City of Petersburg, Virginia

MS4 General Permit: VAR040013

2022 Annual Report

Prepared by:

Department of Public Works and Utilities

Introduction

The following annual report is submitted to the Virginia Department of Environmental Quality (DEQ) in compliance with the City of Petersburg's Pollutant Discharge Elimination System (VPDES) permit. This report covers stormwater activities conducted during the third year of the permit term, July 1, 2021 – June 30, 2022.

Background Information:

Permittee:	City of Petersburg, Virginia
Annual Report Permit year:	4
Modifications to operator's roles & responsibilities:	0
Number of new MS4 outfalls:	0
Location of new outfall:	N/A
Acreage of new outfalls:	0
HUC of new outfalls:	N/A

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.

John M Altman 10.14.22

Responsible Official Signature Date

VAR040013 City of Petersburg, VA

Permit Number MS4 Name

Summary of Existing Program Plan Compliance, Activities, Changes, and Plans for the Next Reporting Period

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 4)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 5)
1. Public Education and Outreach on Stormwater Impacts	1.1 Stormwater Public Education and Outreach	Develop a citywide public education program.	IE.1.a. Implement program IE.1.b. Identify High-Priority Issues IE.1.c. High-Priority Program Components IE.1.d. Program Strategies IE.1.e. Program Coordination IE.1.f. MS4 Program Plan IE.1.g. MS4 Annual Report	Planning/Public Works Departments continue to generally use EPA guidance: "Getting in Step" as a source to begin to distribute public education and outreach messages, and utilizes multiple diverse strategies to increase stormwater knowledge and reduce stormwater pollution – including various efforts to educate contractors on methods to reduce stormwater pollution. The City continues to keep the public informed on any progress in the Stormwater Utility (SWU) Program. Please also refer to Appendix A for stormwater brochures passed out during City-wide Clean Ups, Earth Day Activities, Ward Meetings and Public Information (PI) Meetings. Pet waste pick-up signs in front of City Hall and in Central Park increase individual knowledge about reducing stormwater pollution. DPW/U continues to provide many informational items (see Appendix A) and local stormwater items to the City's website to educate the public on the City's SWU Program including: SWU Frequently Asked Questions, SWU PowerPoint Presentation Shown at Ward/Council Meetings and PI Meetings, SWU Ordinance & Rate Resolution, and Fee Credit Manuals. Also refer to Appendix A for a sample webpage on "Fertilizer Tips". The Planning Department and the DPW/U often coordinate with the "Friends of the Lower Appomattox" (FOLAR), Crater District Planning Commission, PlanRVA, and Richard Bland College to sponsor citywide clean up events and partner for a regional anti-litter campaign (see Appendix A). In an effort to address the "Litter", "Bacteria", and "Maintenance" high-priority issues of the plan, the City has attempted to engage the community, Central Park visitors, and SWM Facility owners.	To address the "Litter" high-priority issue of the plan, the City continues to work on a NFWF Grant-funded "Walkable Watershed" project with the James River Association (JRA) to reach the students of Lakemont Elementary School. A FOLAR Youth Program event was also scheduled but was later postponed and eventually cancelled due to COVID restrictions. Flyers were supposed to be handed out at the event – instead they were posted on social media. The City has also partnered with PlanRVA to regionally implement the "Don't Trash Central Virginia" anti-litter campaign and include messaging in both email City Newsletter and social media posts (see Appendix A). While social media is implemented to address the "Bacteria" high priority issue, the City's public signage in place continues to Central Park visitors (approximately 1,200 visitors, 7% of the total target audience in the plan). To address the "Maintenance" high-priority issue, the City continued to annually mail out flyers to BMP owners with details and instructions for inspecting and maintaining SWM facilities with a strategy to gradually increase owner engagement in the future. As the City continues to recover from the COVID-19 Pandemic and the on-going financial stress from years of being in crisis, every effort will be made to meet both current and future requirements going forward.	To address the "Litter" high-priority issue of the plan, the City will continue to attempt to reach at least 200 students, more than 50% of the target audience. To reach out to the target audience for the "Bacteria" high-priority issue, the City will continue to attempt to reach at least 10,000 followers, more than 50% of the target audience in the plan thru signage and social media. To address the "Maintenance" high-priority issue of the plan, the City will continue to attempt to reach at least 40 owners, more than 50% of the target audience and search for alternative means to reach this audience.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 4)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 5)
2. Public Involvement/ Participation	2.1 Stormwater Public Involvement	Promote public involvement in preventing pollution of stormwater runoff.	IE.2.a. Procedures IE.2.b. Webpage Information IE.2.c. Program Activities IE.2.b. Program Coordination IE.2.e. MS4 Program Plan IE.2.f. MS4 Annual Report	The MS4 Program Plan was updated, submitted, and generally approved by DEQ in December 2015, and plans have been made to combine the update and the previous Program Plan. This updated Program Plan and the current MS4 Annual Report are posted to the City's Stormwater Management Webpage for public review and comment. Weblinks for the Program Plan and Annual Report, respectively, are as follows: "http://www.petersburg-va.org/DocumentCenter/View/785" "http://www.petersburg-va.org/DocumentCenter/View/778" The City participated eight cleanup events: a JRAC Cleanup in August 2021, a City Fall Cleanup in October 2021, a Community Cleanup, a Bureau Of Police Cleanup, and a FOLAR Spring River Cleanup in April 2022, as well as another FOLAR Cleanup, a Community Cleanup, and a Youth Program Cleanup in May 2022. The City continues to coordinate and participate in the household drop-off recycling program (over 11K participants), the Adopt-a-Spot program (70 participants), the metals/white goods program, the safe garage program, and any waste tire cleanup through local efforts and our membership in the Central Virginia Waste Management Authority.	The City is also continually securing contracts with external consultants. If requested, documentation of the executed contracts will be submitted to DEQ.	Hopefully as the pandemic subsides and with the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.2 of the Permit.
	2.2 TMDL Implementation Plan Participation	Status of the Chesapeake Bay and Local TMDL Action Plan Implementation	IIA.13. Chesapeake Bay TMDL Action Plan IIA.13.a. BMP's Implemented Not Reported to BMP Warehouse IIA.13.b. Credits Acquired IIA.13.c. Progress Toward Meeting Reductions IIA.13.d. BMP Planned for Next Reporting Period IIB.9. Local TMDL Action Plan – Summary of Implementation Actions	The City has received DEQ approval for its Chesapeake Bay TMDL Action Plan on January 6, 2016. The City of Petersburg has prepared the Appomattox River Bacteria Total Maximum Daily Load (TMDL) Action Plan to address the Special Conditions for approved local TMDLs in Part II.B of the Permit. (DEQ finalized MS4 guidance for WLA calculations for local TMDL's on November 21, 2016).	The City is also continually securing contracts with external consultants. If requested, documentation of the executed contracts will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section II of the Permit.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 4)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 5)
3. Illicit Discharge Detection and Elimination	3.1 Develop Storm Sewer System Map	Develop storm sewer mapping showing the location of all outfalls and the names and location of all waters of the U.S. that receive discharges from those outfalls.	IE.3.a. Updated storm sewer map	See Appendix F for the City's MS4 Outfall Map. DPW/U will also continue to make efforts to update the storm sewer map. DPW/U has determined that there are no physically connected downstream MS4s that require written notification.	The City is also continually securing contracts with external consultants. If requested, documentation of the executed contracts will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.3 of the Permit.
	3.2 Illicit Discharge Ordinance	Develop an ordinance to prohibit all non-stormwater discharges into the MS4.	IE.3.b. Prohibit non-stormwater discharges through legal mechanism	The ordinance was adopted April 6, 2010 and can be viewed or downloaded from the City's website. The City makes every effort to enforce the ordinance as applicable.	The current BMP is appropriate for addressing the measurable goals outlined in Section I of the General Permit.	The City plans to undertake all applicable tasks and activities outlined under Section I.E.3b of the Permit.
	3.3 Illicit Discharge Detection and Elimination (IDDE) Program	Detect, identify, and address unauthorized discharges to the MS4.	IE.3.c. Written procedures IE.3.d. MS4 Program Plan IE.3.f. MS4 Annual Report	The City uses the "Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments" as guidance along with other resources to develop local procedures to detect and address illicit discharges; and continues to make progress in the creation of maps and other tools necessary for outfall reconnaissance. There have been 50 outfall screenings during Permit Year 4, with two outfalls initially identified as potentially illicit discharges but subsequently investigated and ruled not to be by City Public Utilities staff. In Permit Year 4, 4 Illicit discharge reports were filed (all documented by DEQ). Corrective action was documented in the reports – no water quality samples were collected. See Appendix B for summaries of these reports. DPU also continues the Inflow and Infiltration (I&I) program to find and address sanitary sewer connections to the storm sewer. Smoke testing, line video inspection and other methods help locate sanitary connections to the storm sewer system and remedy those cross connections. Flow metering also locates segments of sanitary sewer with I&I problems. However, the CCTV Truck was still not operational during the reporting period and has not yet been repaired due to the City's finances.	As the City continues to recover from the COVID Pandemic and financial crises of previous years, every effort will be made to meet current and future requirements going forward. The City has secured a contract with an external on-call consultant and the required Outfall Reconnaissance Map for outfall screenings has been developed.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.3 of the Permit.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 4)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 5)
4. Construction Site Runoff	4.1 Erosion and Sediment Control Program	Administer an erosion and sediment control program consistent with the Virginia Erosion and Sediment Control Program Regulations.	IE.4.a. Legal Authority (ordinance, permits, contract language, interjurisdictional agreements) IE.4.b. Inspection and Enforcement IE.4.c. MS4 Program Plan Requirements IE.4.d. MS4 Annual Reporting Requirements	In Permit Year 4, DPW/U reviewed E&S plan submittals, land disturbance permits issued, and made continual efforts to ensure that there are no deficiencies in enforcement. During Permit Year 4, there were 405 construction site stormwater inspections, with no enforcement actions in the reporting period. Please refer to Appendix C for a list of projects and associated acreage disturbed for which land disturbance permits were issued during Permit Year 4.	The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.4 of the Permit.
5. Post-construction Stormwater Management	5.1 Stormwater Management Program	Address post-construction stormwater runoff of new development and redevelopment on receiving waters.	IE.5.a. Program Implementation IE.5.h. MS4 Program Plan Requirements IE.5.i. MS4 Annual Report Requirements	The City of Petersburg continued efforts to resolve any issues found by DEQ in previous review of Annual Reports.	The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.5 of the Permit.
	5.2 VSMP Construction Permit Administration	Petersburg will develop a program to manage permit authority under VSMP Construction General Permit regulations as adopted by the State Soil and Water Conservation Board.	IE.5.c.Required Program Components	The City hired and retained one full-time permanent SWM/E&S Inspector in November 2015 and hopes to hire another SWM/E&S Inspector in the following Permit Year in an effort to acquire the necessary staffing and resources, and perform all steps required by DEQ as local VSMP authority.	The current BMP is appropriate for addressing the measurable goals outlined in Section I of the General Permit.	The City plans to undertake all applicable tasks and activities outlined under Section I.E.5 of the Permit.
	5.3 Structural BMP Inventory	Provide an inventory of all structural BMPs within the City.	IE.5.d.Database Tracking Requirements IE.5.e.Database Updates IE.5.f.Database Reporting Requirements IE.5.g.BMP Warehouse Reporting Requirements	With the aid of the DEQ “Historical Data Cleanup” grant, the BMP Facilities Database was significantly updated. This update was reflected in the MS4 Program Plan generally approved by DEQ in December 2015. DPW/U submitted its first update to the BMP Warehouse on October 1st, and will incorporate new BMPs into the Warehouse once the newly constructed BMP has been certified by the Professional Engineer and approved as acceptable. The City still reviews the BMP database whenever possible to correct/complete the required fields including geographic location (VAHU6 code) and number of acres treated, and update the database to include additional recently constructed stormwater management facilities. DPW/U uses the BMP database information in evaluating stormwater management programs and to determine a plan and schedule of conducting inspections.	The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.5 of the Permit.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 4)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 5)
	5.4 BMP Inspection and Maintenance	Develop an inspection and maintenance program to ensure proper function and maintenance of all structural BMPs in the City in an effort to protect receiving waters.	IE.5.b.Inspection, Operation, and Maintenance Verification	DPW/U continued to implement inspection and maintenance schedules and identify maintenance needs. A two-man inspection team from DPW/U Surveys would normally inspect the BMPs utilizing a checklist to evaluate the facility and photographs the facility during the inspection.	The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.5 of the Permit.
6. Pollution Prevention/ Good Housekeeping for Municipal Operations	6.1 MS4 Operations	DPW/U has a dedicated field crew that maintains the MS4 to ensure the system is functioning properly.	IE.6.a. Written Procedures for Operations IE.6.b. Procedures Used for Training Purposes IE.6.c. Identify Discharge Potential of High-Priority Facilities IE.6.d. SWPPP Requirements IE.6.e. High-Priority Facility Review for Potential SWPPP Implementation IE.6.f. SWPPP Review for Unauthorized Discharges IE.6.g. SWPPP Usage and Maintenance IE.6.h. Removal of High-Priority Facilities IE.6.i. Turf and Landscape Nutrient Management Plans (NMPs) IE.6.j. NMPs for State Agencies/Entities IE.6.k. Deicing Agent Controls IE.6.l. Control Measures/Procedures (Municipal Contractors) IE.6.p. MS4 Program Plan Requirements IE.6.n. MS4 Annual Report Requirements	DPW/U Operations Division keeps records on storm sewer maintenance work and the street sweeping program. Expenses for sweeping and drain cleaning for the reporting period are included in Appendix D. The City's Dogwood Trace Golf Course is the only City-owned property with a nutrient management plan required for a total of 87.73 acres (the plan has also been implemented for all 87.73 acres).	The City secured a contract with an external on-call consultant, which prepared an inventory of municipal sites requiring a SWPPP (including SWPPP's developed for each site), a draft Nutrient Management Plan and Implementation Schedule, and a municipal training plan and schedule.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.6 of the Permit.
	6.2 Employee Pollution Prevention Training	DPW/U will provide employee training for staff involved with field activities that may impact the MS4.	IE.6.m.(1) Illicit discharges IE.6.m.(2) Road, street and parking maintenance IE.6.m.(3) Maintenance of public works facilities IE.6.m.(4) Pesticide/herbicide control (contractors) IE.6.m.(5) Employee/contractor E&S certifications (plan review, inspection, program administration, construction site operators) IE.6.m.(6) Stormwater program certifications (employees/contractors) IE.6.m.(7) Spill response (emergency response employees) IE.6.n. Documentation IE.6.o. Regional Training Programs	DPW/U used resources and guides from the internet and other resources to develop program components. The City made plans to implement Good Housekeeping training for applicable employees. We will continue inspecting city operations facilities in conjunction with the inspections of private BMPs. The Facilities Management Division only uses certified staff to handle and apply fertilizers, pesticides, and other chemicals. Following the inspections of public BMPs, a separate training event was held for employees responsible for managing operations in June 2022, with 8 attendees.	The City is also currently securing a contract with an external consultant. If requested, documentation of the executed contract will be submitted to DEQ.	With the combined efforts of internal and external resources, the City plans to undertake all applicable tasks and activities outlined under Section I.E.6 of the Permit.

Additional Annual Reporting Requirements

(Pursuant to General Permit No.: VAR04, the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems)

Annual characterization that estimates the volume of stormwater discharged, in cubic feet, and the quantity of pollutant identified in the WLA [bacteria], in a unit consistent with the WLA [annual fecal coliform load, cfu/yr], discharged by the regulated small MS4 [City of Petersburg]:

Please refer to Appendix E for the WLA Calculations and Results Summary.

Updated Program Plan with any new information regarding the TMDL:

See "Minimum Control Measure 2" reporting (BMP 2.2) for summarized TMDL information.

Additional Requested Background Information:

Additional information request from DEQ dated June 1, 2020 in response to the submission of the 2019 Annual Report was addressed per the following responses in **bold**:

Minimum Control Measure 1- Public Education and Outreach

Part I.E.1.g (2) *Provide a list of strategies used to communicate each high-priority stormwater issue. Select two or more strategies in Table 1 of the MS4 General Permit.*

This requirement has been met, according to the information provided in the 2019 Annual Report. However, DEQ noted that the VSMP brochure and several other parts of the report reference DCR as the permitting authority and contact. DEQ suggests updating this information. ***Could not find a replacement on DEQ's website for this DCR version of a VSMP Brochure; therefore, that brochure (and the language associated with it) has been removed from the report and other methods/opportunities to engage Contractors will be pursued. Beyond the VSMP Brochure, there was one other occurrence found in the 2019 Annual Report of language referring to DCR (see Page 3, BMP 4.1), and that has now been deleted.***

Minimum Control Measure 2 – Public Involvement/Participation

Part I.E.2.f (1) *Provide a summary of any public input on the MS4 Program received (including stormwater complaints) and the permit holder responses.*

This information was not available in the annual report, and the webpage did not include all of the information required to be posted no later than three months after the MS4 General Permit's effective date, including methods for how the public can provide input on the permittee's MS4 program plan in accordance with Part I.E.2.a (2). Please provide a summary of any public input and update the webpage according to all details specified in Part I.E.2.b (1-5). ***No significant public input on the MS4 Program has been noted. The City is working with external consultant to incorporate many updates on the City's Stormwater Management Webpage – including enhancements for public input – as part of the consolidation of the MS4 Program Plan begun as part of the City's response to the MS4 Audit performed in late 2018.***

Part I.E.2.f (3) *Implement at least four activities per year from two or more of the categories listed in Table 2 of the MS4 General Permit.*

The annual report referenced one activity that took place during the previous reporting period. Please ensure that at least four activities are implemented in the future. ***After doing some additional research, I have found that the City did participate in four activities during the reporting period, and that has been updated and included in the FINAL Updated 2019 Annual Report (see Page 4, BMP 2.1). Only one activity was reported for the 2020 Annual Report primarily due to the COVID-19 Pandemic eliminating the Spring Cleanup opportunities. Five activities were held and reported for the 2021 Annual Report.***

Minimum Control Measure 3 – Illicit Discharge Detection and Elimination

Part I.E.3.e (1) *Provide 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.* ***Updated MS4 map has now been included in the 2019 Annual Report (map is dated June 2019) and subsequent Annual Reports.***

Part I.E.3.e (2) *Provide the total number of outfalls screened during the reporting period as part of the dry weather screening.*

The annual report provided details on the screening of all 466 outfalls during the previous reporting period. DEQ acknowledges that this is a measurable improvement and beyond the required 50 minimum required to be screened annually. However, the annual report did not provide the total number of outfalls screened during the July 1, 2018, through June 30, 2019, reporting

period. Please provide this information. ***With help of external consultant the City completed 62 outfall screenings during the Year 1 reporting period and 50 screenings for the Year 2 thru Year 4 reporting period – documentation has been provided.***

Part I.E.3.e (3) *Provide a list of illicit discharges to the MS4, to include spills reaching with MS4. Listed on the lines below is information required. The annual report references Appendix B for this information, but Appendix B is blank.* ***(The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.)***

Part I.E.3.e (3) (a) *The source of the illicit discharge.* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Part I.E.3.e (3) (b) *The date or dates that the discharge was observed, reported, or both.* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Part I.E.3.e (3) (c) *Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe).* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Part I.E.3.e (3) (d) *How the investigation was resolved.* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Part I.E.3.e (3) (e) *A description of any follow-up activities.* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Part I.E.3.e (3) (f) *The date the investigation was closed.* ***The INTERIM Updated 2019 Annual Report and the 2020 thru 2022 Annual Reports now include Appendix B.***

Minimum Control Measure 4- Construction Site Stormwater Runoff

Part I.E.4.d (1)(a) *Provide a confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved E&S specifications.* ***To confirm, land disturbing projects were conducted in accordance with the current department approved E&S specifications.***

Minimum Control Measure 5-Post-Construction Stormwater

Part I.E.5.i (1)(a) *State the number of privately owned SMF inspections conducted.* ***There were 29 and 89 privately owned SMF inspections conducted in Year 1 and Year 2 respectively.***

Part I.E.5.i (1)(b) *State the number of enforcement actions and the type of enforcement action initiated to ensure long-term maintenance of privately owned SMFs.* ***There were 0 enforcement actions initiated for these reporting years.***

Part I.E.5.i (2) *State the number of inspections conducted on publically owned SMFs.* ***The were 8 publically owned SMF inspections conducted.***

Part I.E.5.i (3) *Provide a description of the significant maintenance, repair, or retrofit activities performed on the publically owned SMFs. Do not include routine activities (e.g., mowing, litter pick up).* ***No significant maintenance, repair, or retrofit activities performed during these reporting periods.***

Part I.E.5.i (4) *Provide a confirmation statement that SMF information was submitted through the Virginia Construction Stormwater General Permit (CGP) database for land disturbing activities for which coverage under the General VDPES Permit for Discharges of Stormwater was obtained in accordance with Part I.E.5.f of the MS4 General Permit). If no projects requiring coverage under the CGP were completed, please indicate such.* ***To confirm, SMF information was submitted through the CGP database for land disturbing activities for which Permit coverage was obtained.***

Minimum Control Measure 6- Pollution Prevention/Good Housekeeping

Part I.E.6.q (1) *Provide a summary of operational procedures developed or modified per Part I.E.6.a during the reported fiscal year.* ***Operational procedures have previously been developed and were in the process of being modified as the MS4 Program Plan is consolidated in response to the MS4 Audit performed in late 2018.***

Part I.E.6.q (2) *Provide a summary of new SWPPPs developed in the fiscal year per Part I.E.6.c of the MS4 General Permit. Inclusion of SWPPPs developed per I.E.6.e of the MS4 General Permit is recommended. If none were developed, please state so.* ***One new SWPPP was added for 1340 East Washington Street, Petersburg VA 23803 (Petersburg's "Office of Development and Operations") in Permit Year 3, which is designated as a high-priority facility…a SWPPP inspection was also performed.***

Part I.E.6.q (3) *Provide a summary of any SWPPPs modified per Part I.E.6.f of the MS4 General Permit or the rationale for delisting high-priority facilities per Part I.E.6.h of the MS4 General Permit.* ***All previously existing SWPPPs were updated as a result of the SWPPP inspections performed.***

Part I.E.6.q (5) *Provide a list of training events conducted in accordance with Part I.E.6.m of the MS4 General Permit to include the information listed below.* ***Spring training***

event was scheduled in Year 2; however, it had to be cancelled due to the COVID-19 Pandemic. However, in Year 3 and 4 training events were held in June 2021 and 2022, respectively.

Part I.E.6.q (5)(a) *The date of the training event.* ***See the following table.***

Part I.E.6.q (5)(b) *The number of employees who attended the training event.* ***See the following table.***

Part I.E.6.q (5)(c) *The objective of the training event.* ***See the following table.***

TRAINING EVENT INFORMATION

Location	***Date***	***Employee #(s)/Name(s)*****	***Objective/Topic***
1340 East Washington Street (2nd Floor – Large Training Room)	***6/3/2022***	***1) Jamie Fagan 2) Reggie Lantz 3) Lauren Fowler 4) Andrew Barnes 5) Darryl E. Walker 6) Hall Wingfield 7) Montello Chambers 8) Scott Flaherty***	***MS4 Presentation – MCM's; Importance of Pollution Prevention; SWPPP Overview, Content, Inspections & Potential Pollutant Sources.***

***** - Attendance taken at the beginning of the training session.***

Chesapeake Bay TMDL Information

Part II.A.13.a *Provide a list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.E.5.g of the MS4 General Permit and the estimated reduction of pollutants of concern achieved by each reported in pounds per year.* ***Street sweeping operations were (and are) still being maintained by the City. No other BMP's were newly implemented during these reporting periods other than those reported to the BMP Warehouse.***

Part II.A.13.b *If credits were acquired during the reporting period to meet all or of the potion of the required reductions in Part II.A.3, A.4, or A.5 of the MS4 General Permit, provide a statement of that credits were acquired.* ***No nutrient credits were acquired during these reporting periods.***

Part II.A.13.c *Provide the progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids.* ***Progress toward meeting reductions is as follows:***

				Pollutant of Concern Removal (lbs)		
Project Description	**Project Type**	**Quantity**	**Unit**	**TN**	**TP**	**TSS**
Street Sweeping (Lane Miles Method)	Street Sweeping	657.429	dry weight collected/yr	1643.57	657.43	197,228.65
Canal Street*	Bioretention		n/a	1.29	0.16	45.20
			Total Reduction To Date	**1,644.86**	**657.59**	**197,273.85**

Part II.A.13.d *Provide a list of BMPs that are planned for implementation during the next reporting period.* ***There has been preparation for a Stream Restoration Project to help address TMDL goals proposed in Year 4 to be finalized for construction in the Year 5 reporting period. An external consultant has been secured to develop an overall strategy for meeting 2025 TMDL requirements.***

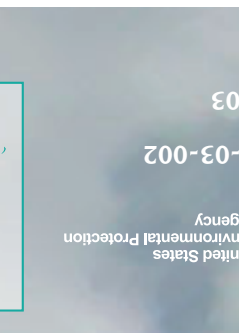
Local TMDL Information

Part II.B.9 *The annual report shall include a summary of actions conducted to implement each local TMDL action plan for the corresponding reporting period.* ***Summary of actions conducted include the eight cleanup activities mentioned in "Part I.E.2.f (3)" above, as well as the presence of pet waste signs at City facilities and/or public parks.***

Appendix A. Sample Public Education and Outreach Materials

After the Storm

A Citizen's Guide to Understanding Stormwater



What is stormwater runoff?

Stormwater runoff occurs when precipitation from rain or snowmelt flows over the ground. Impervious surfaces like driveways, sidewalks, and streets prevent stormwater from naturally soaking into the ground.

Why is stormwater runoff a problem?

Stormwater can pick up debris, chemicals, dirt, and other pollutants and flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water.

The effects of pollution

Polluted stormwater runoff can have many adverse effects on plants, fish, animals, and people.

- Sediment can cloud the water and make it difficult or impossible for aquatic plants to grow. Sediment also can destroy aquatic habitats.
- Excess nutrients can cause algae blooms. When algae die, they sink to the bottom and decompose in a process that removes oxygen from the water. Fish and other aquatic organisms can't exist in water with low dissolved oxygen levels.
- Bacteria and other pathogens can wash into swimming areas and create health hazards, often making beach closures necessary.
- Debris—plastic bags, six-pack rings, bottles, and cigarette butts—washed into waterbodies can choke, suffocate, or disable aquatic life like ducks, fish, turtles, and birds.
- Household hazardous wastes like insecticides, pesticides, paint, solvents, used motor oil, and other auto fluids can poison aquatic life. Land animals and people can become sick or die from eating diseased fish and shellfish or ingesting polluted water.
- Polluted stormwater often affects drinking water sources. This, in turn, can affect human health and increase drinking water treatment costs.

For more information contact:

Darryl E. Walker
City of Petersburg - Department of Public Works
City Hall Annex, 103 West Tabb Street
Petersburg, VA 23803
(804) 733-2357
dwalker@petersburg-va.org

or visit
www.epa.gov/npdes/stormwater
www.epa.gov/nps

THE YEAR OF CLEAN WATER
Celebrating Achievement

EPA United States Environmental Protection Agency

EPA 833-B-03-002

January 2003

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Stormwater Pollution Solutions

Residential

Recycle or properly dispose of household products that contain chemicals, such as insecticides, pesticides, paint, solvents, and used motor oil and other auto fluids. Don't pour them onto the ground or into storm drains.

Lawn care

Excess fertilizers and pesticides applied to lawns and gardens wash off and pollute streams. In addition, yard clippings and leaves can wash into storm drains and contribute nutrients and organic matter to streams.

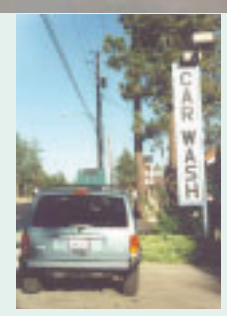
- Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- Compost or mulch yard waste. Don't leave it in the street or sweep it into storm drains or streams.
- Cover piles of dirt or mulch being used in landscaping projects.

Septic systems

Leaking and poorly maintained septic systems release nutrients and pathogens (bacteria and viruses) that can be picked up by stormwater and discharged into nearby waterbodies. Pathogens can cause public health problems and environmental concerns.

- Inspect your system every 3 years and pump your tank as necessary (every 3 to 5 years).
- Don't dispose of household hazardous waste in sinks or toilets.

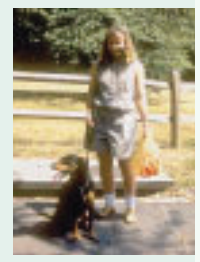
Auto care



Washing your car and degreasing auto parts at home can send detergents and other contaminants through the storm sewer system. Dumping automotive fluids into storm drains has the same result as dumping the materials directly into a waterbody.

- Use a commercial car wash that treats or recycles its wastewater, or wash your car on your yard so the water infiltrates into the ground.
- Repair leaks and dispose of used auto fluids and batteries at designated drop-off or recycling locations.

Pet waste



Pet waste can be a major source of bacteria and excess nutrients in local waters.

- When walking your pet, remember to pick up the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Education is essential to changing people's behavior. Signs and markers near storm drains warn residents that pollutants entering the drains will be carried untreated into a local waterbody.

Residential landscaping

Permeable Pavement—Traditional concrete and asphalt don't allow water to soak into the ground. Instead these surfaces rely on storm drains to divert unwanted water. Permeable pavement systems allow rain and snowmelt to soak through, decreasing stormwater runoff.

Rain Barrels—You can collect rainwater from rooftops in mosquito-proof containers. The water can be used later on lawn or garden areas.

Rain Gardens and Grassy Swales—Specially designed areas planted with native plants can provide natural places for rainwater to collect and soak into the ground. Rain from rooftop areas or paved areas can be diverted into these areas rather than into storm drains.

Vegetated Filter Strips—Filter strips are areas of native grass or plants created along roadways or streams. They trap the pollutants stormwater picks up as it flows across driveways and streets.

Commercial

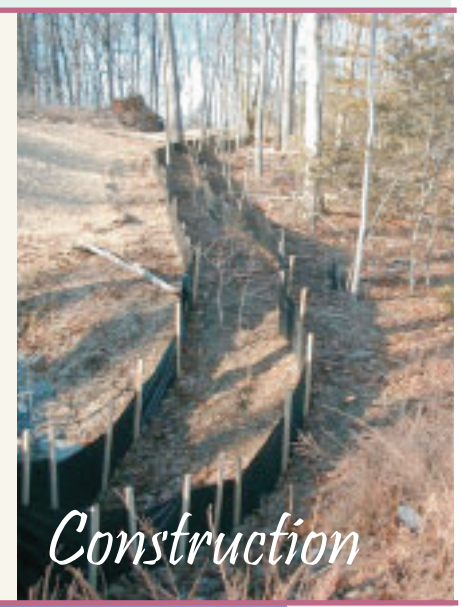
Dirt, oil, and debris that collect in parking lots and paved areas can be washed into the storm sewer system and eventually enter local waterbodies.

- Sweep up litter and debris from sidewalks, driveways and parking lots, especially around storm drains.
- Cover grease storage and dumpsters and keep them clean to avoid leaks.
- Report any chemical spill to the local hazardous waste cleanup team. They'll know the best way to keep spills from harming the environment.

Construction

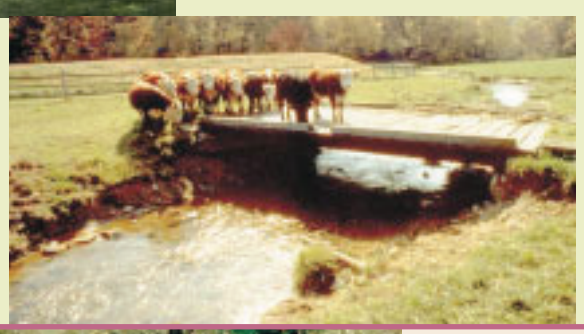
Erosion controls that aren't maintained can cause excessive amounts of sediment and debris to be carried into the stormwater system. Construction vehicles can leak fuel, oil, and other harmful fluids that can be picked up by stormwater and deposited into local waterbodies.

- Divert stormwater away from disturbed or exposed areas of the construction site.
- Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- Prevent soil erosion by minimizing disturbed areas during construction projects, and seed and mulch bare areas as soon as possible.



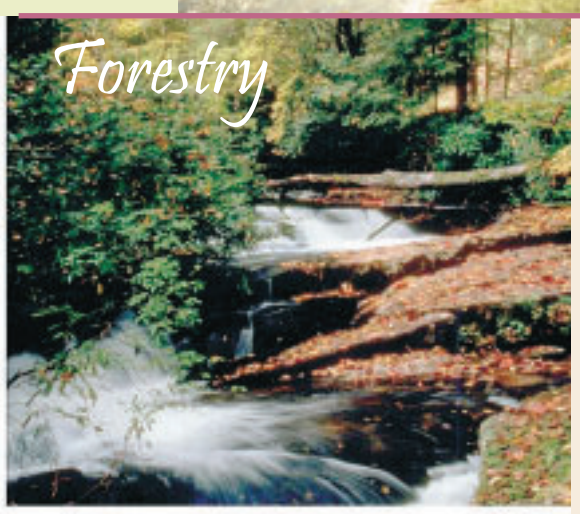
Agriculture

Lack of vegetation on streambanks can lead to erosion. Overgrazed pastures can also contribute excessive amounts of sediment to local waterbodies. Excess fertilizers and pesticides can poison aquatic animals and lead to destructive algae blooms. Livestock in streams can contaminate waterways with bacteria, making them unsafe for human contact.



- Keep livestock away from streambanks and provide them a water source away from waterbodies.
- Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- Vegetate riparian areas along waterways.
- Rotate animal grazing to prevent soil erosion in fields.
- Apply fertilizers and pesticides according to label instructions to save money and minimize pollution.

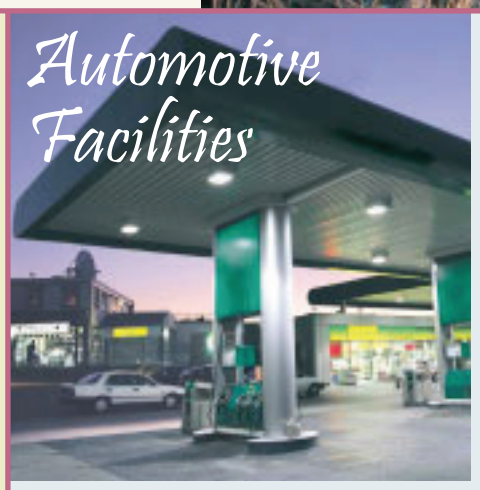
Forestry



Improperly managed logging operations can result in erosion and sedimentation.

- Conduct preharvest planning to prevent erosion and lower costs.
- Use logging methods and equipment that minimize soil disturbance.
- Plan and design skid trails, yard areas, and truck access roads to minimize stream crossings and avoid disturbing the forest floor.
- Construct stream crossings so that they minimize erosion and physical changes to streams.
- Expedite revegetation of cleared areas.

Automotive Facilities



Uncovered fueling stations allow spills to be washed into storm drains. Cars waiting to be repaired can leak fuel, oil, and other harmful fluids that can be picked up by stormwater.

- Clean up spills immediately and properly dispose of cleanup materials.
- Provide cover over fueling stations and design or retrofit facilities for spill containment.
- Properly maintain fleet vehicles to prevent oil, gas, and other discharges from being washed into local waterbodies.
- Install and maintain oil/water separators.

Make your home

The

SOLUTION

TO STORMWATER

POLLUTION!

A homeowner's guide to healthy habits for clean water

EPA United States Environmental Protection Agency

Remember: Only rain down the drain!

For more information, visit
www.epa.gov/npdes/stormwater
or
www.epa.gov/nps

Contact: Darryl E. Walker, dwalker@petersburg-va.org

City of Petersburg - Department of Public Works

City Hall Annex, 103 West Tabb Street

Petersburg, VA 23803

(804) 733-2357

EPA United States Environmental Protection Agency

EPA 833-B-03-003

January 2003

THE YEAR OF CLEAN WATER
Celebration of Recommitment

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Storm drains connect to waterbodies!

Pet Care

- When walking your pet, remember to **pick up** the waste and dispose of it properly. Flushing pet waste is the best disposal method. Leaving pet waste on the ground increases public health risks by allowing harmful bacteria and nutrients to wash into the storm drain and eventually into local waterbodies.

Swimming Pool and Spa

- **Drain** your swimming pool only when a test kit does not detect chlorine levels.
- Whenever possible, drain your pool or spa into the **sanitary** sewer system.
- Properly store pool and spa chemicals to **prevent** leaks and spills, preferably in a covered area to avoid exposure to stormwater.

Septic System Use and Maintenance

- Have your septic system **inspected** by a professional at least every 3 years, and have the septic tank **pumped** as necessary (usually every 3 to 5 years).
- Care for the septic system drainfield by **not** driving or parking vehicles on it. Plant only grass over and near the drainfield to avoid damage from roots.
- Flush responsibly. Flushing household chemicals like paint, pesticides, oil, and antifreeze can **destroy** the biological treatment taking place in the system. Other items, such as diapers, paper towels, and cat litter, can **clog** the septic system and potentially damage components.

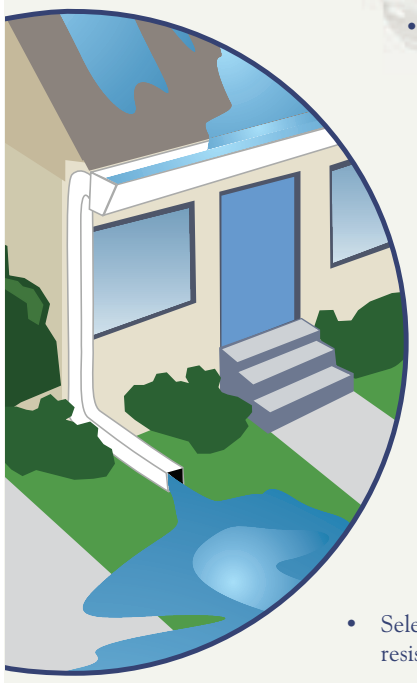
As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the waterbodies we use for swimming, fishing, and providing drinking water. Polluted runoff is the nation's greatest threat to clean water.

By practicing healthy household habits, homeowners can keep common pollutants like pesticides, pet waste, grass clippings, and automotive fluids off the ground and out of stormwater. Adopt these healthy household habits and help protect lakes, streams, rivers, wetlands, and coastal waters. Remember to share the habits with your neighbors!

Healthy Household Habits for Clean Water

Vehicle and Garage

- Use a commercial car wash or wash your car on a lawn or other unpaved surface to **minimize** the amount of dirty, soapy water flowing into the storm drain and eventually into your local waterbody.



- Check your car, boat, motorcycle, and other machinery and equipment for leaks and spills. Make repairs as soon as possible. Clean up **spilled fluids** with an absorbent material like kitty litter or sand, and don't rinse the spills into a nearby storm drain. Remember to properly dispose of the absorbent material.

- **Recycle** used oil and other automotive fluids at participating service stations. Don't dump these chemicals down the storm drain or dispose of them in your trash.

Lawn and Garden

- Use pesticides and fertilizers **sparingly**. When use is necessary, use these chemicals in the recommended amounts. Avoid application if the forecast calls for rain; otherwise, chemicals will be washed into your local stream.

- Select **native** plants and grasses that are drought- and pest-resistant. Native plants require less water, fertilizer, and pesticides.

- **Sweep up** yard debris, rather than hosing down areas. Compost or recycle yard waste when possible.

- Don't overwater your lawn. Water during the **cool** times of the day, and don't let water run off into the storm drain.

- Cover piles of dirt and mulch being used in landscaping projects to prevent these pollutants from blowing or washing off your yard and into local waterbodies. **Vegetate** bare spots in your yard to prevent soil erosion.

Home Repair and Improvement

- Before beginning an outdoor project, locate the nearest storm drains and **protect** them from debris and other materials.

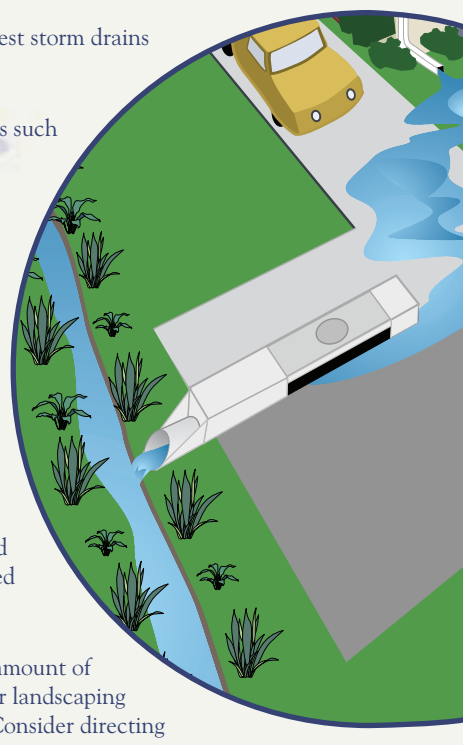
- **Sweep up** and properly dispose of construction debris such as concrete and mortar.

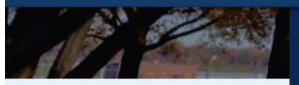
- Use hazardous substances like paints, solvents, and cleaners in the **smallest amounts possible**, and follow the directions on the label. Clean up spills **immediately**, and dispose of the waste safely. Store substances properly to avoid leaks and spills.

- Purchase and use **nontoxic**, **biodegradable**, **recycled**, and **recyclable** products whenever possible.

- **Clean** paint brushes in a sink, not outdoors. Filter and reuse paint thinner when using oil-based paints. Properly dispose of excess paints through a household hazardous waste collection program, or donate unused paint to local organizations.

- **Reduce** the amount of paved area and increase the amount of vegetated area in your yard. Use native plants in your landscaping to reduce the need for watering during dry periods. Consider directing downspouts away from paved surfaces onto lawns and other measures to increase infiltration and reduce polluted runoff.





Stormwater Management

The Stormwater Management Program promotes effective storm water drainage and informs and educates residents on storm water issues.

Responsibilities

The Stormwater Management Program's responsibilities include;

- Daily site inspection of multiple construction projects to ensure compliance with local, state, and federal codes and standards
- Performs site construction, erosion and sediment control (E&S), and Best Management Practice inspections in support of the City's E&S, MS4 and VSMP Permit
- The review of site and development plans

Additional Information

The city operates and maintains drainage facilities that are located within the public right-of-way or public easements.

Stormwater Utility Frequently Asked Questions

Stormwater Advisory Committee Presentation

June 2013 Public Meeting Presentation (Stormwater Utility Fee Program)

Stormwater Utility Ordinance (As Adopted)

Stormwater Utility Rate Resolution (As Adopted)

Residential Fee Credit Manual (With Application)

Non-Residential /Multi-Family Fee Credit Manual (With Application)

MS4 Annual Report

MS4 Program Plan

2015 Chesapeake Bay TMDL Action Plan

Contact Us

Darryl Walker
Stormwater Program Manager
Email

103 W. Tabb St.
Petersburg, VA 23803

Ph: 804-733-2357
Fx: 804-732-2030

Hours
Monday - Friday
8:30 a.m. - 5 p.m.

Staff Directory

Quick Links

- Virginia Department of Environmental Quality

TEN TIPS FOR FERTILIZING YOUR LAWN

1. Get Tested
Have your soil tested for pH levels and the need for additional nutrients. This will help determine which fertilizers and supplements are needed.

2. Buy What You Need
Buy organic or synthetic fertilizer. Don't use a weed and feed product unless you have widespread weed problems in your yard. Instead, use straight fertilizer and spot treat or pull weeds. Ask the Cooperative Extension Service or your local garden center for specific guidance.

3. Slow It Down
Select lawn-grade fertilizers that include Slow Release Nitrogen to prevent lawn burn, reduce runoff and leaching of nutrients into groundwater.

4. Be Well Read
Read and follow all label directions when applying fertilizer. Incorrect application such as spilling onto paved surfaces can result in fertilizer being washed down storm sewers and ending up in our waterways.

5. Chill Out
Grass will not use fertilizer when it is not actively growing. To prevent runoff pollution of lakes and streams, never apply fertilizers to frozen ground or pavement.

6. Spread It Out
Be sure your spreader is working and adjusted properly. Read and follow the spreader setting instructions on the fertilizer label so that your spreader applies the correct amount of fertilizer.

7. Recycle Your Lawn
Leave the height of your grass long when mowing and leave clippings on your lawn to decompose. "Grass-cycling" is a great source of nitrogen and saves water and fertilizer.

8. Recycle Your Yard
Compost leaves, yard debris, and non-meat food scraps. They make great mulch for the garden.

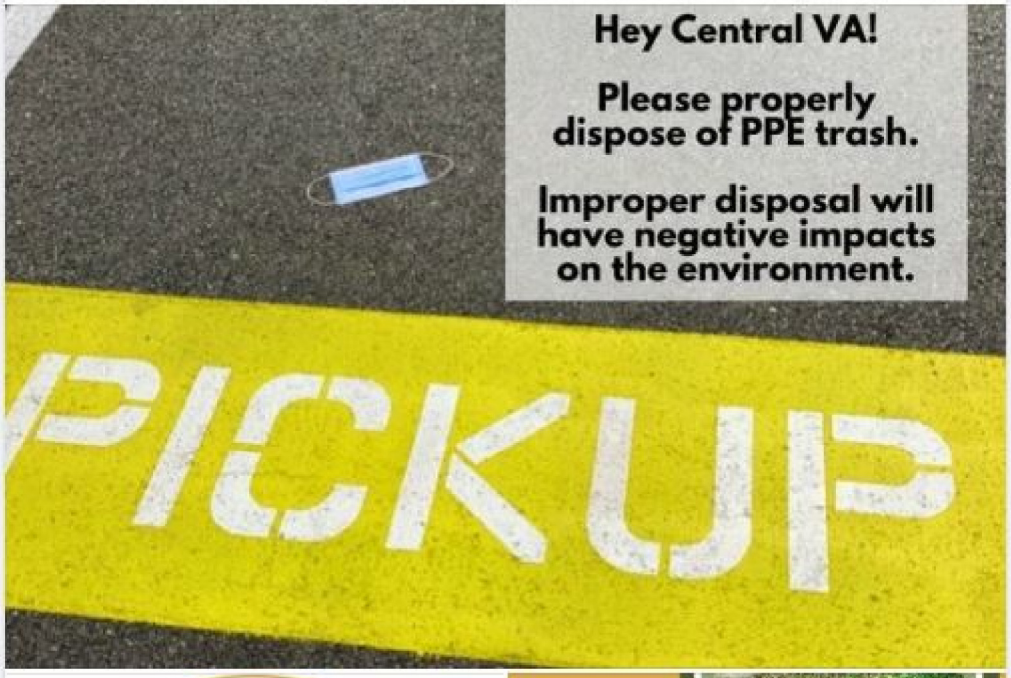
9. Slenderize Your Yard
Keep your yard healthy by controlling how much fertilizer it gets. Follow recommended rates for lawns in your area.

10. Protect The Borders
When applying fertilizers, maintain a buffer strip or fertilizer-free zone around the edges of lakes and streams.

Additional information can be found by following the link below:
http://www.epa.gov/reg3wcmd/pesticideslawn.htm

Petersburg VA
12 mins ·

The City of Petersburg is partnering with other Central Virginia localities to promote litter prevention. The goals of the campaign are to increase awareness of the negative impacts of litter. Stay tuned for info on the City of Petersburg's litter prevention initiative that is underway.



1 1 Share

Darryl Walker

From: Heather Barrar <hbarrar@folar-va.org>
Sent: Wednesday, June 8, 2022 9:57 AM
To: Hailey Fry; Wendy Austin; Marquis Allen; Kiffy Werkheiser; Darryl Walker
Cc: Sheila Reeves; Janell Sinclair; Joanne Williams
Subject: RE: Youth Program - May 7

Hello Hailey,

Unfortunately, we were rained out 2 weekends in a row and our educational program partner was booked for the rest of the grant cycle. We did have 19 students attend the program in Colonial Heights (fall 2021) and 9 students attend in Hopewell (spring 2022) and those programs were open to youth from any locality. I know a few were from Petersburg.

Thanks for checking in,

Heather

From: Hailey Fry <Hailey.Fry@timmons.com>
Sent: Wednesday, June 8, 2022 8:54 AM
To: Wendy Austin <waustin@folar-va.org>; Marquis Allen <mcallen@petersburg-va.org>; Kiffy Werkheiser <KWerkheiser@folar-va.org>; Darryl Walker <dwalker@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Heather Barrar <hbarrar@folar-va.org>; Janell Sinclair <jasinclair@petersburg-va.org>; Joanne Williams <jwilliams@petersburg-va.org>
Subject: RE: Youth Program - May 7

Good morning all,

I wanted to reach out and see if the Youth Program was ever able to be completed, and if so do you have a total number of participants?

Thank you,
Hailey

From: Wendy Austin <waustin@folar-va.org>
Sent: Tuesday, May 10, 2022 8:33 AM
To: Hailey Fry <Hailey.Fry@timmons.com>; Marquis Allen <mcallen@petersburg-va.org>; Kiffy Werkheiser <KWerkheiser@folar-va.org>; Darryl Walker <dwalker@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Heather Barrar <hbarrar@folar-va.org>; Janell Sinclair <jasinclair@petersburg-va.org>; Joanne Williams <jwilliams@petersburg-va.org>
Subject: RE: Youth Program - May 7

Hi Hailey,
We had to postponed last Saturday to this coming Sat, May 14th due to the weather. We'll let you know how many attend the upcoming program.
Wendy

Wendy Austin
waustin@folar-va.org

M) 804 543-0325
Executive Director
Friends of the Lower Appomattox River (FOLAR)

From: Hailey Fry <Hailey.Fry@timmons.com>
Sent: Tuesday, May 10, 2022 8:22 AM
To: Wendy Austin <waustin@folar-va.org>; Marquis Allen <mcallen@petersburg-va.org>; Kiffy Werkheiser <KWerkheiser@folar-va.org>; Darryl Walker <dwalker@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Heather Barrar <hbarrar@folar-va.org>; Janell Sinclair <jasinclair@petersburg-va.org>; Joanne Williams <jwilliams@petersburg-va.org>
Subject: RE: Youth Program - May 7

Good morning all,

I hope the youth program went well over the weekend! Is there a total count of participants?

Thank you,
Hailey

From: Wendy Austin <waustin@folar-va.org>
Sent: Friday, April 15, 2022 1:29 PM
To: Hailey Fry <Hailey.Fry@timmons.com>; Marquis Allen <mcallen@petersburg-va.org>; Kiffy Werkheiser <KWerkheiser@folar-va.org>; Darryl Walker <dwalker@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Heather Barrar <hbarrar@folar-va.org>; Janell Sinclair <jasinclair@petersburg-va.org>; Joanne Williams <jwilliams@petersburg-va.org>
Subject: RE: Youth Program - May 7

Yes. We can add these to the participant day bags to take home.

Wendy Austin
waustin@folar-va.org
M) 804 543-0325
Executive Director
Friends of the Lower Appomattox River (FOLAR)

From: Hailey Fry <Hailey.Fry@timmons.com>
Sent: Thursday, April 14, 2022 4:07 PM
To: Marquis Allen <mcallen@petersburg-va.org>; Kiffy Werkheiser <KWerkheiser@folar-va.org>; Darryl Walker <dwalker@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Wendy Austin <waustin@folar-va.org>; Heather Barrar <hbarrar@folar-va.org>; Janell Sinclair <jasinclair@petersburg-va.org>; Joanne Williams <jwilliams@petersburg-va.org>
Subject: RE: Youth Program - May 7

Good afternoon,

Would it be possible to distribute this coloring sheet and word search to the participants of the program to serve as another form of education and outreach?

Thank you,

Petersburg VA

7 mins ·

Help Children Learn About the Importance of Recycling! The more we recycle, the less damage will be done to our natural world. Check out the attachments for your children.

Like Comment Share

Petersburg VA
17 hrs ·

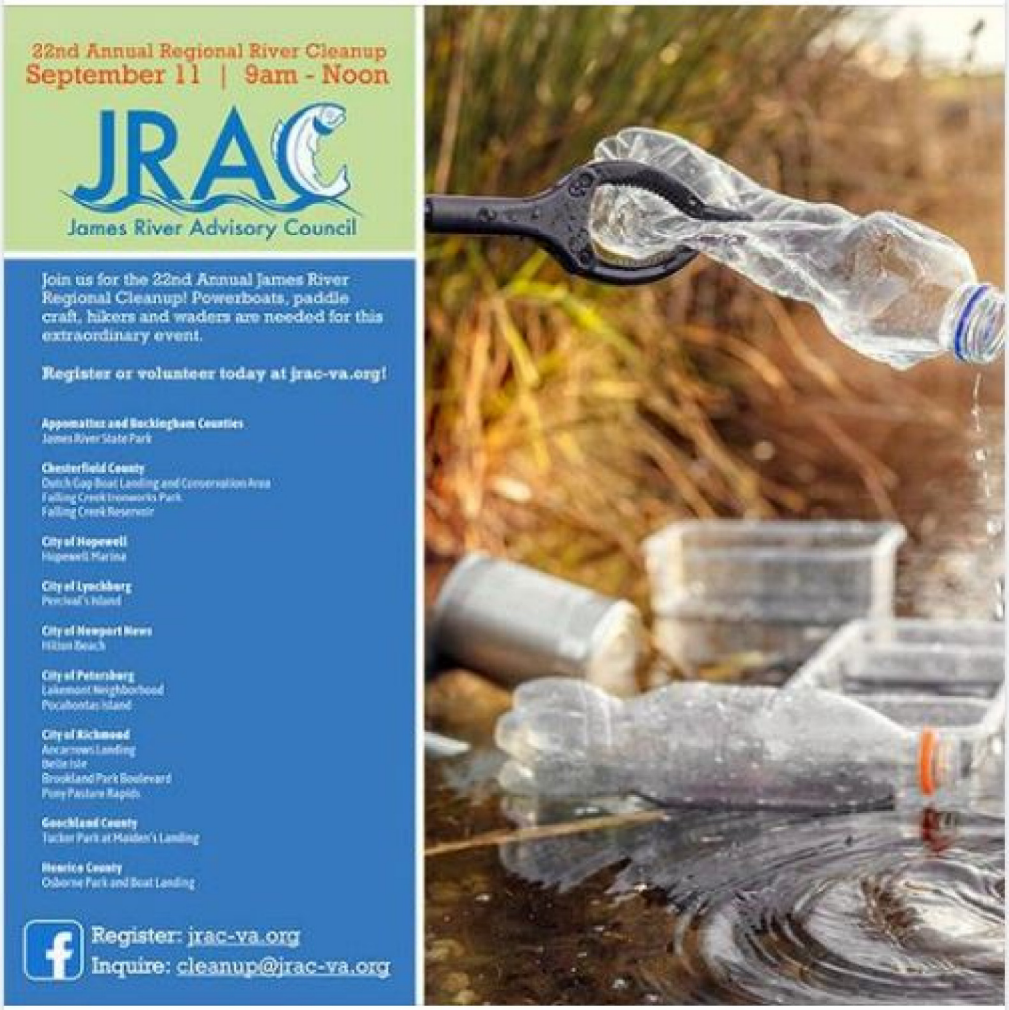
We Love Our Pups - a Reminder to Keep Petersburg Clean by Scooping the Poop. Take a look at the Pet Care Fact Sheets.

15 4 Comments 5 Shares

Like Comment Share

Petersburg VA
August 31, 2021 ·

Help Keep Our City and Waterways Clean! Mark Your Calendar for River Cleanup Day on September 11. Focus areas in Petersburg are Pocahontas Island and the Lakemont Neighborhood. For more info, visit: https://jrac-va.org.



4 13 Shares

Like Comment Share

PETERSBURG
Fall City Wide Neighborhood Clean-out

Saturday, October 16, 2021
8:00AM-12:00noon

Attention Petersburg Residents! It's that time of year! Do you have old appliances, trash or other bulky items you would like to get rid of during the Fall City Wide Neighborhood Clean Out? YOU have an opportunity to DUMP YOUR JUNK for FREE on Saturday, October 16, 2021. This event is sponsored by the City of Petersburg Public Works Department, Recreation & Special Events and Central Virginia Waste Management.

CONTAINERS WILL BE LOCATED AT:

SITE 1
Cool Springs Elementary School
1450 Talley Avenue (Parking Lot across from the school)

SITE 2
Pleasants Lane
100 Pleasants Lane (Parking Lot)

SITE 3
Peabody Middle School
725 Wesley Street
(Halifax Street - Parking Lot)

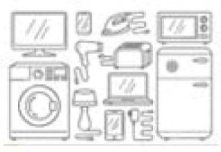
SITE 4
Pittman Annex Parking Lot
35 Pine Street (Wythe St. Lot)

SITE 5
Blandford School
(Parking Lot)

SITE 6
Legends Park
1937 Johnson Road
(Recreation Parking Area)

ACCEPTED ITEMS:
Household Trash
Furniture
White Goods (Appliances)
Carpet

CAN NOT ACCEPT:
Hazardous/Toxic Waste
Batteries
Engine Oil
Paints
Cleaning Chemicals
Herbicides/Pesticides
Liquid of ANY kind
Grass/Leaves/Brush
Tires
Food Waste

The Fall City Wide Neighborhood Clean OUT will be available to Petersburg residents only. Commercial haulers and contractors are prohibited from using the above sites. The amount of trash a resident my bring to the site each time should contain no more waster that would fit in a pickup truck. Questions - call the Recreation, Special Events and Volunteerism office, 804.324.4015.

Petersburg VA
April 17 at 9:09 AM ·

More than 55 soldiers from Fort Lee helped pickup trash in Petersburg on Saturday, April 16. THANK YOU! Cleanups are happening throughout the City every week. Organize your neighborhood or organization and help keep Petersburg Clean! Learn more: http://www.petersburg-va.org/.../Dont-Trash-Petersburg...
CITYWIDE CLEANUP SCHEDULED FOR MAY 14, 2022.

DON'T trash Petersburg VIRGINIA

108 11 Comments 19 Shares

Petersburg VA
April 23 at 1:11 PM ·

Another weekend community cleanup. Thank you! There will be a citywide cleanup on May 14. Go to http://www.petersburg-va.org/.../Dont-Trash-Petersburg... for information. The forms to signup for cleanups is at the bottom of the website page. Don't Trash Petersburg!
#donttrashpetersburgva

Petersburg Bureau of Police ▸ Petersburg Bureau of Police
April 23 at 11:42 AM ·

Earth Day Clean Up

The 13 year old daughter of one of our Police Lieutenants (Lt. James Frye) for her birthday wanted to do a community clean up

Petersburg VA
April 23 at 6:57 AM ·

SAT, APR 30 AT 9:00 AM EDT

Volunteer River Clean-up

2 people going

2

Like Comment Share

FOLAR - Friends of the Lower Appomattox River added 29 new photos.

May 3 at 11:51 AM ·

THANK YOU to our 77 volunteers who helped out at our Volunteer River Clean-up last weekend. Together we picked up...
*115 bags of trash *28 tires *2 buckets of plastic bottles to recycle *1 office chair *1 gallon of motor oil, and *1 air mattress!
Special thanks to volunteer groups from Perdue Farms, Gerdau Steel Mill, and Fort Lee, and support from Trapezium Brewing Company, Virginia American Water, and Meridian Waste.
#donttrashcentralva #recycle #rivercleanup #watershed #AppomattoxRiverTrail

Petersburg VA
May 14 at 10:15 PM ·

The Petersburg Team led by Mayor Parham, Deputy City Manager Tangela Innis and Trash Czar Thomi Hairston helped cleanup the City on Saturday, May 14 despite the rain. There were city crews in all wards. If you joined in picking up trash and we missed you in the photos, please post below. Thanks to ALL who came out for the Citywide Cleanup. Don't Trash Petersburg! #donttrashpetersburgva

26 1 Share

Petersburg VA
May 19 at 1:31 PM ·

Thank you for helping to Keep Petersburg Clean!
#donttrashpetersburgva

Petersburg The 4 House
May 19 at 11:21 AM ·

Today we looked out the Bay and say the wonderful children from Devine Kare Learning Center cleaning up the neighborhood. We invited them in to see the Engine and give them some special gifts for their hard work to help the community.

68 3 Comments 6 Shares

Flood Mitigation in Petersburg's Lakemont Neighborhood

Residents of Petersburg's Lakemont neighborhood have experienced flooding as a result of an inadequate storm sewer system in recent years. This flooding is exacerbated by the increasing frequency of heavy rain events fueled by climate change. The Lakemont Neighborhood Drainage Study (2019) identifies projects intended to reduce flooding in the neighborhood. The City of Petersburg is actively working to reduce flooding by implementing projects in the study with support from the James River Association and Timmons Group. Project updates are below.

- **Culpeper Avenue Storm Sewer Extension - COMPLETE**

The Culpeper Avenue Storm Sewer Extension project, which reduces flooding in the vicinity of Brunswick Street and Slagle Avenue, was successfully implemented in 2021. The project adds capacity to the storm sewer system and includes 225' of new storm sewer pipe and Petersburg's first hydrodynamic separator, a structure in the ground that improves local water quality by separating pollutants from stormwater.

- **N. Whitehill Drive Drainage Improvements - IN DESIGN**

The N. Whitehill Drive Drainage Improvements project seeks to reduce flooding caused by an undersized and dilapidated storm sewer system in the vicinity of N. Whitehill Drive and Nash Street. This project is being designed by Timmons Group and currently includes the installation of new storm sewer pipes and grassy swales to better manage stormwater. New storm sewer pipes are planned for N. Whitehill Drive and Nash Street. Two grassy swales are planned for the eastern side of Nash Street between N. Whitehill Drive and S. Whitehill Drive.

- **Battlefield Flood Remediation and Drainage Improvements - PLANNED**

The James River Association submitted a planning and technical assistance grant application to the National Fish and Wildlife Foundation's Chesapeake Bay Small Watershed Grant program to support the Battlefield Flood Remediation and Drainage Improvements project. This planning and design project will identify engineered solutions to flooding experienced by residents in the vicinity of S. Whitehill Drive, Henrico Street, and Appleton Street.

If you have any questions about these projects or would like to report flooding in the neighborhood, please contact Justin Doyle, the James River Association's Director of Community Conservation, by calling (804) 572-4667 or emailing jdoyle@thejamesriver.org.

CITY OF PETERSBURG VIRGINIA

James River ASSOCIATION

TIMMONS GROUP
ENGINEERING | DESIGN | TECHNOLOGY

Darryl Walker

From: Reggie Lantz <rlantz@petersburg-va.org>
Sent: Tuesday, June 21, 2022 3:38 PM
To: Hailey Fry
Cc: Sheila Reeves
Subject: Re: City of Petersburg Adopt-A-Spot Program

Good afternoon,

The records available at the Street Operations Division indicates that there are seventy participants.

Sincerely,

Reggie S. Lantz
City of Petersburg
Department of Public Works and Utilities
General Manager
Street Operations Division
804.733.2415

From: Hailey Fry <Hailey.Fry@timmons.com>
Sent: Tuesday, June 21, 2022 1:42 PM
To: Reggie Lantz <rlantz@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>
Subject: City of Petersburg Adopt-A-Spot Program

Good afternoon,

My name is Hailey and I am working with Darryl Walker to ensure the city meets their MS4 requirements. As part of that we need a record of the number of Adopt-A-Spot participants the city currently has. Are you able to provide us with that number?

Thank you,

Hailey Fry, EIT
Project Engineer II

TIMMONS GROUP | www.timmons.com
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
Office: 804.200.8317 | Fax: 804.560.1016
hailey.fry@timmons.com
Your Vision Achieved Through Ours

Darryl Walker

From: Reggie Thompson <rthompson@cvwma.com>
Sent: Thursday, June 9, 2022 2:09 PM
To: Andrew J. Barnes; Hailey Fry
Cc: Sheila Reeves; Darryl Walker; Bill Riggleman; Richard Nolan
Subject: RE: City of Petersburg Recycling Participants

Good afternoon,

As of May 2022, the City of Petersburg has 11,052 participants in their curbside recycling program.

From: Andrew J. Barnes <abarnes@petersburg-va.org>
Sent: Thursday, June 9, 2022 1:28 PM
To: Hailey Fry <Hailey.Fry@timmons.com>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Darryl Walker <dwalker@petersburg-va.org>; Reggie Thompson <rthompson@cvwma.com>; Bill Riggleman <bill@petersburg-va.org>
Subject: RE: City of Petersburg Recycling Participants

Hailey,
I don't have an active role in the City's solid waste or recycling programs. You may wish to see if Bill Riggleman (Petersburg) or Reggie Thompson (CVWMA) readily have that information. They are both copied on this email, but you may want to contact them directly.

Sincerely,

Andrew J. Barnes, P.E.
City Engineer &
General Manager of Utilities

City of Petersburg
1340 E. Washington Street
Petersburg, VA 23803
(O) 804-733-2356
(C) 804-586-0500

From: Hailey Fry <Hailey.Fry@timmons.com>
Sent: Thursday, June 9, 2022 10:17 AM
To: Andrew J. Barnes <abarnes@petersburg-va.org>
Cc: Sheila Reeves <Sheila.Reeves@timmons.com>; Darryl Walker <dwalker@petersburg-va.org>
Subject: City of Petersburg Recycling Participants

Good morning,

As part of the City's MS4 compliance they are required to offer Household Recycling that citizens can participate in. Can you provide us with a total number of citizens that are participating in the program so we can report compliance in this year's report?

Thank you,

Hailey Fry, EIT
Project Engineer II

TIMMONS GROUP | www.timmons.com
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
Office: 804.200.8317 | Fax: 804.560.1016
hailey.fry@timmons.com
Your Vision Achieved Through Ours
To send me files greater than 20MB click here.

This e-mail message and any attached files are for the sole use of the intended recipient(s) and may contain privileged, confidential or otherwise protected from disclosure information. If you are not the intended recipient, please contact the sender by reply e-mail and destroy all copies of the original message. If you are not the intended recipient you are notified that disclosing, copying, distributing or taking any action in reliance on the contents of this information is strictly prohibited.

Appendix B. Illicit Discharge Reports Filed/Documented by DEQ

Finalized by VPDES Staff 10/30/08

Unauthorized Discharge & Overflow Report

Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: _____ **Reported To:** 804 527-5127 Patrick Bishop

Date Reported: 8-2-21 **Time:** 7:40 am **Reported by:** _____

Receiving Facility Name Utilites **Permit No.:** VA 0025437

Owner of Conveyance (if different from receiving facility) Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: C Jones / G Marek **Telephone No.:** (804) 733-2407

Date of Incident 8-1-21 **Time of Incident:** 10:00 am

Length of Time Discharge Continued: 3hrs.

Volume of Discharge (gal): 250

(By Pass Sewer Pump)

Description of Nature and Location of Discharge 655 Pegram St Had To Get By Pass Set up To Stop spill

Affected Body of Water (if applicable): _____

Has the Virginia Department of Health (VDH) Been Notified? ☐Yes ☑No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped **and** you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Finalized by VPDES Staff 10/30/08

Unauthorized Discharge & Overflow Report

Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: 08012021 **Reported To:** 804 527-5127 Patrick Bishop

Date Reported: 8- 2-2021 **Time:** 9:30am **Reported by:** Fred Satterwhite

Receiving Facility Name Southside Central Wastewater Authority WWTF **Permit No.:** VA 0025437

Owner of Conveyance (if different from receiving facility) Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: Will Walton **Telephone No.:** 804-988-6666

Date of Incident 03-24-2021 **Time of Incident:** 8 am– 9:30 am

Length of Time Discharge Continued: 1 ½ hours

Volume of Discharge (gal): 350 gals.

Description of Nature and Location of Discharge

Main Pump Station – due to heavy rain event

Affected Body of Water (if applicable): Appomattox River

Has the Virginia Department of Health (VDH) Been Notified? X□Yes □No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped **and** you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Finalized by VPDES Staff 10/30/08

Unauthorized Discharge & Overflow Report

Piedmont Regional Office
Phone #(804)527-5020 Fax #(804)527-5106

Incident Response No: _____ **Reported To:** 804 527-5127 Patrick Bishop

Date Reported: 11-30-21 **Time:** _____ **Reported by:** _____

Receiving Facility Name Utilities **Permit No.:** VA 0025437

Owner of Conveyance (if different from receiving facility) Petersburg Public Utilities

Address: 424 St. Andrews St.

County/City: Petersburg, VA **Zip:** 23803

Contact at Scene: C Jones 21 **Telephone No.:** (804) 733-2407

Date of Incident 11-29-21 **Time of Incident:** 3:15 pm

Length of Time Discharge Continued: 2hrs

Volume of Discharge (gal): 50

Description of Nature and Location of Discharge Blow off Sewer Valve Gone Bad Cause Manhole over flow And Pump Sewer out To Next Near By Sewer Manhole To Fix Problem - Confederate Rd & Hatchett Rd.

Affected Body of Water (if applicable): N/A

Has the Virginia Department of Health (VDH) Been Notified? ☐Yes ☐No
(Contact VDH if a drinking water supply or shellfish waters may be impacted or if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your five day letter if the discharge has been stopped **and** you attach a description of the steps planned or taken to reduce, eliminate, and prevent a recurrence of present or any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP W/in 24 hrs by phone

Finalized by VPDES Staff 10/30/08

Unauthorized Discharge & Overflow Report

Piedmont Regional Office
Phone: (804) 527-5020 Fax: (804) 698-4178

Incident Response No: _____ Reported To: Patrick Bishop (804) 527-5127

Date Reported: June 30, 22 Time: 3:25 pm Reported By: R. Johnson

Receiving Facility Name: 1730 S. Sycamore St Permit: VA 0025437

Owner of Conveyance: Petersburg Public Utilities Telephone No: (804) 733-2407

Address: 1340 E. Washington Street County/City: Petersburg, VA Zip: 23803

Contact at Scene: Samer Hanna Time of Incident: 4:00 pm

Length of Time Discharge Continued: 30minutes

Volume of Discharge (gallons): 100

Description of Nature and Location of Discharge: 1730 S. Sycamore St Rodded City Main On Fair Fax Side To Unstopped Manhole Spilling On Property And City Sewer Currently Running

Affected Body of Water (if applicable): No

Has the Virginia Department of Health (VDH) Been Notified: [√] Yes [ ] No
(Contact VDH if a drinking water supply of shellfish waters may be impacted of if spill volume is greater than 1000 gallons or unknown)

Note to Facility: This FAXED report can also serve as your 5-day letter if the discharge has been stopped AND you attach a description of the steps planned or taken to reduce, eliminate and prevent a recurrence of present of any future discharges not authorized by a permit.

PLEASE CONTACT PATRICK BISHOP WITHIN 24 HOURS BY PHONE

Appendix C. Record of Land Disturbance Projects

Petersburg Development Projects – FY2022

1. Amsted Rail – R & T Center Shed, 2740 Frontage Road, Tax Parcel 064-03-0002, 0.49 acres, Industrial

2. Amsted Rail – Seals and Forming, 2580 Frontage Road, Tax Parcel 057-06-0001, 1.45 acres, Industrial

3. Berkeley Estates – Section I Phase 2, 500 Old Wagner Road, Tax Parcel 083-02-0001, 7.92 acres, Residential

4. Berkeley Estates – Section 2, 3601 Frontage Road, Tax Parcel 086-03-0009, 9.60 acres, Residential

5. Civica FFF – Early Site Package, 2821 Normandy Drive, Tax Parcel 063-01-0800, 7.72 acres, Industrial

6. Clearfield MMG, 2700 Normandy Drive, Tax Parcel 064-03-0801, 5.20 acres, Industrial

7. Dominion Energy Locks Yard IIA & IIB, 33 Rawlings Lane, Tax Parcel 027-01-0005, 9.16 acres, Industrial

8. Family Dollar – Boydton Plank Road, 1847 Boydton Plank Road, Tax Parcel 057-07-0805, 0.98 acres, Commercial

9. Holland Tract Utility Extension, 550 & 601 Rives Road, Tax Parcels 102-05-0001, 5.00 acres, Linear Utility

10. Ivy Gates Apartments (Rescind Stop Work Order), 1550 S. Sycamore Street, Tax Parcel 044-35-0015, 0.23 acres, Residential

11. Market Street Lofts, 201 (formerly 225) Hinton Street & 39 North Market Street, Tax Parcels 010-22-0025 & 011-24-0020, 0.97 & 0.30 acres, Commercial

12. Pecan Acres – Phase I, 1400 Farmer Street, Tax Parcel 046-04-0014, 7.70 acres, Residential

13. Petersburg Park & Ride, 42, 38 & 24 S. Union Street, Tax Parcels 022-05-0010, 022-05-0011 & 022-05-0012, 0.92 acres, Commercial

14. Petersburg Public Library – Conference & Event Center, 201 West Washington Street, Tax Parcel 022-01-0001, 0.62 acres, Commercial

15. Phlow FFF – Early Site Package, 2821 Normandy Drive, Tax Parcel 063-01-0800, 10.13 acres, Industrial

16. Phlow – HMF & KILO Site Package, 2820 & 2821 Normandy Drive, Tax Parcels 063-01-0001 & 063-01-0800, 2.55 acres, Industrial

17. Phlow Utah & HMF Early Site Package, 2820 & 2821 Normandy Drive, Tax Parcels 063-01-0001 & 063-01-0800, 6.93 & 13.90 acres, Industrial

18. Phlow Utah Final Site Package, 2820 & 2821 Normandy Drive, Tax Parcels 063-01-0001 & 063-01-0800, 4.47 & 17.65 acres, Industrial

19. Pin Oak Apartments, 37 Slagle Avenue, Tax Parcel 014-01-0001, 6.49 acres, Residential

20. P. I. Tower Development, 3245 S. Crater Road, Tax Parcel 081-06-0805, 0.21 acres, Commercial

21. Southline @ Perry Place, 110 & 120 S. Perry Street, Tax Parcels 023-32-0001 & 023-36-0004, 1.380 & 1.061 acres, Commercial

22. Triad Metals International, 2045 Squirrel Level Road & 2100 Defense Road, Tax Parcels 070-05-0002 & 070-05-0800, 28.92 acres, Industrial

Appendix D. DPW/U Record of Operation & Maintenance on Storm Sewers

The Department of Public Works Operations Division keeps records on their storm water sewer maintenance work and their street sweeping program. They have reported the following City expenses for sweeping and drain cleaning for the 2021-2022 Fiscal Year (July 1, 2021 through June 30, 2022).

Street Cleaning (Machine Sweeping)	$37,988.13
Clean & Reshape Ditches by Hand	$2,936.53
Clean & Reshape Ditches by Machine (Grader)	$35,670.10
New Ditch/Drainage	$27,298.82
Drainage Structures	$1,257.60
Erosion/Washout Repair	$2,609.93
Other Drainage Maintenance	$73,109.50
Total	$181,571.15

Appendix E. WLA Calculations & Results Summary

CITY OF PETERSBURG

WLA Calculations and Results Summary

The following calculations were performed in accordance with the Section IIB Special Conditions of General Permit for Discharges from Small Municipal Separate Storm Sewer Systems.

Background Information:

Total area within Petersburg City limits:	14,669 acres
Total drainage area to Appomattox River:	9,820 acres
Total drainage area to other outfalls:	4,849 acres
Percentage of impervious area within Appomattox River watersheds:	40%
Total Rainfall 07-01-2020 to 06-30-2021:	54.22 inches (Attachment)

Calculations:

Estimated Volume of Stormwater Discharged

*Annual Runoff, ft^3 = (% impervious, as a decimal) * (Annual Precipitation, ft) * (MS4 Area, ft^2)*

Estimate of Colony Forming Units of E. Coli

*Annual Fecal Coliform Load (cfu/year) = 103 * (Annual Runoff, in) * (15,000/ml) * (area, ac)*

$$E.\ Coli = 2^{[-0.0172+0.91905*Log_2(annual\ fecal\ coliform\ load,\ cfu/year)]}$$

Table 1. Estimated Volume of Stormwater and E. coli Discharged by the City of Petersburg to Impaired Water Segment: Appomattox River (2)

MS4 Watershed	Drainage Area		Est. Volume Stormwater	Fecal Coliform	E. Coli
	(sf)	(ac)	(ft^3)	(cfu/yr)	(cfu/yr)
Appomattox Riverfront	11,087,378	255	20,038,588	8.53E+09	1.32E+09
Rohoic Creek	56,008,665	1,286	101,226,327	4.31E+10	5.87E+09
Brickhouse Run	61,756,897	1,418	111,615,299	4.75E+10	6.42E+09
Cross Street	2,889,637	66	5,222,537	2.22E+09	3.85E+08
Fleet Street East	948,610	22	1,714,454	7.30E+08	1.38E+08
Fleet Street West	2,664,290	61	4,815,260	2.05E+09	3.57E+08
Anchor Sheds	4,751,500	109	8,587,544	3.66E+09	6.08E+08
Battersea	5,357,484	123	9,682,759	4.12E+09	6.78E+08
West Street	3,539,115	81	6,396,361	2.72E+09	4.63E+08
Total	**149,003,576**	**3,421**	**269,299,130**	**1.15E+11**	**1.62E+10**

Table 2. Estimated Volume of Stormwater and E. coli Discharged by the City of Petersburg to Impaired Water Segment: Appomattox (3) - Tidal

MS4 Watershed	Drainage Area		Est. Volume Stormwater	Fecal Coliform	E. Coli
	(sf)	(ac)	(ft^3)	(cfu/yr)	(cfu/yr)
Harrison Creek	41,189,178	946	74,442,574	3.17E+10	4.42E+09
River Street	3,190,033	73	5,765,453	2.45E+09	4.21E+08
Old Church Street	2,746,976	63	4,964,701	2.11E+09	3.67E+08
Pocahontas	2,428,607	56	4,389,302	1.87E+09	3.28E+08
Poor Creek (Poe Creek)	74,461,773	1,709	134,577,244	5.73E+10	7.62E+09
Lieutenant Run	154,739,404	3,552	279,665,683	1.19E+11	1.49E+10
Total	**278,755,971**	**6,399**	**503,804,958**	**2.14E+11**	**2.81E+10**

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	07	01	95	73	77	1.35		0.0		0.0								
2021	07	02	93	60	71	0.60		0.0		0.0								
2021	07	03	81	60	61	0.00		0.0		0.0								
2021	07	04	85	60	71	0.00		0.0		0.0								
2021	07	05	89	70	70	0.00		0.0		0.0								
2021	07	06	92	70	72	0.00		0.0		0.0								
2021	07	07	93	71	77	0.00		0.0		0.0								
2021	07	08	82	72	80	3.84		0.0		0.0								
2021	07	09	89	73	73	0.03		0.0		0.0								
2021	07	10	87	72	73	0.00		0.0		0.0								
2021	07	11	88	72	73	0.00		0.0		0.0								
2021	07	12	91	73	75	0.00		0.0		0.0								
2021	07	13	90	74	74	0.00		0.0		0.0								
2021	07	14	91	72	75	0.00		0.0		0.0								
2021	07	15	92	72	75	0.00		0.0		0.0								
2021	07	16	94	74	74	0.00		0.0		0.0								
2021	07	17	93	71	73	0.93		0.0		0.0								
2021	07	18	87	71	72	0.04		0.0		0.0								
2021	07	19	81	66	66	0.02		0.0		0.0								
2021	07	20	88	66	70	0.00		0.0		0.0								
2021	07	21	89	70	70	0.00		0.0		0.0								
2021	07	22	84	67	68	0.00		0.0		0.0								
2021	07	23	85	66	67	0.00		0.0		0.0								
2021	07	24	86	67	72	0.00		0.0		0.0								
2021	07	25	90	65	75	0.00		0.0		0.0								
2021	07	26	90	67	73	2.10		0.0		0.0								
2021	07	27	90	66	76	0.00		0.0		0.0								
2021	07	28	91	69	70	0.00		0.0		0.0								
2021	07	29	91	70	78	0.00		0.0		0.0								
2021	07	30	94	69	72	0.05		0.0		0.0								
2021	07	31	92	68	75	1.40		0.0		0.0								
Summary			89	69		10.36		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	08	01	84	70	70	0.20		0.0		0.0								
2021	08	02	82	66	67	0.00		0.0		0.0								
2021	08	03	78	67	70	0.00		0.0		0.0								
2021	08	04	79	63	63	0.00		0.0		0.0								
2021	08	05	84	63	64	0.00		0.0		0.0								
2021	08	06	86	63	72	0.00		0.0		0.0								
2021	08	07	75	70	71	1.52		0.0		0.0								
2021	08	08	85	69	72	0.00		0.0		0.0								
2021	08	09	90	72	74	0.00		0.0		0.0								
2021	08	10	92	74	74	0.00		0.0		0.0								
2021	08	11	94	74	75	0.00		0.0		0.0								
2021	08	12	94	75	78	0.00		0.0		0.0								
2021	08	13	95	73	74	0.00		0.0		0.0								
2021	08	14	94	72	75	2.55		0.0		0.0								
2021	08	15	87	74	76	2.50		0.0		0.0								
2021	08	16	86	74	76	0.75		0.0		0.0								
2021	08	17	89	75	77	0.22		0.0		0.0								
2021	08	18	88	77	77	0.26		0.0		0.0								
2021	08	19	91	73	74	1.36		0.0		0.0								
2021	08	20	85	73	74	0.00		0.0		0.0								
2021	08	21	86	72	75	0.00		0.0		0.0								
2021	08	22	90	70	71	0.40		0.0		0.0								
2021	08	23	93	71	77	0.00		0.0		0.0								
2021	08	24	93	70	73	0.00		0.0		0.0								
2021	08	25	94	73	75	0.00		0.0		0.0								
2021	08	26	93	72	75	0.00		0.0		0.0								
2021	08	27	92	73	73	0.00		0.0		0.0								
2021	08	28	93	72	72	0.32		0.0		0.0								
2021	08	29	88	72	74	0.00		0.0		0.0								
2021	08	30	93	72	72	0.29		0.0		0.0								
2021	08	31	88	71	74	0.00		0.0		0.0								
Summary			88	71		10.37		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests. "At Obs." = Temperature at time of observation

"T" values in the Precipitation or Snow category above indicate a "trace" value was recorded.

"A" values in the Precipitation Flag or the Snow Flag column indicate a multiday total, accumulated since last measurement, is being used.

Data value inconsistency may be present due to rounding calculations during the conversion process from SI metric units to standard imperial units.

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	09	01	88	66	66	0.75		0.0		0.0								
2021	09	02	79	55	56	0.00		0.0		0.0								
2021	09	03	79	55	58	0.00		0.0		0.0								
2021	09	04	81	58	64	0.00		0.0		0.0								
2021	09	05	86	64	69	0.00		0.0		0.0								
2021	09	06	85	63	63	0.00		0.0		0.0								
2021	09	07	87	62	69	0.00		0.0		0.0								
2021	09	08	85	69	73	0.14		0.0		0.0								
2021	09	09	81	61	61	0.18		0.0		0.0								
2021	09	10	78	56	57	0.00		0.0		0.0								
2021	09	11	80	56	62	0.00		0.0		0.0								
2021	09	12	85	62	67	0.00		0.0		0.0								
2021	09	13	90	66	69	0.00		0.0		0.0								
2021	09	14	90	68	70	0.00		0.0		0.0								
2021	09	15	87	69	73	0.00		0.0		0.0								
2021	09	16	87	72	74	0.35		0.0		0.0								
2021	09	17	81	71	71	0.10		0.0		0.0								
2021	09	18	86	67	68	0.00		0.0		0.0								
2021	09	19	88	67	67	0.00		0.0		0.0								
2021	09	20	81	64	64	0.00		0.0		0.0								
2021	09	21	85	64	73	0.00		0.0		0.0								
2021	09	22	86	66	67	1.60		0.0		0.0								
2021	09	23	86	54	54	0.33		0.0		0.0								
2021	09	24	75	52	52	0.00		0.0		0.0								
2021	09	25	76	52	54	0.00		0.0		0.0								
2021	09	26	76	52	53	0.00		0.0		0.0								
2021	09	27	82	52	61	0.00		0.0		0.0								
2021	09	28	85	60	64	0.00		0.0		0.0								
2021	09	29	76	56	56	0.00		0.0		0.0								
2021	09	30	78	54	54	0.00		0.0		0.0								
Summary			83	61		3.45		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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"s" This data value failed one of NCDC's quality control tests. "At Obs." = Temperature at time of observation

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	10	01	75	53	56	0.00		0.0		0.0								
2021	10	02	83	55	63	0.00		0.0		0.0								
2021	10	03	85	61	67	0.00		0.0		0.0								
2021	10	04	85	66	67	0.00		0.0		0.0								
2021	10	05	84	67	72	0.73		0.0		0.0								
2021	10	06	79	66	66	0.02		0.0		0.0								
2021	10	07	73	63	68	0.00		0.0		0.0								
2021	10	08	77	63	66	0.00		0.0		0.0								
2021	10	09	69	65	68	0.45		0.0		0.0								
2021	10	10	77	65	66	0.15		0.0		0.0								
2021	10	11	70	65	66	0.30		0.0		0.0								
2021	10	12	71	65	67	0.04		0.0		0.0								
2021	10	13	75	59	59	0.00		0.0		0.0								
2021	10	14	81	59	60	0.00		0.0		0.0								
2021	10	15	85	59	65	0.00		0.0		0.0								
2021	10	16	85	49	50	0.25		0.0		0.0								
2021	10	17	85	46	46	0.00		0.0		0.0								
2021	10	18	70	43	43	0.00		0.0		0.0								
2021	10	19	73	42	47	0.00		0.0		0.0								
2021	10	20	76	46	47	0.00		0.0		0.0								
2021	10	21	79	47	65	0.00		0.0		0.0								
2021	10	22	65	59	59	0.25		0.0		0.0								
2021	10	23	71	51	55	0.00		0.0		0.0								
2021	10	24	77	55	63	0.00		0.0		0.0								
2021	10	25	77	59	60	1.04		0.0		0.0								
2021	10	26	71	49	52	0.00		0.0		0.0								
2021	10	27	74	47	50	0.00		0.0		0.0								
2021	10	28	74	47	64	0.50		0.0		0.0								
2021	10	29	74	50	50	0.49		0.0		0.0								
2021	10	30	64	49	49	0.00		0.0		0.0								
2021	10	31	72	44	44	0.00		0.0		0.0								
Summary			76	55		4.22		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

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Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	11	01	67	43	45	0.00		0.0		0.0								
2021	11	02	54	42	42	0.07		0.0		0.0								
2021	11	03	54	40	46	0.00		0.0		0.0								
2021	11	04	51	32	33	0.00		0.0		0.0								
2021	11	05	55	32	33	0.00		0.0		0.0								
2021	11	06	55	33	47	0.00		0.0		0.0								
2021	11	07	56	35	36	0.00		0.0		0.0								
2021	11	08	70	35	36	0.00		0.0		0.0								
2021	11	09	75	36	45	0.00		0.0		0.0								
2021	11	10	75	41	42	0.00		0.0		0.0								
2021	11	11	72	41	63	0.16		0.0		0.0								
2021	11	12	71	38	40	0.01		0.0		0.0								
2021	11	13	65	29	29	0.00		0.0		0.0								
2021	11	14	55	29	44	0.00		0.0		0.0								
2021	11	15	54	36	38	0.00		0.0		0.0								
2021	11	16	61	35	40	0.00		0.0		0.0								
2021	11	17	74	40	53	0.00		0.0		0.0								
2021	11	18	77	40	41	0.10		0.0		0.0								
2021	11	19	52	26	28	0.00		0.0		0.0								
2021	11	20	53	26	36	0.00		0.0		0.0								
2021	11	21	60	35	54	0.03		0.0		0.0								
2021	11	22	54	30	31	0.16		0.0		0.0								
2021	11	23	47	21	22	0.00		0.0		0.0								
2021	11	24	51	22	32	0.00		0.0		0.0								
2021	11	25	63	32	46	0.17		0.0		0.0								
2021	11	26	55	28	28	0.00		0.0		0.0								
2021	11	27	49	25	40	0.00		0.0		0.0								
2021	11	28	63	35	40	0.00		0.0		0.0								
2021	11	29	50	26	32	0.00		0.0		0.0								
2021	11	30	58	29	29	0.00		0.0		0.0								
		Summary	60	33		0.70		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2021	12	01	61	29	46	0.00		0.0		0.0								
2021	12	02	69	43	44	0.00		0.0		0.0								
2021	12	03	66	36	36	0.00		0.0		0.0								
2021	12	04	58	36	38	0.00		0.0		0.0								
2021	12	05	59	38	48	0.00		0.0		0.0								
2021	12	06	71	40	40	0.00		0.0		0.0								
2021	12	07	48	33	39	0.00		0.0		0.0								
2021	12	08	46	24	25	0.00		0.0		0.0								
2021	12	09	45	24	38	0.02		0.0		0.0								
2021	12	10	59	38	55	0.00		0.0		0.0								
2021	12	11	72	46	46	0.22		0.0		0.0								
2021	12	12	53	25	26	0.00		0.0		0.0								
2021	12	13	58	25	28	0.00		0.0		0.0								
2021	12	14	59	25	29	0.00		0.0		0.0								
2021	12	15	62	29	37	0.00		0.0		0.0								
2021	12	16	71	36	58	0.00		0.0		0.0								
2021	12	17	75	54	55	0.00		0.0		0.0								
2021	12	18	66	53	63	0.25		0.0		0.0								
2021	12	19	64	30	30	0.30		0.0		0.0								
2021	12	20	41	25	32	0.00		0.0		0.0								
2021	12	21	41	31	39	0.33		0.0		0.0								
2021	12	22	56	24	24	0.00		0.0		0.0								
2021	12	23	46	23	38	0.00		0.0		0.0								
2021	12	24	64	38	54	0.00		0.0		0.0								
2021	12	25	72	48	48	0.00		0.0		0.0								
2021	12	26	72	39	39	0.00		0.0		0.0								
2021	12	27	52	38	48	0.00		0.0		0.0								
2021	12	28	64	47	64	0.00		0.0		0.0								
2021	12	29	72	53	53	0.41		0.0		0.0								
2021	12	30	55	53	53	0.00		0.0		0.0								
2021	12	31	62	53	59	0.00		0.0		0.0								
Summary			60	37		1.53		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	01	01	75	59	59	0.26		0.0		0.0								
2022	01	02	65	42	42	1.22		0.0		0.0								
2022	01	03	45	19	20	1.46		3.0		3.0								
2022	01	04	53	19	34	0.00		0.0		1.0								
2022	01	05	49	34	39	0.00		0.0		T								
2022	01	06	56	33	33	0.00		0.0		0.0								
2022	01	07	38	19	19	0.00		0.0		0.0								
2022	01	08	39	18	33	0.00		0.0		0.0								
2022	01	09	64	33	40	0.34		0.0		0.0								
2022	01	10	47	20	20	0.00		0.0		0.0								
2022	01	11	35	18	24	0.00		0.0		0.0								
2022	01	12	52	23	24	0.00		0.0		0.0								
2022	01	13	49	23	37	0.00		0.0		0.0								
2022	01	14	51	23	30	0.00		0.0		0.0								
2022	01	15	51	21	21	0.00		0.0		0.0								
2022	01	16	51	21	38	1.36		0.5		1.0								
2022	01	17	41	29	29	0.00		0.0		0.0								
2022	01	18	46	23	30	0.00		0.0		0.0								
2022	01	19	59	23	42	0.00		0.0		0.0								
2022	01	20	60	23	23	0.37		0.2		T								
2022	01	21	25	18	18	0.30		0.8		1.0								
2022	01	22	37	15	18	0.00		0.0		1.0								
2022	01	23	47	16	21	0.00		0.0		T								
2022	01	24	49	21	37	0.00		0.0		0.0								
2022	01	25	59	29	30	0.00		0.0		0.0								
2022	01	26	38	14	14	0.00		0.0		0.0								
2022	01	27	41	12	28	0.00		0.0		0.0								
2022	01	28	43	26	30	0.03		T		T								
2022	01	29	33	9	9	0.00		0.0		0.0								
2022	01	30	39	8	17	0.00		0.0		0.0								
2022	01	31	47	17	26	0.00		0.0		0.0								
Summary			48	23		5.34		4.5										

Empty, or blank, cells indicate that a data observation was not reported.

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	02	01	46	21	21	0.00		0.0		0.0								
2022	02	02	57	21	44	0.00		0.0		0.0								
2022	02	03	67	44	67	0.00		0.0		0.0								
2022	02	04	69	32	32	0.24		0.0		0.0								
2022	02	05	41	22	23	0.00		0.0		0.0								
2022	02	06	40	21	34	0.01		0.0		0.0								
2022	02	07	42	32	32	0.50		0.0		0.0								
2022	02	08	50	24	25	0.00		0.0		0.0								
2022	02	09	60	23	32	0.00		0.0		0.0								
2022	02	10	65	30	31	0.00		0.0		0.0								
2022	02	11	66	30	52	0.00		0.0		0.0								
2022	02	12	72	36	40	0.00		0.0		0.0								
2022	02	13	71	23	24	0.02		T		0.0								
2022	02	14	38	15	15	0.00		0.0		0.0								
2022	02	15	46	15	23	0.00		0.0		0.0								
2022	02	16	62	22	52	0.00		0.0		0.0								
2022	02	17	74	52	67	0.32		0.0		0.0								
2022	02	18	68	25	25	0.00		0.0		0.0								
2022	02	19	56	24	25	0.00		0.0		0.0								
2022	02	20	50	21	30	0.00		0.0		0.0								
2022	02	21	69	28	59	0.00		0.0		0.0								
2022	02	22	69	59	61	0.17		0.0		0.0								
2022	02	23	71	44	44	0.80		0.0		0.0								
2022	02	24	44	36	36	0.23		0.0		0.0								
2022	02	25	65	36	36	0.00		0.0		0.0								
2022	02	26	44	36	39	0.00		0.0		0.0								
2022	02	27	52	27	28	0.00		0.0		0.0								
2022	02	28	54	27	30	0.00		0.0		0.0								
		Summary	57	30		2.29		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

"s" This data value failed one of NCDC's quality control tests. "At Obs." = Temperature at time of observation

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
National Environmental Satellite, Data, and Information Service

Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

These data are quality controlled and may not be identical to the original observations.

Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	03	01	65	26	38	0.00		0.0		0.0								
2022	03	02	72	37	47	0.00		0.0		0.0								
2022	03	03	69	35	35	0.00		0.0		0.0								
2022	03	04	54	33	35	0.00		0.0		0.0								
2022	03	05	67	35	63	0.00		0.0		0.0								
2022	03	06	78	62	63	0.00		0.0		0.0								
2022	03	07	81	51	51	0.12		0.0		0.0								
2022	03	08	59	39	42	1.40		0.0		0.0								
2022	03	09	53	39	41	0.05		0.0		0.0								
2022	03	10	52	32	33	0.00		0.0		0.0								
2022	03	11	59	32	53	0.06		0.0		0.0								
2022	03	12	54	19	19	0.75		T		0.0								
2022	03	13	46	18	27	0.00		0.0		0.0								
2022	03	14	63	26	38	0.00		0.0		0.0								
2022	03	15	72	35	43	0.00		0.0		0.0								
2022	03	16	74	42	55	0.02		0.0		0.0								
2022	03	17	61	45	46	0.26		0.0		0.0								
2022	03	18	77	45	60	0.00		0.0		0.0								
2022	03	19	81	56	56	0.00		0.0		0.0								
2022	03	20	65	37	37	0.00		0.0		0.0								
2022	03	21	70	36	44	0.00		0.0		0.0								
2022	03	22	76	42	53	0.00		0.0		0.0								
2022	03	23	69	53	68	0.44		0.0		0.0								
2022	03	24	71	56	57	0.48		0.0		0.0								
2022	03	25	67	44	44	0.00		0.0		0.0								
2022	03	26	55	33	33	0.00		0.0		0.0								
2022	03	27	54	25	25	0.00		0.0		0.0								
2022	03	28	54	24	29	0.00		0.0		0.0								
2022	03	29	51	26	41	0.00		0.0		0.0								
2022	03	30	65	38	64	0.00		0.0		0.0								
2022	03	31	75	58	58	0.30		0.0		0.0								
Summary			65	38		3.88		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

*Ground Cover: 1=Grass; 2=Fallow; 3=Bare Ground; 4=Brome grass; 5=Sod; 6=Straw mulch; 7=Grass muck; 8=Bare muck; 0=Unknown

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Record of Climatological Observations

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Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	04	01	68	34	34	0.00		0.0		0.0								
2022	04	02	62	33	49	0.00		0.0		0.0								
2022	04	03	68	36	37	0.00		0.0		0.0								
2022	04	04	64	35	51	0.00		0.0		0.0								
2022	04	05	75	51	62	0.30		0.0		0.0								
2022	04	06	74	52	54	0.00		0.0		0.0								
2022	04	07	75	48	49	0.15		0.0		0.0								
2022	04	08	66	46	46	0.00		0.0		0.0								
2022	04	09	58	39	39	0.00		0.0		0.0								
2022	04	10	62	36	36	0.00		0.0		0.0								
2022	04	11	77	35	64	0.00		0.0		0.0								
2022	04	12	82	62	65	0.00		0.0		0.0								
2022	04	13	86	61	69	0.00		0.0		0.0								
2022	04	14	82	52	52	0.36		0.0		0.0								
2022	04	15	72	50	54	0.00		0.0		0.0								
2022	04	16	77	53	56	0.00		0.0		0.0								
2022	04	17	65	47	48	0.00		0.0		0.0								
2022	04	18	50	39	39	1.19		0.0		0.0								
2022	04	19	56	32	32	0.40		0.0		0.0								
2022	04	20	64	31	43	0.00		0.0		0.0								
2022	04	21	73	43	55	0.00		0.0		0.0								
2022	04	22	79	50	51	0.00		0.0		0.0								
2022	04	23	83	50	62	0.00		0.0		0.0								
2022	04	24	89	59	60	0.00		0.0		0.0								
2022	04	25	87	60	63	0.00		0.0		0.0								
2022	04	26	86	51	51	0.49		0.0		0.0								
2022	04	27	69	42	43	0.00		0.0		0.0								
2022	04	28	64	36	38	0.00		0.0		0.0								
2022	04	29	68	35	48	0.00		0.0		0.0								
2022	04	30	66	47	53	0.01		0.0		0.0								
		Summary	72	45		2.90		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Record of Climatological Observations

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Generated on 10/13/2022

National Centers for Environmental Information
151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	05	01	80	48	62	0.06		0.0		0.0								
2022	05	02	84	60	60	0.00		0.0		0.0								
2022	05	03	73	60	62	0.03		0.0		0.0								
2022	05	04	85	62	63	0.00		0.0		0.0								
2022	05	05	84	57	58	0.00		0.0		0.0								
2022	05	06	78	58	60	0.91		0.0		0.0								
2022	05	07	61	46	46	0.04		0.0		0.0								
2022	05	08	52	40	40	0.08		0.0		0.0								
2022	05	09	67	40	53	0.00		0.0		0.0								
2022	05	10	69	52	54	0.00		0.0		0.0								
2022	05	11	70	54	59	0.00		0.0		0.0								
2022	05	12	64	59	61	0.18		0.0		0.0								
2022	05	13	75	61	64	0.02		0.0		0.0								
2022	05	14	73	62	63	0.13		0.0		0.0								
2022	05	15	85	62	68	0.00		0.0		0.0								
2022	05	16	84	54	54	0.00		0.0		0.0								
2022	05	17	83	54	54	0.00		0.0		0.0								
2022	05	18	81	54	71	0.00		0.0		0.0								
2022	05	19	89	68	70	0.00		0.0		0.0								
2022	05	20	95	68	75	0.00		0.0		0.0								
2022	05	21	94	69	69	0.13		0.0		0.0								
2022	05	22	88	67	67	0.01		0.0		0.0								
2022	05	23	74	61	61	0.98		0.0		0.0								
2022	05	24	69	58	63	0.78		0.0		0.0								
2022	05	25	67	60	60	0.02		0.0		0.0								
2022	05	26	73	60	71	0.00		0.0		0.0								
2022	05	27	80	64	64	0.39		0.0		0.0								
2022	05	28	81	59	59	0.00		0.0		0.0								
2022	05	29	85	59	66	0.00		0.0		0.0								
2022	05	30	89	59	68	0.00		0.0		0.0								
2022	05	31	94	68	69	0.00		0.0		0.0								
Summary			78	58		3.76		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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151 Patton Avenue
Asheville, North Carolina 28801

Observation Time Temperature: 0700 Observation Time Precipitation: 0700

Year	Month	Day	Temperature (F)			Precipitation					Evaporation		Soil Temperature (F)					
			24 Hrs. Ending at Observation Time		At Obs.	24 Hour Amounts Ending at Observation Time				At Obs. Time	24 Hour Wind Movement (mi)	Amount of Evap. (in)	4 in. Depth			8 in. Depth		
			Max.	Min.		Rain, Melted Snow, Etc. (in)	Flag	Snow, Ice Pellets, Hail (in)	Flag	Snow, Ice Pellets, Hail, Ice on Ground (in)			Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2022	06	01	94	69	72	0.00		0.0		0.0								
2022	06	02	94	70	70	0.14		0.0		0.0								
2022	06	03	81	58	58	0.00		0.0		0.0								
2022	06	04	84	56	56	0.00		0.0		0.0								
2022	06	05	83	55	55	0.00		0.0		0.0								
2022	06	06	83	54	63	0.00		0.0		0.0								
2022	06	07	86	63	71	0.00		0.0		0.0								
2022	06	08	91	71	73	0.00		0.0		0.0								
2022	06	09	88	63	63	0.00		0.0		0.0								
2022	06	10	82	60	63	0.00		0.0		0.0								
2022	06	11	85	61	70	0.00		0.0		0.0								
2022	06	12	85	69	72	0.16		0.0		0.0								
2022	06	13	96	71	78	0.00		0.0		0.0								
2022	06	14	87	69	69	0.17		0.0		0.0								
2022	06	15	91	69	73	0.00		0.0		0.0								
2022	06	16	88	69	72	0.10		0.0		0.0								
2022	06	17	97	66	68	0.00		0.0		0.0								
2022	06	18	84	57	61	0.00		0.0		0.0								
2022	06	19	80	53	54	0.00		0.0		0.0								
2022	06	20	80	54	62	0.00		0.0		0.0								
2022	06	21	86	62	66	0.00		0.0		0.0								
2022	06	22	96	66	72	1.36		0.0		0.0								
2022	06	23	75	64	64	0.17		0.0		0.0								
2022	06	24	83	63	63	0.00		0.0		0.0								
2022	06	25	89	63	66	0.00		0.0		0.0								
2022	06	26	90	66	73	0.00		0.0		0.0								
2022	06	27	89	63	63	2.84		0.0		0.0								
2022	06	28	81	61	61	0.00		0.0		0.0								
2022	06	29	85	61	69	0.00		0.0		0.0								
2022	06	30	91	69	72	0.00		0.0		0.0								
Summary			87	63		4.94		0.0										

Empty, or blank, cells indicate that a data observation was not reported.

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Appendix F. MS4 Outfalls – Mapping and Reconnaissance Data

Petersburg MS4 Map
June 2019

Legend

- MS4 Regulated Service Area
- MS4 Outfall
- Not Impaired Water
- Imparied Water
- Public SWM Facility

N
W E
S

Appomattox River
Unsegmented rivers in J15
Rohoic Creek
Lieutenant Run
Unsegmented rivers in J13
Unsegmented Rivers in K31
Poor Creek
Harrison Creek
Blackwater Swamp
Second Swamp

0 2,500 5,000 10,000
Feet

Petersburg Outfall Database
June 2019

Outfall_ID	Latitude	Longitude	Regulated Drainage Area (Ac.)	Receiving Water	HUC 12 of Receiving Water	2016 Impairment	Landuse	EPA Approved TMDLS
1	37.2313004	-77.4162979	13.32	UT Appomattox River	020802071001	No	Developed	Chesapeake Bay; Appomattox River
2	37.2294998	-77.4169998	19.35	UT Appomattox River	020802071001	No	M-1	Chesapeake Bay; Appomattox River
3	37.2293015	-77.4212036	3.74	UT Appomattox River	020802071001	No	R-2	Chesapeake Bay; Appomattox River
4	37.2285004	-77.4224014	1.24	UT Appomattox River	020802071001	No	R-2	Chesapeake Bay; Appomattox River
5	37.2330017	-77.4132996	22.17	Appomattox River	020802071001	Yes	MXD2	Chesapeake Bay; Appomattox River
6	37.2324982	-77.4173965	0.08	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
7	37.2321014	-77.4171982	0.16	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
8	37.2321014	-77.417099	0.84	Unsegmented rivers in J15	020802071001	No	M-2	Chesapeake Bay; Appomattox River
9	37.2327995	-77.4162979	0.97	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
11	37.2332993	-77.4098969	23.97	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
12	37.2330017	-77.4108963	4.38	UT Appomattox River	020802071001	No	Developed	Chesapeake Bay; Appomattox River
13	37.2361984	-77.4039993	0.76	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
14	37.2380981	-77.4023972	1.59	Appomattox River	020802071001	Yes	R-2	Chesapeake Bay; Lower Appomattox River/Ashton Cre*
15	37.2346001	-77.4011002	24.95	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*
16	37.2346992	-77.4017029	33.46	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*
17	37.2356987	-77.4024963	0.29	Appomattox River	020802071001	Yes	M-2	Chesapeake Bay; Lower Appomattox River/Ashton Cre*
18	37.2345009	-77.3991013	5.93	Appomattox River	020802071001	Yes	Developed	Chesapeake Bay; Lower Appomattox River/Ashton Cre*
19	37.2350998	-77.3976974	1.82	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
20	37.2243996	-77.4259033	79.93	UT Appomattox River	020802071001	No	Developed	Chesapeake Bay; Appomattox River
21	37.2291985	-77.4240036	17.59	Appomattox River	020802071001	Yes	M-2	Chesapeake Bay; Appomattox River
22	37.2215004	-77.4335022	12.38	UT Appomattox River	020802071001	No	M-1	Chesapeake Bay; Appomattox River
23	37.2212982	-77.4345016	22.96	UT Appomattox River	020802071001	No	M-1	Chesapeake Bay; Appomattox River
24	37.2266998	-77.4299011	1.67	UT Appomattox River	020802071001	No	M-2	Chesapeake Bay; Appomattox River
25	37.2182999	-77.4455032	7.43	UT Rohoic Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
26	37.218399	-77.4455032	3.28	UT Rohoic Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
27	37.2174988	-77.4441986	92.51	Rohoic Creek	020802071001	Yes	M-1	Chesapeake Bay; Appomattox River
28	37.2174988	-77.444397	7.32	Rohoic Creek	020802071001	Yes	B-2	Chesapeake Bay; Appomattox River
29	37.2167015	-77.4433975	0.74	Rohoic Creek	020802071001	Yes	M-1	Chesapeake Bay; Appomattox River
30	37.2131004	-77.4406967	43.39	UT Rohoic Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
32	37.2029991	-77.4442978	1.97	Rohoic Creek	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
33	37.2005997	-77.4438019	16.26	Rohoic Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
34	37.1991997	-77.4427032	0.52	Rohoic Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
35	37.2000999	-77.4433975	1.45	UT Rohoic Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
36	37.2397995	-77.362999	11.63	Harrison Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
37	37.2386017	-77.3612976	7.17	Harrison Creek	020802071001	Yes	M-1	Chesapeake Bay; Appomattox River
38	37.2372017	-77.3612976	2.53	Harrison Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
39	37.2372017	-77.3612976	0.47	Harrison Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
40	37.2369003	-77.3616028	6.64	Harrison Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
41	37.2408981	-77.3658981	0.92	Harrison Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
42	37.2405014	-77.3679962	0.91	UT Harrison Creek	020802071001	No	B-2	Chesapeake Bay; Appomattox River
43	37.239399	-77.3722992	60.62	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
44	37.239399	-77.3722992	0.45	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
45	37.2355003	-77.3939972	24.51	UT Blackwater Swamp	030102020102	No	Developed	Chesapeake Bay; Appomattox River
46	37.2314987	-77.3874969	65.40	UT Poor Creek	020802071001	No	B-2	Chesapeake Bay; Appomattox River
47	37.2341995	-77.3873978	0.38	UT Poor Creek	020802071001	No	M-1	Chesapeake Bay; Appomattox River
48	37.235199	-77.3871994	5.35	Poor Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
49	37.2312012	-77.4057007	0.47	Unsegmented rivers in J15	020802071001	No	B-3	Chesapeake Bay; Appomattox River
50	37.2314987	-77.4057999	0.22	Unsegmented rivers in J15	020802071001	No	B-3	Chesapeake Bay; Appomattox River
51	37.2313995	-77.4060974	0.13	Unsegmented rivers in J15	020802071001	No	B-3	Chesapeake Bay; Appomattox River
52	37.2317009	-77.405899	0.86	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
53	37.2316017	-77.4061966	1.36	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
54	37.2317009	-77.4064026	0.82	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
55	37.2318001	-77.405899	0.24	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
56	37.2330017	-77.4063034	0.20	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
57	37.2328987	-77.4061966	3.28	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
58	37.2336998	-77.406601	1.83	UT Brickhouse Run	020802071001	No	M-2	Chesapeake Bay; Appomattox River

59	37.2308998	-77.4057007	0.31	Unsegmented rivers in J15	020802071001	No	B-3	Chesapeake Bay; Appomattox River
60	37.2308006	-77.4057007	41.14	Unsegmented rivers in J15	020802071001	No	B-3	Chesapeake Bay; Appomattox River
61	37.2307014	-77.4072037	3.99	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
62	37.2291985	-77.4095001	2.91	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
63	37.2280006	-77.4112015	3.03	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
64	37.2280006	-77.4113007	1.73	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
65	37.2280006	-77.4113007	0.30	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
66	37.2280006	-77.4113998	1.33	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
67	37.2279015	-77.4113998	0.25	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
68	37.2277985	-77.4115982	1.94	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
69	37.2277985	-77.4116974	1.95	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
70	37.2272987	-77.4122009	5.30	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
71	37.2266006	-77.4126968	1.83	Unsegmented rivers in J15	020802071001	No	R-3	Chesapeake Bay; Appomattox River
72	37.2270012	-77.4144974	12.11	UT Brickhouse Run	020802071001	No	M-1	Chesapeake Bay; Appomattox River
73	37.2261009	-77.4125977	4.59	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
74	37.2256012	-77.4123993	1.57	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
75	37.2256012	-77.4124985	0.45	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
76	37.2251015	-77.4121017	0.56	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
77	37.2248993	-77.4119034	1.21	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
78	37.2246017	-77.4116974	1.22	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
79	37.2246017	-77.4117966	8.90	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
80	37.2244987	-77.4117966	2.32	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
81	37.2243996	-77.4117966	4.59	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
82	37.2244987	-77.4116974	0.51	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
83	37.2233009	-77.4115982	1.97	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
84	37.2233009	-77.4116974	5.37	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
85	37.2232018	-77.4115982	1.87	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
86	37.2232018	-77.4115982	2.47	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
87	37.2224998	-77.4123001	6.03	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
88	37.2210999	-77.4140015	0.63	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
89	37.221199	-77.4138031	0.67	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
90	37.221199	-77.4138031	3.63	Unsegmented rivers in J15	020802071001	No	B-2	Chesapeake Bay; Appomattox River
91	37.2214012	-77.4135971	2.10	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
92	37.2201004	-77.4151993	2.74	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
94	37.2200012	-77.4152985	2.99	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
95	37.2201004	-77.4152985	12.67	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
97	37.219101	-77.4167023	2.66	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
98	37.2192001	-77.4166031	13.23	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
99	37.2192001	-77.4166031	1.45	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
100	37.218399	-77.4178009	0.12	Unsegmented rivers in J15	020802071001	No	R-3	Chesapeake Bay; Appomattox River
101	37.2182999	-77.4179993	0.29	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
102	37.2182999	-77.4179001	0.15	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
103	37.2182007	-77.4180984	4.38	Unsegmented rivers in J15	020802071001	No	R-5	Chesapeake Bay; Appomattox River
104	37.2178993	-77.418602	3.70	Unsegmented rivers in J15	020802071001	No	R-3	Chesapeake Bay; Appomattox River
105	37.2181015	-77.4201965	7.33	Unsegmented rivers in J15	020802071001	No	R-5	Chesapeake Bay; Appomattox River
106	37.2173996	-77.4243011	0.34	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
107	37.2173996	-77.4243011	0.26	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
108	37.2150993	-77.4207993	1.17	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
109	37.2150002	-77.4207001	9.58	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
110	37.2141991	-77.4199982	3.66	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
111	37.2122002	-77.4184036	17.65	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
112	37.2136993	-77.4154968	0.59	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
113	37.2136993	-77.4151993	0.07	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
114	37.2123985	-77.4160995	7.06	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
115	37.2102013	-77.4176025	1.24	UT Brickhouse Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
116	37.2172012	-77.425499	0.85	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
117	37.2168999	-77.4257965	1.43	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River

118	37.2168007	-77.4260025	0.64	Unsegmented rivers in J15	020802071001	No	M-1	Chesapeake Bay; Appomattox River
119	37.2167015	-77.4262009	0.39	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
120	37.2165985	-77.4263	5.19	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
121	37.2164993	-77.4263992	2.55	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
122	37.216301	-77.4264984	82.44	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
123	37.2118988	-77.4272995	2.72	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
124	37.2148018	-77.4288025	4.95	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
125	37.2150993	-77.4294968	0.93	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
126	37.2137985	-77.4297028	20.92	UT Brickhouse Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
127	37.2144012	-77.4309998	7.17	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
128	37.2142982	-77.4311981	6.05	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
129	37.2140007	-77.4317017	3.64	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
130	37.2140007	-77.4318008	5.81	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
131	37.2146988	-77.4324036	37.61	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
132	37.2144012	-77.4328003	2.45	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
133	37.2142982	-77.4328995	3.34	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
134	37.2137985	-77.4337006	1.90	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
135	37.2128983	-77.4346008	1.22	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
136	37.2128983	-77.4346008	10.47	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
137	37.2128983	-77.4346008	0.08	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
138	37.2126999	-77.4347	1.12	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
139	37.2127991	-77.4347	11.62	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
140	37.2097015	-77.4348984	7.42	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
141	37.2084999	-77.4339981	18.24	Unsegmented rivers in J15	020802071001	No	R-3	Chesapeake Bay; Appomattox River
142	37.2078018	-77.4343033	10.15	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
143	37.2067986	-77.4325027	1.86	UT Brickhouse Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
144	37.2069016	-77.4320984	107.07	UT Brickhouse Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
145	37.2060013	-77.4345016	7.69	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
146	37.2060013	-77.4346008	2.08	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
147	37.2033997	-77.4358978	1.45	UT Brickhouse Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
148	37.2033005	-77.4358978	1.30	UT Brickhouse Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
149	37.2033005	-77.4358978	4.19	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
150	37.2028008	-77.4180984	2.03	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
151	37.2028999	-77.4179993	0.64	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
152	37.2033005	-77.4168015	6.28	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
153	37.2336998	-77.3965988	22.94	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
154	37.233799	-77.3964996	4.59	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
155	37.233799	-77.396698	0.16	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
156	37.2338982	-77.3965988	0.35	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
157	37.2322998	-77.3962021	7.30	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
158	37.2303009	-77.3964996	3.36	Lieutenant Run	020802071001	Yes	B-2	Chesapeake Bay; Appomattox River
159	37.2276001	-77.3967972	2.47	Lieutenant Run	020802071001	Yes	B-2	Chesapeake Bay; Appomattox River
160	37.2276001	-77.3968964	16.16	Lieutenant Run	020802071001	Yes	B-2	Chesapeake Bay; Appomattox River
161	37.2274017	-77.3968964	0.72	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
162	37.2274017	-77.3968964	13.50	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
163	37.2274017	-77.3967972	1.11	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
164	37.2270012	-77.396698	3.53	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
165	37.2238998	-77.3983994	37.87	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
166	37.2238998	-77.3985977	1.00	UT Lieutenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
167	37.2238007	-77.3988037	0.30	UT Lieutenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
168	37.2238007	-77.3988037	0.21	UT Lieutenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
169	37.2234001	-77.3988037	1.20	UT Lieutenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
170	37.2224998	-77.3989029	0.69	UT Lieutenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
171	37.2223015	-77.3989029	0.27	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
172	37.2223015	-77.3989029	3.08	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
173	37.2221985	-77.3990021	0.46	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
174	37.2145004	-77.4077988	15.16	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River

175	37.2098999	-77.4057999	0.66	UT Lietenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
176	37.2098999	-77.4057007	4.22	UT Lietenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
177	37.2097015	-77.4067993	2.80	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
178	37.2095985	-77.4079971	0.51	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
179	37.2095985	-77.4079971	0.30	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
180	37.2100983	-77.408699	16.46	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
181	37.2050018	-77.4138031	3.99	Lieutenant Run	020802071001	Yes	R-2	Chesapeake Bay; Appomattox River
182	37.2042999	-77.4145966	3.66	Lieutenant Run	020802071001	Yes	R-2	Chesapeake Bay; Appomattox River
183	37.2038002	-77.4163971	12.44	Lieutenant Run	020802071001	Yes	R-2	Chesapeake Bay; Appomattox River
184	37.2053986	-77.4132004	4.40	Lieutenant Run	020802071001	Yes	R-2	Chesapeake Bay; Appomattox River
185	37.206501	-77.4115982	14.57	Lieutenant Run	020802071001	Yes	R-2	Chesapeake Bay; Appomattox River
186	37.2067986	-77.4111023	6.05	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
187	37.2067986	-77.4110031	3.39	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
188	37.2249985	-77.3951035	2.22	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
189	37.2243996	-77.3942032	12.02	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
190	37.2243996	-77.3943024	1.20	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
191	37.2242012	-77.3942032	1.20	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
192	37.223999	-77.393898	0.38	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
193	37.2242012	-77.3940964	6.31	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
194	37.2242012	-77.3942032	0.29	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
195	37.2178993	-77.392601	0.53	UT Lietenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
196	37.2178993	-77.392601	0.55	Lieutenant Run	020802071001	Yes	R-3	Chesapeake Bay; Appomattox River
197	37.2178001	-77.3923035	14.89	UT Lietenant Run	020802071001	No	R-3	Chesapeake Bay; Appomattox River
198	37.2178993	-77.3933029	0.85	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
199	37.2178993	-77.3934021	4.66	Lieutenant Run	020802071001	Yes	RB	Chesapeake Bay; Appomattox River
200	37.2169991	-77.3943024	2.20	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
201	37.2158012	-77.3965988	1.05	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
202	37.2156982	-77.3965988	2.84	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
203	37.2158012	-77.3965988	7.59	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
204	37.2158012	-77.3965988	12.28	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
205	37.2140999	-77.3976974	2.35	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
206	37.2196999	-77.3848038	8.34	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
207	37.2195015	-77.3864975	5.37	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
208	37.2205009	-77.3880997	0.44	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
209	37.2212982	-77.3869019	0.45	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
210	37.2228012	-77.388298	12.04	UT Lieutenant Run	020802071001	No	R-4	Chesapeake Bay; Appomattox River
211	37.2219009	-77.3841019	13.72	UT Lieutenant Run	020802071001	No	B-2	Chesapeake Bay; Appomattox River
212	37.2150002	-77.3927994	4.54	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
213	37.2132988	-77.3879013	1.63	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
214	37.2137985	-77.3864975	1.10	UT Lietenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
215	37.2162018	-77.3879013	5.40	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
216	37.2144012	-77.3909988	2.15	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
217	37.2118988	-77.3843994	6.94	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
218	37.2126007	-77.3862991	4.51	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
219	37.2132988	-77.389801	5.47	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
220	37.2117004	-77.3900986	4.26	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
221	37.2100983	-77.3899994	4.92	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
222	37.214901	-77.3940964	4.58	UT Lietenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
223	37.2122993	-77.3929977	7.76	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
224	37.2132988	-77.3961029	11.28	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
225	37.2075996	-77.4024963	5.80	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
226	37.2066994	-77.4014969	2.24	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
227	37.2066994	-77.4013977	5.87	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
228	37.2050018	-77.4007034	4.37	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
229	37.2038002	-77.3996964	4.06	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
230	37.203701	-77.3995972	0.22	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
231	37.203701	-77.3995972	2.71	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River

232	37.2066994	-77.4008026	3.33	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
233	37.206501	-77.4005966	8.49	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
234	37.2098999	-77.4009018	1.31	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
235	37.2100983	-77.4008026	10.15	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
236	37.2109985	-77.3999023	0.61	Lieutenant Run	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
237	37.2112007	-77.3988037	0.69	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
238	37.2095985	-77.3967972	8.83	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
239	37.2095985	-77.3948975	8.33	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
240	37.2094002	-77.3947983	17.38	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
241	37.209301	-77.3964996	4.13	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
242	37.2069016	-77.3958969	7.81	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
243	37.2062988	-77.3930969	1.92	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
244	37.2070007	-77.3936996	7.44	UT Lietenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
245	37.2113991	-77.3989029	2.06	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
246	37.2112999	-77.3988037	2.39	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
247	37.2089996	-77.4030991	3.04	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
248	37.2089996	-77.4030991	3.88	Lieutenant Run	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
249	37.2030983	-77.4060974	1.71	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
250	37.2027016	-77.4052963	5.80	Unsegmented rivers in J15	020802071001	No	R-4	Chesapeake Bay; Appomattox River
251	37.2022018	-77.4055023	0.22	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
252	37.2052994	-77.4045029	8.52	UT Lieutenant Run	020802071001	No	R-4	Chesapeake Bay; Appomattox River
253	37.2053986	-77.4045029	1.96	UT Lietenant Run	020802071001	No	R-4	Chesapeake Bay; Appomattox River
254	37.1945	-77.407402	12.08	UT Lieutenant Run	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
255	37.1945	-77.4073029	19.90	UT Lieutenant Run	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
256	37.1904984	-77.408699	1.88	Unsegmented rivers in J15	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
257	37.1903992	-77.408699	0.61	Unsegmented rivers in J15	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
258	37.1903992	-77.4084015	0.90	Unsegmented rivers in J15	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
259	37.1903992	-77.4084015	0.56	Unsegmented rivers in J15	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
260	37.1945	-77.3945999	4.58	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
261	37.1953011	-77.3945999	9.49	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
262	37.1954002	-77.3945007	2.23	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
263	37.1974983	-77.3939972	64.94	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
264	37.1973	-77.3945999	5.78	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
265	37.1972008	-77.3946991	2.16	UT Lietenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
266	37.1944008	-77.3984985	2.30	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
267	37.1940994	-77.3981018	4.04	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
268	37.1929016	-77.398201	8.40	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
269	37.1968994	-77.4007034	2.11	UT Lietenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
270	37.2014008	-77.3984985	3.33	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
271	37.2058983	-77.3923035	17.35	UT Lietenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
272	37.2058983	-77.3911972	52.99	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
273	37.2056007	-77.3916016	2.29	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
274	37.2336998	-77.3840027	1.75	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
275	37.2336998	-77.384201	0.75	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
276	37.2322998	-77.3833008	2.07	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
277	37.2322006	-77.3834991	0.33	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
278	37.2312012	-77.3840027	0.06	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
279	37.2310982	-77.3840027	0.10	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
280	37.2299995	-77.3852997	5.02	UT Poor Creek	020802071001	No	R-3	Chesapeake Bay; Appomattox River
281	37.2290993	-77.3844986	0.13	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
282	37.2293015	-77.3845978	3.68	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
283	37.2304993	-77.3833008	0.16	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
284	37.2318993	-77.3815994	5.68	UT Poor Creek	020802071001	No	M-1	Chesapeake Bay; Appomattox River
285	37.2327995	-77.3884964	7.51	UT Poor Creek	020802071001	No	M-1	Chesapeake Bay; Appomattox River
286	37.2358017	-77.3850021	0.80	Poor Creek	020802071001	Yes	Developed	Chesapeake Bay; Appomattox River
287	37.2358017	-77.3859024	0.71	Poor Creek	020802071001	Yes	M-2	Chesapeake Bay; Appomattox River
288	37.2363014	-77.3843002	18.46	Poor Creek	020802071001	Yes	NODATA	Chesapeake Bay; Appomattox River

289	37.2346001	-77.3777008	4.51	Poor Creek	020802071001	Yes	M-1	Chesapeake Bay; Appomattox River
290	37.2330017	-77.3764038	1.77	Poor Creek	020802071001	Yes	M-1	Chesapeake Bay; Appomattox River
291	37.2330017	-77.3758011	1.77	Poor Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
292	37.232399	-77.3757019	6.16	Poor Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
293	37.2113991	-77.3824005	8.25	Poor Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
294	37.2117996	-77.3806992	12.69	Poor Creek	020802071001	Yes	R-1	Chesapeake Bay; Appomattox River
295	37.2106018	-77.382103	2.19	Poor Creek	020802071001	Yes	R-4	Chesapeake Bay; Appomattox River
296	37.2061005	-77.3812027	9.28	UT Poor Creek	020802071001	No	R-1	Chesapeake Bay; Appomattox River
297	37.2061005	-77.3811035	7.01	UT Poor Creek	020802071001	No	R-1	Chesapeake Bay; Appomattox River
298	37.2074013	-77.3806	4.19	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
299	37.2074013	-77.3809967	1.75	UT Poor Creek	020802071001	No	R-1	Chesapeake Bay; Appomattox River
300	37.2058983	-77.3770981	0.22	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
301	37.2057991	-77.3769989	8.58	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
302	37.2057991	-77.3770981	2.02	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
303	37.2055016	-77.3774033	28.03	UT Poor Creek	020802071001	No	R-1	Chesapeake Bay; Appomattox River
304	37.2069016	-77.376503	2.03	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
305	37.2069016	-77.3766022	2.99	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
306	37.2075996	-77.376297	2.02	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
307	37.2075996	-77.3764038	6.17	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
308	37.2084007	-77.3768997	1.34	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
309	37.2084999	-77.3767014	0.82	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
310	37.209301	-77.376503	5.43	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
311	37.209301	-77.3768005	2.46	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
312	37.2099991	-77.3716965	5.27	UT Poor Creek	020802071001	No	R-1	Chesapeake Bay; Appomattox River
313	37.2102013	-77.3718033	4.03	UT Poor Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
314	37.2154999	-77.3622971	0.62	UT Harrison Creek	020802071001	No	M-1	Chesapeake Bay; Appomattox River
315	37.2153015	-77.3618011	2.10	UT Harrison Creek	020802071001	No	B-2	Chesapeake Bay; Appomattox River
316	37.2181015	-77.3619995	16.92	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
317	37.2187996	-77.3608017	10.97	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
318	37.221199	-77.3582993	8.19	Harrison Creek	020802071001	Yes	R-1A	Chesapeake Bay; Appomattox River
319	37.219101	-77.3524017	15.25	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
320	37.2074013	-77.3438034	0.51	UT Blackwater Swamp	030102020102	No	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp
321	37.2066002	-77.342598	2.04	UT Blackwater Swamp	030102020102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
322	37.200901	-77.3378983	3.70	UT Blackwater Swamp	030102020102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
323	37.2013016	-77.3395996	3.95	UT Blackwater Swamp	030102020102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
324	37.202301	-77.3405991	3.99	UT Blackwater Swamp	030102020102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
325	37.2022018	-77.3404999	5.34	UT Blackwater Swamp	030102020102	No	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
326	37.1901016	-77.3468018	1.98	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
327	37.1901016	-77.3468018	2.49	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
328	37.1846008	-77.3451004	12.13	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
329	37.1842995	-77.3460007	2.99	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
330	37.1837006	-77.3432007	28.40	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
331	37.1755981	-77.3547974	13.34	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
332	37.1749992	-77.3591995	5.58	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
333	37.1725006	-77.3625031	2.65	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
334	37.1725006	-77.3626022	5.17	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
335	37.1724014	-77.3626022	1.90	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
336	37.1724014	-77.3625031	2.41	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
337	37.1727982	-77.3626022	21.26	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
338	37.1783981	-77.3562012	2.04	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
339	37.1792984	-77.357399	1.08	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
340	37.1792984	-77.357399	3.18	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
341	37.1792984	-77.3688965	0.62	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
342	37.1800995	-77.3695984	0.97	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
343	37.1799011	-77.3697968	5.60	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
344	37.1809006	-77.3703003	7.25	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
345	37.1776009	-77.3712997	0.46	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp

346	37.1777	-77.3712997	0.41	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
347	37.1780014	-77.3712997	0.48	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
348	37.1786003	-77.3713989	0.89	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
349	37.1796989	-77.3713989	0.64	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
350	37.1777992	-77.3728027	0.32	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
351	37.1778984	-77.3728027	1.57	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
352	37.1837997	-77.3712006	3.12	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
353	37.1871986	-77.3693008	20.83	Blackwater Swamp	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
354	37.1873016	-77.3693008	1.34	Blackwater Swamp	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
355	37.1870995	-77.3694992	12.12	Blackwater Swamp	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
356	37.1871986	-77.3695984	3.26	Blackwater Swamp	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
357	37.1879005	-77.3606033	0.71	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
358	37.1878014	-77.3606033	0.94	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
359	37.1874008	-77.3602982	2.02	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
360	37.1874008	-77.3600998	3.21	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
361	37.1866989	-77.3600006	0.13	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
362	37.1866989	-77.3600006	0.15	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
363	37.1892014	-77.3618011	2.12	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
364	37.1893005	-77.3623962	8.07	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
365	37.1892014	-77.361702	1.11	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
366	37.2271004	-77.384697	28.47	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
367	37.2282982	-77.3812027	20.53	Unsegmented rivers in J15	020802071001	No	R-2	Chesapeake Bay; Appomattox River
368	37.1856003	-77.3776016	2.39	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp
369	37.1896019	-77.3824997	0.86	UT Blackwater Swamp	030102020102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
370	37.2010002	-77.3646011	9.30	Blackwater Swamp	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
371	37.1991005	-77.3656998	6.91	Blackwater Swamp	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
372	37.1991005	-77.3659973	1.28	Blackwater Swamp	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
373	37.1972008	-77.3684998	1.49	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
374	37.1976013	-77.3690033	3.02	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
375	37.1973	-77.3702011	4.76	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
376	37.1973	-77.3718033	8.11	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
377	37.1973	-77.3722	6.91	Unsegmented Rivers in K31	030102020102	Yes	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
378	37.2011986	-77.367897	2.83	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
379	37.2011986	-77.3679962	16.84	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
380	37.2010994	-77.367897	0.60	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
381	37.2010994	-77.367897	3.46	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
382	37.1986008	-77.375	2.51	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
383	37.1986008	-77.3749008	0.43	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
384	37.1991005	-77.3759995	5.65	UT Blackwater Swamp	030102020102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
385	37.1999016	-77.3756027	0.64	UT Blackwater Swamp	030102020102	No	RB	Blackwater Swamp, Warwick Swamp, Second Swamp
386	37.2013016	-77.3742981	6.00	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
387	37.2013016	-77.3741989	11.93	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
388	37.2010994	-77.375	3.64	UT Blackwater Swamp	030102020102	No	RB	Blackwater Swamp, Warwick Swamp, Second Swamp
389	37.200901	-77.3755035	2.10	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
390	37.2008018	-77.3756027	5.16	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
391	37.1976013	-77.3766022	2.98	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
392	37.1976013	-77.3768997	9.50	Unsegmented Rivers in K31	030102020102	Yes	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
393	37.1974983	-77.3768997	2.38	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
394	37.1885986	-77.3863983	0.87	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
395	37.1885986	-77.3863983	14.18	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
396	37.1889992	-77.3863983	0.50	Unsegmented Rivers in K31	030102020102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
397	37.1889992	-77.3862	0.36	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
398	37.1890984	-77.3877029	16.37	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
399	37.1898994	-77.3851013	3.13	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
401	37.1911011	-77.3848038	20.74	UT Blackwater Swamp	030102020102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
402	37.1906013	-77.3836975	0.81	Unsegmented Rivers in K31	030102020102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
403	37.1906013	-77.3834991	0.97	Unsegmented Rivers in K31	030102020102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp

404	37.1904984	-77.3834991	1.43	Unsegmented Rivers in K31	030102020102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
405	37.1906013	-77.382103	0.66	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
406	37.1907005	-77.3820038	3.25	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
407	37.1907005	-77.3822021	1.84	Unsegmented Rivers in K31	030102020102	Yes	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
408	37.1917	-77.3807983	0.32	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
409	37.1917992	-77.3806	4.09	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
410	37.1917992	-77.3807983	4.57	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
411	37.1922989	-77.3806992	2.14	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
412	37.1931992	-77.3794022	9.25	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
413	37.1932983	-77.3795013	0.43	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
414	37.1934013	-77.3794022	6.41	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
415	37.1953011	-77.3779984	0.49	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
416	37.1940002	-77.3783035	1.35	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
417	37.1943016	-77.3781967	1.39	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
418	37.1949005	-77.3771973	0.61	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
419	37.1966019	-77.3778992	8.75	UT Blackwater Swamp	030102020102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
420	37.1959991	-77.3796005	1.27	UT Blackwater Swamp	030102020102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
421	37.1954994	-77.3805008	0.94	UT Blackwater Swamp	030102020102	No	R-1A	Blackwater Swamp, Warwick Swamp, Second Swamp
422	37.2010994	-77.3828964	27.92	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
423	37.2014008	-77.3865967	1.77	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
424	37.2015991	-77.3867035	2.72	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
425	37.2015991	-77.3869019	2.10	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
426	37.2015991	-77.3869019	0.90	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
427	37.2016983	-77.3869019	18.56	UT Blackwater Swamp	030102020102	No	R-1	Blackwater Swamp, Warwick Swamp, Second Swamp
428	37.1990013	-77.3830032	29.70	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
429	37.1983986	-77.3856964	22.42	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
430	37.1987	-77.3859024	5.54	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
431	37.1986008	-77.3861008	23.42	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
432	37.1992989	-77.3852005	1.76	Unsegmented Rivers in K31	030102020102	Yes	R-4	Blackwater Swamp, Warwick Swamp, Second Swamp
433	37.2069016	-77.3576965	18.17	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
434	37.2081985	-77.3436966	0.29	UT Blackwater Swamp	030102020102	No	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
435	37.1912994	-77.3528976	4.55	Unsegmented Rivers in K31	030102020102	Yes	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp
436	37.1916008	-77.3538971	1.99	Unsegmented Rivers in K31	030102020102	Yes	M-2	Blackwater Swamp, Warwick Swamp, Second Swamp
437	37.2126007	-77.3856964	1.61	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
438	37.2104988	-77.3872986	2.54	UT Lieutenant Run	020802071001	No	R-1	Chesapeake Bay; Appomattox River
439	37.2097015	-77.3871994	9.83	UT Lieutenant Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
440	37.1945992	-77.4016037	2.02	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
441	37.1960983	-77.3992996	2.94	Unsegmented rivers in J15	020802071001	No	R-1	Chesapeake Bay; Appomattox River
442	37.1977005	-77.3766022	4.05	Unsegmented Rivers in K31	030102020102	Yes	B-2	Blackwater Swamp, Warwick Swamp, Second Swamp
443	37.2100983	-77.3414001	2.56	Unsegmented Rivers in K31	030102020102	Yes	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
444	37.1901016	-77.3468018	7.36	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
450	37.2434998	-77.3707962	2.26	Harrison Creek	020802071001	Yes	M-2	Chesapeake Bay; Appomattox River
451	37.2434998	-77.370903	0.72	Harrison Creek	020802071001	Yes	M-2	Chesapeake Bay; Appomattox River
453	37.2196007	-77.3495026	0.31	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
454	37.2196007	-77.3495026	2.57	UT Harrison Creek	020802071001	No	Developed	Chesapeake Bay; Appomattox River
455	37.1808014	-77.3742981	12.17	UT Blackwater Swamp	030102020102	No	PUD	Blackwater Swamp, Warwick Swamp, Second Swamp
456	37.1898994	-77.3963013	3.81	Unsegmented rivers in J15	020802071001	No	NODATA	Chesapeake Bay; Appomattox River
457	37.1901016	-77.3961029	4.86	Unsegmented rivers in J15	020802071001	No	NODATA	Chesapeake Bay; Appomattox River
458	37.1908989	-77.3952026	5.16	Unsegmented rivers in J15	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
459	37.1925011	-77.393898	1.25	UT Lietenant Run	020802071001	No	R-1A	Chesapeake Bay; Appomattox River
460	37.1949005	-77.3890991	1.14	UT Blackwater Swamp	030102020102	No	Developed	Blackwater Swamp, Warwick Swamp, Second Swamp
461	37.1882019	-77.3970032	1.95	Unsegmented rivers in J15	020802071001	No	Developed	Chesapeake Bay; Appomattox River
462	37.2215004	-77.4001007	190.73	UT Lieutenant Run	020802071001	No	RB	Chesapeake Bay; Appomattox River
463	37.2141991	-77.3999023	3.99	UT Lieutenant Run	020802071001	No	R-2	Chesapeake Bay; Appomattox River
464	37.2154007	-77.4143982	0.54	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
465	37.2150002	-77.414299	4.51	UT Brickhouse Run	020802071001	No	Developed	Chesapeake Bay; Appomattox River
466	37.1882019	-77.3722	2.81	UT Blackwater Swamp	030102020102	No	NODATA	Blackwater Swamp, Warwick Swamp, Second Swamp

City of Petersburg
MS4 Outfall Screening Summary
2022

Count	Outfall ID	Date	Illicit Discharge Detected?
1	443	5/23/2022	Unlikely
2	36	6/1/2022	Unlikely
3	39	6/1/2022	Unlikely
4	40	6/1/2022	Unlikely
5	41	6/1/2022	Unlikely
6	42	6/1/2022	Unlikely
7	43	6/1/2022	Unlikely
8	44	6/1/2022	YES
9	48	6/1/2022	Unlikely
10	157	6/1/2022	Unlikely
11	290	6/1/2022	Unlikely
12	291	6/1/2022	Unlikely
13	292	6/1/2022	Unlikely
14	296	5/23/2022	Unlikely
15	300	5/23/2022	Unlikely
16	302	5/23/2022	Unlikely
17	305	5/23/2022	Unlikely
18	307	5/23/2022	Unlikely
19	314	5/23/2022	Unlikely
20	315	5/23/2022	Unlikely
21	316	5/23/2022	Unlikely
22	317	5/23/2022	Unlikely
23	318	5/23/2022	Unlikely
24	319	5/23/2022	Unlikely
25	320	5/23/2022	Unlikely
26	321	5/23/2022	Unlikely
27	322	5/23/2022	Unlikely
28	323	5/23/2022	Unlikely
29	324	5/23/2022	Unlikely
30	325	5/23/2022	Unlikely
31	331	5/23/2022	Unlikely
32	372	5/23/2022	Unlikely
33	373	5/23/2022	Unlikely
34	386	5/23/2022	Unlikely
35	387	5/23/2022	Unlikely
36	388	5/23/2022	Unlikely
37	389	5/23/2022	Unlikely
38	390	5/23/2022	YES
39	419	5/23/2022	Unlikely
40	422	5/23/2022	Unlikely
41	423	5/23/2022	Unlikely
42	424	5/23/2022	Unlikely
43	426	5/23/2022	Unlikely
44	427	5/23/2022	Unlikely
45	429	5/23/2022	Unlikely
46	430	5/23/2022	Unlikely
47	431	5/23/2022	Unlikely
48	432	5/23/2022	Unlikely
49	434	5/23/2022	Unlikely
50	442	5/23/2022	Unlikely

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 036	Date and Time: June 1, 2022 11:54 AM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Oil Sheen, Excessive Algae, Floatables	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 11:54 AM

Date

NOTES

Receiving channel has an oil sheen, algae growth and has accumulated trash.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 036	Date and Time: June 1, 2022 11:54 AM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.36302975474938, 37.23977789899778

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 039	Date and Time: June 1, 2022 11:42 AM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment and vegetation.	1
Poor Pool Quality	**YES**	Floatables, Other: Debris.	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 11:42 AM

Date

NOTES

Outfall channel has accumulated sediment and vegetation and is partially obstructed by debris in the fence. There is a drop-off into the receiving channel that has accumulated trash and debris.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 039	Date and Time: June 1, 2022 11:42 AM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.36135938275332, 37.237281620246456

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 040	Date and Time: June 1, 2022 11:46 AM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Floatables	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 11:46 AM

Date

NOTES

Receiving channel has accumulated trash and debris.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 040	Date and Time: June 1, 2022 11:46 AM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.36162576208, 37.2369687862149

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 041	Date and Time: June 1, 2022 12:01 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Floatables, Other: Debris.	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 12:01 PM

Date

NOTES

Receiving channel is overgrown and has some trash and debris.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

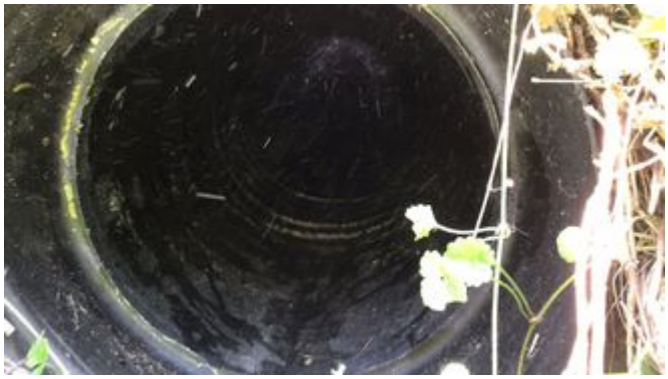
MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 041	Date and Time: June 1, 2022 12:01 PM	Inspector: Jessica Slagle &Hailey Fry

VICINITY MAP

-77.36589860803211, 37.24084566707742

PHOTOGRAPHS



City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 042	Date and Time: June 1, 2022 12:43 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Rancid/sour	1
Turbidity	**YES**	See Severity Index	1
Floatables	**YES**	Petroleum sheen	1
Deposits/Stains	**YES**	Flow Line	2
Poor Pool Quality	**YES**	Excessive Algae, Colors, Floatables	3
Pipe Benthic Growth	**YES**	Orange, Green	3

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 12:43 PM

Date

NOTES

Outfall pipe is backwatered due to receiving channel, both have excessive algae growth and stagnant water odor. Outfall pipe from upstream BMP.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 042	Date and Time: June 1, 2022 12:43 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.36800750267808, 37.24054745506872

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 043	Date and Time: June 1, 2022 12:57 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Sewage	3
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment.	3
Poor Pool Quality	**YES**	Odors (Sewage), Colors, Floatables	3
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 12:57 PM

Date

NOTES

Outfall pipe has accumulated sediment and a strong sewage odor. Receiving channel has accumulated trash, was cloudy and had a strong sewage odor.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 043	Date and Time: June 1, 2022 12:57 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.3722751576632, 37.23939696430496

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 044	Date and Time: June 1, 2022 12:53 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Rancid/sour, Sewage	3
Turbidity	**YES**	See Severity Index	2
Floatables	**YES**	Other: Trash.	1
Deposits/Stains	**YES**	Flow Line	2
Poor Pool Quality	**YES**	Odors (Sewage), Colors, Floatables	3
Pipe Benthic Growth	**YES**	Brown	2

DETERMINATION	
Was an illicit discharge detected?	**YES**

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

June 1, 2022 12:53 PM

_____ _____
Signature Date

NOTES

Outfall pipe has a strong sewage odor. Receiving channel has accumulated trash, was cloudy and had a strong sewage odor. Flow assumed to be from a sewer connection.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 044	Date and Time: June 1, 2022 12:53 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.37231345098766, 37.2394271458244

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 048	Date and Time: June 1, 2022 1:44 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Moderate
			Approx. Depth of Flow (in):	0.3

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment and algae.	2
Poor Pool Quality	**YES**	Excessive Algae, Floatables	3
Pipe Benthic Growth	**YES**	Orange	2

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 1:44 PM

Date

NOTES

Outfall pipe had accumulated sediment and algae. Flow was followed upstream, source could not be identified. Receiving channel had accumulated trash and algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 048	Date and Time: June 1, 2022 1:44 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.38715539585016, 37.23526086966896

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 157	Date and Time: June 1, 2022 2:50 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment.	3
Poor Pool Quality	**YES**	Excessive Algae, Floatables, OilSheen, Odors	3
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 2:50 PM

Date

NOTES

Outfall pipes has accumulated sediment. Receiving channel has algae growth and an extensive oil sheen. Natural gas odor near outfall pipe, Columbia gas line near-by.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 157	Date and Time: June 1, 2022 2:50 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.39614420062878, 37.232299861372695

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 290	Date and Time: June 1, 2022 1:31 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash.	1
Deposits/Stains	**YES**	Other: Sediment.	3
Poor Pool Quality	**YES**	Floatables, Odors	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 1:31 PM

Date

NOTES

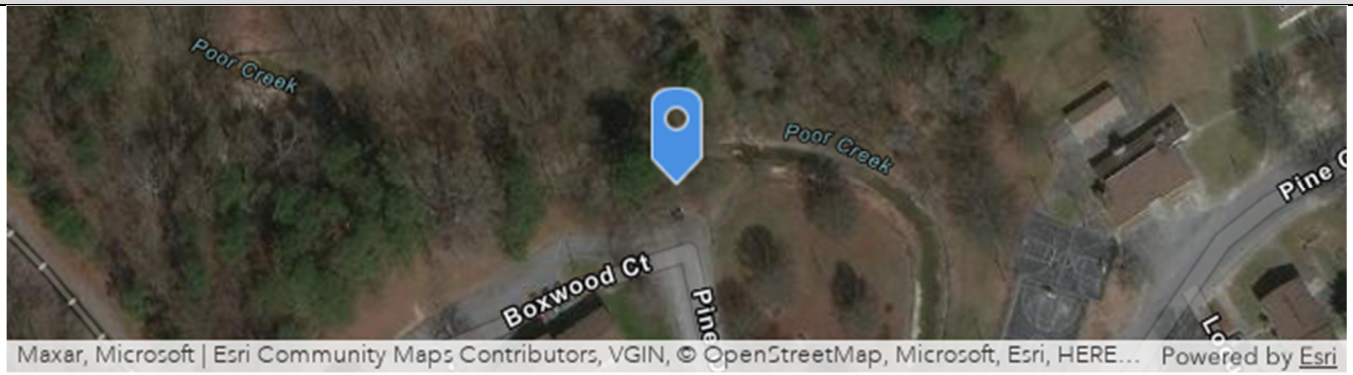
Outfall pipe and flume are disjointed due to tree roots. Pipe has accumulated sediment and trash, creating backwater in upstream structure. Receiving channel has accumulated trash and has a slight odor.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 290	Date and Time: June 1, 2022 1:31 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP



-77.37633726438334, 37.2329301926841

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 291	Date and Time: June 1, 2022 1:23 PM	Inspector: Jessica Slagle & Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.05

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Flow Line	2
Poor Pool Quality	**YES**	Excessive Algae	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 1:23 PM

Date

NOTES

Outfall pipe had a small amount of flow and algae growth. Flow was followed upstream but source could not be identified, may be from active construction site directly upstream. Receiving channel has algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

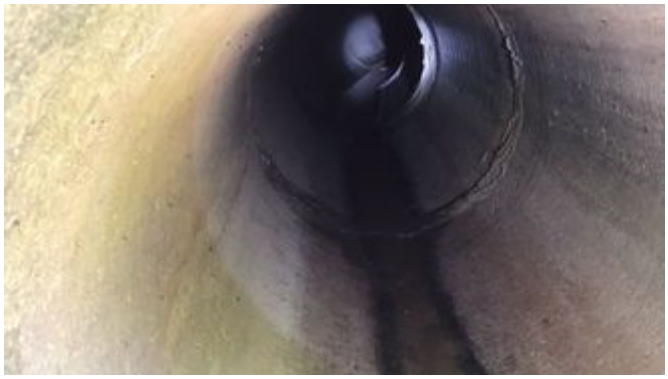
MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 291	Date and Time: June 1, 2022 1:23 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.37583633264718, 37.232952511724626

PHOTOGRAPHS



City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 292	Date and Time: June 1, 2022 1:18 PM	Inspector: Jessica Slagle and Hailey Fry

LAST RAINFALL		
Depth (in): 0.06	End Date: May 28, 2022	Approx. End Time: 4:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.2

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Flow Line	1
Poor Pool Quality	**YES**	Excessive Algae	3
Pipe Benthic Growth	**YES**	Brown, Orange	2

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

June 1, 2022 1:18 PM

Date

NOTES

Outfall pipe had flow and algae growth. Flow was followed upstream but source could not be identified, may be from active construction site directly upstream. Receiving concrete channel has significant algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 292	Date and Time: June 1, 2022 1:18 PM	Inspector: Jessica Slagle & Hailey Fry

VICINITY MAP

-77.37572100347714, 37.23246452239731

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 296	Date and Time: May 23, 2022 4:12 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.25

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Sewage, Rancid/sour	3
Turbidity	**YES**	See Severity Index	3
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Odors, Suds, Colors, Oil Sheen	3
Pipe Benthic Growth	**YES**	Orange	2

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 4:12 PM

Date

NOTES

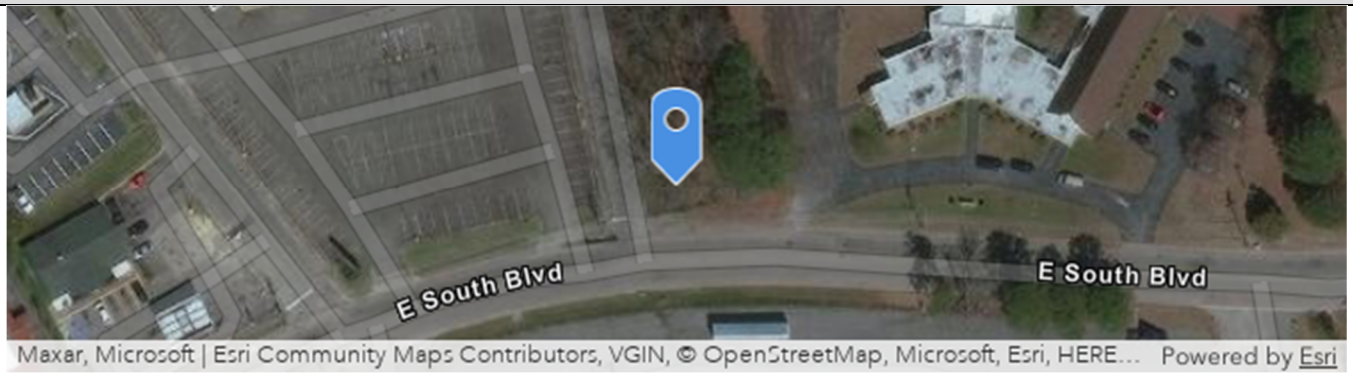
Outfall pipe had flow at time of inspection, storm structure upstream was opened and no flow was found. Receiving channel quality is extremely poor; odor, turbidity, colors, oils were all observed.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 296	Date and Time: May 23, 2022 4:12 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP



-77.38115412737642, 37.2061689922502

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 300	Date and Time: May 23, 2022 3:48 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Floatables	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 3:48 PM

Date

NOTES

If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 300	Date and Time: May 23, 2022 3:48 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37704969573635, 37.20590932028149

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 302	Date and Time: May 23, 2022 3:43 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Other: Moth balls.	2
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment and debris	3
Poor Pool Quality	**YES**	Floatables, Oil Sheen	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 3:43 PM

Date

NOTES

Outfall pipe is obstructed by accumulated sediment/debris, causing backwater.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 302	Date and Time: May 23, 2022 3:43 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.3771641263981, 37.2057909400135

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 305	Date and Time: May 23, 2022 3:55 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Debris	3
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 3:55 PM

Date

NOTES

Outfall pipe within storm structure, significant accumulation of debris is obstructing pipes and flow through structure.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 305	Date and Time: May 23, 2022 3:55 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37660772361669, 37.20690962644391

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 307	Date and Time: May 23, 2022 4:02 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Colors	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 4:02 PM

Date

NOTES

Receiving channel had color from an unknown source.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION

Outfall ID: 307	Date and Time: May 23, 2022 4:02 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.3762975035313, 37.20756756357737

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 314	Date and Time: May 23, 2022 11:03 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	3
Deposits/Stains	**YES**	Other: Debris	3
Poor Pool Quality	**YES**	Floatables	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 11:03 AM

Date

NOTES

Severe downcutting of receiving channel.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 314	Date and Time: May 23, 2022 11:03 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36235536982238, 37.21551409959868

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 315	Date and Time: May 23, 2022 11:15 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	**YES**	See Severity Index	2
Floatables	**YES**	Other: Trash	3
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 11:15 AM

Date

NOTES

Outfall pipe backwatered due to sediment/debris accumulation. Severe downcutting of receiving channel.

City of Petersburg Department of Public Works
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 315	Date and Time: May 23, 2022 11:15 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36182255564557, 37.21528848249958

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 316	Date and Time: May 23, 2022 11:33 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Minor trash	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

_____ Signature

May 23, 2022 11:33 AM
_____ Date

NOTES

Minor erosion within receiving channel.

City of Petersburg Department of Public Works
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 316	Date and Time: May 23, 2022 11:33 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36209947791758, 37.21811606028475

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 317	Date and Time: May 23, 2022 11:38 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 11:38 AM

Date

NOTES

Significant downcutting of receiving channel.

City of Petersburg Department of Public Works
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 317	Date and Time: May 23, 2022 11:38 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36084607568628, 37.21876529982671

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 318	Date and Time: May 23, 2022 11:48 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Odors, Colors	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 11:48 AM

Date

NOTES

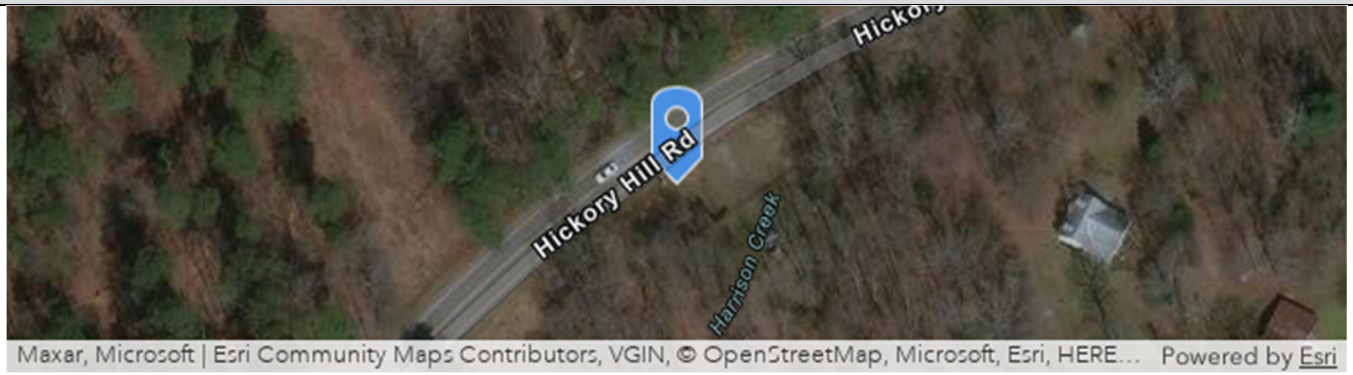
Outfall pipe is undercutting and receiving channel has stagnant water, causing some odor.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 318	Date and Time: May 23, 2022 11:48 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP



-77.35839957917295, 37.221281614823646

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 319	Date and Time: May 23, 2022 11:56 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	2
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 11:56 AM

Date

NOTES

Outfall channel has accumulated some debris and there is a drop into the receiving channel.

City of Petersburg Department of Public Works
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 319	Date and Time: May 23, 2022 11:56 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.35240856442552, 37.219228128270544

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 320	Date and Time: May 23, 2022 10:21 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	2
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 10:21 AM

Date

NOTES

Outfall pipe partially obstructed by sediment accumulation in receiving channel. Severe weep holes along pipe alignment.

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103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 320	Date and Time: May 23, 2022 10:21 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.34383998819497, 37.20743581413738

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 321	Date and Time: May 23, 2022 10:15 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	1
Deposits/Stains	**YES**	Other: Debris and sediment	3
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 10:15 AM

Date

NOTES

Outfall pipe obstructed by accumulated sediment/debris.

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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 321	Date and Time: May 23, 2022 10:15 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.34257432398216, 37.20655686271942

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 322	Date and Time: May 23, 2022 9:41 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	1
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 9:41 AM

Date

NOTES

Outfall pipe from upstream BMP.

City of Petersburg Department of Public Works
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Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 322	Date and Time: May 23, 2022 9:41 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.33792361435702, 37.20093345394672

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 323	Date and Time: May 23, 2022 9:49 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 9:49 AM

Date

NOTES

Outfall pipe from upstream BMP and is completely submerged from downstream wetland.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 323	Date and Time: May 23, 2022 9:49 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.3396752478636, 37.201333715122104

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 324	Date and Time: May 23, 2022 9:56 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment and trash	2
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 9:56 AM

Date

NOTES

Backwater in outfall pipe due to sediment/debris accumulation in receiving channel.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 324	Date and Time: May 23, 2022 9:56 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.34056721860227, 37.20234919998586

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 325	Date and Time: May 23, 2022 10:05 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	1
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 10:05 AM

Date

NOTES

Outfall pipe from upstream BMP, covered with landscape debris.

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103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 325	Date and Time: May 23, 2022 10:05 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.34050993828055, 37.20221879826173

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 331	Date and Time: May 23, 2022 8:59 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Rancid/sour	2
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Suds, Odors, Oil Sheen	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

May 23, 2022 8:59 AM

Signature _____ Date _____

NOTES

Outfall pipe is backwatered due to receiving channel condition. Standing water had faint odor, suds, and an oil sheen, assumed from the gas station upstream.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 331	Date and Time: May 23, 2022 8:59 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.35473888504131, 37.17561876363739

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 372	Date and Time: May 23, 2022 12:45 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	**YES**	See Severity Index	2
Floatables	**YES**	Other: Trash	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Suds, Oil Sheen	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 12:45 PM

Date

NOTES

Outfall pipe is submerged due to receiving channel conditions.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 372	Date and Time: May 23, 2022 12:45 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36600118115715, 37.19907908683583

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 373	Date and Time: May 23, 2022 12:52 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 12:52 PM

Date

NOTES

Outfall channel may not drain to receiving channel properly, due to accumulation of sediment and debris. Trash and small animal holes noted.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 373	Date and Time: May 23, 2022 12:52 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.36847132454545, 37.19724053266701

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
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MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 386	Date and Time: May 23, 2022 1:28 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Suds, Floatables, Odors	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:28 PM

Date

NOTES

Receiving channel has standing water with suds and sewage odors.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION

Outfall ID: 386	Date and Time: May 23, 2022 1:28 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37431666508863, 37.20138244823288

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 387	Date and Time: May 23, 2022 1:31 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	3
Poor Pool Quality	**YES**	Other: Sediment	3
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:31 PM

Date

NOTES

Outfall pipe and receiving channel have accumulated sediment.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 387	Date and Time: May 23, 2022 1:31 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37427980748743, 37.20139837075662

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 388	Date and Time: May 23, 2022 1:37 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Floatables	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:37 PM

Date

NOTES

Receiving channel has accumulation of sediment and trash.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 388	Date and Time: May 23, 2022 1:37 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37496733169931, 37.2011786466806

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 389	Date and Time: May 23, 2022 1:40 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	2
Poor Pool Quality	**YES**	Colors	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:40 PM

Date

NOTES

Outfall channel has accumulated sediment and is disjointed. Receiving channel has stagnant water with a faint turbidity.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 389	Date and Time: May 23, 2022 1:40 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37548835392673, 37.20094388721576

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 390	Date and Time: May 23, 2022 1:43 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.25

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Sewage	1
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Flow Line	2
Poor Pool Quality	**YES**	Colors	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	**YES**

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

May 23, 2022 1:43 PM

_____ _____
Signature Date

NOTES

Outfall pipe had flow at time of inspection, upstream inlets and drainage area were checked but a source could not be identified. Outfall pipe and upstream inlets had sewage odors.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 390	Date and Time: May 23, 2022 1:43 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37545368962726, 37.20088500198687

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 419	Date and Time: May 23, 2022 1:06 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	1
Deposits/Stains	**YES**	Other: Sediment and debris	3
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:06 PM

Date

NOTES

Outfall pipe and receiving channel have accumulated sediment/debris. Drains to wetland downstream.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 419	Date and Time: May 23, 2022 1:06 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37783422043901, 37.19662846593824

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 422	Date and Time: May 23, 2022 3:15 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	Yes	If yes:	Approx. Discharge Rate:	Trickle
			Approx. Depth of Flow (in):	0.1

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Corrosion	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Suds, Other: Trash	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 3:15 PM

Date

NOTES

Outfall pipe had flow at time of inspection, upstream inlet was checked to determine source of flow. Backwatered channel upstream, assumed there is an obstruction within pipe holding back flow and not draining properly.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION

Outfall ID: 422	Date and Time: May 23, 2022 3:15 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38291349626144, 37.20109737984308

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 423	Date and Time: May 23, 2022 2:58 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Oil Sheen	1
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:58 PM

Date

NOTES

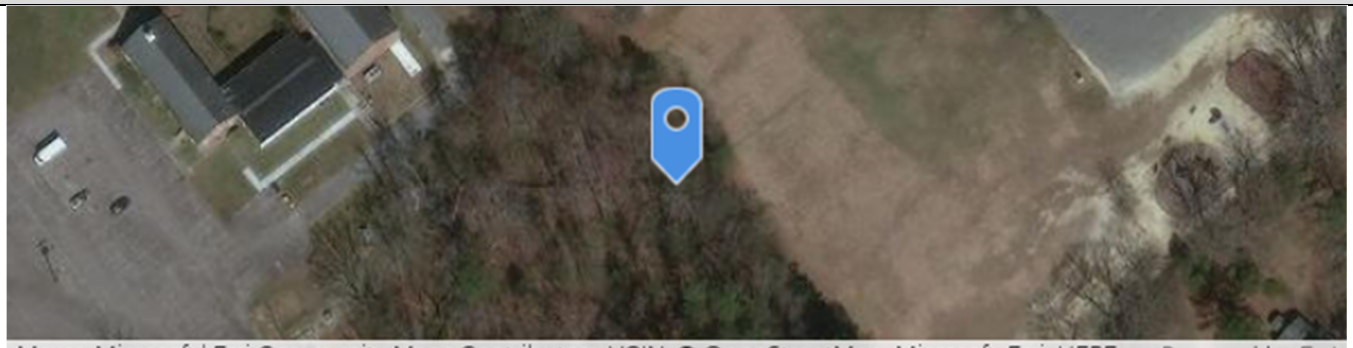
Receiving channel was damp and had an oil sheen.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 423	Date and Time: May 23, 2022 2:58 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP



-77.3865937841704, 37.20140321581353

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 424	Date and Time: May 23, 2022 3:01 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 3:01 PM

Date

NOTES

Outfall is partially covered with vegetation.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 424	Date and Time: May 23, 2022 3:01 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38678647380077, 37.201565317220314

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 426	Date and Time: May 23, 2022 2:50 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	2
Poor Pool Quality	**YES**	Floatables	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:50 PM

Date

NOTES

Outfall pipe and receiving channel have accumulated sediment/debris.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 426	Date and Time: May 23, 2022 2:50 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38686108619682, 37.20164995746089

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 427	Date and Time: May 23, 2022 2:52 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Floatables	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:52 PM

Date

NOTES

Receiving channel has accumulated sediment and trash.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 427	Date and Time: May 23, 2022 2:52 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38689160954803, 37.20166527794554

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 429	Date and Time: May 23, 2022 2:04 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Excessive Algae, Other: Sediment and vegetation	2
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:04 PM

Date

NOTES

Outfall pipe is backwatered, pond does not appear to be drawing down correctly. Resident noted consist high water in pond, flow towards the outfall pipes, and excessive algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 429	Date and Time: May 23, 2022 2:04 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38570736731769, 37.19846873622499

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 430	Date and Time: May 23, 2022 2:23 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Sediment	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Excessive Algae, Other: Sediment and vegetation	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:23 PM

Date

NOTES

Outfall pipe is backwatered, pond does not appear to be drawing down correctly. Resident noted consist high water in pond, flow towards the outfall pipes, and excessive algae growth. Outfall pipe is disjointed and uncovered.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 430	Date and Time: May 23, 2022 2:23 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38587371622917, 37.19876197407584

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 431	Date and Time: May 23, 2022 2:19 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	2
Deposits/Stains	No	NA	NA
Poor Pool Quality	**YES**	Excessive Algae, Other: Sediment and vegetation	3
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

May 23, 2022 2:19 PM

Signature

Date

NOTES

Outfall pipe is backwatered, pond does not appear to be drawing down correctly. Resident noted consist high water in pond, flowing towards the outfall pipes, and excessive algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 431	Date and Time: May 23, 2022 2:19 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38602720364709, 37.19861114530658

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 432	Date and Time: May 23, 2022 2:39 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	**YES**	Other: Sediment	2
Poor Pool Quality	**YES**	Excessive Algae, Other: Sediment and vegetation	2
Pipe Benthic Growth	**YES**	Green	2

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 2:39 PM

Date

NOTES

Outfall pipe is backwatered, pond does not appear to be drawing down correctly. Resident noted consist high water in pond, flowing towards the outfall pipes, and excessive algae growth.

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 432	Date and Time: May 23, 2022 2:39 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.38519070966763, 37.19947007614665

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 434	Date and Time: May 23, 2022 10:29 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	**YES**	Other: Trash	1
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 10:29 AM

Date

NOTES

Roadside ditch that enters receiving channel and flows under road.

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Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 434	Date and Time: May 23, 2022 10:29 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.3436572542005, 37.20820546833811

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 442	Date and Time: May 23, 2022 1:15 PM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	**YES**	Other: Algae	1
Turbidity	**YES**	See Severity Index	2
Floatables	No	NA	NA
Deposits/Stains	**YES**	Oily	1
Poor Pool Quality	**YES**	Colors, Excessive Algae	2
Pipe Benthic Growth	**YES**	Green	2

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

"I certify that the outfall inspection is complete and that no illicit discharge is evident at this time."

Signature

May 23, 2022 1:15 PM

Date

NOTES

Outfall pipes are backwatered due to receiving stream conditions. Excessive algae growth and water has white turbidity.

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MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 442	Date and Time: May 23, 2022 1:15 PM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.37663777425054, 37.19772042754472

PHOTOGRAPHS

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESCRIPTION		
Outfall ID: 443	Date and Time: May 23, 2022 10:37 AM	Inspector: Jessica Slagle & Marlene McGraw

LAST RAINFALL		
Depth (in): 0.01	End Date: May 22, 2022	Approx. End Time: 1:15am
Weather history can be found at: https://www.wunderground.com/weather/us/va/virginia-state-university		

FLOW				
Present?	No	If yes:	Approx. Discharge Rate:	NA
			Approx. Depth of Flow (in):	NA

POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

DETERMINATION	
Was an illicit discharge detected?	No

CERTIFICATION:

If no suspected illicit discharge is identified, certify the following:

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Signature

May 23, 2022 10:37 AM

Date

NOTES

City of Petersburg Department of Public Works
103 W. Tabb Street, Petersburg VA 23803
Phone: (804) 733-2355 Fax: (804) 733-2030

MS4 Stormwater Outfall Screening

DESRIPTION		
Outfall ID: 443	Date and Time: May 23, 2022 10:37 AM	Inspector: Jessica Slagle & Marlene McGraw

VICINITY MAP

-77.34151878688525, 37.21016542446254

PHOTOGRAPHS

Darryl Walker

From: Ronnell Johnson
Sent: Wednesday, August 3, 2022 2:33 PM
To: Darryl Walker
Subject: Re: Potential Illicit Discharges Identified
Attachments: image0.jpeg; image1.jpeg; image2.jpeg; Potential Illicit Discharges.zip

I did not see any illicit discharges going on at the Puddledock Rd location or notice any visible evidence that it had occurred recently.

Ronell Johnson
Assistant General Manager
City of Petersburg
Public Utilities
(804) 892-6132

On Aug 2, 2022, at 5:29 PM, Darryl Walker <dwalker@petersburg-va.org> wrote:

FYI…please see Sheila's email below and investigate these 4 outfalls. You may want to take the Engineer along; however, I'll leave that to you. Thanks!

From: Sheila Reeves <Sheila.Reeves@timmons.com>
Sent: Thursday, June 2, 2022 5:56 PM
To: Darryl Walker <dwalker@petersburg-va.org>
Cc: Jessica Slagle <Jessica.Slagle@timmons.com>
Subject: Potential Illicit Discharges Identified

Darryl,
Our inspection crews finished the dry weather screenings for the outfalls yesterday. They identified 4 outfalls with suspected illicit discharges. Several of these locations had strong indication of sewer present. I have attached pictures and maps for each of the outfalls that need additional investigation. Please let me know if you have any questions.

Thanks.

Sheila S. Reeves, PE, CFM
Senior Project Manager

TIMMONS GROUP | www.timmons.com
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
Office: 804.200.6517 | Mobile: 804.396.9677
Sheila.Reeves@timmons.com
Your Vision Achieved Through Ours

Darryl Walker

From: Ronnell Johnson
Sent: Wednesday, August 3, 2022 3:05 PM
To: Darryl Walker
Subject: Re: Potential Illicit Discharges Identified
Attachments: image0.jpeg; image1.jpeg; Potential Illicit Discharges.zip

Good afternoon Darrell I just did a field visit to South Boulevard after speaking with my sewer crewmembers there was a sewer backup there a couple weeks ago that could have possibly contributed to the illicit discharge at this time there's no active spill or clear evidence that there was one

Ronell Johnson
Assistant General Manager
City of Petersburg
Public Utilities
(804) 892-6132

On Aug 2, 2022, at 5:29 PM, Darryl Walker <dwalker@petersburg-va.org> wrote:

FYI…please see Sheila's email below and investigate these 4 outfalls. You may want to take the Engineer along; however, I'll leave that to you. Thanks!

From: Sheila Reeves <Sheila.Reeves@timmons.com>
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Cc: Jessica Slagle <Jessica.Slagle@timmons.com>
Subject: Potential Illicit Discharges Identified

Darryl,
Our inspection crews finished the dry weather screenings for the outfalls yesterday. They identified 4 outfalls with suspected illicit discharges. Several of these locations had strong indication of sewer present. I have attached pictures and maps for each of the outfalls that need additional investigation. Please let me know if you have any questions.

Thanks.

Sheila S. Reeves, PE, CFM
Senior Project Manager

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