the trash, or dump it down the storm drain, sink or onto the ground.

63% of residents reported taking their vehicle to a commercial car wash, while only 21% reported washing their vehicle at home. This represents a significant change in responses from prior years, in which 43% of residents washed their vehicle at home and 36% used a commercial car wash in 2022.

For those that wash their cars or trucks at home, nearly a quarter of residents (26%) most frequently wash their vehicle three to four times a year, although 17% wash their vehicle at home more than 12 times a year. To wash their vehicle, the majority of residents reported using environmentally-friendly detergent (60%) or only water (29%), and 53% wash on pervious surfaces, including grass, gravel, and/or dirt.

These results highlight an increase in water-conscious decisions that residents are making for their automobile care. Future campaign messaging can continue to reinforce these behaviors, including further promotion of commercial car washes to reduce runoff of cleaning detergents.

2024 Campaign Goals

Through a combination of social media, TV advertisements, the Only Rain website, and other regional activities, the 2023 Northern Virginia Clean Water Partners campaign strived to engage Northern Virginia residents around a number of priority stormwater runoff and pollution topics. In particular, new social media platforms, such Instagram, and messaging strategies helped the campaign to reach new audiences and further advance the campaign's education and outreach goals.

The 2024 campaign will continue to diversify and implement new strategies to most effectively reach Northern Virginia residents and improve their stormwater-related knowledge and behaviors. The next campaign year will include:

- A new campaign video
- New and updated website resources
- Engaging social media content, including "Wednesday Water Tips"
- And more!

Northern Virginia Clean Water Partners

2023 SURVEY AT A GLANCE

The Clean Water Partners conduct an annual survey to better understand Northern Virginia residents' stormwater knowledge and behaviors in order to inform future education and outreach efforts.

WATERSHED KNOWLEDGE

45% of residents believe they live in the Potomac River watershed. **31%** were not familiar with the term "watershed" prior to the survey.

STORMWATER RUNOFF

Nearly **2/3** of residents believe that stormwater runoff ends up in the Chesapeake Bay or Potomac River. **46%** of residents think that it goes to a wastewater treatment plant.

AUTOMOBILE BEHAVIORS

63% of vehicle owners go to a commercial car wash at least once a year. Of those that clean their car at home, over **60%** report only using water or environmentally-friendly detergent.

DOG OWNERS

89%

of dog owners report always or usually picking up their pet's waste while on a walk. **15%** pick up the waste because it causes water pollution.

LAWN CARE

3/4

of residents fertilize their lawn or garden at least once a year. **23%** either never fertilize or only fertilize when a soil test recommends it.

CONSERVATION LANDSCAPING

Over **1/2** of residents are familiar with a rain barrel, rain garden, and/or conservation landscaping. Over **40%** report an interest in obtaining one or more for their property.

POLLUTION REPORTS

2/3

of residents would probably or definitely report potential pollution to their town or county.

CWP PROMOTION

61%

of residents recognize the Clean Water Partners logo.

ADVERTISING REACH

About **1/4** of residents have viewed a Clean Water Partners ad. When asked about perceptions of the ads, over **75%** trust the information conveyed and believe the ads are important.

Prepared by Northern Virginia Regional Commission on behalf of the 2023 Clean Water Partners.

WWW.ONLYRAIN.ORG

Additional Information

Contact: Rebecca Murphy
Coastal Program Manager
rmurphy@novaregion.org
703-642-4625
3040 Williams Drive, Suite #200
Fairfax, VA 22031

Website: www.onlyrain.org

Social Media:

- **Facebook:** facebook.com/NVCWP
- **X (Formerly Twitter):** twitter.com/nova_cwp
- **Instagram :** instagram.com/novacwp

2023 Clean Water Partners:

Fairfax County | Arlington County | Loudoun County | Loudoun Water | Fairfax Water | City of Alexandria | City of Fairfax | City of Falls Church | City of Manassas | City of Manassas Park | Stafford County | Town of Leesburg | Town of Dumfries | Town of Herndon | Town of Vienna | Prince William County | Northern Virginia Regional Commission | George Mason University | Virginia Coastal Zone Management Program | Fairfax County Public Schools | Prince William County Public Schools

VIENNA
VOICE
OFFICIAL NEWSLETTER OF THE TOWN OF VIENNA, VIRGINIA • WWW.VIENNAVA.GOV

JUNE
2023

Independence Day Fireworks Scheduled for July 2

Celebrate the nation's 247th birthday early with the Town of Vienna fireworks display on Sunday, July 2, 2023, at Yeonas Park. Festivities including live music, children's entertainment, games and other family fun begin at 4 p.m., and a 20-minute fireworks display will begin at 9:30 p.m.

"While July 2 is not our preferred date, we are excited to contract with Garden State Fireworks to provide the fireworks display for the Town's Independence Day Celebration," said Vienna Parks and Recreation Director Leslie Herman. "After our show is over, the company will head to Washington D.C. to finalize details for the national fireworks display on July 4."

Due to a shortage of licensed pyrotechnicians to meet the demand for 4th of July events, communities nationwide are opting to reschedule their celebrations rather than cancel them altogether. If you plan to attend the Vienna celebration, you may want to bring lawn chairs or a picnic blanket. You can also purchase food and beverages from the Vienna Little League concession stand or local food trucks, or you can bring your own snacks. No alcohol, glass containers, sparklers/fireworks or dogs are permitted. Lawn chairs are not permitted on the baseball fields but may be used anywhere else in the park.

For safety reasons, the fireworks display will be launched from nearby Southside Park and will be visible from Yeonas Park. For more information about the festivities and nearby street closures, visit **www.viennava.gov/fireworks**.

IN THIS ISSUE

The Dos and Don'ts of Lawn Fertilization

Most people love a lush, green lawn, and by being mindful of when to apply fertilizer, you can get the desired result and respect the environment, too! Fertilizing too early encourages leaf growth at the expense of root development. It also feeds the weeds and can lead to disease and insect problems later in the season.

If you must fertilize early, limit it to a light feeding (half-pound of 10-10-10 per 1000 sq. ft.) after the initial flush of growth has subsided in May or early June. A recycling alternative is to mulch mow your grass clippings and leave them on the lawn. Mulched grass clippings left on the lawn will contribute a substantial amount of nitrogen and other nutrients to the soil, reduce fertilizer requirements, and help restrict weed growth.

Town Council Adopts FY2024 Budget

This time next month, the Town of Vienna will be operating under a new balanced budget. The Vienna Town Council adopted the $50-million spending plan at its regular meeting on Monday, May 15, 2023. Mayor pro tem Ed Somers presided at the meeting while Mayor Linda Colbert participated remotely. The vote ended a months-long budget process in which the Council reduced the tax rate beyond the Town manager's original proposal to mitigate the financial burden on taxpayers stemming from large increases in real estate assessments without compromising service. The adopted budget reduces the property tax rate by one cent to 19.5 cents per $100 of assessed value.

"A one-cent decrease in the property tax rate amounts to $673,000 in revenue," said finance director Marion Serfass. "It is not quite enough to equalize the 2024 tax bill to last year, but the average annual increase in homeowner property tax is $86. Some increases will be less, some will be more depending on the value of the home."

The FY2024 budget also funds compensation increases for eligible employees, addresses inflationary increases in operating costs, and adds two personnel positions identified as priorities – a senior planning and zoning compliance officer and a public works civil and capital projects engineer.

The adopted budget also includes a 9.3 percent increase in water and sewer bills due to increases in operational costs from the Town's service providers - Fairfax Water and the District of Columbia Water and Sewer Authority. The result is an average annual water service increase of $81.

The FY2024 Town Budget takes effect July 1, 2023. The adopted budget will be posted online at **www.viennava.gov/budget**.

Annex Study Update

The big question facing the Annex property is, what's next? After gathering input from elected officials, Town staff, and community members via a survey and community workshops, four options for the Annex's next steps were presented at a Town Council conference session in May.

The options include keeping the whole building and spending the necessary funds to bring it to compliance with the Town's building code, keeping part of the building, demolishing the building, and consider programming for a "flat site" without a key building, or demolishing the building and starting fresh.

The Town Council is expected to provide direction on next steps at the Monday, June 5 Council meeting at 8 p.m. at Vienna Town Hall. The Annex is also expected to be a discussion topic at the Monday, June 12 Council conference session at 7 p.m. in the Vienna Police Department Community Room. To learn more, visit **www.viennava.gov/annexstudy**.

VIENNA
VOICE
OFFICIAL NEWSLETTER OF THE TOWN OF VIENNA, VIRGINIA • WWW.VIENNAVA.GOV

SEPTEMBER
2022

Prost to Oktoberfest!

Gear up for a day of cheers, or prost as the Germans say, at Vienna's Oktoberfest, Saturday, Oct. 1 from 11 a.m. to 7 p.m. on historic Church Street! (Dirndl dress and lederhosen are optional.)

This festive, town tradition features live entertainment on three different stages and lots of free, family-friendly games and activities. You'll also find two beer and wine gardens, and many multinational food vendors including traditional German fare. And if that's not enough, you can feast your eyes on a car show, business expo and handcrafter booths.

All ages are welcome, and admission is free. Oktoberfest is presented by the Vienna Business Association in partnership with the Town of Vienna. For event details, visit **www.viennaoktoberfest.org**.





Vienna's 2022 Oktoberfest
Saturday, Oct. 1
11 a.m. to 7 p.m.
Church Street

IN THIS ISSUE

Help Keep Our Storm Drains and Streams Clean

By: The Conservation and Sustainability Commission

The Conservation and Sustainability Commission talked with Alan Chen, Water Resource Engineer, with the Town of Vienna's Department of Public Works.

What are Vienna's residents likely to misunderstand about our storm drains?

I think many residents think stormwater is treated before discharging to our streams, which is not the case. Stormwater runoff is a major contributor to pollution in the Chesapeake Bay. So, it's critical to minimize the pollutants that go into our storm drains.

Where do the Town of Vienna's storm drains discharge?

They drain directly into Piney Branch, Bear Branch, Wolftrap Creek, and Hunters Branch. Each of these streams eventually discharges into the Potomac River and ultimately the Chesapeake Bay.

What pollutants does runoff carry into the town's drains and waterways?

Debris, fertilizer, oil, paint, pesticides, pet waste, sediment, and trash. Some litter may harm wildlife in our streams by spreading pollutants and possibly being ingested by animals. Plus, debris, sediment and litter contribute to inlet clogging, which leads to backups and flooding.

Does the Town of Vienna clean out storm drains?

The DPW routinely inspects each of the Town's storm drain inlets for clogging or structural damage and cleans out any clogs. Residents can call the DPW at 703-255-6380 to report any maintenance issues they notice.

How can Vienna's residents help?

Good environmental practices such as picking up pet waste, minimizing fertilizer and pesticide use, checking your vehicles for any oil discharge, and washing your vehicles at a commercial wash are all beneficial. Take a moment to pick up litter at your curb or remove leaves and mulch from the grate of a surface inlet.

Report any illicit discharges by individuals and businesses to the Town. This includes businesses draining wash water into the storm drains, construction sites utilizing inadequate sediment control measures, vehicles and grease receptacles dripping oil onto pavement, and residents dumping paint down an inlet. Each incident will result in massive ecological damage to our streams. You can make a huge difference by informing the Town so we can quickly clean up the discharge and prevent future illicit discharges.

Stop Sign Enforcement Yields Big Results

Safety was top of mind for Vienna police officers as they stepped up efforts to ticket motorists who failed to come to a complete stop at a stop sign, a stop light or a flashing red light this summer. The four-week-long Stop Sign Enforcement Campaign was in response to a noticeable uptick in stop sign violations throughout town. By the time it was over, police issued citations for 219 stop-sign violations and 74 other traffic violations with a goal of raising awareness and ensuring both motorist and pedestrian safety by avoiding preventable crashes.

The Vienna Police Department plans to conduct similar traffic enforcement campaigns in the future to highlight the importance of obeying traffic laws. Doing so helps ensure safe travels for everyone.

Topic on deck for September: Maud Robinson Trust Sidewalk Initiative

Join Town Manager Mercury Payton and public works staff for an update on the Maud Robinson Sidewalk initiative to make Vienna a walkable community. Tune into the recorded program at 6 p.m. on Tuesday, Sept. 13 on the Town of Vienna Community Network (TVCN) (Cox 27; Verizon 38) or via the Town's YouTube channel @TownofViennaVa.

On Deck with Mercury is a monthly community program that highlights Town initiatives. If you missed last month's episode highlighting the new police department, you can still catch it and previous episodes on the Town YouTube channel: **https://bit.ly/MercuryOnDeck**.

ON DECK
WITH MERCURY
6 P.M.
SEPTEMBER 13
TVCN AND YOUTUBE @TOWNOFVIENNAVA

VIENNA
VOICE
OFFICIAL NEWSLETTER OF THE TOWN OF VIENNA, VIRGINIA • WWW.VIENNAVA.GOV

APRIL
2023

Town Seeks Community Input on Annex Property

How do you think the Town should use the three-acre annex property located at 301 Center St., S? The Town bought the former Faith Baptist Church property in 2020, and it served as a temporary police headquarters while the new Vienna Police Department building was being constructed next door. Now that the police have moved into the new building, a land feasibility and community needs assessment is being conducted to determine long-term plans for the Annex.

"It is important that we understand community perspectives and unmet needs as we chart the course for this site's future," said Vienna Parks and Recreation Director Leslie Herman. "While land experts assess the site features and determine what uses are feasible, residents are encouraged to share their ideas to help inform the Town's decision about the property in the next decade and beyond."

What are your ideas? Share them via our online community perspectives questionnaire, which will be open through May 1, 2023: **https://bit.ly/viennaannex**.

To learn more about the Annex project and future community feedback sessions, visit **www.viennava.gov/AnnexStudy**.

"It is important that we understand community perspectives and unmet needs as we chart the course for this site's future"

IN THIS ISSUE

"Mayor and Chief at Your Service" Encore Presentation

Community members filled the Vienna Police Community Room with public safety at the top of the agenda at the first "Mayor and Chief at Your Service" event of the year Feb. 16. Police Chief Jim Morris provided an update on recent public safety concerns, including a rash of car break-ins and what residents could do to secure their property.

If you couldn't make it to "Mayor and Chief at Your Service" in person, you can still watch it from the comfort of your own home on the Town's YouTube channel: **www.youtube.com/@townofviennava**. It also runs periodically on the Town of Vienna Community Network (TVCN) - Cox Channel 27 and Verizon Channel 38.

Going Green One Small Business at a Time

"Reduce, Reuse, Recycle!" You often here that phrase when someone is encouraging you to go green, but how would the world look if we all lived that mantra, day to day? Mala Persaud, owner of Vienna's Trace: The Zero Waste Store, might have an idea! Learn about her story, how her unique business came to be, and what you can do to cut back on waste in our video series, "What's Your Story?" See it on the Town's YouTube Channel: **https://bit.ly/tracezero**. It also runs periodically on the Town of Vienna Community Network (TVCN) - Cox Channel 27 and Verizon Channel 38.

Do you have an interesting story to tell, or do you know someone else who does? Tell us about it! Send an email to pio@viennava.gov with "What's Your Story" as the subject line.

VIENNA
VOICE
OFFICIAL NEWSLETTER OF THE TOWN OF VIENNA, VIRGINIA • WWW.VIENNAVA.GOV

JANUARY
2023

Passing the Season's First Test

Public Works staff members always brace for impact when snow and ice are in the forecast, and the season's first test came December 15 – a week before the first day of winter! As most people were finishing up holiday cards and making plans for holiday meals and travel, Town of Vienna snow removal crews were in the process of pre-treating roads and planning for the worst-case scenario-icy weather.

"We deployed our brine trucks with newly trained staff aboard, and everything went according to plan," said operations superintendent Jonathan Wooden. "We spent the night monitoring the situation at the Northside Property Yard, and it turned out to be a non-event because the temperature stayed just above freezing, but it was a good opportunity for our new employees to put their training to the test, and there were no surprises."

A community's ability to effectively respond to weather emergencies depends on proper training and prior preparation. Wooden says Public Works crews tuned up snow-removal equipment and reviewed response plans in the fall, and the staff passed the season's first test in December with flying colors! Regardless of whether the forecast calls for snow, ice or a wintry mix, Wooden says Public Works is prepared to work around the clock in 12-hour shifts to address whatever situation winter brings. Residents and businesses can do their part when removing snow from private property by ensuring shoveled snow does not block public streets, sidewalks and rights-of-ways.

For updates on the Town's operating status during inclement weather, check the Town's social media pages @TownofViennaVA, or visit the web: **www.viennava.gov** or tune into the Town Cable Channel, Cox 27 or Verizon 38. You can also sign up for text messages or email notification via Vienna Alerts at **www.viennava.gov/alerts**.

IN THIS ISSUE

Stormwater Reports Due for Homeowners

Newer homes may be beautiful, but they often come with an increase in impervious areas, such as roofs and driveways, that reduces the land's ability to effectively disperse stormwater. The stormwater must go somewhere, and if it isn't managed well, it can cause big problems.

That's why stormwater management facilities, or best management practices (BMPs), are installed with new home construction to control the quality and quantity of stormwater runoff. Common examples of BMPs include infiltration trenches, bioretention rain gardens and planter boxes. For the most part, these systems are worry-free, and proper maintenance helps to extend their life. If not properly managed, BMPs can become overgrown or clogged, leading to failures that can have a negative impact on the surrounding environment.

To ensure proper stormwater management, property owners with BMPs are required to submit certified inspection reports by a qualified professional engineer, architect, or land surveyor licensed in Virginia every five years. These inspections, along with photo documentation, certify that a property's stormwater treatment facilities are in good working order and comply with the approved plan.

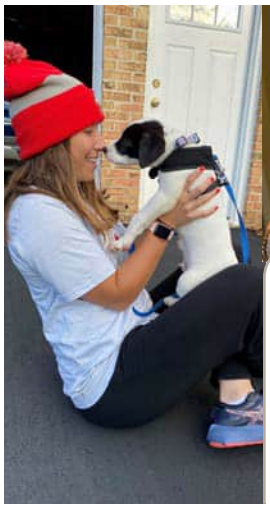
Beginning this year, homes that received new occupancy in 2018, where owners signed a stormwater maintenance agreement, will receive a notice from the Town of Vienna requesting this maintenance report. To see if your property has a BMP, or if you have questions about the maintenance report requirement, call 703-319-8610 or email **SWinspection@viennava.gov**.

Proper maintenance and inspections help achieve the Town's goal of protecting streams and rivers, and ultimately the Chesapeake Bay.

Mayor's Pet of the Month

Love happy endings? So do we! Milo, who bears a striking resemblance to the Peanuts character, Snoopy, got a rough start in life, but thanks to Homeward Trails Animal Rescue, this beagle found a fine foster home with Councilmember Steve Potter and his wife, Toni. Recently, Milo was adopted by the Fitzgerald family right around the corner! Milo is full of love and snuggles, and since both families live so close to one another, they both get to see him grow up here in the Town of Vienna.

Congratulations, Milo! You're the Mayor's Pet of the Month for January!



Nominations
for Mayor's Pet of the Month are accepted on an ongoing basis. To nominate your pet, send an email to **Mayor@viennava.gov** with your pet's name, type of pet (please be specific), a photo of your pet, and three reasons why you think your animal should recognized.

Town of Vienna Calendar 2023

Help Keep Vienna Green!

Seven Reasons to Recycle:

- preserve landfill space
- decrease greenhouse gases
- reduce pollution impact on wildlife habitats
- reduce impact of global warming
- reduce the need for raw materials
- reduce the need for plastic manufacturing
- reduce taxpayer landfill costs

Recycling made easy!

Most recyclable household materials may be placed together in a container and set out alongside your trash bin for weekly curbside pick-up. Plastic bins, clean trash cans, cardboard boxes, or kraft paper bags may be used to collect recyclable materials. Plastic bags are no longer accepted for recycling. The weight limit for curbside containers and their contents is 40 pounds. Stickers or other identification may be used on containers to help differentiate recycling from trash.

Single-stream recyclables include:

- foil and aluminum food and beverage containers
- books, brown paper bags and corrugated boxes
- junk mail, office paper and envelopes
- wrapping paper
- newspapers and inserts
- magazines and catalogs
- milk, juice, broth and soy milk containers
- plastic bottles and plastics labeled 1, 2 or 5

For more information, visit **www.viennava.gov/recycling**.

Glass Recycling

For safety reasons, glass is no longer accepted in curbside bins. Instead, you can take cleaned and rinsed glass bottles and jars to the County's purple bins. Vienna-area locations are:

- Northside Property Yard
  431 Mill Street
- Dunn Loring School
  2334 Gallows Road
- Providence Community Center
  3001 Vaden Drive

Fairfax County recycles glass for use as a substitute for stone in county projects. Alternatively, Vienna residents can put glass bottles and jars in with their regular trash.

Quarterly Recycling Days

Four Saturdays a year, the Town hosts a Quarterly Recycling Day, when the Northside Property Yard, 600 Mill St. NE, accepts hard-to-recycle items such as waste oil, antifreeze, vehicle batteries, computers, scrap metal and most electronics. These dates are noted in this calendar.

Yard Waste

Place yard waste such as grass, leaves, small clippings, acords, walnuts, etc. in a can or kraft paper bags in a can for curbside pickup.

Limits: 20 bags per week; 40 pounds per bag

The Town does not collect dirt, mulch or sod.

Brush and tree debris

The following are picked up on regular trash collection days. Please separate brush and tree debris from other trash.

- Debris diameter limit is 6 inches
- Length is limited to 8 feet
- Place small twigs and branches in a trash can
- Place larger branches loose at the curb
- Live Christmas trees (please remove all decorations before placing tree curbside)

Trash Only

The following items are not recyclable and should be placed in a container with other trash:

- broken or sharp glass, mirrors, and incandescent, halogen or led light bulbs
- ceramic materials
- cloth or clothing
- engine blocks
- fast-food packaging and plastic utensils
- plastic bags and polystyrene containers
- pins, needles or medical waste
- hoses
- shower curtains, kiddie pools and plastic toys

Hazardous Materials

Household hazardous waste such as paint, oil, solvents, insecticides, batteries, fluorescent bulbs, chemical cleaners and fuel tanks require special treatment for health and environmental reasons. For proper disposal, please take them to the Fairfax County Transfer Station, 4618 West Ox Road, Fairfax.

If you have questions about trash or recycling service, please call the Department of Public Works at 703-255-6380.

Protect Local Water Sources

Town of Vienna storm drains directly connect to local streams and ultimately to the Chesapeake Bay. Because these water sources support life, our storm drains should involve only stormwater runoff. Town storm drains display No Dumping markers, and some are painted with earth-friendly reminders to highlight the Town's efforts to protect our municipal storm sewer system from any hazardous discharges. For human and wildlife safety, please report any potential illicit discharges such as oil, fertilizer, lawn clippings, paint, gasoline or other household hazardous waste to the Department of Public Works, 703-255-6380 or **DPW@viennava.gov**.

Pet Waste Disposal: When pet waste is left on lawns or on streets, it can wash into nearby streams or be carried by runoff into storm drains. Bacteria in pet waste is harmful to local water quality and is a potential health hazard. Vienna's "pooper scooper" ordinance requires dog owners to clean up after their pets when out for a walk and put the waste in their regular trash.

FY23 Town Business Matters Article

You can help Vienna stay safe and healthy this fall.

The Department of Public Works is sharing some ways you can prevent pollution to keep Vienna a safe, attractive, and healthy town in which to live and work.

Dumpster Management

Many businesses have dumpsters, compactors, or refuse bins outside containing waste, equipment, or bulk materials. These commercial refuse containers may be a major source of stormwater pollution if they are not properly operated and maintained. Rain may wash leaking materials, spills, and trash from dumpsters and compactors into storm drains. Please ensure all waste is kept in a covered area or ensure covers on each receptacle are closed.

Fats, Oils, and Grease

For food service establishments, fats, oils, and grease are a waste byproduct that can pose a serious threat to public sanitary sewer and storm drain systems resulting in clogged pipes, backups and overflows, and serious environmental and health problems. Please do not pour or scrape any fats, oils, or grease down the storm drain and ensure that employees have easy access to grease bins, which are properly maintained and covered. Clean any spills using dry methods to ensure and schedule for regular grease container cleanout or pickup.

Learn More

APPENDIX B

Public Involvement and Participation (MCM #2)

Stormwater Web Page Snapshot

Summary of Public Involvement Events

- Town Clean Up Day Results
- Eagle Scout Storm Drain Marking Project

Town Council MS4 Permit Presentation

Protecting the Chesapeake Bay

The Town of Vienna is part of the Potomac River watershed and thus the larger Chesapeake Bay watershed.

Rain that falls on the northern and eastern sides of Vienna enters Piney Branch or Wolftrap Creek, both of which flow into Difficult Run, draining into the Potomac River. Rain that falls on the southwestern side of Vienna enters Bear Branch or Hunters Branch. Both flow into Accotink Creek, which also drains into the Potomac River.

At the heart of keeping the Chesapeake Bay clean and protecting the Town's waterways are robust stormwater infrastructure and management initiatives.

Stormwater information and concerns

To report an environmental concern, please email or call 703-255-6380.

To learn more about the Town's stormwater management programs visit the following pages:

- For information about the Town's watershed and flood plains, view the Vienna Watersheds and Flood Plains map.
- Visit for information on Special Flood Hazard Area (SFHA) Floodplain.
- See a map of Town of Vienna Chesapeake Bay Preservation Areas.
- For information about Fairfax County stormwater management, visit the Fairfax County website.
- For information about preventing stormwater runoff pollution, visit the Northern Virginia Clean Water Partners website.

- Learn more about our Salt Management Strategy (SaMS) - Winter Salt Smart is a regional effort to reduce the environmental impacts of winter maintenance practices.

How residents can help

As Town urbanization and street construction increased, a network of inlets, pipes, and outlets was installed to direct rainwater into the nearest local stream. Because this pipe system is not connected to a water treatment facility, it is very important that nothing except rainwater enters the system through inlets located near homes. Residents can report illegal discharges into the stormwater drainage system and illegal dumping into local streams by calling 703-255-6380 or by opening a service request online.

Do not put the following into stormwater inlets:

- fertilizer
- grass
- grease
- leaves
- motor oil
- pet waste
- other debris and materials

Volunteer opportunities

Potomac Watershed Clean-Up Day: Interested in volunteering to help protect our streams and watersheds? The parks and recreation department participates in the annual Potomac Watershed Clean-Up Day held in mid-April and accepts volunteers throughout the year.

Marking Storm Drains: The department of public works accepts volunteers who would like to participate specifically in marking storm drains and provides volunteers with the necessary tools. Volunteering to lead a storm drain labeling project is a great way to give back to the community and help protect our natural world. To volunteer, send an email or call 703-319-8638.

Vienna stream contamination

The Town does its best to safeguard local stream quality, but residents should exercise caution when engaging in recreation in and around these waterways. Using streams for recreational purposes, such as swimming and wading, should be avoided due to the risk of ingesting stream water or possible contamination of open wounds by stream water.

Local streams and parks are among many features that make the Town of Vienna a great hometown. However, any open, unprotected body of water is subject to pollution from illegal dumping, sewer line breaks, pesticide and herbicide contamination from stormwater runoff, and wildlife and domestic animal waste.

Please review the Virginia Department of Health information on tips to safely enjoy natural waters.

Virginia Municipal Separate Storm Sewer Systems (MS4) and Total Maximum Daily Load (TMDL)

Mandated by Congress under the Clean Water Act and implemented in Virginia by the Department of Environmental Quality (DEQ), the purpose of this program is to protect water quality from urban stormwater pollution.

Stormwater runoff in urban areas may contain sediment, fertilizers, pesticides, bacteria, motor oil and other pollutants generated by various land uses and human activities. When left uncontrolled, pollution can impair or destroy fish, wildlife and aquatic life habitats; reduce aesthetic value; and threaten public safety and health.

The Town's stormwater system is operated under a state permit per requirements of 4VAC50-60, "General Virginia Stormwater Management Program (VSMP) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS-4)." The Town originally was issued an MS-4 permit in 2003 (Permit VAR040066). The current, five-year permit expires Oct. 31, 2023.

MS4 Coverage Letter and Permit

MS4 Program Plan

Public Outreach & Education Plan

VSMP MS4 Annual Report FY2022

VSMP MS4 Annual Report FY2021

VSMP MS4 Annual Report FY2020

VSMP MS4 Annual Report FY2019

Final Phase II Chesapeake Bay TMDL Action Plan

Bacteria TMDL Action Plan

Chloride TMDL Action Plan for Accotink Creek

PCB TMDL Action Plan

Sediment TMDL Action Plan

Email the Department of Public Works or call 703-255-6380 for additional information regarding the Town's MS4 program plan, public input or program-related concerns. Send written correspondence to:

Town of Vienna, DPW
127 Center Street S
Vienna, VA 22180

NOV. 5th

Name: Town Clean-Up Day **Date/Time:** ~~August 6, 2022~~, **Time:** 9:00 AM - 12:00 PM EDT

Event Description: Volunteering and helping clean up the Town Green! and other areas in town.

Please provide the:

4 number of full-time Town staff at event

Ø number of part-time Town staff at event

16 combined total number of hours Town staff worked

43 number of volunteers

19 number of adults (18/over)

24 number of children (17/under)

129 combined total number of hours volunteers worked

Ø number of probationers/those assigned to community service

Were any volunteers associated with any community groups or environmental clubs? If so, please list all:

NEVCA

Was any support provided by private sector? Circle Yes or (No)

Was the support provided: Cash, if so, write amount paid or given: _____

In-Kind, if so, write paid or given in goods, commodities, or services provided:

_____

List below supplies and materials distributed for use by volunteers at event?

Please place a check mark ✓ next to items that were promotional and given to volunteers.

Gloves		
Trash Bags		
Safety Vests		
Trash Grabber Sticks		

How was event advertised (circle all that apply)? None Other: _____

Brochures	Emails	(Facebook)	(Newsletters)	Newspapers
Radio	TV	Twitter	(~~Websites~~)	

List the number of bags & size of bags AND/OR weight of litter collected:

12 Bags

Type of litter collected: Paper, Styrofoam, plastic bottles, soda cans,

Locations of litter collection: Town Green, Wildwood Park Tot lot, Glyndon Park, East Creek Southside Park, WOOD Trail

Thank you, and kindly forward any photos of the event to Town PIO by email pio@viennava.gov.

Eagle Scout Service Project Report

BOY SCOUTS OF AMERICA®

Eagle Scout candidate's full legal name Gaurav Shreeram

Eagle Scout Service Project Name Storm Drain Marking on Streets of the "Town of Vienna"

Project start date 05/07/2023 **Project completion date** 06/18/2023

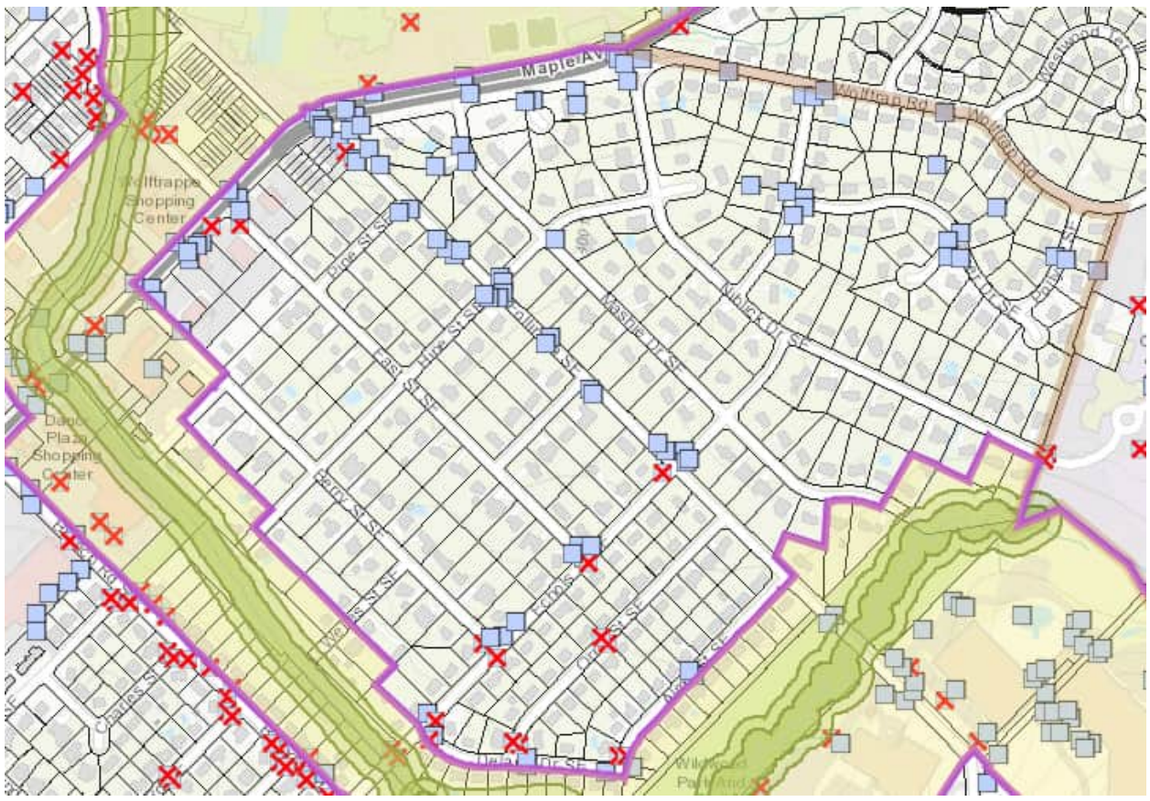
This report is to be prepared after your service project has been concluded. It is not necessary to provide lengthy answers. Be prepared to discuss your project and this report at your board of review.

Watershed: Wolftrap Creek > Difficult Run > Potomac River > Chesapeake Bay

Number of Town-Owned Inlets in Town of Vienna Right-of-Way (ROW): 70

Area is bordered by Maple Ave E, Wolftrap Rd SE, Our Lady of Good Counsel School, and the Wolftrap Creek Resource Management Area (RMA).

Recommended Meeting Spot: Danor Plaza/The Fresh Market or Giant Food Shopping Centers.

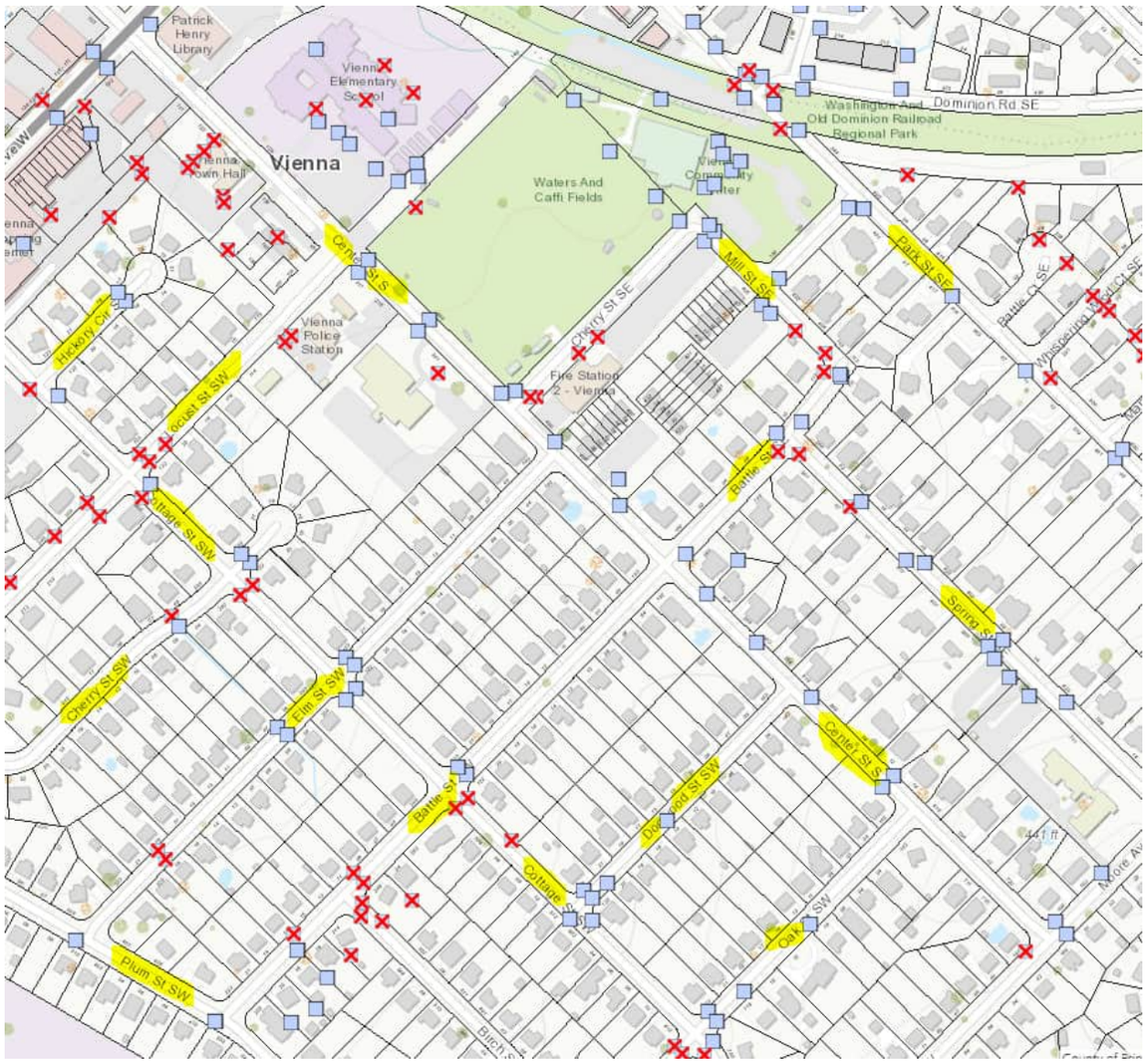


Watershed: Piney Branch > Difficult Run > Potomac River > Chesapeake Bay

Number of Town-Owned Inlets in Town of Vienna Right-of-Way (ROW): 70

Area is bordered by Maple Ave W, W&OD Train. Park St SE, Moore Ave SE & SW, and Cottage St SW.

Recommended Meeting Spot: Vienna Community Center or Vienna Shopping Center.



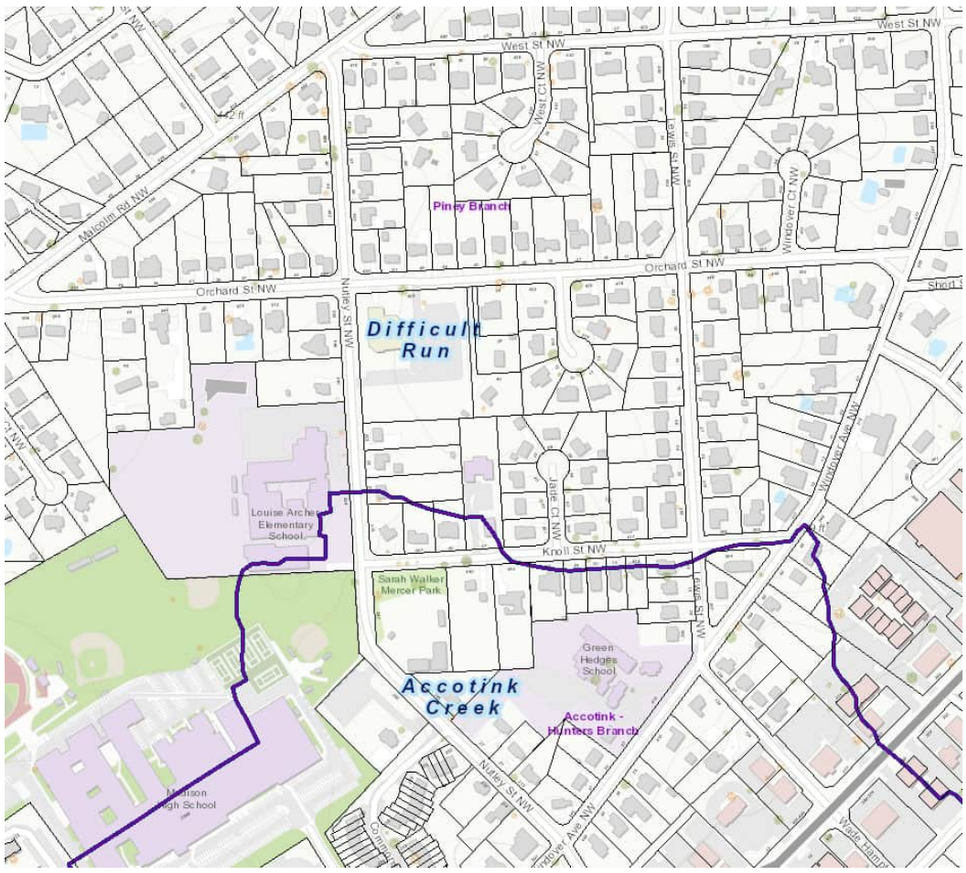
Watersheds: Piney Branch > Difficult Run > Potomac River > Chesapeake Bay

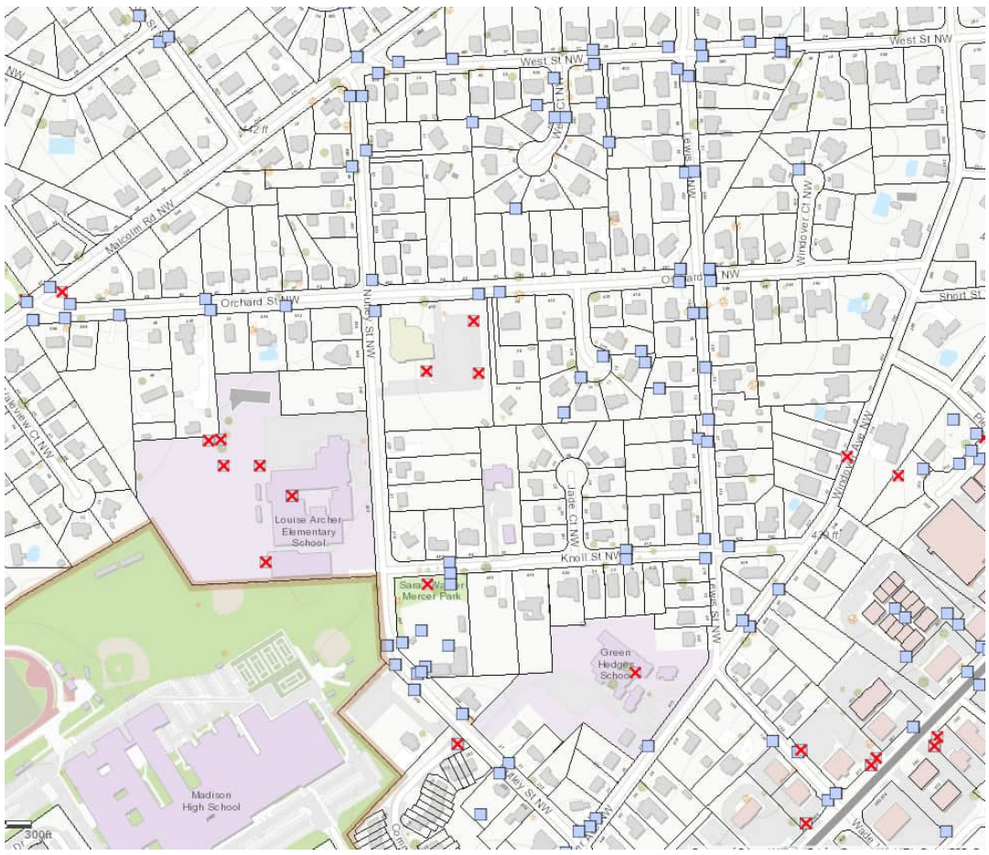
and Hunters Branch > Accotink Creek > Potomac River > Chesapeake Bay

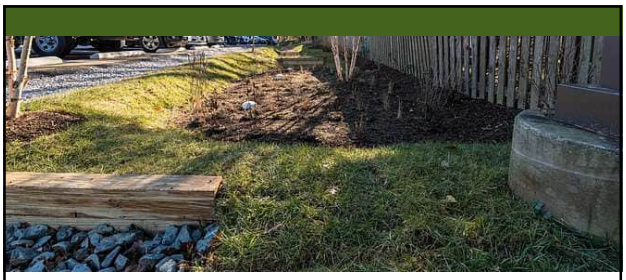
Number of Town-Owned Inlets in Town of Vienna Right-of-Way (ROW): 75

Area is bordered by Malcolm Rd NW, West St NW, Windover Ave NW, Nutley St NW, and Orchard St NW.

Recommended Meeting Spot: Peterson Lane Park or Sarah Walker Mercer Park.







Vienna Town Council Stormwater Management Program Update

VIENNA

June 5, 2023

1

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

2

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

3

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

4

Youth Focused Outreach

5

Outreach to Pet Owners

6

Outreach to Restaurants

7

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)

8

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.)

9

10

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

11

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

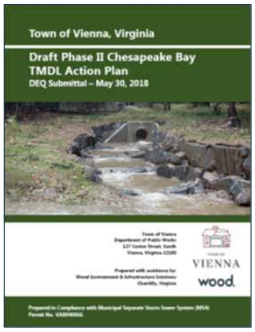
Pollution Prevention Plans

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

12

Chesapeake Bay TMDL Action Plan

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



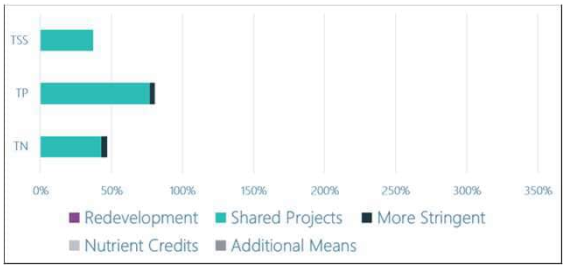
13

Go Street Sweeper!

14

A Step Back… The Rules Change

DEQ guidance on street sweeping changes… dramatically.



15

A Giant Leap Forward

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

16

Stream Restoration Projects

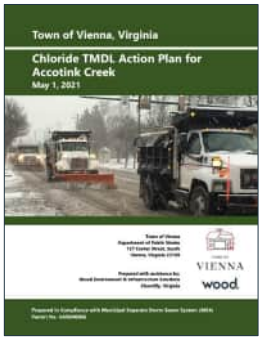
Stream restorations like Piney Branch were a part of the partnership with Fairfax County.

17

Local Water Quality Issues

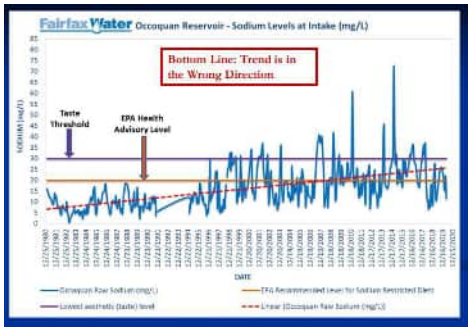
Local TMDL Action Plans

- 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



18

Challenge of Chloride



19

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**
- **BMP database needs to indicate whether BMPs are used for TMDL credit**
- **Implement BMPs for brine salt storage tanks at property yard**

20

Brine Storage Area

21

New Permit Focus Areas

- 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

22

New Permit Schedule

Item	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

23

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

24

Thank You! Questions?

25

APPENDIX C

Illicit Discharge Detection and Elimination (MCM #3)

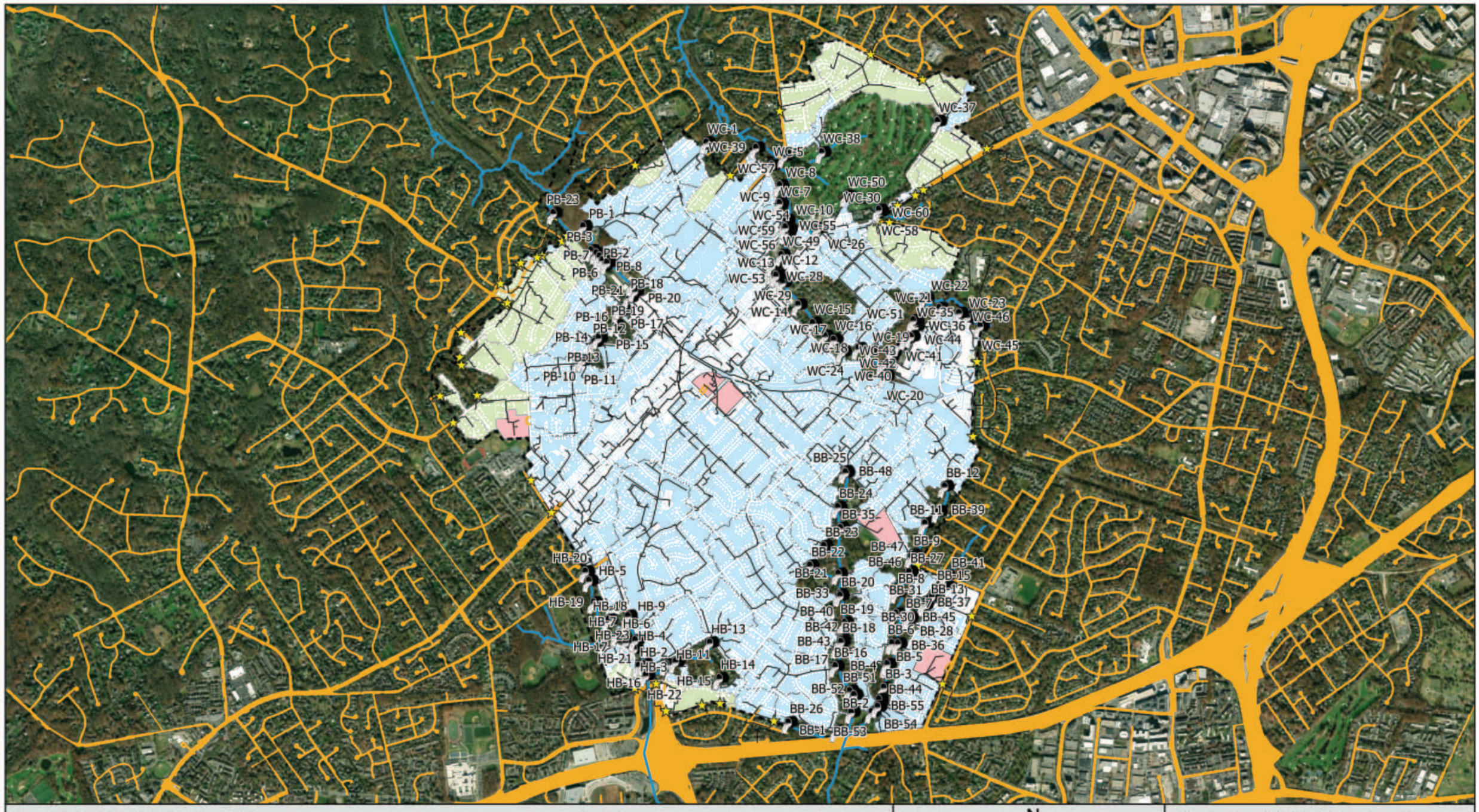
2023 MS4 Service Area Map

2023 Updated Outfall Data Table

2023 Dry Weather Screening Summary (Full Results Available on Request)

Results of Walk-Throughs of Medium and Priority Sites for Bacteria

Results of Walk-Throughs for Waters and Caffi Fields, Meadow Lane Park, and Southside Park


WC-1
WC-39
WC-5
WC-38
WC-37
WC-57
WC-8
WC-50
WC-30
WC-9
WC-7
WC-60
WC-54
WC-10
WC-58
WC-59
WC-55
WC-56
WC-49
WC-26
WC-13
WC-12
WC-53
WC-28
WC-22
WC-29
WC-21
WC-23
WC-14
WC-15
WC-51
WC-35
WC-46
WC-17
WC-16
WC-36
WC-19
WC-44
WC-18
WC-43
WC-41
WC-45
WC-42
WC-24
WC-40
WC-20
PB-23
PB-1
PB-3
PB-7
PB-2
PB-8
PB-6
PB-18
PB-21
PB-20
PB-19
PB-16
PB-17
PB-12
PB-14
PB-15
PB-13
PB-10
PB-11
BB-25
BB-48
BB-12
BB-24
BB-35
BB-11
BB-39
BB-23
BB-47
BB-9
BB-22
BB-46
BB-27
BB-41
BB-21
BB-20
BB-8
BB-15
BB-33
BB-31
BB-13
BB-7
BB-37
BB-40
BB-19
BB-30
BB-45
BB-42
BB-18
BB-6
BB-28
BB-43
BB-36
BB-16
BB-5
BB-17
BB-49
BB-51
BB-3
BB-52
BB-44
BB-2
BB-55
BB-26
BB-54
BB-1
BB-53
HB-20
HB-5
HB-19
HB-18
HB-9
HB-7
HB-6
HB-23
HB-4
HB-13
HB-17
HB-2
HB-11
HB-21
HB-3
HB-14
HB-16
HB-15
HB-22
Town MS4, Town Responsibility
Flows to County MS4, Town Responsibility
Other County Responsibility (Schools; flows from County to Town MS4)
MS4 Outfalls
MS4 Interconnections
Streams
Storm Sewer Lines
VDOT MS4
Town Boundary
N
0
0.25
0.5
1
Mile
Vienna MS4 Area and
Storm Sewer Map
2,149.69 Total Acres
726.53 Impervious Acres

Town of Vienna 2023 Outfall Data Table

UNIQUEID	Lat	Long	MS4_Acres	Receiving_Wtrbody	REACHCODE	VAHU6	HUC12	HUC12_NAME	POL_NAME_1	IMP_NAME_1	POL_NAME_2	IMP_NAME_2	Category	PREDOM_LANDUSE	IMPAIRED	POL_NAME_3	IMP_NAME_3	POL_NAME_4	IMP_NAME_4
BB-1	38.87979	-77.25361	18.44	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-11	38.89226	-77.24648	27.69	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-12	38.89448	-77.24491	69.52	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-13	38.88751	-77.24657	4.24	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-15	38.88828	-77.24561	5.77	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Local Commercial	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-16	38.88368	-77.25359	39.51	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-17	38.88481	-77.25340	93.05	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-18	38.88518	-77.25313	0.26	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-19	38.88630	-77.25282	6.97	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-2	38.88151	-77.25021	5.49	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-20	38.88796	-77.25316	0.01	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-21	38.88929	-77.25326	7.11	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-22	38.88980	-77.25545	32.01	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-23	38.89098	-77.25435	18.80	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-24	38.89332	-77.25322	28.90	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-25	38.89548	-77.25264	37.12	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-26	38.88032	-77.25729	12.95	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-27	38.88934	-77.24778	1.20	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-28	38.88648	-77.24795	1.80	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-3	38.88235	-77.24984	3.24	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-30	38.88732	-77.24666	2.71	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Multi-Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-31	38.88784	-77.24602	8.39	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Multi-Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-33	38.88807	-77.25319	2.35	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-35	38.89205	-77.25305	4.41	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-36	38.88501	-77.24871	4.10	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-37	38.88865	-77.24516	0.05	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Multi-Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-39	38.89297	-77.24545	0.98	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-4	38.88377	-77.24957	4.65	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-40	38.88796	-77.25315	1.40	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-41	38.88909	-77.24493	0.41	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-42	38.88529	-77.25310	1.05	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-43	38.88515	-77.25312	3.17	Bear Branch	02070010000964	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-44	38.88164	-77.25024	0.03	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-45	38.88658	-77.24783	7.31	Bear Branch	02070010001911	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-46	38.89036	-77.24751	0.33	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-47	38.89026	-77.24759	5.83	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-48	38.89542	-77.25259	24.35	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-5	38.88361	-77.24963	19.56	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-51	38.88217	-77.25248	2.17	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-52	38.88184	-77.25234	0.87	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-53	38.88088	-77.25239	0.28	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-54	38.88087	-77.25083	3.00	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-55	38.88120	-77.25036	7.44	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-6	38.88502	-77.24917	6.52	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-7	38.88683	-77.24882	3.09	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-8	38.88812	-77.24874	9.13	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
BB-9	38.89038	-77.24751	1.03	Bear Branch	02070010000965	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
Fairfax-1	38.91368	-77.26133	9.21	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-10	38.90056	-77.28407	3.28	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-11	38.90057	-77.28119	20.05	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-12	38.91438	-77.26870	6.14	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-13	38.91442	-77.25793	0.09	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
Fairfax-14	38.92090	-77.25031	47.59	Old Courthouse Spring		PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-15	38.91934	-77.24630	12.20	Old Courthouse Spring		PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-16	38.90220	-77.24238	2.64	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
Fairfax-17	38.88272	-77.26928	7.16	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
Fairfax-18	38.88296	-77.26761	2.09	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
Fairfax-19	38.89893	-77.28307	6.10	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-2	38.91755	-77.25743	24.65	Wolftrap Creek	02070008000562	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-20	38.90889	-77.27640	57.36	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-21	38.91233	-77.24700	2.73	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-22	38.88130	-77.26687	4.78	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
Fairfax-23	38.88170	-77.26268	1.79	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
Fairfax-3	38.91071	-77.24904	30.80	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-4	38.90898	-77.27600	9.25	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-5	38.90983	-77.27445	5.44	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-6	38.91016	-77.27405	2.11	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-7	38.90438	-77.28238	0.43	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-8	38.90289	-77.28250	1.77	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
Fairfax-9	38.90241	-77.28238	14.69	Piney Branch	02070008000556	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
HB-11	38.88392	-77.26668	1.29	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-13	38.88521	-77.26329	40.80	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-14	38.88305	-77.26259	3.10	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-15	38.88409	-77.26598	2.15	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-16	38.88395	-77.26842	31.99	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-17	38.88576	-77.27047	0.53	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-18	38.88668	-77.27111	1.04	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-19	38.88774	-77.27225	3.83	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-2	38.88387	-77.26883	1.63	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-20	38.88962	-77.27286	90.55	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-21	38.88543	-77.26907	1.37	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-22	38.88328	-77.26828	0.14	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-23	38.88690	-77.26961	5.80	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Road/ROW	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-3	38.88492	-77.26917	0.09	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-4	38.88532	-77.26981	0.89	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)

Town of Vienna 2023 Outfall Data Table

HB-5	38.88905	-77.27260	5.01	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-6	38.88567	-77.27049	5.34	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-7	38.88645	-77.26972	0.01	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Town House Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-8	38.88649	-77.26949	4.82	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
HB-9	38.88688	-77.26963	127.86	Hunters Branch	02070010000966	PL30	020700100402	Accotink Creek	Fecal Coliform	Total Fecal Coliform	PCB	PCB in Fish Tissue	3A	Single Family Residential	yes	Sediment	Benthic-Macroinvertebrate Bioassessments (Streams)	Chloride	Benthic-Macroinvertebrate Bioassessments (Streams)
PB-1	38.91053	-77.27269	55.07	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-10	38.90241	-77.27286	14.48	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-11	38.90241	-77.27288	51.55	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-12	38.90352	-77.27194	11.48	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-13	38.90377	-77.27162	8.47	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-14	38.90377	-77.27162	8.64	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-15	38.90452	-77.27035	0.70	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
PB-16	38.90534	-77.27002	0.91	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
PB-17	38.90556	-77.26985	1.97	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Town House Residential	yes				
PB-18	38.90621	-77.26919	2.79	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-19	38.90655	-77.26877	0.00	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-2	38.90808	-77.27128	14.06	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-20	38.90657	-77.26875	373.47	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-21	38.90659	-77.26876	0.01	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-22	38.90695	-77.26891	69.69	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-23	38.91136	-77.27498	2.20	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-3	38.90908	-77.27210	0.11	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-6	38.90889	-77.27168	1.48	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-7	38.90870	-77.27144	1.40	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
PB-8	38.90848	-77.27120	0.99	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Limited Industrial	yes				
PB-9	38.90831	-77.27088	5.01	Piney Branch	02070008000557	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
VDOT-1	38.91085	-77.25000	4.56	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
VDOT-2	38.91173	-77.24838	0.00	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
VDOT-3	38.91265	-77.24636	24.37	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-1	38.91551	-77.26304	19.33	Wolftrap Creek	02070008000562	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-10	38.91074	-77.25693	4.33	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Town House Residential	yes				
WC-12	38.90756	-77.25784	0.84	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Local Commercial	yes				
WC-13	38.90740	-77.25766	0.34	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Local Commercial	yes				
WC-14	38.90562	-77.25609	4.82	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-15	38.90449	-77.25497	7.61	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-16	38.90370	-77.25403	12.18	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-17	38.90346	-77.25337	15.93	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-18	38.90291	-77.25148	7.86	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-19	38.90277	-77.25050	7.00	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-20	38.90121	-77.24941	18.25	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-21	38.90530	-77.24515	5.02	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-22	38.90590	-77.24623	11.71	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-23	38.90474	-77.24297	5.43	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-24	38.90274	-77.25271	32.51	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-26	38.91023	-77.25447	36.39	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-27	38.90802	-77.25807	2.24	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Transitional	yes				
WC-28	38.90752	-77.25802	19.33	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-29	38.90736	-77.25777	0.00	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-30	38.91119	-77.24972	1.98	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-35	38.90424	-77.24703	0.16	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-36	38.90448	-77.24704	11.68	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-37	38.91662	-77.24509	7.65	Wolftrap Creek	02070008003891	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-38	38.91483	-77.25409	4.66	Wolftrap Creek	02070008003891	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-39	38.91515	-77.25920	18.17	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-40	38.90238	-77.24904	3.99	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-41	38.90268	-77.24882	0.26	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-42	38.90310	-77.24829	1.83	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-43	38.90347	-77.24778	3.91	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-44	38.90359	-77.24737	2.32	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-45	38.90417	-77.24199	0.58	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-46	38.90499	-77.24362	1.46	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-47	38.90190	-77.24960	9.18	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Indsutrial Park	yes				
WC-48	38.90698	-77.25726	1.45	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Local Commercial	yes				
WC-49	38.90865	-77.25733	12.66	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-5	38.91408	-77.25798	7.37	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-50	38.91217	-77.25221	3.51	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-51	38.90458	-77.24718	0.11	Wolftrap Creek	02070008000563	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-52	38.90744	-77.25772	1.15	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Local Commercial	yes				
WC-53	38.90739	-77.25779	15.88	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	General Commercial	yes				
WC-54	38.91022	-77.25680	2.95	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Town House Residential	yes				
WC-55	38.91004	-77.25689	0.13	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-56	38.90997	-77.25703	0.72	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-57	38.91460	-77.25702	5.64	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-58	38.91120	-77.24964	0.04	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-59	38.91030	-77.25700	6.67	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Town House Residential	yes				
WC-60	38.91130	-77.24973	2.59	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-7	38.91165	-77.25747	1.66	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Road/ROW	yes				
WC-8	38.91286	-77.25740	4.54	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				
WC-9	38.91178	-77.25743	11.02	Wolftrap Creek	02070008000565	PL22	020700081004	Difficult Run	E. Coli	Escherichia coli	Sediment	Benthic-Macroinvertebrate Bioassess	3C	Single Family Residential	yes				

Vienna 2023 Dry Weather Screening Summary

WSP USA Earth & Environmental (WSP) personnel conducted dry weather screening for the Town of Vienna from May 18, 2023 through June 5, 2023. Dry weather flow was not noted at any of the 54 MS4 outfalls screened this year. The full list can be found in the appendix. Personnel followed testing procedures outlined in the Town's Illicit Discharge Detection and Elimination Standard Operating Procedure (SOP).

Outfall Characterizations

None of the outfalls were observed to have any indicators of illicit discharge.

Ponded Outfalls

The following outfalls were observed with ponded water at the point of discharge.

- BB-21
- BB-24
- PB-1
- PB-6
- WC-57
- WC-26
- PB-2

Trash, Leaf, and Debris Build Up

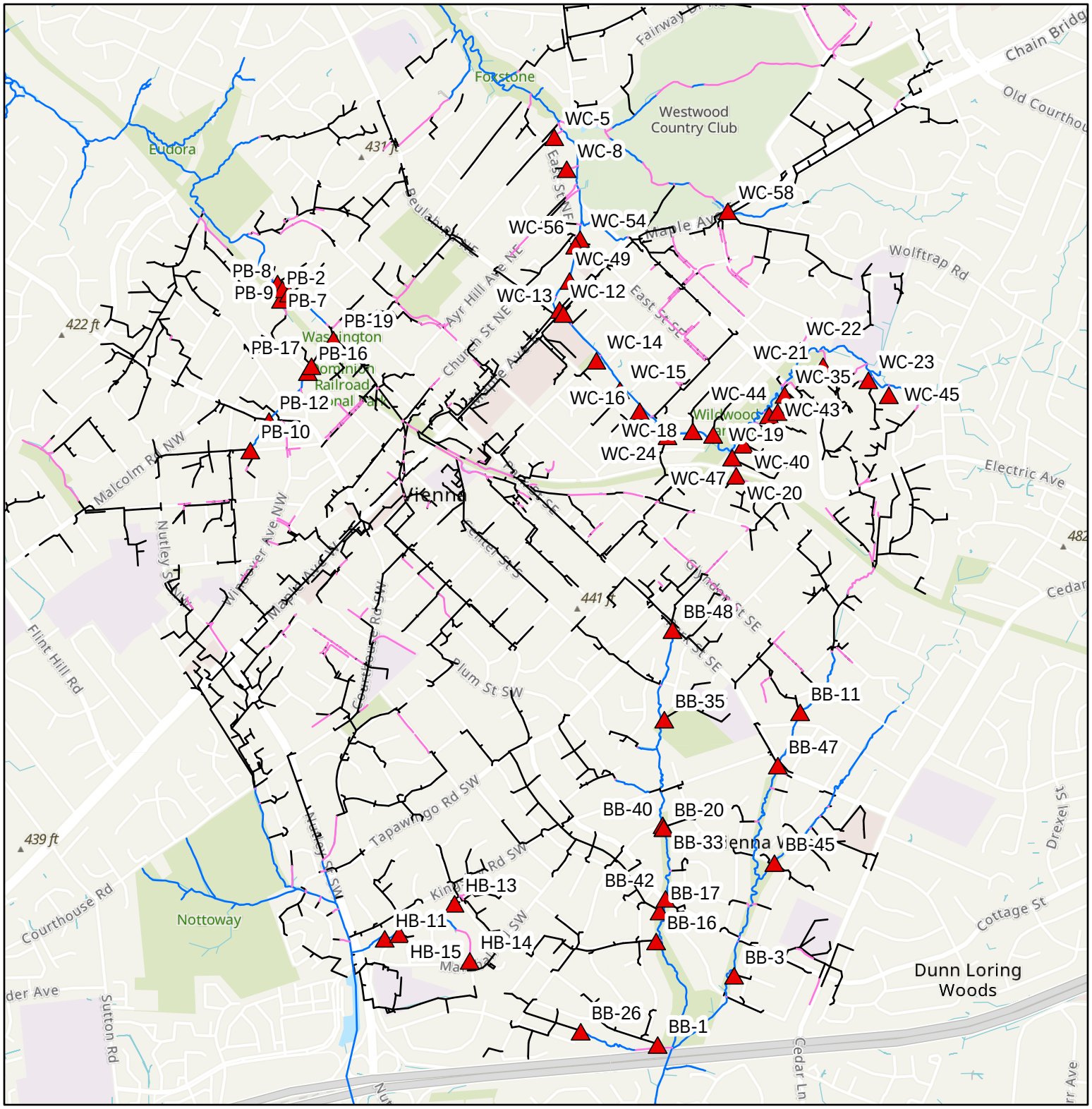
Several outfalls were observed to have trash, leaf, and or debris build up.

- HB-2
- HB-3
- HB-4
- BB-22
- BB-25
- PB-3
- WC-7
- WC-9
- WC-49
- WC-29
- WC-17
- PB-8

Vegetation

The following outfalls were observed to have vegetation growth in front of the outfall.

- BB-23
- WC-52
- PB-9
- PB-7



Vienna IDDE Outfalls: 2023

0 0.1 0.3 Mi

Created by WSP
Date Created 7/27/2023

- IDDE Outfall
- Storm Sewer Lines
- FHD Streams
- Hydrologic Connections

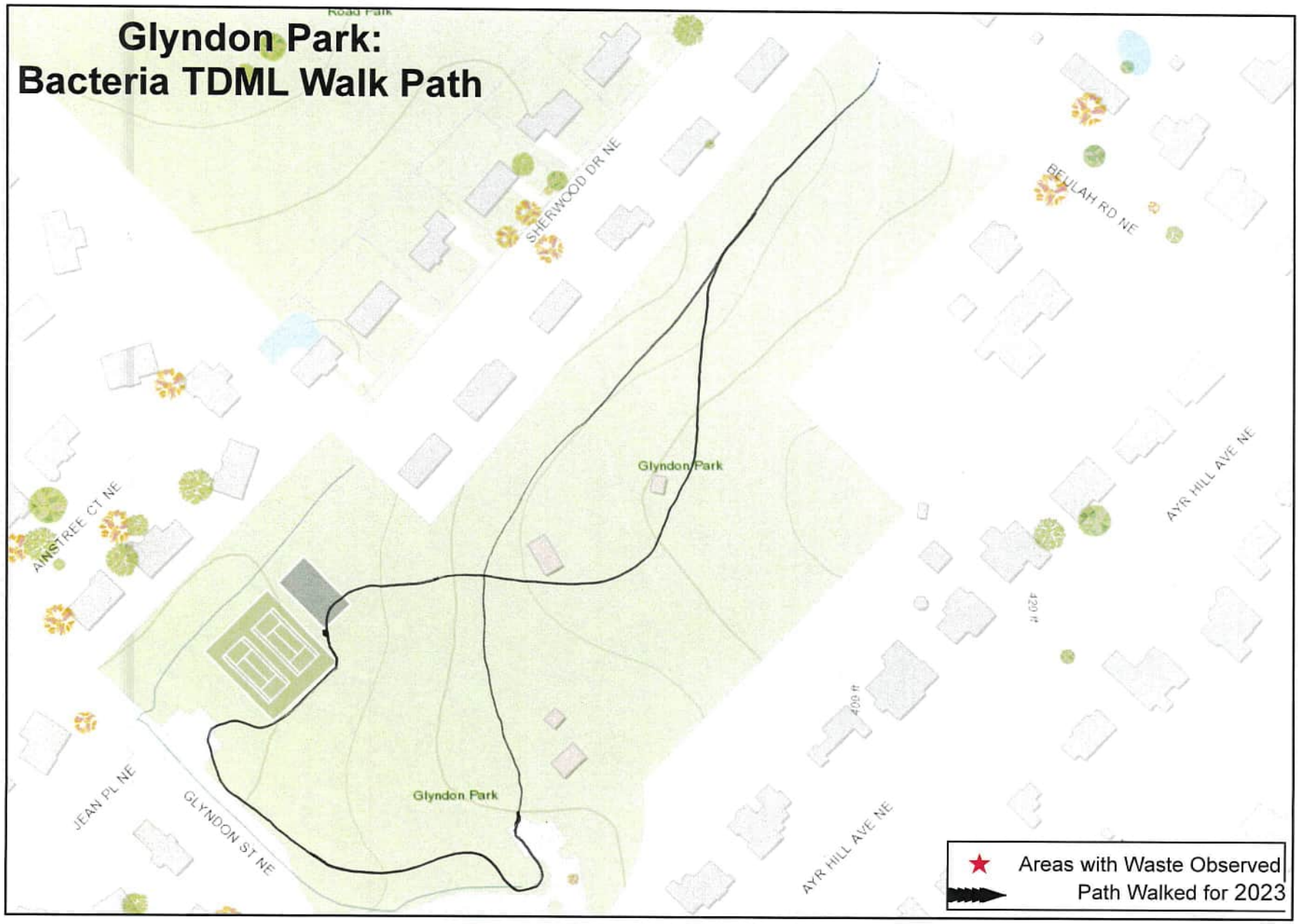
Outfall	Stream	Date	Outfall	Stream	Date	Outfall	Stream	Date	Outfall	Stream	Date	Outfall	Stream	Date	Outfall	Stream	Date
HB-2	Hunters Branch	5/18/2023	BB-2	Bear Branch	5/18/2023	PB-3	Piney Branch	5/19/2023	BB-7	Bear Branch	5/24/2023	WC-55	Wolftrap Creek	6/2/2023	PB-9	Piney Branch	6/5/2023
HB-16	Hunters Branch	5/18/2023	BB-12	Bear Branch	5/19/2023	PB-6	Piney Branch	5/19/2023	BB-28	Bear Branch	5/24/2023	WC-56	Wolftrap Creek	6/2/2023	PB-8	Piney Branch	6/5/2023
HB-3	Hunters Branch	5/18/2023	BB-47	Bear Branch	5/19/2023	WC-7	Wolftrap Creek	5/24/2023	BB-27	Bear Branch	5/24/2023	WC-30	Wolftrap Creek	6/2/2023	PB-7	Piney Branch	6/5/2023
HB-4	Hunters Branch	5/18/2023	BB-21	Bear Branch	5/19/2023	WC-9	Wolftrap Creek	5/24/2023	WC-54	Wolftrap Creek	6/2/2023	WC-60	Wolftrap Creek	6/2/2023	PB-2	Piney Branch	6/5/2023
HB-17	Hunters Branch	5/18/2023	BB-22	Bear Branch	5/19/2023	WC-57	Wolftrap Creek	5/24/2023	WC-59	Wolftrap Creek	6/2/2023	WC-26	Wolftrap Creek	6/2/2023	PB-17	Piney Branch	6/5/2023
HB-6	Hunters Branch	5/18/2023	BB-23	Bear Branch	5/19/2023	WC-49	Wolftrap Creek	5/24/2023	WC-52	Wolftrap Creek	6/2/2023	WC-36	Wolftrap Creek	6/2/2023	PB-16	Piney Branch	6/5/2023
HB-7	Hunters Branch	5/18/2023	BB-24	Bear Branch	5/19/2023	WC-28	Wolftrap Creek	5/24/2023	WC-48	Wolftrap Creek	6/2/2023	WC-50	Wolftrap Creek	6/5/2023	BB-42	Bear Branch	6/5/2023
HB-18	Hunters Branch	5/18/2023	BB-25	Bear Branch	5/19/2023	WC-29	Wolftrap Creek	5/24/2023	WC-27	Wolftrap Creek	6/2/2023	WC-38	Wolftrap Creek	6/5/2023	BB-43	Bear Branch	6/5/2023
BB-4	Bear Branch	5/18/2023	PB-1	Piney Branch	5/19/2023	WC-17	Wolftrap Creek	5/24/2023	WC-39	Wolftrap Creek	6/2/2023	PB-20	Piney Branch	6/5/2023	BB-18	Bear Branch	6/5/2023

Appendix

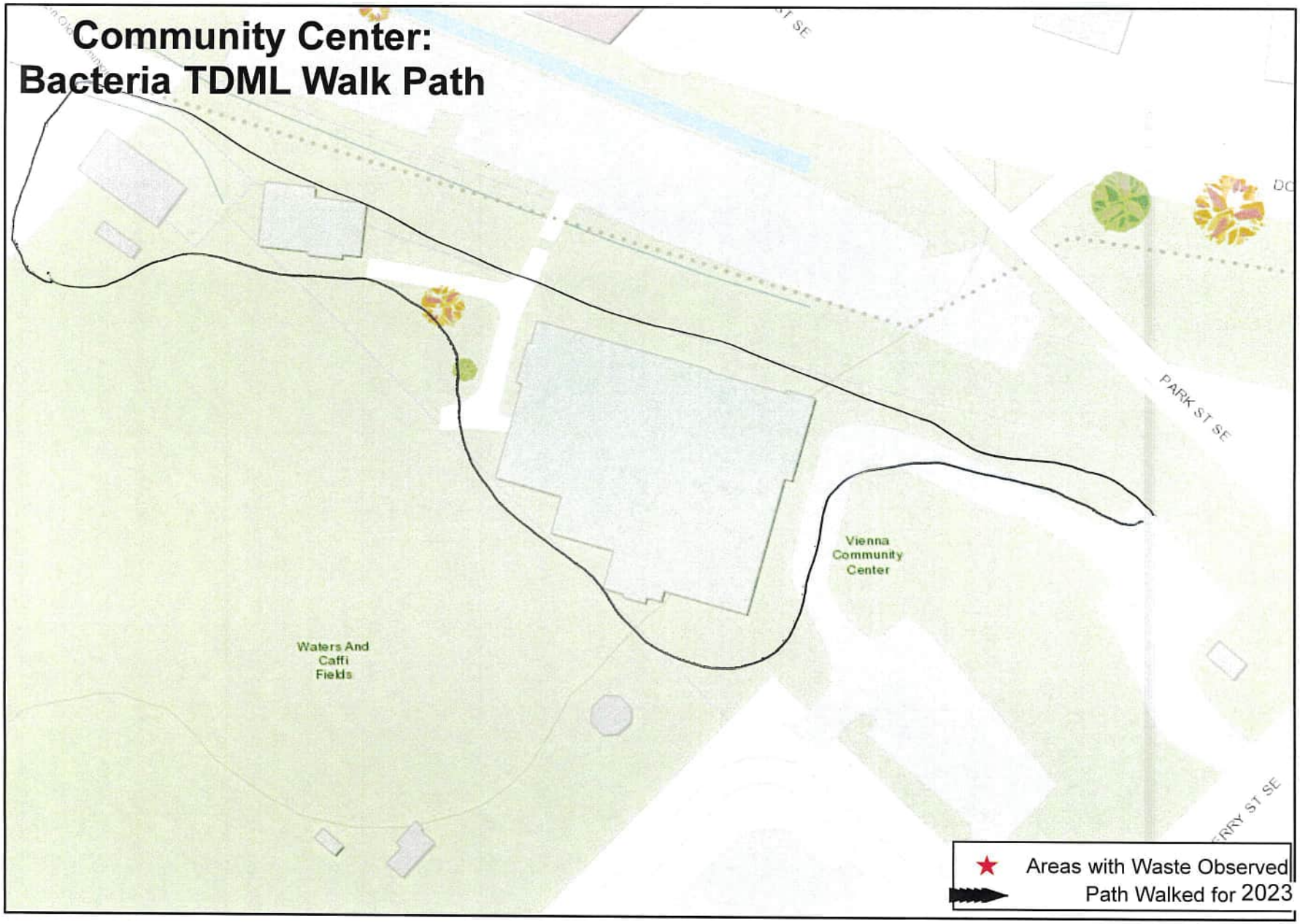
Vienna Dry Weather Screening
2023

	OutFall ID	Stream Name	Date	Latitude	Longitude	Overall Outfall Characterization	Flow Present	Any Maintenance Issues or Other Concerns?
1	HB-2	Hunters Branch	5/18/2023	38.88392	-77.2688	Unlikely	No	Debris
2	HB-16	Hunters Branch	5/18/2023	38.88396	-77.2685	Unlikely	No	None
3	HB-3	Hunters Branch	5/18/2023	38.88496	-77.2692	Unlikely	No	Leaves and debris build up
4	HB-4	Hunters Branch	5/18/2023	38.88523	-77.2699	Unlikely	No	Debris and trash
5	HB-17	Hunters Branch	5/18/2023	38.88573	-77.2705	Unlikely	No	None
6	HB-6	Hunters Branch	5/18/2023	38.88576	-77.2705	Unlikely	No	None
7	HB-7	Hunters Branch	5/18/2023	38.88647	-77.2697	Unlikely	No	Almost fully filled with sediment
8	HB-18	Hunters Branch	5/18/2023	38.88663	-77.2711	Unlikely	No	None
9	BB-4	Bear Branch	5/18/2023	38.88383	-77.2495	Unlikely	No	None
10	BB-2	Bear Branch	5/18/2023	38.88147	-77.2502	Unlikely	No	None
11	BB-12	Bear Branch	5/19/2023	38.89456	-77.2449	Unlikely	No	Partially filled with sediment
12	BB-47	Bear Branch	5/19/2023	38.89022	-77.2476	Unlikely	No	Pipe wet but not flowing
13	BB-21	Bear Branch	5/19/2023	38.88927	-77.2533	Unlikely	No	Ponded
14	BB-22	Bear Branch	5/19/2023	38.88978	-77.2554	Unlikely	No	Leaves and debris build up
15	BB-23	Bear Branch	5/19/2023	38.891	-77.2544	Unlikely	No	Vegetation
16	BB-24	Bear Branch	5/19/2023	38.89333	-77.2532	Unlikely	No	Ponded
17	BB-25	Bear Branch	5/19/2023	38.89548	-77.2527	Unlikely	No	Leaves and debris build up
18	PB-1	Piney Branch	5/19/2023	38.91053	-77.2726	Unlikely	No	Ponded
19	PB-3	Piney Branch	5/19/2023	38.90991	-77.2718	Unlikely	No	Leaves and debris build up
20	PB-6	Piney Branch	5/19/2023	38.90981	-77.272	Unlikely	No	Ponded
21	WC-7	Wolftrap Creek	5/24/2023	38.91161	-77.2574	Unlikely	No	Trash
22	WC-9	Wolftrap Creek	5/24/2023	38.91181	-77.2574	Unlikely	No	Leaves and debris build up
23	WC-57	Wolftrap Creek	5/24/2023	38.91459	-77.2571	Unlikely	No	Ponded
24	WC-49	Wolftrap Creek	5/24/2023	38.90865	-77.2571	Unlikely	No	Trash
25	WC-28	Wolftrap Creek	5/24/2023	38.90755	-77.258	Unlikely	No	None
26	WC-29	Wolftrap Creek	5/24/2023	38.90736	-77.2577	Unlikely	No	Leaves and debris build up
27	WC-17	Wolftrap Creek	5/24/2023	38.90339	-77.2534	Unlikely	No	Trash
28	BB-7	Bear Branch	5/24/2023	38.88683	-77.2489	Unlikely	No	None
29	BB-28	Bear Branch	5/24/2023	38.88663	-77.2484	Unlikely	No	None
30	BB-27	Bear Branch	5/24/2023	38.8892	-77.2473	Unlikely	No	None
31	WC-54	Wolftrap Creek	6/2/2023	38.90996	-77.2565	Unlikely	No	None
32	WC-59	Wolftrap Creek	6/2/2023	38.91031	-77.2569	Unlikely	No	None
33	WC-52	Wolftrap Creek	6/2/2023	38.90741	-77.2577	Unlikely	No	Vegetation
34	WC-48	Wolftrap Creek	6/2/2023	38.90695	-77.2573	Unlikely	No	None
35	WC-27	Wolftrap Creek	6/2/2023	38.90807	-77.2581	Unlikely	No	None
36	WC-39	Wolftrap Creek	6/2/2023	38.9152	-77.2591	Unlikely	No	None
37	WC-55	Wolftrap Creek	6/2/2023	38.91005	-77.2565	Unlikely	No	None
38	WC-56	Wolftrap Creek	6/2/2023	38.90992	-77.2566	Unlikely	No	Partially filled with sediment
39	WC-30	Wolftrap Creek	6/2/2023	38.9112	-77.2497	Unlikely	No	None
40	WC-60	Wolftrap Creek	6/2/2023	38.91131	-77.2497	Unlikely	No	None
41	WC-26	Wolftrap Creek	6/2/2023	38.91033	-77.2545	Unlikely	No	Ponded
42	WC-36	Wolftrap Creek	6/2/2023	38.90455	-77.2469	Unlikely	No	None
43	WC-50	Wolftrap Creek	6/5/2023	38.9122	-77.2522	Unlikely	No	None
44	WC-38	Wolftrap Creek	6/5/2023	38.91489	-77.254	Unlikely	No	None
45	PB-20	Piney Branch	6/5/2023	38.90656	-77.2687	Unlikely	No	None
46	PB-9	Piney Branch	6/5/2023	38.90835	-77.2709	Unlikely	No	Vegetation
47	PB-8	Piney Branch	6/5/2023	38.90849	-77.2711	Unlikely	No	Leaves and debris build up
48	PB-7	Piney Branch	6/5/2023	38.90874	-77.2714	Unlikely	No	Vegetation
49	PB-2	Piney Branch	6/5/2023	38.90824	-77.2712	Unlikely	No	Ponded and a lot of vegetation
50	PB-17	Piney Branch	6/5/2023	38.90561	-77.2698	Unlikely	No	None
51	PB-16	Piney Branch	6/5/2023	38.90287	-77.2669	Unlikely	No	None
52	BB-42	Bear Branch	6/5/2023	38.8852	-77.2532	Unlikely	No	None
53	BB-43	Bear Branch	6/5/2023	38.88513	-77.2531	Unlikely	No	None
54	BB-18	Bear Branch	6/5/2023	38.88519	-77.2531	Unlikely	No	None

Zero Waste Observed



Zero Waste Observed



Zero Waste Observed

Zero Waste Observed

Zero Waste Observed

TOWN OF VIENNA
Public Works

TOWN OF VIENNA
Department of Public Works

MEMORANDUM

DATE: September 21, 2023

TO: Alan Chen, Water Resource Engineer

FROM: Brandon Kern, Engineering Technician

SUBJECT: Erosion Check – Water & Caffi Fields Inspection

I walked a path around the Waters-Caffi baseball fields and out-buildings. The purpose was to search for areas of concern regarding sediment erosion. The walk-through yielded four main areas of some concern. Find below the map showing the observation path.

There are three areas of concern. The first area is the parking lot on the north side of the community center where there is sediment washing onto the pavement from the grass.

From Community Center Garden that borders the baseball fields to the left and the Vienna Elementary School recreation area to the right, erosion occurs where sediment washes onto the sidewalk and over into the school recreation areas.

Behind the backstop and bleacher on the west baseball field has sediment washing from the field.

The three photos (below) show the erosion in Waters & Caffi Fields.

127 Center Street, South • Vienna, Virginia 22180-5719 p: (703) 255-6380 • f: (703) 255-5722 • TTY711
www.viennava.gov

TOWN OF VIENNA
Public Works

TOWN OF VIENNA
Department of Public Works

MEMORANDUM

DATE: September 21, 2023

TO: Alan Chen, Water Resource Engineer

FROM: Brandon Kern, Engineering Technician

SUBJECT: Erosion Check – Southside Park Fields Inspection

I walked from the main parking area over to the walkways between the park's baseball fields. The purpose was to search for areas of concern regarding sediment erosion. The walk-through yielded three main areas of concern. Find the map below showing the observation path taken.

The first area is backstop bleachers on the south side of the baseball fields where there is sediment washing onto the pavement from the field.

There is some sediment is washing from the grass down the hill on the path.

The parking lot on the east side of the park has some sediment washing onto the pavement from the grass .

The three photos (below) show the erosion in Southside Park Fields.

127 Center Street, South • Vienna, Virginia 22180-5719 p: (703) 255-6380 • f: (703) 255-5722 • TTY711
www.viennava.gov

TOWN OF VIENNA
Public Works

TOWN OF VIENNA
Department of Public Works

MEMORANDUM

DATE: September 21, 2023

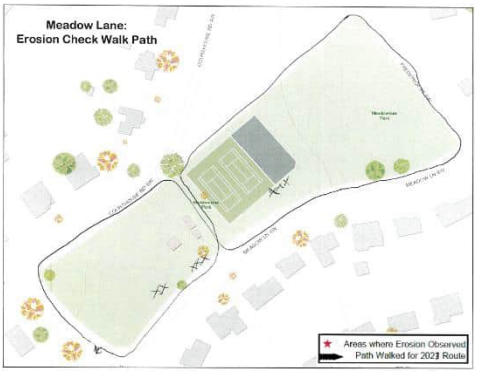
TO: Alan Chen, Water Resource Engineer

FROM: Brandon Kern, Engineering Technician

SUBJECT: Erosion Check – Meadow Lane Park Inspection

I walked the sidewalk from Ware St SW and up Meadow Lane past the tot lot, tennis/pickle ball courts and baseball field. The purpose was to search for areas of concern regarding sediment erosion.

The walk-through yielded these two major areas of concern. Find below map showing the observation path and areas marked showing erosion.



Meadow Lane Park has minor erosion issues due to slope and high traffic. Park property along Meadow Lane SW shows sediment erosion that flows from the baseball fields down past the tennis courts to the tot lot, resulting at park property along Ware Street SW.

The three photos (below) show the erosion along Meadow Ln. SW.

127 Center Street, South • Vienna, Virginia 22180-5719 p: (703) 255-6380 • f: (703) 255-5722 • TTY711
www.viennava.gov

APPENDIX D

Construction Site Stormwater Runoff Control (MCM #4)

Erosion and Sediment Control/Stormwater Management Certifications.

COMMONWEALTH OF VIRGINIA

State Water Control Board

1111 East Main Street, Richmond, Virginia 23219

Stormwater Management

Combined Administrator

Christine Ann Horner

CERTIFICATE NUMBER
SWCA0477

EXPIRATION DATE
3/9/2024

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
State Water Control Board
1111 East Main Street, Richmond, Virginia 23219

Stormwater Management

Combined Administrator

Christine Ann Horner

Certificate Number
SWCA0477

Expiration Date
3/9/2024

COMMONWEALTH OF VIRGINIA
State Water Control Board
1111 East Main Street, Richmond, Virginia 23219

Stormwater Management

Combined Administrator

Christine Ann Horner

Certificate Number
SWCA0477

Expiration Date
3/9/2024

COMMONWEALTH OF VIRGINIA

State Water Control Board

1111 East Main Street, Richmond, Virginia 23219

Dual

Inspector

Emily Lynn Goodman

CERTIFICATE NUMBER
DIN0925

EXPIRATION DATE
4/5/2024

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
State Water Control Board
1111 East Main Street, Richmond, Virginia 23219

Dual

Inspector

Emily Lynn Goodman

Certificate Number	Expiration Date
DIN0925	4/5/2024

COMMONWEALTH OF VIRGINIA
State Water Control Board
1111 East Main Street, Richmond, Virginia 23219

Dual

Inspector

Emily Lynn Goodman

Certificate Number	Expiration Date
DIN0925	4/5/2024

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Dual

Combined Administrator

John Jay Sergent

CERTIFICATE NUMBER
DCA0290

EXPIRATION DATE
10/28/2025

This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual

Combined Administrator

John Jay Sergent

Certificate Number	Expiration Date
DCA0290	10/28/2025

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual

Combined Administrator

John Jay Sergent

Certificate Number	Expiration Date
DCA0290	10/28/2025

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

STORMWATER MANAGEMENT

Combined Administrator

Alan Chen

CERTIFICATE NUMBER

SWCA0684

EXPIRATION DATE

2/14/2026

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

This certificate is for your records and should be kept in a safe location. Please detach the above certificate and the two wallet size cards below. It is your responsibility to ensure that your certification is kept current and that you meet the requirements for re-certification before the expiration date.

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

STORMWATER MANAGEMENT
Combined Administrator

Alan Chen

Certificate Number
SWCA0684

Expiration Date
2/14/2026

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

STORMWATER MANAGEMENT
Combined Administrator

Alan Chen

Certificate Number
SWCA0684

Expiration Date
2/14/2026

APPENDIX E

Post Construction Stormwater Management (MCM #5)

Inspection Results for Private Stormwater Management Facilities

Inspection Results for Public Stormwater Management Facilities

New Stormwater Management Facilities for FY23

Town of Vienna FY2023 Private BMP Inspection Results

ID / House No.	Address	Facility/BMP Type	Total Area (ac)	Pervious Area (ac)	Impervious Area (ac)	Date Brought Online	HUC CODE	Owner	Maintenance Agreement on File	Last Inspection	Inspection Comments	Action
506	Plum St SW	Bioretention	0.05	1.19	0.05	7/11/2017	PL22	wner, Resident	Yes	9/1/2022	Third Party Inspection Received, No Deficiencies	None
709	Ware St SW	Infiltration Trench	0.06	0.18	0.02	7/13/2017	PL30	wner, Resident	Yes	6/8/2022	Third Party Inspection Received, No Deficiencies	None
502	Alma St SE	Bioretention	0.03	0.33	0.03	7/14/2017	PL22	wner, Resident	Yes	8/1/2022	Third Party Inspection Received, No Deficiencies	None
435	Lewis St NW	Bioretention	0.03	1	0.03	7/21/2017	PL22	wner, Resident	Yes	6/29/2022	Third Party Inspection Received, No Deficiencies	None
110	St Bernard Dr NE	Infiltration Trench	0.05	1.94	0.02	7/27/2017	PL22	wner, Resident	Yes	6/22/2022	Third Party Inspection Received, No Deficiencies	None
303	Plum St SW	Bioretention	0.04	0.11	0.04	7/28/2017	PL22	wner, Resident	Yes	6/7/2022	Third Party Inspection Received, No Deficiencies	None
1114	Desale St SW	Bioretention	0.03	0.29	0.03	8/8/2017	PL30	wner, Resident	Yes	7/27/2022	Third Party Inspection Received, No Deficiencies	None
508	Birch St SW	Bioretention	0.04	0.322	0.04	8/10/2017	PL22	wner, Resident	Yes	8/17/2022	Third Party Inspection Received, No Deficiencies	None
607	Kingsley St SW	Infiltration	0.04	1.12	0.03	8/11/2017	PL30	wner, Resident	Yes	8/12/2022	Third Party Inspection Received, No Deficiencies	None
225	Ayr Hill Ave NE	Infiltration Trench	0.1	2.29	0.02	8/30/2017	PL22	wner, Resident	Yes	9/27/2022	Third Party Inspection Received, No Deficiencies	None
111	Moore Ave SW	Bioretention	0.03	2.32	0.03	9/8/2017	PL30	wner, Resident	Yes	6/22/2022	Third Party Inspection Received, No Deficiencies	None
202	Marian Cir SW	Infiltration Trench	0.08	0.04	0.06	9/8/2017	PL30	wner, Resident	Yes	6/7/2022	Third Party Inspection Received, No Deficiencies	None
1102	Walker Cir SW	Bioretention	0.02	0	0.02	9/8/2017	PL30	wner, Resident	Yes	3/6/2023	Third Party Inspection Received, No Deficiencies	None
304	Mashie Dr SW	Infiltration	0.11	0.87	0.03	9/25/2017	PL22	wner, Resident	Yes	1/4/2023	Third Party Inspection Received, No Deficiencies	None
445	Orchard St NW	Bioretention	0.08	1	0.04	9/28/2017	PL22	wner, Resident	Yes	5/18/2022	Third Party Inspection Received, No Deficiencies	None
923	Fairway Dr NE	Bioretention	0.02	1.15	0.02	9/28/2017	PL22	wner, Resident	Yes	7/5/2022	Third Party Inspection Received, No Deficiencies	None
411	Beulah Rd NE	Infiltration Trench	0.45	14.24	0.12	10/12/2017	PL22	wner, Resident	Yes	10/13/2022	Third Party Inspection Received, No Deficiencies	None
1002	Glyndon St SE	Bioretention	0.0286	1.02	0.0286	10/17/2017	PL30	wner, Resident	Yes	9/12/2022	Third Party Inspection Received, No Deficiencies	None
507	Delano Dr SW	Conserved Open Space	0.1	0.47	0.05	10/18/2017	PL22	wner, Resident	Yes	9/28/2022	Third Party Inspection Received, No Deficiencies	None
920	Circle Dr SE	Bioretention / Porous Pavement	0.05	21.2	0.05	10/18/2017	PL30	wner, Resident	Yes	10/12/2022	Third Party Inspection Received, No Deficiencies	None
609	Kingsley Rd SW	Bioretention	0.06	0.04	0.06	10/19/2017	PL30	wner, Resident	Yes	9/27/2022	Third Party Inspection Received, No Deficiencies	None
903	Cottage St SW	Bioretention	0.04	8.47	0.04	10/19/2017	PL30	wner, Resident	Yes	10/28/2022	Third Party Inspection Received, No Deficiencies	None
608	Gibson Cir SW	Bioretention	0.06	0	0.06	10/26/2017	PL30	wner, Resident	Yes	7/29/2022	Third Party Inspection Received, No Deficiencies	None
605	Gibson Dr SW	Bioretention	0.03	0	0.0225	10/27/2017	PL30	wner, Resident	Yes	9/29/2022	Third Party Inspection Received, No Deficiencies	None
101	Elmar St SW	Bioretention	0.04	0	0.04	10/31/2017	PL30	wner, Resident	Yes	9/26/2022	Third Party Inspection Received, No Deficiencies	None
109	Elmar St SE	Bioretention	0.05	0	0.05	11/16/2017	PL30	wner, Resident	Yes	10/18/2022	Third Party Inspection Received, No Deficiencies	None
400	Orleans Cir SW	Infiltration Trench	0.06	0	0.03	11/20/2017	PL30	wner, Resident	Yes	11/2/2017	Submittal Package Declined, Awaiting Resubmission	Followup with Property Owner
1403	Patrick St SW	Bioretention	0.06	0	0.04	12/11/2017	PL30	wner, Resident	Yes	10/31/2022	Third Party Inspection Received, No Deficiencies	None
508	Beulah St NE	Bioretention	0.0138	0	0.0138	12/14/2017	PL22	wner, Resident	Yes	9/26/2022	Third Party Inspection Received, No Deficiencies	None
608	Old Courthouse Rd NE	Infiltration	0.05	0	0.02	12/15/2017	PL22	wner, Resident	Yes	7/28/2022	Third Party Inspection Received, No Deficiencies	None
1018	Maple Ave E	Bioretention	0.09	0	0.07	1/19/2018	PL22	wner, Resident	Yes	11/4/2022	Third Party Inspection Received, No Deficiencies	None
304	Roosevelt Ct NE	Infiltration Trench	0.03	0	0.03	1/25/2018	PL22	wner, Resident	Yes	11/16/2022	Third Party Inspection Received, No Deficiencies	None
504	Adelman Cir SW	Infiltration Trench	0.1301	0	0.0397	2/2/2018	PL30	wner, Resident	Yes	1/31/2023	Third Party Inspection Received, No Deficiencies	None
918	Frederick St SW	Infiltration Trench	0.04	0	0.04	2/9/2018	PL30	wner, Resident	Yes	1/26/2023	Third Party Inspection Received, No Deficiencies	None
905	Cottage St SW	Infiltration Trench	0.04	0	0.04	2/12/2018	PL30	wner, Resident	Yes	1/30/2023	Third Party Inspection Received, No Deficiencies	None
1218	Kelley St SW	Infiltration Trench	0.06	0	0.02	3/6/2018	PL30	wner, Resident	Yes	3/28/2023	Third Party Inspection Received, No Deficiencies	None
101	Harmony Dr SW	Bioretention	0.08	0	0.08	3/13/2018	PL30	wner, Resident	Yes	3/15/2023	Third Party Inspection Received, No Deficiencies	None
410	East St SE	Bioretention	0.05	0	0.05	3/15/2018	PL22	wner, Resident	Yes	3/3/2023	Third Party Inspection Received, No Deficiencies	None
205	Elm St SW	Soil Compost Amendment	0.125	0	0.05	3/23/2018	PL22	wner, Resident	Yes	1/30/2023	Third Party Inspection Received, No Deficiencies	None
108	Elm St SW	Infiltration	0.15	0	0.15	3/26/2018	PL22	wner, Resident	Yes	2/17/2023	Third Party Inspection Received, No Deficiencies	None
105	Battle St SW	Bioretention	0.0337	0	0.0337	4/10/2018	PL22	wner, Resident	Yes	4/25/2023	Third Party Inspection Received, No Deficiencies	None
914	Hillcrest Dr SW	Infiltration	0.055	0	0.04	4/10/2018	PL30	wner, Resident	Yes	2/18/2018	No Inspection Received	Followup with Property Owner
805	Meadow Ln SW	Bioretention	0.03	0	0.03	4/12/2018	PL30	wner, Resident	Yes	2/7/2023	Third Party Inspection Received, No Deficiencies	None
113	Elm St SW	Infiltration Trench	0.16	0	0.05	4/18/2018	PL22	wner, Resident	Yes	3/30/2023	Third Party Inspection Received, No Deficiencies	None
106	James Dr SW	Bioretention	0.0411	0	0.0411	4/25/2018	PL30	wner, Resident	Yes	4/4/2023	Third Party Inspection Received, No Deficiencies	None
607	Valley Dr SE	Bioretention	0.0494	0	0.0494	4/27/2018	PL22	wner, Resident	Yes	4/13/2023	Third Party Inspection Received, No Deficiencies	None
501	Alma St SE	Conserved Open Space	0.05	0	0.05	5/2/2018	PL22	wner, Resident	Yes	4/30/2018	No Inspection Received	Followup with Property Owner
203	Tapawingo Rd SW	Bioretention	0.03	0	0.03	5/7/2018	PL30	wner, Resident	Yes	12/1/2017	No Inspection Received	Followup with Property Owner
339	Ayr Hill Ave NE	Infiltration	0.12	0	0.07	5/14/2018	PL22	wner, Resident	Yes	3/16/2023	Third Party Inspection Received, No Deficiencies	None

Town of Vienna FY2023 Private BMP Inspection Results

208	Berry St SE	Grass Channel 1 & 2	0.21	0	0.07	5/22/2018	PL22	wner, Residenti	Yes	8/10/2023	Third Party Inspection Received, No Deficiencies	None
409	Beulah Rd NE	Infiltration Trench	0.32	0	0.12	5/28/2018	PL22	wner, Residenti	Yes	4/24/2023	Third Party Inspection Received, No Deficiencies	None
204	Battle St SW	Soil Compost Amendment	0.128	0	0.0527	6/5/2018	PL22	wner, Residenti	Yes	5/30/2018	No Inspection Received	Followup with Property Owner
118	Battle St SW	Bioretention	0.06	0	0.06	6/20/2018	PL22	wner, Residenti	Yes	7/25/2023	Third Party Inspection Received, No Deficiencies	None
222	Cherry St SW	Bioretention	0.04	0	0.04	6/21/2018	PL22	wner, Residenti	Yes	6/12/2018	No Inspection Received	Followup with Property Owner
135	Center Street S - Cadence on Center Community	Manufactured Treatment Device PerkFilter™ Media Filtration Device	0.87	0	0.64	6/27/2018	PL22	wner, Commerc	Yes	9/9/2020	Submittal Package Declined, Awaiting Resubmission	Followup with Property Owner
202	Hilltop Rd NE	Infiltration	0.16	0	0.06	6/27/2018	PL22	wner, Residenti	Yes	6/6/2023	Third Party Inspection Received, No Deficiencies	None

FY23 Town of Vienna Public BMP Inspection Results

ID Number	Inspection Date	Address	Description	Year	Watershed	HUC CODE	Ownership	Inlet Comments	Needs Maintenance?	Action
28	7/3/2023	702 Hine St	Infiltration trench	2005	Wolftrap Creek	PL22	Public	Unable to locate trench, did not observe a facility over fence indicating either incorrect location or facility no longer functional.	No	None
29	7/3/2023	202 Elmar Dr SE	Multiple segment storage pipe.	1994	Piney Branch	PL22	Public	Completely clear of debris and sedimentation.	No	None
30	7/3/2023	201 Glyndon St SE	Infiltration trench in backyard	2003	Piney Branch	PL22	Public	Seems to be an offline facility according to as-built plans. No additional maintenance required.	No	None
31	7/3/2023	418 Orchard St NW	Storage Pipe	1990	Piney Branch	PL22	Public	Upstream inlet unable to access in backyard	No	None
33	7/3/2023	207, 209, 211, 213 Adahi Rd SE	Large CMP storage pipe.	1994	Bear Branch	PL30	Public	No debris or sedimentation buildup.	No	None
34	7/3/2023	235 Talahi Rd SE	Storage pipe	1987	Piney Branch	PL22	Public	Inlet is clear and free of debris.	No	None
35	7/3/2023	100 Cunningham Park Ct SE	Storage pipe in backyard with continual issues	1986	Bear Branch	PL30	Public	Pipe has chronic issues and was filled to brim with debris. Capital project required	Yes	Future Capital Prooject
37	7/3/2023	201 Prescott Cr SE	Storage Pipe in backyard	1998	Bear Branch	PL30	Public	Unable to access backyard to take photos but downstream pipe is clear and free of debris.	No	None
38	7/3/2023	315 Ayito Rd SE	Storage pipe	2004	Bear Branch	PL30	Public	Unable to access upstream manhole, resident not home but downstream storage pipe is clear aand free of debris.	No	None
39	6/22/2023	304 and 308 Springwoood Ct NE	Storage pipe between two private properties	1988	Piney Branch	PL22	Public	Unable to open upstream inlet manhole	No	None
40	6/27/2023	600 Mill St NE	Giant storage facility in Northside Property Yard	2000	Piney Branch	PL22	Public	Inlet trash rack has accumulated moderate amount of trash. Facility was cleaned in 2022 and work order to clear rack maybe required. Low priority.	No	None
46	6/27/2023	319 Moorefield Rd SW	Two section storage pipe with upstream manhole in street.	1995	Hunters Branch	PL30	Public	Some cleaning required with about 4-6 in of mud/sediment accumulation. Low priority.	No	None
47	6/27/2023	310 Moorefield Rd SW	Two section storage pipe with upstream manhole	1996	Hunters Branch	PL30	Public	Facility is completely clear of debris and no issues noted. No maintenance required.	No	None
48	6/22/2023	402 Creek Crossing Rd NE	Storage pipe in backyard of 420 Creek Crossing.	1993	Piney Branch	PL22	Public	No debris or sediment noticed.	No	None
49	7/3/2023	854 Shady Dr SE	Storage Pipe	2000	Bear Branch	PL30	Public	Minor amount of sedimentation buildup.	No	None
50	6/27/2023	1101 Kings Way Ct SW	Three section storage pipe in shape of an upside down U	1998	Hunters Branch	PL30	Public	Both downstream inlets have sediment buildup about 4-6 inches and require a vac truck though low priority.	Yes	Town Staff
53	7/3/2023	303 Talahi Rd SE	Storage Pipe	1999	Wolftrap Creek	PL22	Public	Completely clear and free of debris	No	None
55	6/27/2023	101 Battle St SE	Y-shaped three segment storage pipe.	2003	Piney Branch	PL22	Public	No issues with debris or sediment but upstream inlet has some minor cracking in concrete top, no maintenance required.	No	None
56	6/20/2023	413 Courthouse Rd	Multiple pipe storage segments	1999	Hunters Branch	PL30	Public	Completely clear and free of debris.	No	None
57	6/27/2023	1105 Trowbridge Pl SW	Large CMP Storage pipe in backyard	1996	Hunters Branch	PL30	Public	No issues with facility completely free of debris.	No	None
59	7/3/2023	320 Adahi Rd SE	Storage Pipe	2003	Bear Branch	PL30	Public	Minimal sedimentation found, no maintenance needed.	No	None
60	7/3/2023	130 Shepherdson Ln NE	Multiple segment storage pipe	1998	Piney Branch	PL22	Public	Completely clear and free of debris.	No	None
65	7/3/2023	305 Locust	Infiltration trench	2008	Wolftrap Creek	PL22	Public	Trench has been landscaped over completely and does not appear functional.	Yes	Town Staff
68	6/27/2023	302 Kingsley Rd SW	Storage pipe in backyard.	2004	Bear Branch	PL30	Public	Very minimal leaf debris in inlet structure.	No	None
76	6/22/2023	300 Block Ainstree Ct NE	Storage pipe	1994	Bear Branch	PL30	Public	Low priority for cleaning, some debris and sedimentation noted.	Yes	Town Staff
77	7/3/2023	409 Blair Rd NW	Multiple segment storage pipe	2007	Piney Branch	PL22	Public	Completely clear and free of debris.	No	None
78	7/3/2023	405 Talahi Rd SE	Storage Pipe	1989	Wolftrap Creek	PL22	Public	Upstream inlet is completely clear and free of debris.	No	None
79	7/3/2023	400 Block West Ct	Large 72” CMP	1988	Piney Branch	PL22	Public	Unable to access upstream inlet	No	None
80	6/22/2023	509 John Marshall Dr NE	Storage pipe	2006	Piney Branch	PL22	Public	Significant leaf debris noted in upstream inlet manhole and requires maintenance.	No	None
90	7/3/2023	400 Block Surrey Lane	Storage Pipe	2011	Wolftrap Creek	PL22	Public	Completely clear and free of debris	No	None
93	6/22/2023	543 Beulah Rd	Storage pipe with two segments	2006	Piney Branch	PL22	Public	Minor amount of sedimentation buildup in downstream inlet manhole, no immediate maintenance required.	No	None
95	7/3/2023	305 Salisbury Ln NW	Multiple storage pipe segments	2005	Piney Branch	PL22	Public	Minor amounts of sediment buildup in upstream inlet.	No	None
96	7/3/2023	404 Tapawingo Rd SE	Storage Pipe	2020	Piney Branch	PL22	Public	Completely clear and free of debris	No	None
92	6/16/2023	Vienna Community Center	Permeable parking pavement at Community Center	2018	Piney Branch	PL22	Public	Surface of pavement damaged at several areas, plenty of loose gravel noticed, vacuuming and sweeping of pavement required. Capital project anticipated for repair of facility.	No	Future Capital Prooject
94	6/13/2023	Vienna Town Hall BMP Retrofits	Bioretention behind Town Hall parking lot	2019	Piney Branch	PL22	Public	Some weed management and removal of leaf debris is required but facility appears to be operating as intended.	Yes	Contractor

More Stringent Single Family Residential Development - Structural Facilities

The following table demonstrates pollutant reductions achieved as a result of more stringent regulation of single family residential development under one acre as required by the Town's Stormwater Management Ordinance.
Reductions are from structural facilities designed in accordance with the VRRM.

Long	Lat	6th Order HUC	Watershed	Chesapeake Bay and/or TDML Compliance	House #	Street	Owner	BMP Type	Operation Date	IA Treated (Acres)	Total Treated (Acres)	Runoff Captured (CU FT)	TN Reduction	TP Reduction
-77.26146076	38.88736175	PL30	Accotink	Both	904	Olympian Cir SW	Private	Infiltration	10/4/2022	0.06	0.07	108.63	0.54	0.08
-77.26645513	38.88594110	PL30	Accotink	Both	904	Meadow Ln SW	Private	Infiltration	9/15/2022	0.06	0.25	90.00	0.65	0.09
-77.25406373	38.88490855	PL30	Accotink	Both	400	Walker St SW	Private	Detention and Nutrient Credits	8/19/2022	0.07	0.28	96.00	0.00	0.05
-77.25403155	38.89485318	PL30	Accotink	Both	105	Tapawingo Rd SE	Private	Infiltration	7/6/2022	0.05	0.09	50.00	0.54	0.08
-77.25346056	38.88791125	PL30	Accotink	Both	202	Yeonas Drive SW	Private	Infiltration	7/1/2022	0.03	0.12	207.00	0.85	0.12
-77.27445531	38.90582497	PL22	Difficult Run	Both	608	John Marshall Dr NW	Private	Bioretention	7/28/2022	0.02	0.02	40.00	0.24	0.02
-77.28015776	38.90507535	PL22	Difficult Run	Both	416	Blair Rd NW	Private	Bioretention	7/14/2022	0.05	0.05	69.00	0.49	0.06
-77.26557193	38.89684917	PL22	Difficult Run	Both	218	Cherry Street SW	Private	Bioretention	7/11/2022	0.07	0.26	68.00	0.49	0.06
-77.25116559	38.89439078	PL30	Accotink	Both	923	Park Street SE	Private	Impervious Runoff Reduction	7/8/2022	0.06	0.23	65.00	0.00	0.00
-77.26922541	38.90332671	PL22	Difficult Run	Both	115	Ayr Hill Ave NW	Private	Bioretention	7/14/2022	0.06	0.22	103.00	0.30	0.04
-77.25098719	38.88287236	PL30	Accotink	Both	1308	Ross Dr SW	Private	Nutrient Credit	7/28/2022	0.12	0.55	0.00	0.00	0.17
-77.26857586	38.88864904	PL30	Accotink	Both	705	Meadow Ln SW	Private	Infiltration	7/29/2022	0.06	0.06	140.00	0.55	0.08
-77.26823146	38.88596855	PL30	Accotink	Both	901	Myers Circle SW	Private	Bioretention	8/11/2022	0.03	0.04	120.00	0.42	0.06
-77.25531219	38.89446003	PL30	Accotink	Both	103	Tapawingo SW	Private	Bioretention	8/22/2022	0.03	0.03	40.00	0.30	0.04
-77.25978918	38.89163474	PL30	Accotink	Both	812	Cottage St SW	Private	Bioretention	8/11/2022	0.03	0.16	40.00	0.63	0.08
-77.26655566	38.88893144	PL30	Accotink	Both	606	Gibson Dr SW	Private	Bioretention and Nutrient Credit	9/7/2022	0.03	0.03	90.00	0.26	0.05
-77.25429022	38.89319638	PL30	Accotink	Both	107	Melody Lane SW	Private	Impervious Runoff Reduction	9/9/2022	0.07	0.24	50.00	0.00	0.00
-77.24774846	38.89788962	PL30	Accotink	Both	318	Owaissa Rd. SE	Private	Impervious Runoff Reduction	8/19/2022	0.11	0.36	60.00	0.00	0.00
-77.24906046	38.90930074	PL22	Difficult Run	Both	300	Niblick Dr. SE	Private	Infiltration	8/18/2022	0.10	0.10	299.00	1.36	0.00
-77.24704662	38.88792104	PL30	Accotink	Both	113	Casmar St SE	Private	Bioretention	12/14/2022	0.02	0.27	100.00	0.20	0.00
-77.26157832	38.88610151	PL30	Accotink	Both	1012	Mountfort Court, SW	Private	Bioretention	9/6/2022	0.08	0.37	157.00	0.45	0.00
-77.26649129	38.88833739	PL30	Accotink	Both	609	Tapawingo Rd SW	Private	Bioretention	9/15/2022	0.03	0.03	120.00	0.31	0.04
-77.26363756	38.89334813	PL22	Difficult Run	Both	611	Hillcrest Drive, SW	Private	Dry Swale	9/26/2022	0.07	0.15	40.00	0.84	0.11
-77.24687297	38.88200702	PL30	Accotink	Both	307	George St SW	Private	Infiltration	11/16/2022	0.04	0.11	140.00	0.80	0.11
-77.26205543	38.89533633	PL22	Difficult Run	Both	601	Birch St SW	Private	Bioretention	12/5/2022	0.05	0.05	40.00	0.60	0.06
-77.25633208	38.88635975	PL30	Accotink	Both	403	Yeonas Dr SW	Private	Infiltration	4/18/2023	0.03	0.04	90.00	0.48	0.00
-77.25343712	38.89531233	PL30	Accotink	Both	111	Tapawingo Road SE	Private	Bioretention	10/3/2022	0.07	0.08	40.00	0.69	0.08
-77.25460055	38.90832894	PL22	Difficult Run	Both	121	East St SE	Private	Impervious Runoff Reduction and Nutrient Credits	10/12/2022	0.11	0.50	56.00	0.00	0.00
-77.24768992	38.88839535	PL30	Accotink	Both	102	Fardale St SE	Private	Bioretention	11/15/2022	0.05	0.05	40.00	0.53	0.06
-77.25798463	38.88565116	PL30	Accotink	Both	413	Orleans Circle, SW	Private	Bioretention	11/10/2022	0.04	0.05	120.00	0.65	0.09
-77.24940593	38.90592164	PL22	Difficult Run	Both	606	Orrin St SE	Private	Bioretention	10/20/2022	0.04	0.04	40.00	0.36	0.04
-77.27335989	38.90557024	PL22	Difficult Run	Both	621	John Marshall Drive NW	Private	Infiltration	10/20/2022	0.02	0.07	140.00	0.30	0.04
-77.24874219	38.8892927	PL30	Accotink	Both	107	Yeonas Circle SE	Private	Bioretention	12/1/2022	0.08	0.11	40.00	0.90	0.11
-77.26461652	38.91633228	PL22	Difficult Run	Both	611	John Marshall Dr NE	Private	Infiltration	11/9/2022	0.07	0.07	140.00	0.61	0.09
-77.26751118	38.91087684	PL22	Difficult Run	Both	320	John Marshall Dr NE	Private	Bioretention	11/10/2022	0.03	0.03	40.00	0.33	0.04
-77.25567139	38.90053981	PL22	Difficult Run	Both	209	Whispering Wind Court SE	Private	Nutrient Credit	11/8/2022	0.15	0.39	49.00	0.00	0.03
-77.2600244	38.91247731	PL22	Difficult Run	Both	505	Creek Crossing Rd NE	Private	Bioretention	11/15/2022	0.05	0.12	120.00	0.64	0.08
-77.26637146	38.89705432	PL22	Difficult Run	Both	206	Courthouse Road, SW	Private	Impervious Runoff Reduction	11/10/2022	0.06	0.24	95.00	0.00	0.00
-77.25895565	38.88559991	PL30	Accotink	Both	416	Marshall Rd SW	Private	Infiltration	11/17/2022	0.05	0.05	140.00	0.00	0.06
-77.26531649	38.88663645	PL30	Accotink	Both	903	Potterton Circle SW	Private	Infiltration	11/15/2022	0.03	0.03	140.00	0.42	0.06
-77.26771412	38.89755407	PL22	Difficult Run	Both	214	Pleasant St SW	Private	Detention and Nutrient Credits	11/22/2022	0.10	0.42	212.50	0.00	0.09
-77.25600516	38.89086669	PL30	Accotink	Both	915	Plum St SW	Private	Bioretention	11/23/2022	0.07	0.27	58.00	0.42	0.21
-77.25423062	38.89642747	PL30	Accotink	Both	116	Elmar Street, SE	Private	Detention and Nutrient Credits	12/21/2022	0.07	0.28	133.00	0.00	0.07
-77.26686122	38.89231599	PL30	Accotink	Both	506	Meadow Lane, SW	Private	Bioretention	11/22/2022	0.06	0.23	62.00	0.18	0.02
-77.26279331	38.91204078	PL22	Difficult Run	Both	435	Nelson Drive NE	Private	Soil Amendments and Nutrient Credits	12/5/2022	0.13	0.50	207.00	0.00	0.21
-77.24967833	38.89392818	PL30	Accotink	Both	932	Park St SE	Private	Infiltration	12/13/2022	0.07	0.29	55.00	0.28	0.04
-77.2696921	38.89679512	PL22	Difficult Run	Both	220	Courthouse Cir SW	Private	Bioretention	12/7/2022	0.08	0.31	151.00	0.78	0.11
-77.26990319	38.89374253	PL30	Accotink	Both	245	Hillside Circle SW	Private	Infiltration	1/31/2023	0.07	0.31	71.00	0.36	0.06
-77.25502809	38.88712106	PL30	Accotink	Both	1101	Cottage St SW	Private	Impervious Runoff Reduction	12/9/2022	0.08	0.29	77.00	0.00	0.00
-77.26684652	38.88666515	PL30	Accotink	Both	617	Truman Circle SW	Private	Infiltration	1/17/2023	0.07	0.24	178.00	0.81	0.12
-77.25413208	38.90238721	PL22	Difficult Run	Both	514	Valley Drive SE	Private	Bioretention	12/7/2022	0.05	0.25	52.00	0.37	0.04
-77.24977403	38.88756095	PL30	Accotink	Both	100	James Drive SE	Private	Bioretention and Nutrient Credit	1/17/2023	0.06	0.28	28.00	0.20	0.02
-77.26579246	38.91355898	PL22	Difficult Run	Both	534	Beulah Road, NE	Private	Impervious Runoff Reduction and Nutrient Credits	12/16/2022	0.12	0.53	0.00	0.00	0.04
-77.24674503	38.88709795	PL30	Accotink	Both	108	Patrick St SE	Private	Bioretention	1/10/2023	0.06	0.24	52.00	0.37	0.00
-77.25274028	38.88490854	PL30	Accotink	Both	1201	Ross Dr SW	Private	Bioretention	12/30/2022	0.07	0.29	30.50	0.22	0.03
-77.26209159	38.89809887	PL22	Difficult Run	Both	110	Elm St SW	Private	Impervious Runoff Reduction	1/19/2023	0.06	0.24	15.00	0.00	0.02
-77.28226652	38.90028111	PL22	Difficult Run	Both	503	Roberts Dr NW	Private	Bioretention	1/30/2023	0.10	0.38	114.00	0.82	0.10
-77.26623086	38.89760222	PL22	Difficult Run	Both	214	Locust Street SW	Private	Bioretention	3/31/2023	0.06	0.23	41.00	0.30	0.04
-77.25323805	38.90074191	PL22	Difficult Run	Both	618	Ninovan SE	Private	Bioretention	1/26/2023	0.08	0.29	58.00	0.42	0.05
-77.25466691	38.89397403	PL30	Accotink	Both	905	Lullaby Lane SE	Private	Bioretention and Nutrient Credit	1/26/2023	0.08	0.30	66.00	0.48	0.07
-77.27340479	38.90640329	PL22	Difficult Run	Both	632	John Marshall Drive, NW	Private	Bioretention and Impervious Runoff Reduction	2/1/2023	0.06	0.23	13.00	0.00	0.00
-77.26562161	38.89698987	PL22	Difficult Run	Both	216	Cherry Street SW	Private	Bioretention	2/8/2023	0.07	0.27	48.00	0.34	0.04
-77.25634479	38.90519676	PL22	Difficult Run	Both	202	Branch Rd SE	Private	Nutrient Credits	3/23/2023	0.10	0.40	0.00	0.00	0.16
-77.25253723	38.89415723	PL30	Accotink	Both	104	Harmony Dr SE	Private	Infiltration	4/4/2023	0.07	0.28	66.00	0.34	0.05
-77.25340493	38.88211597	PL30	Accotink	Both	518	Walker Street SW	Private	Soil Amendments and Nutrient Credits	3/16/2023	0.09	0.38	100.00	0.00	0.08
-77.25758729	38.88631956	PL30	Accotink	Both	407	Orleans Cir SW	Private	Infiltration	3/16/2023	0.06	0.23	65.00	0.33	0.05

-77.26071062	38.91252168	PL22	Difficult Run	Both	508	Creek Crossing Rd NE	Private	Soil Amendments and Nutrient Credits	3/27/2023	0.06	0.20	103.00	0.00	0.04
-77.25600318	38.88356881	PL30	Accotink	Both	1107	Lakewood Drive SW	Private	Bioretention	4/13/2023	0.08	0.30	66.00	0.48	0.06
-77.26819729	38.90190175	PL22	Difficult Run	Both	132	Wilmar Place NW	Private	Infiltration	4/13/2023	0.08	0.35	105.00	0.54	0.08
-77.25682399	38.88191252	PL30	Accotink	Both	1114	Ware St SW Vienna	Private	Bioretention	3/30/2023	0.11	0.29	30.00	0.22	0.03
-77.24860672	38.92012501	PL22	Difficult Run	Both	430	Old Court House Rd NE	Private	Bioretention	4/12/2023	0.07	0.29	113.00	0.81	0.10
-77.26349412	38.89246143	PL30	Accotink	Both	626	Hillcrest Dr. SW	Private	Infiltration and Nutrient Credits	4/28/2023	0.14	0.54	166.00	0.86	0.20
-77.25678306	38.89096924	PL30	Accotink	Both	912	Plum Street SW	Private	Bioretention	4/21/2023	0.08	0.32	31.00	0.22	0.03
-77.2624635	38.89237904	PL30	Accotink	Both	639	Hillcrest Dr SW	Private	Infiltration	4/24/2023	0.12	0.50	84.00	0.43	0.07
-77.25393528	38.88133995	PL30	Accotink	Both	1216	Drake St SW	Private	Infiltration	6/9/2023	0.08	0.31	83.00	0.43	0.07
-77.25808119	38.89960827	PL22	Difficult Run	Both	503	Park St SE	Private	Bioretention	4/14/2023	0.13	0.38	112.00	0.80	0.10
-77.27032678	38.91243186	PL22	Difficult Run	Both	305	Roosevelt Ct NE	Private	Soil Amendments	4/25/2023	0.08	0.29	132.00	0.00	0.00
-77.26867441	38.90376856	PL22	Difficult Run	Both	103	Ayr Hill Ave NW	Private	Infiltration	4/27/2023	0.11	0.50	132.00	0.10	0.68
-77.26896725	38.88930784	PL30	Accotink	Both	615	Meadow Lane SW	Private	Bioretention	5/2/2023	0.08	0.35	83.00	0.59	0.05
-77.26715396	38.88941414	PL30	Accotink	Both	607	Gibson Dr SW	Private	Infiltration	5/22/2023	0.09	0.34	209.00	0.13	0.05
-77.26033474	38.91028403	PL22	Difficult Run	Both	420	Ayr Hill Ave NE	Private	Infiltration	6/2/2023	0.39	1.50	1016.00	4.64	0.66
-77.25110918	38.88850349	PL30	Accotink	Both	103	Yeonas DR SE	Private	Infiltration	6/20/2023	0.07	0.24	46.00	0.24	0.04
-77.27020478	38.90320086	PL22	Difficult Run	Both	246	Lawyers Rd NE	Private	Impervious Runoff Reduction	5/23/2023	0.11	0.44	178.00	0.00	0.00
-77.25161579	38.88383546	PL30	Accotink	Both	1216	Ross Dr SW	Private	Soil Amendments and Nutrient Credits	5/25/2023	0,07	0.27	96.00	0.00	0.06
-77.24774555	38.88301856	PL30	Accotink	Both	1408	Cottage St, SW	Private	Bioretention	6/26/2023	0.08	0.29	14.00	0.10	0.01
-77.26346869	38.89719342	PL22	Difficult Run	Both	202	Elm Street SW	Private	Infiltration	6/9/2023	0.09	0.34	328.00	1.50	0.21
-77.25373456	38.91901778	PL22	Difficult Run	Both	100	Overlook Ln NE	Private	Impervious Runoff Reduction	6/8/2023	0.07	0.32	102.00	0.00	0.00
-77.25133572	38.88489181	PL30	Accotink	Both	1206	Cottage St SW	Private	Detention and Nutrient Credits	6/30/2023	0.06	0.23	84.00	0.00	0.04
-77.26311148	38.91474859	PL22	Difficult Run	Both	413	Cynthia Lane NE	Private	Soil Amendments	6/28/2023	0.08	0.28	103.00	0.46	0.06
-77.26432169	38.88823495	PL30	Accotink	Both	904	Ware Street SW	Private	Bioretention	6/20/2023	0.07	0.29	41.00	0.30	0.04
												TOTAL REDUCTION	**36.60**	**6.58**

BMPs installed to meet Virginia Stormwater Management Program requirements should NOT be submitted through the BMP Warehouse. This BMP data is already collected by DEQ from the Stormwater Construction General Permit database.

More Stringent Commercial Development - Structural Facilities

The following table demonstrates pollutant reductions achieved as a result of commercial development over one acre as required by the Town's Stormwater Management Ordinance.
Reductions are from structural facilities designed in accordance with the VRRM.

Long	Lat	6th Order HUC	Watershed	Chesapeake Bay and/or TDML Compliance	House #	Street	Owner	BMP Type	Operation Date	IA Treated (Acres)	Total Treated (Acres)	Runoff Captured (CU FT)	TN Reduction	TP Reduction

NOTE: No new commercial development in Town of Vienna from 2022 - 2023.

TOTAL REDUCTION	**0.00**	**0.00**

APPENDIX F

Pollution Prevention and Good Housekeeping (MCM #6)

Police Spill Response Training Confirmation Sheet

Pollution Prevention Training Sign-In Sheet

Pollution Prevention Training Presentation

Completed Northside Property Yard SWPPP Routine Inspection Checklists

Completed New Nutley Street Maintenance Yard SWPPP Routine Inspection Checklists

Police Spill Response Training

Spill Training Roster				
Rank	Name	Unit #	Training Date	Signature
	ADMIN			
Col.	J. Morris	1	7-25-23	
Maj.	D. Janickey	2	7-26-23	
Capt.	T. Taylor	71	7/25-23	
Capt.	A. Sylmar	75	7/26/23	
Capt.	T. Farhan	78	7/26/23	
	A-SQUAD			
Sgt.	J. Sheeran	76	7/26/23	
MPO				
PFC	J. Carne	147	7/25/23	
Ofc.	I. Rodriguez	152	7/26/23	
Ofc.	P. Stroh	149	7/26/23	
	B-SQUAD			
Sgt.	C. Tracy	113	7/27/23	
MPO	M. Lyons	109	7/27/23	#109
MPO	B. Tremont	114	7-27-23	114
PFC	A. Murray	137	7/27/23	137
PFC	E. Keyser	144	7/27/23	
Ofc.	S. Ebrahimi	154	7/27/23	
	C-SQUAD			
Sgt.	A. Slebonick	120	8-15-23	
MPO	K. Smith	98	8-15-23	
PFC	C. Garcia	145	8-15-23	
PFC	A. Mayar	146	8-15-23	
Ofc.	Harshfield	153	8-15-23	
	D-SQUAD			
Sgt.	P. Elias	37	7-25-23	#37
MPO	N.P. Shaw	94	7-25-23	
PFC	J. Sterling	125	7-25-23	
PFC	M. Gucwa	136	7-25-23	
PFC	D. Reed	142	7-25-23	
PFC	P. Crandall	143	7-25-23	143
Ofc.	C. Fitchue	151	7-25-23	
	TRAFFIC			
Sgt.	P. Kiley	111	7-25-23	
MPO	E. Hall	50	7-25-23	#50
MPO	C. Shaver	88	7/27/23	#88
~~MPO~~	~~D. Bailey~~ Retired	~~91~~		
PFC	D. McElhattan	138	7-25-23	
	CIS			
Sgt.	K. Ruddy	104	8-15-23	
MPO	S. Simon	97	8-15-23	
MPO	G. Hylinski	122	8-15-23	
MPO	M. Herrera	118	7-25-23	#118
MPO	B. Reedy	119	8-15-23	
	COMMUNICATIONS			
MPO	J. Vazquez	108	7/26/23	
MPO	M. Finelli	105	7/26/23	

Public Works Training

SIGN-IN SHEET

Project:	Stormwater Pollution Prevention Workshop for Public Works	**Meeting Date:**	Wednesday August 23, 2023 2 – 3 PM
Facilitator:	Alan Chen, Water Resource Engineer	**Place/Room:**	Lunch Room Northside Property Yard 600 Mill St

Division	Print Name	Signature	Date
WES	Frank Torre		8-23-23
Stormwater	Brandon Kam		8-23-23
Storm	Alan Chen		8-23-23
W&S	Marvin Lawrence		8/23-23
W/S	Tanvir Khan		8-23-23
W/S	Naeem Khan		8-23-23
W/S	Edgar Soto		8-23-23
W/S	JOHN OWENS		8-25-23
W/S	MOHIN KHAN		8-23-23
W/S	SAM VICK		8-23-23
W/S	Austin Cornell		8-23-23
VM	Katrina Pruitt		8/23/23
W&S	Gilbert Robinson		8-23-2023
W&S	Eduardo Galla		8/23/23
FLOC VM	Luis SANTAMARIA		8/23/23
VM	Steve Garza		8-23-23

Division	Print Name	Signature	Date
VM	Doug Hinken		8/23/23
VM	Chris Landis		8/23/23
VM	Melissa Turner	M. Turner	8/23/23
W&S	Elbachir Bourharas		8/23/23
W/S	Abdel Kalyum	A. Kalyum	8/25/23

SIGN-IN SHEET

Project:	Stormwater Pollution Prevention Workshop for Operations	**Meeting Date:**	Tuesday, September 5 2023
Facilitator:	Alan Chen	**Place/Room:**	Northside Property Yard

Print Name	Signature	Date
Alan Chen		9/5/23
Marshall Stalker		9-5-23
Jonathan Worden		9/5/2023
Chris Connady		9/5/2023
Mohammed		9/5/23
Pablo Quintanilla		9/5/23
Jeremy Ashley		9/5/23
Thomas Smith		9-5-23
Wayne WALKER		9-5-23
Manuel Rios		9-5-23
Denis Q		9/5/23
SERGIO GARCIA		9/5/23
Mohammad Patel		9-5-23
George Hart		9/5/23
Kevin Grayson		9/5/23
Emil Espinoza		9/5/23
Abdurehmon Tafary		9/5/23
Steve Hey		9-5-23

Print Name	Signature	Date
Dishon Thomas		9/5/23
Emily Goodmac	EG	9.5.23
David Mickens		9/5/23
Ogeil Campbell	OC	9/5/23
Aaron Koston		9 5 23
FAZal Rabi		9-5-23
Alexis Deagan		5 Sept 23
PARVEZ KHAN		9-5-23
André Ferguson Jr.		9-5/23
SHONT GARCIA		9/5/23
JOSE Zelaya		9/5/23
Charles Gorham		9/5/23
Omar Fleming		9/5/23
Timmy Oner		

STORMWATER POLLUTION PREVENTION WORKSHOP

August 2023 – Northside Property Yard

1

2023 Workshop Focus

2

- Stormwater Pollution Prevention
- Detecting Illegal Discharges
- Northside Property Yard Stormwater Prevention Plan
  - Permit Requirements
  - Potential Sources of Pollution
  - Good Housekeeping Techniques

2

What is stormwater?

3

- Stormwater is water flowing over the land during and immediately after a rain storm or snow event into the Town's storm sewer inlets and catch basins.
- Stormwater flows through the storm drains untreated into our local streams carrying with it debris, dirt, chemicals, along with many other materials.

3

The Urban Watershed Problem

4

- Chesapeake Bay Regulated Pollutants


Phosphorus


Nitrogen


Sediment

- Sources of Pollutants
  - Yard fertilizers
  - Plant and yard waste
  - Leaking garbage and dumpsters
  - Dog waste
  - Construction sites and bare or exposed land

4

Urban Watershed Pollution Prevention

5

- Best Management Practices (BMP)
  - Examples: Pervious Pavement, Infiltration Trenches.
- Stream Restorations slow storm velocities and remove pollutants.



5

Urban Watershed Pollution Prevention

6

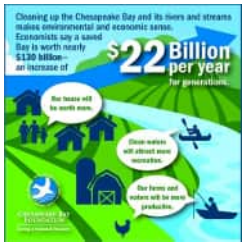
- Community education and volunteer clean-up events.
- **Staff training** and best practices.


6

Why do we care?

7

- Regional impact:
  - Health of the Potomac River and the Chesapeake Bay.



7

Why do we care?

8

- Local Impact:
  - Quality of Town streams and quality and cost of drinking water.

8

Why do we care?

9

- The regulations:

EPA
- Clean Water Act

DEQ
- Virginia Water Control Law

TOV
- Municipal Separate Storm Sewer (MS4) Permit

9

MS4 Permit Requirements

10

- Prohibits all non-stormwater discharges unless explicitly authorized.
- Requires the Town to develop the following:
  - MS4 Program Plan for the entire Town.
  - Stormwater Pollution Prevention Plan (SWPPP) for the Northside Property Yard and Nutley Property Yard.
  - Standard Operating Procedures (SOPs) for potential pollution-causing Town operations.
- Establishes specific documentation and reporting requirements.

10

POP QUIZ!

11

- **Question 1:**

  How much can the Town be fined if we violate our MS4 permit?

- **Answer 1:**

  $32,500 per violation, per day!

11

POP QUIZ!

12

- **Question 2:**

  True or False? Town crews are allowed to discharge water from vehicle and equipment washing to the storm drain system.

- **Answer 2:**

  False! Wash water from Town operations must go to the sanitary sewer from the designated wash bay.

  But…Individual residential car washing is permitted.

12

POP QUIZ!

13

- **Question 3:**
  True or False? Sump pumps, foundation drains, and footing drains are allowed to discharge water to the storm drain system.
- **Answer 3:**
  True! These are permitted discharges of groundwater.
  Key word = groundwater.

13

POP QUIZ!

14

- **Question 4:**
  True or False? Water line flushing is allowed discharge water to the storm drain system.
- **Answer 4:**
  True….BUT it must be DECHLORINATED.

14

What is allowed?

15

- Dechlorinated water line flushing
- Landscape irrigation
- Discharges of potable water
- Foundation and footing drains
- Air conditioning condensation
- Water from crawl space pumps
- Individual residential car washing
- Dechlorinated swimming pool discharges
- Street wash water

15

What is not allowed?

16

- Everything else!

16

RECOGNIZING AND REPORTING ILLICIT DISCHARGES

17

What is an illicit discharge?

18

- Staff are an important component of finding illicit discharges throughout the Town.
- An illicit discharge is the discharge of anything other than stormwater unless allowed by permit.
- **This includes discharges on Town property and private property.**
- **The Town's permit requires all field personnel to be trained in recognizing illicit discharges.**

18

Signs of an Illicit Discharge

19

- Some illicit discharges are obvious – but not always!
- The key is to be observant.
- Is there an unusual odor?
  - Petroleum?
  - Rotten Eggs?
  - Sewage?
  - Rancid/sour?
  - Chlorine?
- Is the water discolored, sudsy, or oily?
- Are there deposits or stains visible?

19

Reported Discharges around Town

20

Cooking Oil and Grease

20

Reported Discharges around Town

21

Illegal Dumping of Cooking Oil/Grease, Trash and Debris

Uncovered storm water drain reveals trash and debris has impacted intended operation

21

Reported Discharges around Town

22

Trash and Leaking Dumpster

22

Reported Discharges around Town

23

Restaurant wash water and cleaning chemicals sprayed into storm drain.

Mop water and wash water from cleaning activities must be disposed of in a mop sink or similar sink INDOORS and never outdoors.

23

Reported Discharges around Town

24

Sediment from Construction Activities

24

Reported Discharges around Town

25

25

Reported Discharges around Town

26

26

Reported Discharges around Town

27


27

Town Contact for Illicit Discharges

28

- **Alan Chen**
  - **Office (703) 319-8610**
  - **Cell (571) 330-5733**

Emergency Spill Contacts

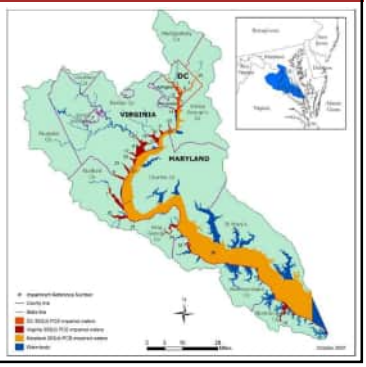
- (1) Town Public Works
  - Office (703) 255-6380
- (2) Dept. of Environmental Quality (DEQ) Northern Regional Office
  - Office (703) 683-3800
  - After Hours (800) 468-8892
- (3) Fairfax County Police and Fire **AND**
  - 911 for an active spill event
  - Non-Emergency Contact (703) 691-2131 (Not active spill event, no immediate hazard)
- (4) Fairfax County Fire Marshal's Office
  - Hazardous Materials Services (703) 246-4386

28

Polychlorinated Biphenyls (PCBs)

29

- The Potomac River is contaminated with PCBs.
- Manufacture of PCBs, a legacy pollutant, was banned in 1979.
- Health risks include cancer and damage to the nervous system.
- Because it does not break down, it still persists in the environment.



29

Sources of PCBs

30

- PCBs were used as coolants and insulators.
- And were used in the manufacture of transformers, hydraulic equipment, electrical equipment, and building materials including improperly discarded pre-1979 building caulk.
- Improperly discarded fluorescent light ballast manufactured prior to 1979.
  - An electronic ballast does not contain PCBs and is clearly labeled as an electronic ballast.
  - Magnetic ballast is assumed to contain PCBs unless specifically labeled "No PCBs."
- Improperly discarded or accidentally damaged transformers. Some existing Dominion transformers may contain small amounts above reportable thresholds.
- Other electrical equipment containing substances the trade names Aroclor, Pyranol, Inerteen, and Noflamol.

30

Sources of PCBs

31

A typical pre-1979 PCB-containing fluorescent light ballast (F1.5)

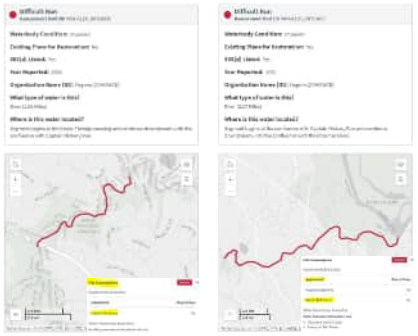
A typical Non-PCB containing fluorescent light ballast. The ballast has a "No PCBs" marking on the top of the ballast and the text "electronic ballast". Only magnetic fluorescent light ballasts contained PCBs.

31

PCBs Detected in Local Waterways

32

- PCBs do not decay, and instead settle into sediment of waterways or absorb into terrestrial soil.
- Can be released when illegal and improper dumping of PCB-containing wastes from **legacy electrical transformers** occurs.
- PCBs have been detected in fish in local river, Difficult Run from near Route 7 to its confluence with the Potomac River.

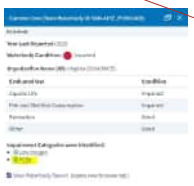


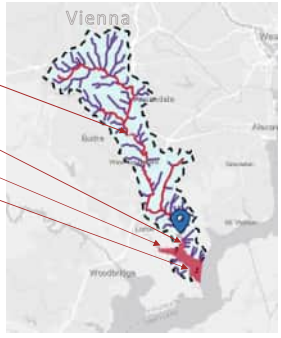
32

PCBs Detected in Accotink Watershed

33

- Lake Accotink
- Accotink Bay
- Pohick Bay
- Gunston Cove



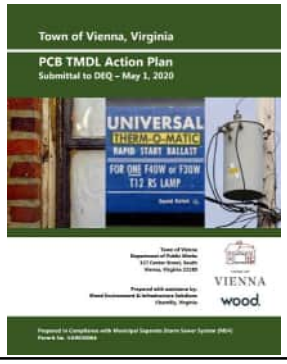


33

Recognizing PCBs

34

- Over the years, Town has conducted reviews of all businesses, industries and public-owned properties and found no potential sources of PCBs.
- While Dominion may have transformers in Town, these facilities are not subject to leaking or spilling. Dominion is also able to promptly respond to any incidents.
- PCBs are likely found at older residences and buildings or areas where illegal dumping may occur. Banned in 1979.



34

Report Potential PCBs Immediately!

35

- Report potential sources of PCBs to the Town immediately
- Do NOT try to handle the material yourself
- Contact Alan Chen,
  Town Water Resources Engineer
  - Office 703-319-8610
  - Mobile 571-330-5733

35

OUT AND AROUND TOWN

36

Before you leave…

37

- Check the weather.
- Bring brooms and other equipment to clean up loose materials.
- Bring a tarp to cover stockpiled materials.
- Ask, do I really need it at the site?

?

37

At the site…

38

- Employ storm inlet protection if working near a storm drain.
- Conduct routine site inspections.
- Broom sweep or vacuum surfaces frequently.
- If it is necessary to hose or blow materials, direct them toward a grassy area.

38

At the site…

39

- Minimize water for cutting and milling.
- All materials, including removal of paint by high pressure water or grinding, must be collected and disposed of properly.

39

At the site…

40

- Utilize sediment bags for dewatering operations.
- Consider the correct dewatering bag size.

40

Sand, Dirt, and Gravel

41

- Minimize the amount and time of storage.
- Store under cover when possible.
- Sweep area around the pile frequently.
- Locate piles away from inlets.
- Provide inlet protection.

41

Liquid Storage

42

- What improvements could be made in this photo?

42

Liquid Storage

43

- Place containers on an even and stabile surface.
- Place away from storm drain inlet.
- Ensure that the containers are away from active vehicular traffic.
- Keep a spill kit in proximity.

43

Be prepared for a possible leak or spill

44

- Clear access to storage drums and containers.
- Label all hazardous substance containers.
- If in the field, bring a spill kit with you!

30 Gallon Spill Kit

44

Northside Spill Kit #1

45

45

Northside Spill Kit #2

46

46

Northside Spill Kit #3 and #4

47

47

Take ownership of the situation.

48

- Clean up spills and drips promptly.
- Sweep up used dry absorb and dispose.
- **Any spill requires attention.**
- **There is no minimum amount.**

48

Take ownership of the situation.

49

49

Spill Reporting

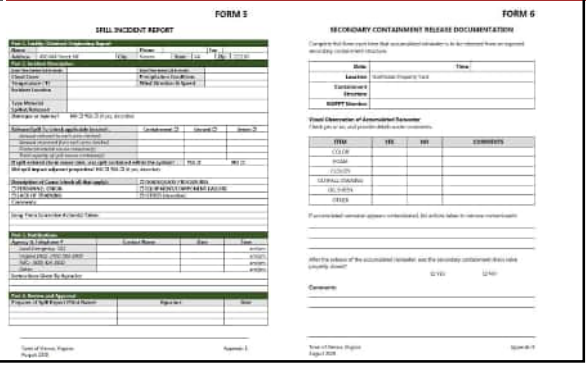
50

- After the spill is controlled, contained and recovered…
- **Small Spill**
  - No significant harm (or threat) to human health and safety or to the environment.
  - Easily controlled and does not reach water source.
  - Typically less than 25 gallons of oil.
  - Complete Small Spill Report posted on bulletin board.
  - Return report to Alan Chen and notify supervisor.
- **Significant Spill**
  - Potential hazard to human health and safety or to the environment.
  - Discharge enters surface waters.
  - Contact Alan Chen and notify supervisor (Emergency number on tank).
  - Complete Significant Spill Report posted on bulletin board.
  - Contact Emergency Services (HAZMAT, FFX FD, DPW, and DEQ) .

50

Know Your Reporting Forms

51



51

Fueling Station Requirements

52

- Spills at the tank need to be reported to Vehicle Maintenance or Supervisor.
- Call emergency number posted on tank for after hours accidents.
- You are responsible while fueling vehicles; do not share ID # for fueling.

52

POP QUIZ!

53

- **Question 5:**

  True or False? Sand should be used on spills to absorb excess material.

- **Answer 5:**

  False. Due to the grain size sand does NOT have absorbent properties.

  Use loose absorbent, pads or booms (or even kitty litter).

53

POP QUIZ!

54

- **Question 5:**

  True or False? If a spill is cleaned before it reaches the storm drain, it does not need to be reported on the Northside Spill Log.

- **Answer 5:**

  False, all spills need to be reported.

  Reminder: Forms on bulletin board near lunchroom.

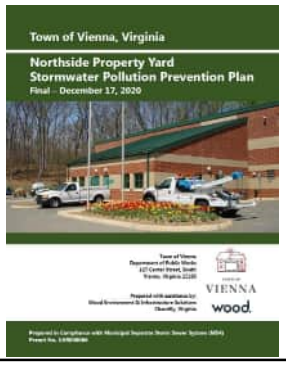
54

GOOD HOUSEKEEPING PRACTICES

55

Northside Property Yard SWPPP

- Last update finalized December 17, 2020.
- Materials can be swept, blown or washed into the storm drains ending up in local streams where they degrade water quality and harm aquatic life.
- Keeping pollutants out of our storm drain systems protects the Chesapeake Bay.



56

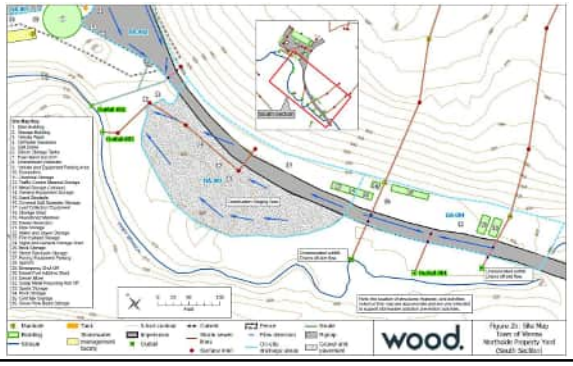
Northside Yard (North) Drainage Map

57

57

Northside Yard (South) Drainage Map

58

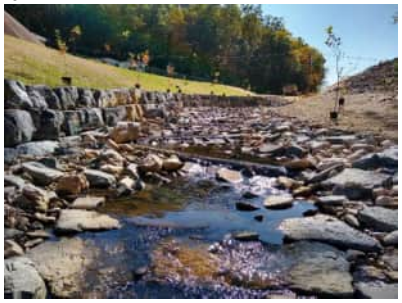


58

Northside Drainage Outfall

59

- Piney Branch



59

Potential Pollutant Sources

60

60

Dumpsters/ Waste Management

61

- **Dumpster should be covered when not actively in use.**
- If dumpster is full with trash overflowing, empty more frequently.


61

Is the site free of litter and debris?

62

- Litter should be picked up and disposed of properly.
- Floatables, especially plastics, are becoming a greater focus.


62

Used PPE goes in the trash…

63

- If a trash can is available, throw masks, gloves and wipes into it.
- If you are not near a trash bin, place used PPE in a bag until it can be discarded.

63

Outdoor containers

64

- Container could easily tip and spill contents.
- Sudden storm could mix with water.
- Always store open liquid materials indoors.
- Properly store/dispose of used containers that are no longer in use.


64

Have spills been properly cleaned up?

65

- Recent spills, drips, and leaks should be cleaned up routinely using absorbent.
- Ensure that absorbent is properly disposed of BEFORE next rain event.

65

Storage of used items

66

- Store tires, containers and other items indoors when possible, to avoid exposure to rain and runoff.
- If stored outdoors, proper containment and cover should be provided.


66

Scrap Metal

67

- These items can be recycled:
  - Steel, copper, brass, aluminum, etc.
  - Ranges, microwaves
  - Lawn mowers (gas tank removed)
  - Fire hydrants, manhole covers, old pipes, valves
  - Sign posts, old tools

67

Sediment and debris

68

- Sediment tracked onto pavement from vehicle.
- Accumulated sediment should be periodically swept.
- The Town is assigned pollutant reduction requirements for sediment. Every bit matters.
- Conduct cleanup of areas with heavy oil and grease buildup.

68

Stockpiles

69

- Tarp is a good best practice.
- Sweep frequently after loading/unloading or before precipitation.
- **Keep trash out of stockpile areas; litter should be placed in dumpsters at all times.**

69

Stockpiles

70

70

Is salt storage swept free of material?

71

- Frequent sweeping will keep salt from mixing with stormwater and leaving the site.
- **Secondary containment for salt brine has been implemented!**

71

Dewatering Pit at Northside

72

- Dewatering bags remove silt, sand, and other debris from pumped water on construction sites, ponds, dredging locations and more.
- This helps protect surrounding streams and property, storm sewers and other receiving waters from pollution in addition to minimizing erosion concerns.

72

Three key take-aways!

73

- If it isn't uncontaminated stormwater, and not explicitly allowed in the Town's permit, it is an illicit discharge.
- Preventing pollution is the most effective control measure.
- You have a personal responsibility to act – when in doubt, report an issue.

73

Questions?

Contact: Alan Chen
Alan.Chen@viennava.gov
703-319-8610

74

Town of Vienna Quarterly Inspection Checklist

Date: March 30, 2023	Building/Area: Northside Property Yard	Inspector: Alan Chen

1. Good Housekeeping Procedures	Yes	No	N/A	Observations/Required Actions
Are work areas and floors clean and dry?	X	☐	☐	
Are brooms, dust pans, and mops on hand for easy access?	X	☐	☐	
Have all areas been inspected for visible leaks or potential discharges of significant materials?	X	☐	☐	
Are containment areas in good condition, with valves closed?	X	☐	☐	
Are dumpsters closed?	☐	X	☐	See Note 1
Is the site free of litter and debris?	☐	X	☐	Stockpile areas are in poor condition with excessive litter. See Note 3.
Are catch basins and other inlets to the storm drain system free from trash?	X	☐	☐	.
2. Materials Handling and Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is there adequate aisle space and organization in all storage areas so that any corrosion or leaks can be detected early?	X	☐	☐	
Have proper security measures been taken for storage areas?	X	☐	☐	
Are all containers labeled with contents on the appropriate label?	X	☐	☐	
Are Safety Data Sheets available for all chemical substances?	X	☐	☐	
Are all containers that are not in use closed?	☐	X	☐	See Note 1
Are containers stored indoors and away from entrances whenever practical?	X	☐	☐	
Are maintenance activities conducted indoors whenever practical?	X	☐	☐	

If outdoors, are containers protected from precipitation and runoff whenever practical?	X	☐	☐	See Note 3
Are containers protected from vehicular traffic?	X	☐	☐	
Have all containers been inspected and are they generally in good condition?	☐	X	☐	See Note 1
Do all containers have secondary containment?	☐	X	☐	The Town is working on constructing stockpile canopies but salt brine tanks now have secondary containment. See Note 2.
3. Spill Prevention and Response	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is emergency/contingency equipment accessible in close proximity to storage areas (spill kits, drip pans, etc.)?	X	☐	☐	
Have all spills been properly cleaned up and disposed of properly?	X	☐	☐	
4. Pump Inspection	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have fuel pumps been inspected?	X	☐	☐	
Have oil pumps been inspected?	X	☐	☐	
Have other pumps been inspected?	X	☐	☐	
Has mobile equipment been inspected for potential leaking fluids?	X	☐	☐	
5. Structural Control Devices	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Has the Stormceptor been inspected at least once annually?	X	☐	☐	Stormceptor was cleared in 2022 and inspected in 2023 with no issues.
Is the most recent Stormceptor inspection included in the SWPPP?	X	☐	☐	
Has the oil water separator been inspected?	X	☐	☐	
Has the vehicle wash catch basin been inspected for sediment build-up?	X	☐	☐	

6. Scrap Metal Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have scrap parts and empty drums no longer in use been removed from the property?	X	☐	☐	See Note 3
7. Erosion and Sediment Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the facility free of bare areas that could result in soil erosion?	☐	X	☐	
8. Salt Storage Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the salt storage area protected from run-on of stormwater?	X	☐	☐	
Is the area around the salt storage area swept after each use and free of material that could mingle with stormwater?	X	☐	☐	
9. Fueling Operations	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the spill kit fully stocked at the fuel station and accessible for use?	X	☐	☐	
Is all signage in good, readable condition?	X	☐	☐	
Have fire extinguishers been tested and are they accessible for use?	X	☐	☐	
10. Vehicles and Equipment Maintenance and Washing	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are vehicles and equipment checked for leaking fluids?	X	☐	☐	
Are drip pans and spill kits located within easy access of vehicle and equipment storage areas?	X	☐	☐	
Are maintenance activities performed indoors when practical?	X	☐	☐	
Is wash water contained or otherwise kept out of the storm drainage system?	X	☐	☐	
Is there any build-up of pollutants in vehicle parking areas, and if so, is there a plan for removal in accordance with the SWPPP?	☐	X	☐	
11. Other Indicators of Illicit Discharges	**Yes**	**No**	**N/A**	**Observations/Required Actions**

Is the facility clear of any signs of potential illicit discharges such as odors, staining, sheen, residue, etc.?	☐	X	☐	See Note 4.
12. Personnel Training and Record Keeping	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is a program in place to train employees on pollution prevention and the Town's good housekeeping SOPs?	X	☐	☐	
Are employees trained on proper spill prevention and response for the materials that they handle?	X	☐	☐	Formal training conducted on June 2022.

Reference Section 5.2

Inspection Notes	Photos
1) Observation: Dumpster's onsite were not closed at the time of the inspection. One dumpster at the designated waste location on the eastern portion of the site had a missing section of the lid. Scrap metal dumpster also does not contain a lid and is severely rusted. These containers should be repaired or replaced as needed. Both dumpsters were overflowing with trash and debris. **Recommendations:** • Dumpsters should remain closed at all times when not in use. • The dumpster lid should be replaced as soon as possible. • All dumpsters onsite should have properly functioning lids. Long term solution may require additional dumpsters and/or a	

canopy roof above the facility.	
2) Observation: Secondary containment added for salt brine containers. Additional canopies for stockpile area is currently under design and should be under construction in FY 2023. **Recommendations:** • Canopy over stockpile areas.	 b
3) Observation: Excessive trash and personal litter observed in stockpile areas, which has been a recurring issue. Additionally, a vehicle oil spill was observed with absorbent kitty litter. **Recommendations:** • Stockpile areas were immediately cleared of all trash and debris and kitty litter used to absorb previous spill was also cleaned. Supervisors were asked to inform staff to avoid using stockpile areas as a dumpster.	

4) Observation: Some mild staining of pavement from vehicle fluids **Recommendation:** • Emphasis on spill cleanup and completing spill logs in Staff Stormwater training utilizing absorbent materials.	

Town of Vienna Quarterly Inspection Checklist

Date: June 30, 2023	Building/Area: Northside Property Yard	Inspector: Alan Chen

1. Good Housekeeping Procedures	Yes	No	N/A	Observations/Required Actions
Are work areas and floors clean and dry?	X	☐	☐	
Are brooms, dust pans, and mops on hand for easy access?	X	☐	☐	
Have all areas been inspected for visible leaks or potential discharges of significant materials?	X	☐	☐	
Are containment areas in good condition, with valves closed?	X	☐	☐	
Are dumpsters closed?	☐	X	☐	See Note 1
Is the site free of litter and debris?	X	☐	☐	
Are catch basins and other inlets to the storm drain system free from trash?	X	☐	☐	Culvert north of main building was clogged. Cleared after inspection. See Note 3.
2. Materials Handling and Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is there adequate aisle space and organization in all storage areas so that any corrosion or leaks can be detected early?	X	☐	☐	
Have proper security measures been taken for storage areas?	X	☐	☐	
Are all containers labeled with contents on the appropriate label?	X	☐	☐	
Are Safety Data Sheets available for all chemical substances?	X	☐	☐	
Are all containers that are not in use closed?	☐	X	☐	See Note 1
Are containers stored indoors and away from entrances whenever practical?	X	☐	☐	
Are maintenance activities conducted indoors whenever practical?	X	☐	☐	

If outdoors, are containers protected from precipitation and runoff whenever practical?	☐	X	☐	See Note 3
Are containers protected from vehicular traffic?	X	☐	☐	
Have all containers been inspected and are they generally in good condition?	☐	X	☐	
Do all containers have secondary containment?	☐	X	☐	The Town is working on constructing stockpile canopies but salt brine tanks now have secondary containment. See Note 2.
3. Spill Prevention and Response	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is emergency/contingency equipment accessible in close proximity to storage areas (spill kits, drip pans, etc.)?	X	☐	☐	
Have all spills been properly cleaned up and disposed of properly?	X	☐	☐	Spill logs were emphasized in stormwater training.
4. Pump Inspection	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have fuel pumps been inspected?	X	☐	☐	
Have oil pumps been inspected?	X	☐	☐	
Have other pumps been inspected?	X	☐	☐	
Has mobile equipment been inspected for potential leaking fluids?	X	☐	☐	
5. Structural Control Devices	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Has the Stormceptor been inspected at least once annually?	X	☐	☐	Stormceptor was cleared in 2022 and inspected in 2023 with no issues..
Is the most recent Stormceptor inspection included in the SWPPP?	X	☐	☐	
Has the oil water separator been inspected?	X	☐	☐	
Has the vehicle wash catch basin been inspected for sediment build-up?	X	☐	☐	

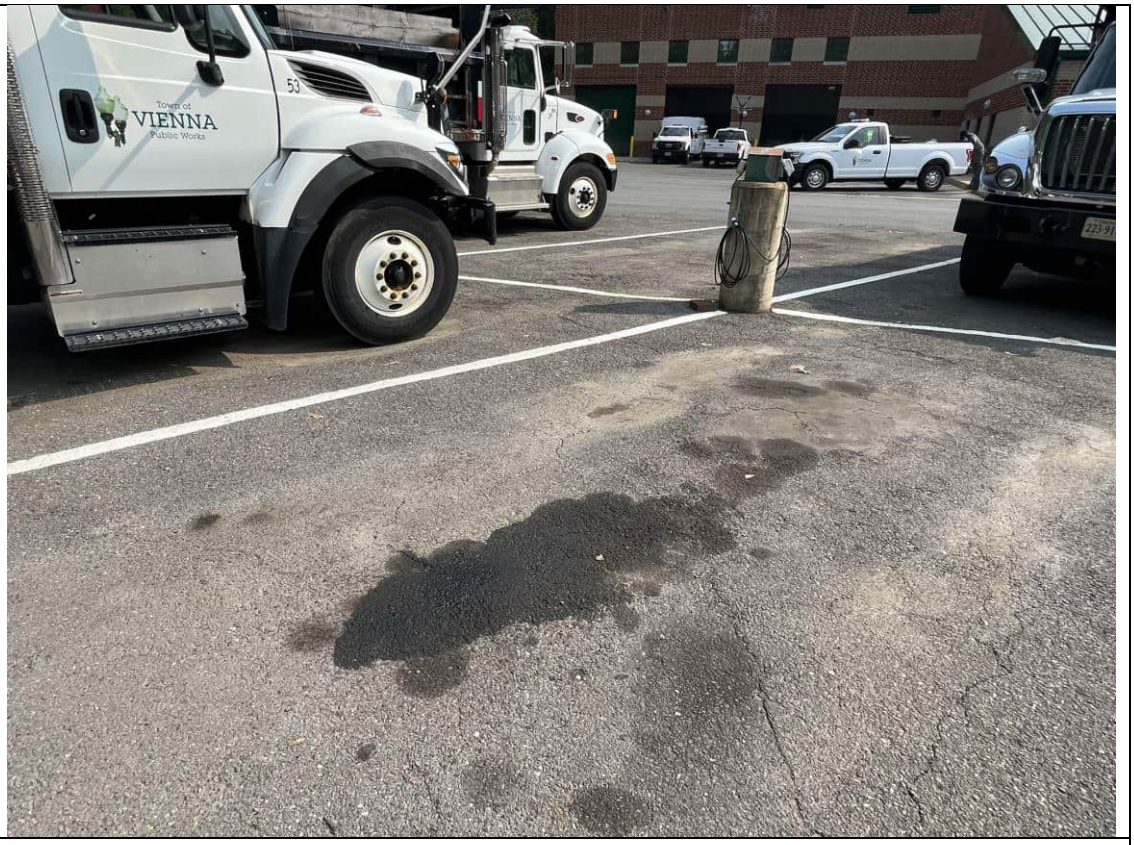
6. Scrap Metal Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have scrap parts and empty drums no longer in use been removed from the property?	X	☐	☐	See Note 3
7. Erosion and Sediment Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the facility free of bare areas that could result in soil erosion?	☐	X	☐	
8. Salt Storage Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the salt storage area protected from run-on of stormwater?	X	☐	☐	
Is the area around the salt storage area swept after each use and free of material that could mingle with stormwater?	X	☐	☐	
9. Fueling Operations	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the spill kit fully stocked at the fuel station and accessible for use?	X	☐	☐	
Is all signage in good, readable condition?	X	☐	☐	
Have fire extinguishers been tested and are they accessible for use?	X	☐	☐	
10. Vehicles and Equipment Maintenance and Washing	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are vehicles and equipment checked for leaking fluids?	X	☐	☐	
Are drip pans and spill kits located within easy access of vehicle and equipment storage areas?	X	☐	☐	
Are maintenance activities performed indoors when practical?	X	☐	☐	
Is wash water contained or otherwise kept out of the storm drainage system?	X	☐	☐	
Is there any build-up of pollutants in vehicle parking areas, and if so, is there a plan for removal in accordance with the SWPPP?	☐	X	☐	
11. Other Indicators of Illicit Discharges	**Yes**	**No**	**N/A**	**Observations/Required Actions**

Is the facility clear of any signs of potential illicit discharges such as odors, staining, sheen, residue, etc.?	☐	X	☐	See Note 4.
12. Personnel Training and Record Keeping	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is a program in place to train employees on pollution prevention and the Town's good housekeeping SOPs?	X	☐	☐	
Are employees trained on proper spill prevention and response for the materials that they handle?	X	☐	☐	Formal training conducted on August and September 2023.

Reference Section 5.2

Inspection Notes	Photos
1) Observation: Dumpster's onsite were not closed at the time of the inspection. One dumpster at the designated waste location on the eastern portion of the site had a missing section of the lid. Scrap metal dumpster also does not contain a lid and is severely rusted. These containers should be repaired or replaced as needed. Both dumpsters were overflowing with trash and debris. **Recommendations:** • Dumpsters should remain closed at all times when not in use. • The dumpster lid should be replaced as soon as possible. • All dumpsters onsite should have properly functioning lids. Long term solution may require additional dumpsters and/or a	

canopy roof above the facility.	
2) Observation: Secondary containment added for salt brine containers. Additional canopies for stockpile area is currently under design and should be under construction in FY 2023. **Recommendations:** • Canopy over stockpile areas.	
3) Observation: Clogged culvert North of the Property Yard main building. **Recommendations:** • Culvert cleared after inspection was completed.	

4) Observation: Some mild staining of pavement from vehicle fluids **Recommendation:** • Emphasis on spill cleanup and completing spill logs in Staff Stormwater training utilizing absorbent materials. •	

Town of Vienna Quarterly Inspection Checklist

Date: June 30, 2023	Building/Area: Nutley Street Maintenance Yard	Inspector: Alan Chen

1. Good Housekeeping Procedures	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are work areas and floors clean and dry?	X	☐	☐	
Are brooms, dust pans, and mops on hand for easy access?	X	☐	☐	
Have all areas been inspected for visible leaks or potential discharges of significant materials?	X	☐	☐	
Are dumpsters closed?	☐	X	☐	See Note 1
Is the site free of litter and debris?	☐	X	☐	See Note 2
Are catch basins and other inlets to the storm drain system free from trash?	☐	X	☐	See Note 3
2. Materials Handling and Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is there adequate aisle space and organization in all storage areas so that any corrosion or leaks can be detected early?	X	☐	☐	
Are all containers labeled with contents on the appropriate label?	X	☐	☐	
Are Safety Data Sheets available for all chemical substances?	X	☐	☐	
Are all containers that are not in use closed?	X	☐	☐	
Are containers stored indoors and away from entrances whenever practical?	☐	X	☐	See Note 3
Are maintenance activities conducted indoors whenever practical?	X	☐	☐	
If outdoors, are containers protected from precipitation and runoff whenever practical?	☐	X	☐	See Note 3

Are containers protected from vehicular traffic?	X	☐	☐	
Have all containers been inspected and are they generally in good condition?	X	☐	☐	
Do all containers have secondary containment?	X	☐	☐	
3. Spill Prevention and Response	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is emergency/contingency equipment accessible in close proximity to storage areas (spill kits, drip pans, etc.)?	X	☐	☐	
Have all spills been properly cleaned up and disposed of properly?	X	☐	☐	
Are vehicles and equipment checked for leaking fluids?	X	☐	☐	
Is there any build-up of pollutants in vehicle parking areas, and if so, is there a plan for removal in accordance with the SWPPP?	☐	X	☐	See Note 4
4. Scrap Metal Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have scrap parts and empty drums no longer in use been removed from the property?	X	☐	☐	
5. Erosion and Sediment Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the facility free of bare areas that could result in soil erosion?	X	☐	☐	
Has any accumulated sediment near the storm drain inlet been cleaned up?	☐	X	☐	See Note 4.
6. Material Stockpiles	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are material stockpiles contained in a way to manage stormwater run-on (bins, tarps, etc.)?	☐	X	☐	See Note 2.
Have area surrounding stockpiles been swept to prevent migration of materials?	☐	X	☐	See Note 2.
Are stockpiles managed to ensure that only the minimum amount needed is stored outside?	X	☐	☐	
7. Other Indicators of Illicit Discharges	**Yes**	**No**	**N/A**	**Observations/Required Actions**

Is the facility clear of any signs of potential illicit discharges such as odors, staining, sheen, residue, etc.?	X	☐	☐	
8. Personnel Training and Record Keeping	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is a program in place to train employees on pollution prevention and the Town's good housekeeping SOPs?	X	☐	☐	
Are employees trained on proper spill prevention and response for the materials that they handle?	X	☐	☐	Formal training conducted later in August and September 2023.

Reference Section 5.2

Inspection Notes	Photos
1) Observation: Dumpsters continue to not have functioning lids and this recurring issue needs to be resolved with replacement lids. **Recommendations:** • Dumpsters should not be overfilled; lids will not completely close. • Repair or replace dumpster lids.	

2) Observation: Litter and other debris were noted at material stockpile areas. Amount of material stored outside has been reduced.. **Recommendations:** • Litter should be placed in dumpsters at all times.	
3) Observation: Several containers were stored outdoors, without adequate containment or cover from the elements. **Recommendations:** • Containers should be stored indoors when possible. • If stored outdoors, proper containment and cover should be provided for containers when possible. • Properly dispose of used containers that are no longer in use.	

4) Observations:
Pollutant buildup was noted in several areas:

- Sediment buildup was noted in the parking lot. The buildup extended to stormwater gutters as well. This buildup appeared to likely originate from vehicles and equipment parked in the lot.

Recommendations:
Sediment buildup should be removed when noted to prevent discharged to the drainage system.

Town of Vienna Quarterly Inspection Checklist

Date: April 1, 2023	Building/Area: Nutley Street Maintenance Yard	Inspector: Alan Chen

1. Good Housekeeping Procedures	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are work areas and floors clean and dry?	X	☐	☐	
Are brooms, dust pans, and mops on hand for easy access?	X	☐	☐	
Have all areas been inspected for visible leaks or potential discharges of significant materials?	X	☐	☐	
Are dumpsters closed?	☐	X	☐	See Note 1
Is the site free of litter and debris?	☐	X	☐	See Note 2
Are catch basins and other inlets to the storm drain system free from trash?	☐	X	☐	See Note 3
2. Materials Handling and Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is there adequate aisle space and organization in all storage areas so that any corrosion or leaks can be detected early?	X	☐	☐	
Are all containers labeled with contents on the appropriate label?	X	☐	☐	
Are Safety Data Sheets available for all chemical substances?	X	☐	☐	
Are all containers that are not in use closed?	X	☐	☐	
Are containers stored indoors and away from entrances whenever practical?	☐	X	☐	See Note 3
Are maintenance activities conducted indoors whenever practical?	X	☐	☐	
If outdoors, are containers protected from precipitation and runoff whenever practical?	☐	X	☐	See Note 3

Are containers protected from vehicular traffic?	X	☐	☐	
Have all containers been inspected and are they generally in good condition?	X	☐	☐	
Do all containers have secondary containment?	X	☐	☐	
3. Spill Prevention and Response	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is emergency/contingency equipment accessible in close proximity to storage areas (spill kits, drip pans, etc.)?	X	☐	☐	
Have all spills been properly cleaned up and disposed of properly?	X	☐	☐	
Are vehicles and equipment checked for leaking fluids?	X	☐	☐	
Is there any build-up of pollutants in vehicle parking areas, and if so, is there a plan for removal in accordance with the SWPPP?	☐	X	☐	See Note 4
4. Scrap Metal Storage	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Have scrap parts and empty drums no longer in use been removed from the property?	X	☐	☐	
5. Erosion and Sediment Controls	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is the facility free of bare areas that could result in soil erosion?	X	☐	☐	
Has any accumulated sediment near the storm drain inlet been cleaned up?	☐	X	☐	See Note 4.
6. Material Stockpiles	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Are material stockpiles contained in a way to manage stormwater run-on (bins, tarps, etc.)?	☐	X	☐	See Note 2.
Have area surrounding stockpiles been swept to prevent migration of materials?	X	☐	☐	See Note 2.
Are stockpiles managed to ensure that only the minimum amount needed is stored outside?	X	☐	☐	
7. Other Indicators of Illicit Discharges	**Yes**	**No**	**N/A**	**Observations/Required Actions**

Is the facility clear of any signs of potential illicit discharges such as odors, staining, sheen, residue, etc.?	X	☐	☐	
8. Personnel Training and Record Keeping	**Yes**	**No**	**N/A**	**Observations/Required Actions**
Is a program in place to train employees on pollution prevention and the Town's good housekeeping SOPs?	X	☐	☐	
Are employees trained on proper spill prevention and response for the materials that they handle?	X	☐	☐	Formal training conducted later in August and September 2023.

Reference Section 5.2

Inspection Notes	Photos
1) Observation: Dumpsters continue to not have functioning lids and this recurring issue needs to be resolved with replacement lids. **Recommendations:** • Dumpsters should not be overfilled; lids will not completely close. • Repair or replace dumpster lids.	

1) Observation: Litter and other debris were noted at material stockpile areas. Amount of material stored outside has been reduced.. **Recommendations:** • Litter should be placed in dumpsters at all times. • Town of Vienna heavy machinery should be stored indoors.	
2) Observation: Several containers and lawn equipment were stored outdoors, without adequate containment or cover from the elements. **Recommendations:** • Containers should be stored indoors when possible. • Properly dispose of used containers that are no longer in use.	

3) Observations:
Pollutant buildup was noted in several areas:

- Sediment buildup was noted in the parking lot. The buildup extended to stormwater gutters as well. This buildup appeared to likely originate from vehicles and equipment parked in the lot.

Recommendations:
Sediment buildup should be removed when noted to prevent discharged to the drainage system.

APPENDIX G

TMDL Action Plan Load Reduction Calculations

Implemented Shared Project Reductions Spreadsheets from Fairfax County for FY23

- Structural Retrofits
- Stream Restoration

"Be Winter Smart" Postcard to HOAs

Town Salt Tracking and Reporting Data Sheets

Social Media Posts – Salt Management

Vienna Voice Article – Salt Management

New Shared Credit Reductions with Fairfax County and the Town of Vienna

Structural Retrofits

Projects in Addition to Those Reported in the Chesapeake Bay TMDL Action Plan Completed July 1, 2022 to June 30, 2023 (or previously unreported)

Project Name	Substantial Completion	Long.	Lat.	Type of Project or BMP	Treated (Ac)	Impervious Treated (Ac)	Pervious Treated (Ac)	Estimated Cost ($)	Estimated Amount of Total			Pollutant Reduction Calculation Method	% Treated Area Outside Regulated	Baseline Reduction Provided for			Total Credit Received (lb/yr)		
									TN	TP	TSS			TN	TP	TSS	TN	TP	TSS
Construction Complete																			
Gunston Corner @ Laurel Hill	1/6/2023	-77.231080	38.710770	Constructed Wetland	23.30	17.28	6.02	$1,072,500	123.08	16.74	14,895.74	CBP Retrofits Expert Panel, ST curve, for 1.0 inches of runoff	99%	21.29	2.52	2,098.44	101.79	14.22	12,797.30
Centre Ridge Bason Retrofit	1/20/2023	-77.445937	38.821486	Constructed Wetland	52.37	21.42	30.95	$1,672,941	262.99	29.14	23,885.04	CBT Retrofits Expert Panel, ST curve, for 2.0 inches of runoff	8%	5.31	0.87	783.07	257.68	28.27	23,101.98
Peyton Run @ Longwood Knolls	6/27/2022	-77.275278	38.762889	Constructed Wetland	133.82	41.75	92.07	$1,444,166	375.18	38.10	29,948.94	CBP Retrofits Expert Panel, ST curve, for 0.4 inches of runoff	49%	57.80	6.95	5,825.24	317.38	31.15	24,123.70
Nutley Pond @ Virginia Center	11/14/2022	-77.268687	38.879940	Dredging to restore pond vol	749.00	253.20	495.80	$108,100	963.04	100.23	79,793.83	CBP Retrofits Expert Panel, ST curve, for 0.3 inches of runoff	87%	603.67	73.67	61,975.92	359.37	26.56	17,817.91
Mt Vernon Government Center	11/11/2022	-77.077567	38.742020	Bioretention	1.73	1.04	0.69	$408,956	6.12	0.89	736.71	CBPEE, Bioretention	0%	-	-	-	6.12	0.89	736.71
Mt Vernon Government Center	11/11/2022	-77.077697	38.742013	MTD	0.36	0.36	-	$106,915	1.59	0.29	220.40	CBP Retrofits, 0.5" runoff credit	0%	-	-	-	1.59	0.29	220.40
Mt Vernon Government Center	11/11/2022	-77.078051	38.741954	Grass Channel	2.80	1.87	0.93	$208,401	4.09	0.34	1,176.93	CBPEE, Grass Channel	0%	-	-	-	4.09	0.34	1,176.93
Mt Vernon Government Center	11/11/2022	-77.078193	38.741413	Bioretention	1.65	1.32	0.33	$168,862	6.39	1.02	882.29	CBPEE, Bioretention	0%	-	-	-	6.39	1.02	882.29
Mt Vernon Government Center	11/11/2022	-77.076445	38.742194	MTD	0.66	0.35	0.31	$111,073	2.36	0.35	242.76	CBP Retrofits, 0.5" runoff credit	0%	-	-	-	2.36	0.35	242.76
Mt Vernon Government Center	11/11/2022	-77.074400	38.743300	Bioretention	1.47	0.94	0.53	$181,012	5.30	0.78	656.82	CBP Retrofits, 0.5" runoff credit	0%	-	-	-	5.30	0.78	656.82
Crosspointe Pond Improvements	2/1/2023	-77.251923	38.731306	Forebay / Micropools	104.14	32.80	71.34	$100,000	106.58	10.86	8,549.19	CBP Retrofits, ST curve, 0.1" runoff	39%	42.00	4.28	3,368.80	64.58	6.58	5,180.39
				Subtotal:	**1,071.30**	**372.33**	**698.97**	**$5,582,926**	**1,856.71**	**198.74**	**160,988.64**			**730.07**	**88.28**	**74,051.47**	**1,126.64**	**110.46**	**86,937.17**
																Fairfax Credit	**92.3%**	**1,039.89**	**101.95**	**80,243.01**
																Herndon Credit	4.2%	47.32	4.64	3,651.36
																Vienna Credit	3.5%	39.43	3.87	3,042.80

Stream Restoration

Projects in Addition to Those Reported in the Chesapeake Bay TMDL Action Plan Completed July 1, 2022 to June 30, 2023 (or previously unreported)

Project Name	Substantial Completion	Longitude	Latitude	Type of Project or BMP	Acres Treated (Ac)	Impervious Acres Treated (Ac)	Pervious Acres Treated (Ac)	Estimated Cost ($)	Restored Length (LF)	Estimated Amount of Total Pollutant Reduction (lbs/yr)			Pollutant Reduction Calculation Method	% Treated Area Outside Regulated Area	Baseline Reduction Provided for Unregulated Areas (lb/yr)			Total Credit Received (lb/yr)		
										TN	TP	TSS			TN	TP	TSS	TN	TP	TSS
Construction Complete																				
Cameron Run Tributary @ La Vista Drive	9/9/2022	-77.12145	38.796402	Urban Stream Restoration	121.75	35.70	86.1	$906,253	907	314	69	8,584	CBP Urban Stream Restoration Expert Panel: Protocol 1 -BANCS Sediment Load Estimate: 131.86 tons/yr, Sediment Delivery Ratio: 0.0651, Protocol 2 - Restored Length 907 lf, Average Stream Bank Width: 10.7 ft	24.9%	17.23	4.26	2,136.41	297.1	65.0	6,447.7
Paul Springs Branch Seg 1 @ Hollin Hills	6/29/2022	-77.0631	38.7601	Urban Stream Restoration	34.24	7.90	26.3	$1,195,045	886	253	117	14,459	CBP Urban Stream Restoration Expert Panel: Protocol 1 -BANCS Sediment Load Estimate: 222.11 tons/yr, Sediment Delivery Ratio: 0.0651	65.7%	18.50	1.98	1,607.85	234.7	114.6	12,851.5
Paul Springs Branch Seg 2 @ Hollin Hills	6/29/2022	-77.0655	38.7605	Urban Stream Restoration	22.58	5.47	17.1	$1,195,045	908	573	264	32,708	CBP Urban Stream Restoration Expert Panel: Protocol 1 -BANCS Sediment Load Estimate: 502.43 tons/yr, Sediment Delivery Ratio: 0.0651	100.0%	12.68	1.13	864.22	560.1	262.6	31,844.0
Peyton Run @ Longwood Knolls	6/27/2022	-77.2752778	38.76288889	Urban Stream Restoration	51.17	13.46	37.7	$3,497,169	2,841	622	246	84,927	CBP Urban Stream Restoration Expert Panel: Protocol 1 -BANCS Sediment Load Estimate: 469.21 tons/yr, Sediment Delivery Ratio: 0.181, Protocol 2 - Restored Length 1992 lf, Average Stream Bank Width: 15 ft	49.3%	57.80	6.95	5,825.24	564.4	239.4	79,101.8
Piney Run @ Lake Wereowance	1/23/2023	-77.2864	38.983	Urban Stream Restoration	2,601.60	520.32	2,081.3	$4,212,584	3,267	1,765	578	199,420	CBP Urban Stream Restoration Expert Panel: Protocol 1 -BANCS Sediment Load Estimate: 708.53 tons/yr, Sediment Delivery Ratio: 0.181, Protocol 2 - Restored Length 3267 lf, Average Stream Bank Width: 8.8 ft	63.3%	366.16	126.93	99,810.35	1,399.0	451.5	99,610.0
Rolling Creek Way	2/21/2023	-77.17531	38.74366	Regenerative Storm Conveyance	90.50	32.00	58.5	$1,125,893	1,193	145	67	23,062	CBP Urban Stream Restoration Expert Panel: Protocol 1 -Existing Length: 1193 LF, Average Stream Bank Height: 4 ft, Sediment Delivery Ratio: 0.181	24.2%	19.75	2.41	2,025.75	125.5	64.5	21,035.9
Woodland Stream Drive	1/10/2023	-77.15104	38.78498	Regenerative Storm Conveyance	95.39	5.90	89.5	$655,982	524	72	33	11,396	CBP Urban Stream Restoration Expert Panel: Protocol 1 -Existing Length: 524 LF, Average Stream Bank Height: 4.5 ft, Sediment Delivery Ratio: 0.181	18.9%	13.56	3.66	2,152.34	58.2	29.4	9,243.2
Crosspointe Pond Outfall	2/1/2023	-77.251917	38.731313	Regenerative Storm Conveyance	104.14	32.80	71.3	$100,000	147	10	4	1,542	CBP Urban Stream Restoration Expert Panel: Protocol 1 -Existing Length: 147 LF, Average Stream Bank Height: 2.17 ft, Sediment Delivery Ratio: 0.181	0.0%	-	-	-	9.7	4.5	1,541.6
Terra Grande Outfall	6/1/2021	-77.203492	38.73463	Regenerative Storm Conveyance	11.97	3.33	8.6	$170,465	325	49	23	7,853	CBP Urban Stream Restoration Expert Panel: Protocol 1 -Existing Length: 325 LF, Average Stream Bank Height: 5 ft, Sediment Delivery Ratio: 0.181	15.7%	4.83	0.74	652.40	44.6	22.0	7,200.7
Gunston Corner @ Laurel Hill	1/6/2023	-77.231319	38.710031	Regenerative Storm Conveyance	5.50	2.95	2.6	$1,072,500	N/A	45	4	2,943	CBP Urban Stream Restoration Expert Panel: Protocol 4 -Runoff Depth- 1.0232 inches, 10957 cf storage	0.0%	-	-	-	45.3	4.1	2,942.5
				Subtotal:	**3,138.84**	**659.83**	**2,479.0**	**$14,130,935**	**10,998.00**	**3,849**	**1,406**	**386,893**			**510.51**	**148.07**	**115,074.54**	**3,338.72**	**1,257.61**	**271,818.88**
																	Fairfax Credit	**92.3%**	**3,081.64**	**1,160.77**	**250,888.83**
																	Herndon Credit	4.2%	140.23	52.82	11,416.39
																	Vienna Credit	3.5%	116.86	44.02	9,513.66

Control Measures Expected to be Implemented During the Next Reporting Period (July 1, 2023 - June 30, 2024):

Fairfax County has completed the control measures in the approved TMDL Action Plan as reported in the 2019 annual report. The County will continue to report additional implemented projects annually.

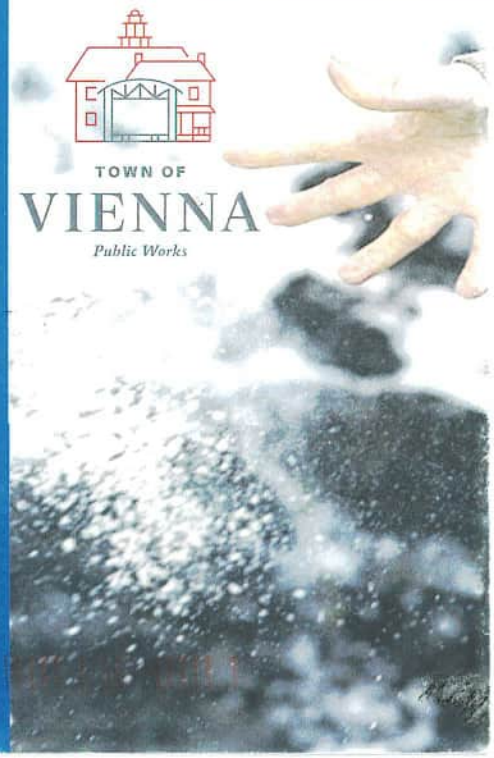
Other stream restoration projects currently in construction include: Crook Branch at Mantua Hills, Rabbit Branch at Collingham Drive, and Accotink Tributary at Danbury Forest.

Be Winter Salt Smart!

USE LESS

More salt does not mean more melting. A 12-ounce mug of salt should be enough for a 20-foot driveway or about 10 sidewalk squares.

#WinterSaltSmart



TOWN OF
VIENNA
Public Works
Department of Public Works
127 Center Street South
Vienna, VA 22180

Be Winter Salt Smart!

Salts routinely applied during and prior to snow and ice events find their way to our local streams, and ultimately, the Chesapeake Bay, through storm drains and surface runoff. This salt negatively impairs the ecology of streams and harms plants and animals, including pets. Proper management of applied winter salts helps minimize its environmental damage and protect water quality. #WinterSaltSmart

For information on t
ment, visit viennava

Homeowner and co
associations are pa
solution to keeping
streams and waters
healthy.

NEOPOST
01/27/2022
US POSTAGE $000.40º

ZIP 22180
041M11286146

Vienna Commons HOA
Attn: Board of Directors
PO Box 300
Vienna VA 22183-0300

NIXIE 207 FE 1 0002/03/22

RETURN TO SENDER
NOT DELIVERABLE AS ADDRESSED
UNABLE TO FORWARD

BC: 22180571927 *1992-04259-27-42

Homeowner/Community Association	Attn:	Address	City-State-Zip	Watershed
100 Church Street Condo		111 CENTER ST N APT B-104	VIENNA VA 22180	Difficult Run
100 Church Street Condo		111 CENTER ST N APT B-201	VIENNA VA 22180	Difficult Run
100 Church Street Condo		111 CENTER ST N APT B-202	VIENNA VA 22180	Difficult Run
100 Church Street Condo		111 CENTER ST N APT B-203	VIENNA VA 22180	Difficult Run
100 Church Street Condo		111 CENTER ST N APT B-204	VIENNA VA 22180	Difficult Run
100 Church Street Condo		111 CENTER ST N APT B-304	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-102	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-201	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-202	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-203	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-204	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-301	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-302	VIENNA VA 22180	Difficult Run
100 Church Street Condo		109 CENTER ST N APT C-304	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-101	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-102	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-104	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-201	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-202	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-301	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-302	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-303	VIENNA VA 22180	Difficult Run
100 Church Street Condo		100 CHURCH ST NW APT A-304	VIENNA VA 22180	Difficult Run
Ayr Hill Station Condo Unit Owner		207 PARK ST SE UNIT A	VIENNA VA 22180	Difficult Run
Ayr Hill Station Condo Unit Owner		207 PARK ST SE UNIT C	VIENNA VA 22180	Difficult Run
Ayr Hill Station Condo Unit Owner		207 PARK ST SE UNIT D	VIENNA VA 22180	Difficult Run
Ayr Hill Station Condo Unit Owner		207 PARK ST SE UNIT B	VIENNA VA 22180	Difficult Run
AYRHILL SQUARE LTD	C/O ROBERT C STELLO	307 N CENTER ST	VIENNA VA 22180	Difficult Run
Barristers Place Community Association	Attn: Board of Directors	PO Box 1192	Vienna VA 22183	Difficult Run
COMMUNITY VENTURES INC		PO BOX 33	VIENNA VA 22183	Accotink Creek
Council Square Homeowners Association	Board of Directors	511 COUNCIL CT NE	VIENNA VA 22180	Difficult Run
Council Square Homeowners Association	c/o MJF Associates, Inc.	10692 Crestwood Dr, Ste A	MANASSAS VA 20109	Difficult Run
Council Square Homeowners Association	Tim Schoeb, Grounds Board Member	511 COUNCIL CT NE	VIENNA VA 22180	Difficult Run
COUNCIL SQUARE INC	C/O BARRY MURPHY	107 PLEASANT ST NW	VIENNA VA 22180	Difficult Run
COUNCIL SQUARE INC	C/O G THOMAS COLLINS JR	PO BOX 11086	MCLEAN VA 22102	Difficult Run
COUNCIL SQUARE INC	C/O G THOMAS COLLINS JR	PO BOX 1161	VIENNA VA 22183	Difficult Run
COUNCIL SQUARE INC	C/O GOODMAN AND COMPANY	1410 SPRING HILL RD	MCLEAN VA 22102	Difficult Run
EAST CREEK HOMEOWNERS ASSOCIATION	C/O TOWN & COUNTRY DEVLOP INC	PO BOX 8	VIENNA VA 22183	Difficult Run
REGENCY RIDGE HOMEOWNERS ASSOCIATION	C/O GHA COMMUNITY MANAGEMENT	3020 HAMAKER CT SUITE 300	FAIRFAX VA 22031	Difficult Run
THE GLYNDON FLATS CONDO	c/o WEDDERBURN HOMES LC	921 GLYNDON ST SE	VIENNA VA 22180	Accotink Creek
The Unit Owners' Association of Park Terrace Condominium, Inc.	c/o Armstrong Management	3949 Pender Dr Ste 205	Fairfax VA 22030	Difficult Run
THE WOLFTRAPPE SQUARE ASSOCIATION INC	C/O GRACE ANN BARBOUR	121 EAST ST NE	VIENNA VA 22180	Difficult Run
TOWNES OF MOOREFIELD COMMUNITY ASSN		PO BOX 1305	VIENNA VA 22183-1305	Accotink Creek
TOWNES OF MOOREFIELD COMMUNITY ASSN		P O BOX 1046	VIENNA VA 22183	Accotink Creek
Townes of Moorefield Homeowners Association (TOMCA)	Attn: Board of Directors	815 Tapawingo Rd SW	Vienna VA 22180	Accotink Creek
Townes of Moorefield Homeowners Association (TOMCA)	c/o POA Management Associates, LLC	9091 Wexford Dr	Vienna VA 22182	Accotink Creek

TOWNES OF VIENNA III COMMUNITY ASSOCIATION INC	C/O Northern Virginia Management	4306 EVERGREEN LN STE 101	ANNANDALE VA 22003	Accotink Creek
TOWNES OF VIENNA III COMMUNITY ASSOCIATION INC	C/O Northern Virginia Management	4306 EVERGREEN LN STE 101	ANNANDALE VA 22003	Accotink Creek
TOWNES OF VIENNA III COMMUNITY ASSOCIATION INC	C/O Northern Virginia Management	4306 EVERGREEN LN STE 101	ANNANDALE VA 22003	Accotink Creek
TOWNES OF VIENNA III COMMUNITY ASSOCIATION INC	ATTN: TREASURER	PO BOX 134	VIENNA VA 22183	Accotink Creek
TOWNES OF VIENNA INC		404 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		406 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		408 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		410 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		412 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		414 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA INC		416 MILLWOOD CT SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		120 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		122 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		124 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		126 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		128 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		129 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		130 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		131 MENDON LN SW	VIENNA VA 22180	Accotink Creek
TOWNES OF VIENNA SECTION TWO HOMEOWNERS ASSOCIATION INC		133 MENDON LN SW	VIENNA VA 22180	Accotink Creek
Vienna Commons Home Owners Association	Attn: Board of Directors	PO Box 300	Vienna VA 22183-0300	Accotink Creek
Vienna Village Homeowners Association Inc.		111 Follin Ln SE	Vienna VA 22180	Difficult Run
VIENNA VILLAGE HOMEOWNERS ASSN INC		627 MAPLE AVE E	VIENNA VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 101	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 102	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 104	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 107	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 200	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 201	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 204	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 205	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 301	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 302	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 303	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 305	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 403	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 405	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 407	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		11808 Lyrac Ct	Oakton VA 22124	Difficult Run
Vienna Villager Apts Condos		12705 Watertown Ct	Potomac MD 20854	Difficult Run
Vienna Villager Apts Condos		1301 Pinstripe Ct	Vienna VA 22182	Difficult Run
Vienna Villager Apts Condos		1307 Leighton Cir	Louisville KY 40222	Difficult Run
Vienna Villager Apts Condos		1638 Wrightson Dr	McLean VA 22101	Difficult Run
Vienna Villager Apts Condos		200 Locust St SE - Unit 203	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		1101 Walker Cir SW	Vienna VA 22180	Difficult Run
Vienna Villager Apts Condos		703 Upham Pl NW	Vienna VA 22180	Difficult Run
VILLAGE GREEN OWNERS ASSN INC	C/O ARMSTRONG ASSOCIATES	2567 CHAIN BRIDGE RD	VIENNA VA 22181-5576	Accotink Creek

Village Square Association	c/o Kathleen B Rawson, Treasurer	406 Center St SE	Vienna VA 22180	Difficult Run
Village Square Association	c/o Naomi Allen	409 Mill St SE	Vienna VA 22180	Difficult Run

Salt Tracking and Reporting Data: Sheet #2 - Storms Tracking

Organization Name:	Town of Vienna						12/14-12/15/2022
Sub-Organization Name:	DPW						
Geographic Area(s) of Operations:	Area 1	Area 2	Area 3	Area 4	Area 5	Other (insert text)	
Winter Season:	0	**# Storm Operations (Seasonal Total):**					

Storm Descriptions

	Seasonal Total	Storm 1		Storm 2		Storm 3		Storm 4	
Beginning Date, Time of Each Storm Operations Deployment		12/14/2022	11:00pm	Date	Time	Date	Time	Date	Time
End Date, Time of Operations:		12/15/2022	8:00 AM	Date	Time	Date	Time	Date	Time
Beginning Date, Time of Storm Precipitation		12/15/2022	1:00 AM	Date	Time	Date	Time	Date	Time
End Date, Time of Precipitation:			Time	Date	Time	Date	Time	Date	Time
Full or Partial Deployment?		F, (P)		F, P		F, P		F, P	
Storm Type (Heavy Snow > 6", Medium 2-6", Light < 2")		H, M, L		H, M, L		H, M, L		H, M, L	
Inches of Snowfall:	0	0		0		0		0	
Ice or Freezing Rain?		(Y), N		Y, N		Y, N		Y, N	
Road Temperature During Storm (Warm, >32, Mid, 25-32, Cold, <25 degrees F)		(W), M, C		W, M, C		W, M, C		W, M, C	
Early Storm Conditions: Starts as Snow, SS; Starts as Rain, SR		SS, (SR)		SS, SR		SS, SR		SS, SR	
Winds During Storm (Light, < 15 mph, Strong, > 15 mph)		(L), S		L, S		L, S		L, S	
Winds After Storm (Light, < 15 mph, Strong, > 15 mph)		L, S		L, S		L, S		L, S	
Forecasted Post Storm Temps (Same, Rising, Falling)		S, (R), F		S, R, F		S, R, F		S, R, F	
Sources Used for Storm Information (NWS, Own Observation, other?)		NWS/Local News/DWN							
Other Notes Describing Storm Conditions (narrative)									

Salt Tracking and Reporting Data: Sheet #3 - Product Use

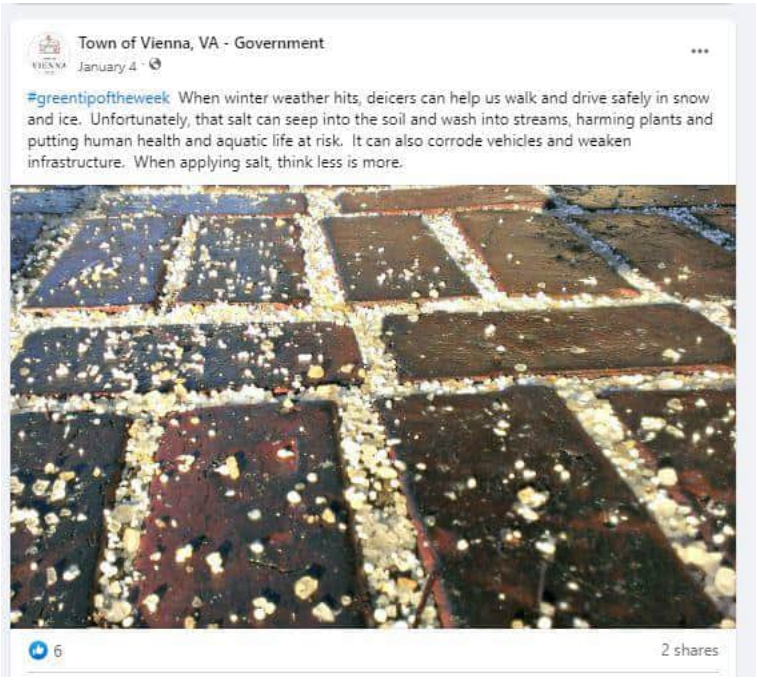
Organization Name:							12/14 - 12/15/2022
Sub-Organization Name:							
Geographic Area(s) of Operations:	Area 1	Area 2	Area 3	Area 4	Area 5	Other (insert text)	
Winter Season:	0						

Product Use Data

Treatment Products	Seasonal Total	Units of Measure	Amount used in Storm 1	Amount used in Storm 2	Amount used in Storm 3	Amount used in Storm 4	Amount used in Storm 10	Was this product effective? (narrative as applicable):	Is product planned for continuation? (Yes or No)
Sodium Chloride (NaCl)	0	dry lbs, tons	NONE						Y, N
Magnesium Chloride (MgCl)	0	dry lbs, tons	—						Y, N
Calcium Chloride (CaCl)	0	dry lbs, tons	—						Y, N
Sodium Chloride Brine % Brine Mixture: 23	0	825 gallons	(Y), N	Y, N	Y, N	Y, N	Y, N		Y, N
Magnesium Chloride Brine % Brine Mixture: ____	0	gallons	Y, (N)	Y, N	Y, N	Y, N	Y, N		Y, N
Calcium Chloride Brine % Brine Mixture: ____	0	gallons	Y, (N)	Y, N	Y, N	Y, N	Y, N		Y, N
Abrasives Applied	0	sq. yds, tons	NO						Y, N
Other Products Used? Name: ____	0	Units							Y, N
Other Products Used? Name: ____	0	Units							Y, N
Other Products Used? Name: ____	0	Units							Y, N
Notes on Treatment Products Used									

Town of Vienna FY23 Social Media Posts

Salt Management



Town of Vienna, VA - Government
December 14, 2022 ·

Potential icy conditions are in the forecast for tomorrow morning but before you reach for the salt to treat your sidewalks and driveways, consider using alternatives like sand or bird seed. They are just as effective and more environmentally friendly. Be #WinterSaltSmart this winter season!

3 4 comments 1 share

VIENNA
VOICE
OFFICIAL NEWSLETTER OF THE TOWN OF VIENNA, VIRGINIA • **WWW.VIENNAVA.GOV**

NOVEMBER
2022

Let's Go for a Stroll!

Grab your walking shoes and prepare for merriment with the 2022 Church Street Holiday Stroll! The fun begins at 6 p.m. in front of the Freeman Store and Museum on Monday, Nov. 28. Enjoy live holiday music, a tree-lighting ceremony and a guest appearance by that jolly old elf himself, Santa Claus!

After the official ceremony, stroll down historic Church Street, enjoy the festive lights, and explore the holiday shopping specials inside local Church Street businesses. Grab some hot chocolate at a local business and warm yourself by a bon fire along the way. Visit historic sites such as the Freeman Store and Museum, Little Library, Caboose, Train Station, Knights of Columbus (formerly First Baptist Church) and Vienna Presbyterian's Old Chapel. While you're out and about, be sure to pick up your 2022 Town of Vienna Holiday Ornament featuring the LOVE sign along the W&OD trail at Northside Park. Ornament proceeds will support the town's public art projects.

The Church Street Holiday Stroll is a beloved town tradition that will delight all ages. For more information, call Historic Vienna at 703-938-5187 or visit **www.viennava.gov/stroll**.

IN THIS ISSUE

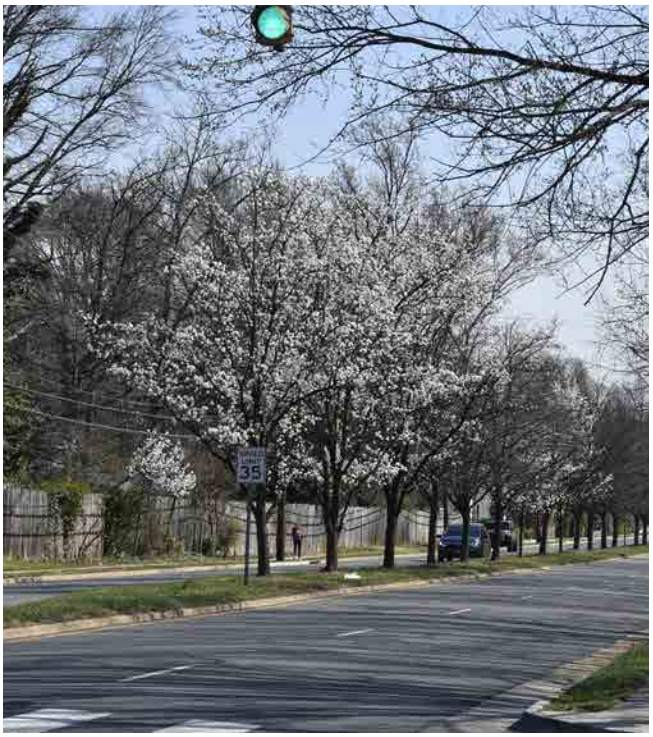
Put the Freeze on Winter Stormwater Pollution

If you're tempted to treat icy driveways and sidewalks with salt this winter, you may want to reconsider. Not only can deicing salts damage your driveway over time, but they can also be harmful to plants, aquatic life, and our drinking water supplies through contaminated stormwater runoff.

When the ground freezes, it loses its ability to act as a natural filter. It instead acts as another impervious surface, conducting melted snow and ice as well as sediment, dirt, road salt, fertilizer and other pollutants into stormwater systems and through local watersheds. This runoff eventually contributes significant amounts of pollutants to the Chesapeake Bay.

Deicing salt alternatives such as potassium acetate (KA) or calcium magnesium acetate (CMA) are less damaging to homes and landscaping. If you do apply salt, do it after shoveling snow, and apply as little as possible to slick surfaces that can't be shoveled. One 12-ounce coffee mug holds enough sodium chloride deicer to treat a 20-foot driveway or 10 sidewalk squares. If it is too cold for your salt to work, use traction materials instead, like sand, wood ash, or even birdseed. After the storm, sweep up the extra salt or traction materials to use again next time.

There's one more thing you can do to reduce winter stormwater pollution. Rather than washing road salt spray off your car at home, take your vehicle to a commercial car wash where the runoff flows through drains leading to wastewater treatment facilities.



Nutley Tree Replacement Phase 2 Begins

Beginning this month, the remaining 13 fragile, non-native and invasive Callery pear trees will be removed from the Nutley Street median and replaced with heartier native species, including black gum, willow oak, serviceberry and Rotundiloba sweet gum trees. The Vienna Parks and Recreation maintenance staff began the Nutley Street project in April, removing 14 Callery pear trees, which have become overabundant in the region and contributed to the reduction in the area tree diversity, threatening the ecological balance among plants and wildlife in Virginia's urban forest. The second phase of the project is scheduled to begin in early November and expected to last approximately four weeks. The project is being funded primarily by an anonymous donor.

The tree work will take place weekdays between 9 a.m. and 3 p.m. and will require a temporary lane closure along the Nutley Street medians between Princeton Terrace and Courthouse Road, SW and from Courthouse Road SW to Roland Street SW. To learn more about the tree replacement project and the benefits the new tree varieties will bring, check out the video on the Town's YouTube channel: **https://bit.ly/ViennaTrees**.