City of Petersburg, Virginia

MS4 General Permit: VAR040013

2019 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 second and third years of the permit term, July 1, 2018 – June 30, 2019.

Background Information:

Permittee:	City of Petersburg, Virginia
Annual Report Permit year:	1
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.

Dorothy Farrell-Bernard 7/30/20

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 1)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 2)
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 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 (see Appendix A). 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 and Richard Bland College to sponsor citywide clean up events. 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 works on a NFWF Grant-funded "Walkable Watershed" project with the James River Association (JRA) to reach the students of Lakemont Elementary School –engaging that school's surrounding community. Even without visiting classes, by engaging the surrounding community we feel we have reached all the 5th grade students at that school (55 students, 17% of the target audience). While social media has yet to be fully 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 and JRA attempted to hold a SWM Facilities Workshop; however, there was basically no response to the invitations. Therefore, no private SWM Facility owners were reached (0% of the target audience), and therefore the City will have to devise a new strategy to reach this audience. The City's on-going financial crisis has hindered our efforts in addressing Permit Year 1 requirements. As the City continues to recover, every effort will be made to meet current and future requirements going forward.	To address the "Litter" high-priority issue of the plan, the City will 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 attempt to reach at least 10,000 followers, more than 50% of the target audience in the plan. To address the "Maintenance" high-priority issue of the plan, the City will attempt to reach at least 40 owners, more than 50% of the target audience.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 1)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 2)
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 in four cleanup events: City Ambassador Cleanup in July 2018, JRAC/VSU Cleanup in September 2018, and two City-wide Cleanups in November 2018 and May 2019. The City continues to coordinate and participate in the household drop-off recycling program, 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.	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.
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.

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	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 1 pending the development of these necessary tools. In Permit Year 1, 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 not operational during the reporting period and has not yet been repaired due to the City's finances.	The City's on-going financial crisis has hindered our efforts in addressing Permit Year 1 requirements. As the City continues to recover, 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.
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 1, 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 1, there were 318 construction site stormwater inspections, with no enforcement actions in the reporting periods (significant increase primarily due to the City hiring and retaining a full-time permanent SWM/E&S Inspector). Please refer to Appendix C for a list of projects and associated acreage disturbed for which land disturbance permits were issued during Permit Year 1.	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.

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	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 should 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.
	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.

Minimum Control Measure	BMP	Program Description	Applicable Measurable Goals	Progress toward Achieving Measurable Goals (Permit Year 1)	Assessment of Appropriateness, Changes, and/or Steps to Address Any Deficiencies	Summary of Activities Planned for Next Reporting Cycle (Permit Year 2)
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 has 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.	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 24-month 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 was addressed per the following responses in **bold**:

General Annual Reporting Requirements

Part I.D.2.c — *Provide a signed certification per Part II.K of the permit* ***FINAL Updated 2019 Annual Report has been signed appropriately.***

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).***

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).***

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 reporting period – documentation has 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 now includes Appendix B.)***

Part I.E.3.e (3) (a) *The source of the illicit discharge.* ***The INTERIM Updated 2019 Annual Report***

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 now includes 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 now includes Appendix B.***

Part I.E.3.e (3) (d) *How the investigation was resolved.* ***The INTERIM Updated 2019 Annual Report now includes Appendix B.***

Part I.E.3.e (3) (e) *A description of any follow-up activities.* ***The INTERIM Updated 2019 Annual Report now includes Appendix B.***

Part I.E.3.e (3) (f) *The date the investigation was closed.* ***The INTERIM Updated 2019 Annual Report now includes 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 privately owned SMF inspections conducted.***

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 this reporting year.***

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 this reporting period.***

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.* ***No new SWPPPs were developed during this reporting year.***

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.* ***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.* ***External consultant performed training during four (4) of the six (6) SWPPP inspections conducted. See the following table for a list of required training event information.***

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

Facility	*Date*	*Employee #(s)/Name(s)*	*Objective/Topic*
Dogwood Trace Golf Course	***6/27/2019***	***1) Mike Beales*** ***2) Nate Subasic***	***Stormwater pollution prevention and best practices, vehicle fueling and fuel storage, vehicle/equipment maintenance/washing, fertilizer/herbicide/pesticide storage, handling, and application, metal recycling, equipment storage***
Public Utilities Yard	***6/27/2019***	***1) Ronnell Johnson***	***Stormwater pollution prevention and best practices, off-site fueling, vehicle/equipment washing, off-site maintenance, loading/unloading equipment and materials, hydraulic oil/paint/antifreeze storage,***
Street Operations Facility	***6/27/2019***	***1) Richard Harris III***	***Stormwater pollution prevention and best practices, Emergency Ops Plan, recent FEMA training, spill kits, shut-off valves, vehicle/equipment washing, vehicle maintenance, degreaser management, waste handling/disposal***
Petersburg Area Transit Maintenance Facility	***6/29/2019***	***1) Vincent Seaberry***	***Stormwater pollution prevention and best practices, oil/water separator operation, used oil best practices, staff training procedures, battery storage and disposal, MSDS procedures,***

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 the reporting period other than those reported to the DEQ 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 the reporting period.***

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.* ***No immediate plans for BMPs proposed for the next reporting period. An external consultant has been secured to develop an overall strategy for meeting 2025 TMDL requirements.***

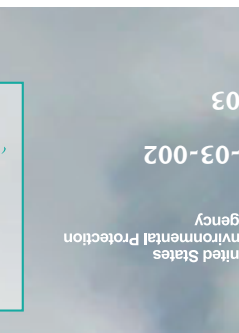
Local TMDL Information

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 four 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

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.

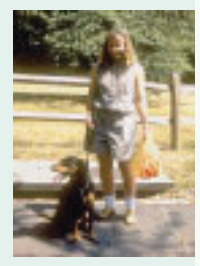
- Don't overwater your lawn. Consider using a soaker hose instead of a sprinkler.
- Use pesticides and fertilizers sparingly. When use is necessary, use these chemicals in the recommended amounts. Use organic mulch or safer pest control methods whenever possible.
- Compost or mulch yard waste. Don't 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.

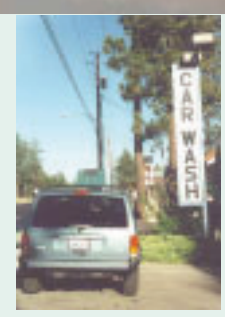
Pet waste



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.

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.

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.

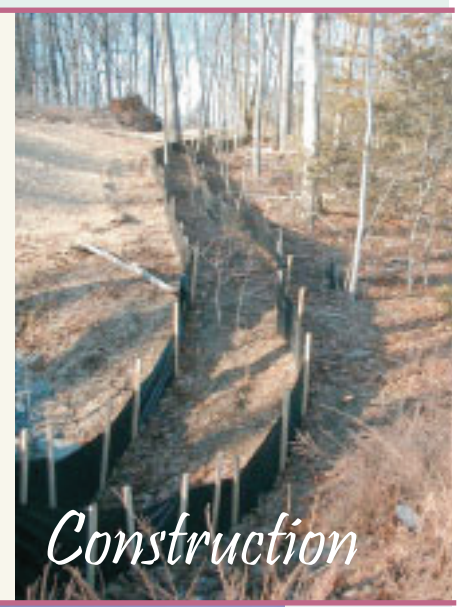
Commercial

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.

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.

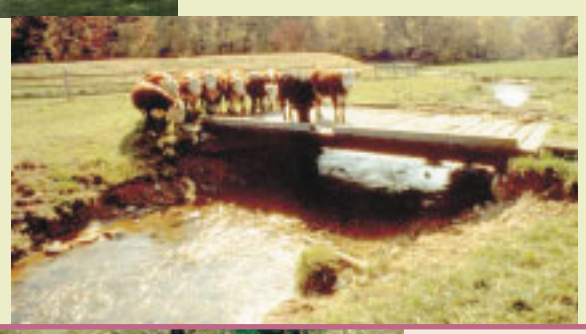
- Divert stormwater away from disturbed or exposed areas of the construction site.
- Install silt fences, vehicle mud removal areas, vegetative cover, and other sediment and erosion controls and properly maintain them, especially after rainstorms.
- Prevent soil erosion by minimizing disturbed areas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



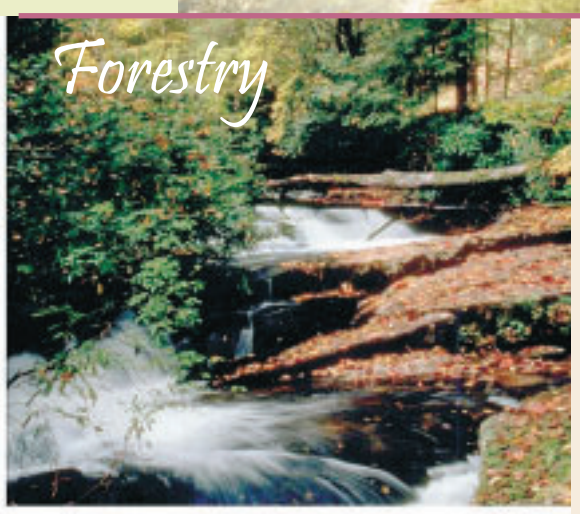
Construction

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.



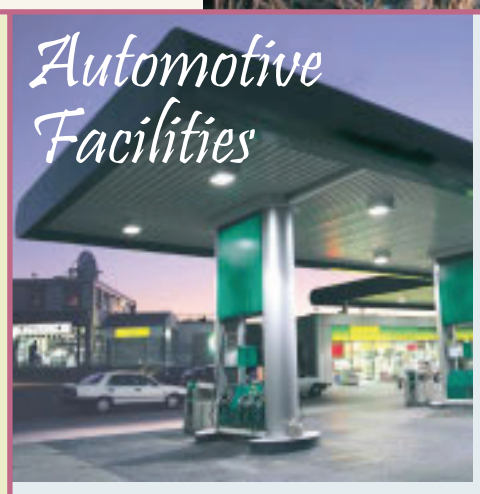
- Keep livestock away from streambanks and provide them a water source away from waterbodies.
- Store and apply manure away from waterbodies and in accordance with a nutrient management plan.
- Vegetate riparian areas along waterways.
- Rotate animal grazing to prevent soil erosion in fields.
- Apply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

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.

Storm drains connect to waterbodies!

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

United States Environmental Protection Agency

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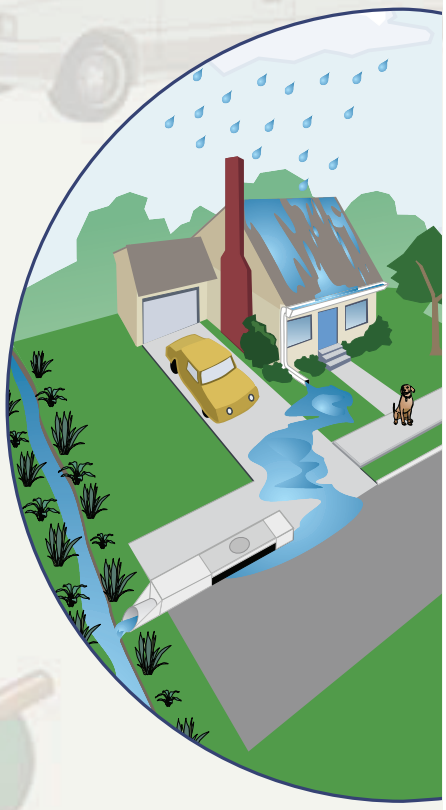
Make your home

The

SOLUTION TO STORMWATER POLLUTION!

A homeowner's guide to healthy habits for clean water



United States Environmental Protection Agency

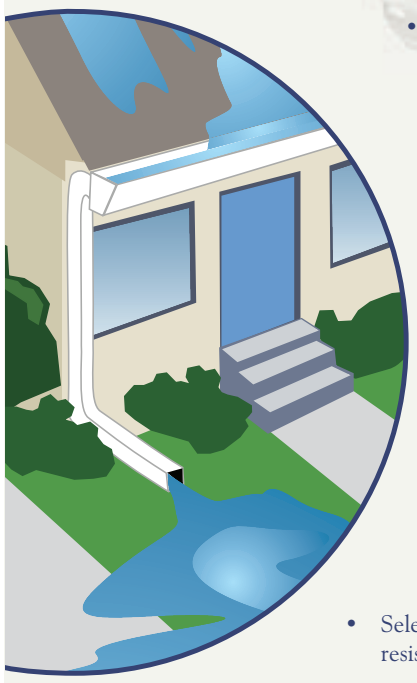
As stormwater flows over driveways, lawns, and sidewalks, it picks up debris, chemicals, dirt, and other pollutants. Stormwater can flow into a storm sewer system or directly to a lake, stream, river, wetland, or coastal water. Anything that enters a storm sewer system is discharged untreated into the 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.

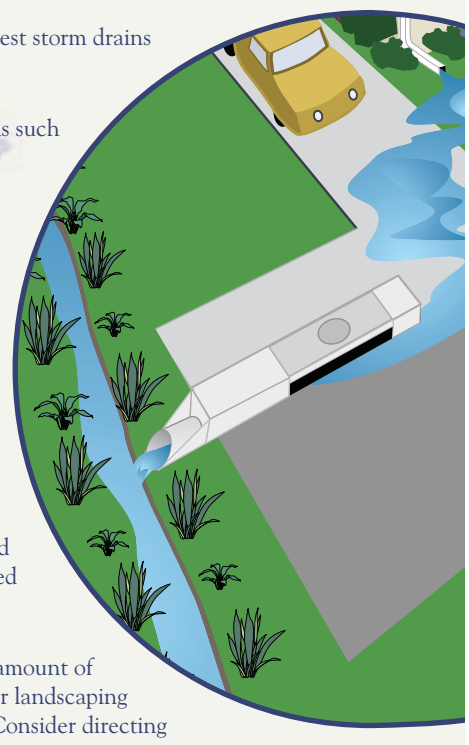
- **Sweep up** and properly dispose of construction debris such as concrete and mortar.

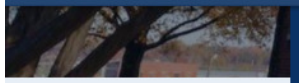
- Use hazardous substances like paints, solvents, and cleaners in the **smallest amounts possible**, and follow the directions on the label. Clean up spills **immediately**, and dispose of the waste safely. Store substances properly to avoid leaks and spills.

- 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.





ESMS- ISO 14001 Standard

Blandford Cemetery

Engineering

Facility Management

Stormwater Management

Street Operations

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

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:	11-1-18 **Time:**	**Reported by:**	
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:	C. Mason	**Telephone No.:**	7332407
Date of Incident	11-1-18	**Time of Incident:**	8:15 a.m.

Length of Time Discharge Continued: 5 minutes

Volume of Discharge (gal): 65-66 gal.

Description of Nature and Location of Discharge

3108 Homested - Dogwood Trace Golf Course
. Found Leak @ the bell end of the pipe a piece missing - Repaired the section that was damaged

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:		**Reported To:**	804 527-5127 Patrick Bishop
Date Reported:	2-19-19 **Time:** 8:A.M.	**Reported by:**	LARRY Brown
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:	James Lyons	**Telephone No.:**	804-733-2407
Date of Incident	2-18-2019	**Time of Incident:**	7:30 A.M.

Length of Time Discharge Continued: about 3 hrs.

Volume of Discharge (gal): about 900 gals Plus

Description of Nature and Location of Discharge WE, Had Pump Failure AT The main Pump Station On Pocahontas ST., That caused The maholes AT River ST. and Third ST., FIFTH and River ST. To OVER FLOW INTO The STORM Drain. The Problem has been corrected on The same day OF The Incident.

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)527-5106

Incident Response No:		**Reported To:**	804 527-5127 Patrick Bishop
Date Reported:	3-18-19 **Time:** 9:15 a.m	**Reported by:**	C. Mason
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:		**Telephone No.:**	
Date of Incident	3-18-19	**Time of Incident:**	9:15 a.m,

Length of Time Discharge Continued: 9-10 mins

Volume of Discharge (gal): 35-38

Description of Nature and Location of Discharge

manHole was backed up and discharge was coming out of the holes of the top.

Pecan St: Pecan Acres

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:		Reported To:	804 527-5127 Patrick Bishop
Date Reported:	6-2-19 Time: 3:25 p.m.	Reported by:	C. Mason
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:	923 Clarke St.	Telephone No.:	
Date of Incident	6-2-19	Time of Incident:	3:25 p.m.

Length of Time Discharge Continued: 18-20 mins

Volume of Discharge (gal): 50-60 gal

Description of Nature and Location of Discharge

Sewer discharge in the backyard after spill-over from the manhole

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

Appendix C. Record of Land Disturbance Projects

Petersburg Development Projects – FY2019

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

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

3. Dunkin Donuts, 153 Wagner Road, Tax Parcel 082-01-0001 (Part of), 1.07 acres, Commercial

4. Petersburg Parole Office – Permanent Site, 157 Wagner Road, Tax Parcel 082-01-0001 (Part of), 1.44 acres, Commercial

5. South Central Wastewater Authority – Warehouse Facility, 900 Magazine Road, Tax Parcel 006-01-0800, 0.42 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 2018-2019 Fiscal Year (July 1, 2018 through June 30, 2019).

Street Cleaning (Machine Sweeping)	$6,880.47
Clean & Reshape Ditches by Hand	$17,280.75
Clean (Major Otufall) Ditches	$7,625.08
Clean & Reshape Ditches by Machine (Grader)	$12,998.55
New Ditch/Drainage	$119,580.04
Ditch/Drainage Repair	$3,392.15
Erosion/Washout Repair	$1,433.33
Other Drainage Maintenance	$155,334.26
Total	$325,225.17

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 07-01-2018 to 06-30-2019:	57.30 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	21,176,892	9.01E+09	1.39E+09
Rohoic Creek	56,008,665	1,286	106,976,550	4.55E+10	6.17E+09
Brickhouse Run	61,756,897	1,418	117,955,673	5.02E+10	6.75E+09
Cross Street	2,889,637	66	5,519,207	2.35E+09	4.05E+08
Fleet Street East	948,610	22	1,811,845	7.71E+08	1.45E+08
Fleet Street West	2,664,290	61	5,088,794	2.17E+09	3.76E+08
Anchor Sheds	4,751,500	109	9,075,365	3.86E+09	6.39E+08
Battersea	5,357,484	123	10,232,794	4.36E+09	7.14E+08
West Street	3,539,115	81	6,759,710	2.88E+09	4.88E+08
Total	**149,003,576**	**3,421**	**284,596,830**	**1.21E+11**	**1.71E+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	78,671,330	3.35E+10	4.65E+09
River Street	3,190,033	73	6,092,963	2.59E+09	4.43E+08
Old Church Street	2,746,976	63	5,246,724	2.23E+09	3.86E+08
Pocahontas	2,428,607	56	4,638,639	1.97E+09	3.45E+08
Poor Creek (Poe Creek)	74,461,773	1,709	142,221,986	6.05E+10	8.02E+09
Lieutenant Run	154,739,404	3,552	295,552,262	1.26E+11	1.57E+10
Total	**278,755,971**	**6,399**	**532,423,905**	**2.27E+11**	**2.95E+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

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Generated on 07/20/2020

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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	07	01	95	73	75	0.00												
2018	07	02	95	75	76	0.00												
2018	07	03	95	71	71	0.00												
2018	07	04	92	71	74	0.00												
2018	07	05	94	74	76	0.00												
2018	07	06	92	72	72	0.42												
2018	07	07	79	60	60	0.00												
2018	07	08	81	57	58	0.00												
2018	07	09	85	57	61	0.00												
2018	07	10	93	61	72	0.00												
2018	07	11	94	72	73	0.05												
2018	07	12																
2018	07	13	86	61	61	0.00												
2018	07	14	89	60	67	0.00												
2018	07	15	92	67	74	0.00												
2018	07	16	94	74	74	0.00												
2018	07	17	94	71	71	0.46												
2018	07	18	86	63	64	0.00												
2018	07	19	87	63	69	0.00												
2018	07	20	87	69	69	0.03												
2018	07	21	73	65	67	2.50												
2018	07	22	85	67	71	0.75												
2018	07	23	83	70	73	0.45												
2018	07	24	79	72	73	0.16												
2018	07	25	85	68	68	1.01												
2018	07	26	89	68	75	0.00												
2018	07	27	91	70	71	0.39												
2018	07	28	88	69	70	2.01												
2018	07	29	85	69	72	0.35												
2018	07	30	78	72	72	0.74												
2018	07	31	85	69	72	0.12												
		Summary	88	68		9.44		0.0										

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"s" This data value failed one of NCDC's quality control tests.

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

U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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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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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	08	01	90	72	75	0.00												
2018	08	02	88	71	72	0.57												
2018	08	03	88	71	74	0.02												
2018	08	04	89	70	70	0.00												
2018	08	05	92	70	71	0.06												
2018	08	06	91	71	73	0.05												
2018	08	07	92	72	74	0.00												
2018	08	08	93	73	73	0.00												
2018	08	09	90	72	72	0.00												
2018	08	10	91	71	74	0.00												
2018	08	11	90	72	72	0.00												
2018	08	12	89	68	69	0.41												
2018	08	13	84	63	64	0.23												
2018	08	14	86	64	70	0.00												
2018	08	15	89	69	70	0.00												
2018	08	16	91	70	74	0.00												
2018	08	17	93	74	77	0.00												
2018	08	18	89	72	73	0.77												
2018	08	19	87	73	75	0.00												
2018	08	20	84	74	75	0.55												
2018	08	21	87	74	74	0.75												
2018	08	22	86	65	70	0.00												
2018	08	23	79	57	57	0.00												
2018	08	24	83	57	63	0.00												
2018	08	25	83	61	61	0.00												
2018	08	26	87	61	70	0.00												
2018	08	27	92	70	74	0.00												
2018	08	28	93	73	75	0.00												
2018	08	29	93	75	75	0.00												
2018	08	30	95	70	70	1.17												
2018	08	31	89	70	71	0.00												
		Summary	89	69		4.58		0.0										

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U.S. Department of Commerce
National Oceanic & Atmospheric Administration
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Record of Climatological Observations

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	09	01	92	70	74	0.27												
2018	09	02	90	71	72	0.00												
2018	09	03	94	72	73	0.00												
2018	09	04	93	72	72	0.00												
2018	09	05	92	72	72	0.00												
2018	09	06	93	72	73	0.00												
2018	09	07	73	73		0.30												
2018	09	08	83	70	71	0.05												
2018	09	09	74	68	70	0.03												
2018	09	10	88	70	72	0.00												
2018	09	11	89	71	73	0.07												
2018	09	12	87	73	74	0.03												
2018	09	13	82	74	77	0.12												
2018	09	14	80	74	78	1.88												
2018	09	15	80	73	75	0.15												
2018	09	16	83	75	75	0.09												
2018	09	17	85	75	77	0.40												
2018	09	18	83	66	66	0.62												
2018	09	19	87	66	68	0.00												
2018	09	20	85	66	67	0.00												
2018	09	21	83	66	68	0.00												
2018	09	22	68	64	66	0.13												
2018	09	23	67	64	65	0.00												
2018	09	24	73	65	72	0.15												
2018	09	25	88	72	73	0.00												
2018	09	26	89	72	72	0.11												
2018	09	27	72	63	63	0.02												
2018	09	28	77	57	57	0.01												
2018	09	29	79	57	59	0.00												
2018	09	30	78	59	59	0.00												
		Summary	83	69		4.43		0.0										

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

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	10	01	89	59	65	0.00												
2018	10	02	84	64	66	0.00												
2018	10	03	89	66	67	0.00												
2018	10	04	91	66	69	0.00												
2018	10	05	80	67	67	0.00												
2018	10	06	83	67	69	0.00												
2018	10	07	89	69	72	0.00												
2018	10	08	87	69	71	0.00												
2018	10	09	85	70	70	0.05												
2018	10	10	84	69	74	0.14												
2018	10	11	83	61	61	3.36												
2018	10	12	70	52	54	0.00												
2018	10	13	68	48	50	0.00												
2018	10	14	63	50	61	0.00												
2018	10	15	81	61	64	0.00												
2018	10	16	64	57	58	0.13												
2018	10	17	71	48	51	0.00												
2018	10	18	63	39	39	0.00												
2018	10	19	67	39	53	0.02												
2018	10	20	67	46	47	0.05												
2018	10	21	58	33	33	0.00												
2018	10	22	60	33	42	0.00												
2018	10	23	72	33	41	0.00												
2018	10	24	61	35	48	0.00												
2018	10	25	55	41	43	0.00												
2018	10	26	57	43	56	2.25												
2018	10	27	63	45	46	0.05												
2018	10	28	64	45	50	0.00												
2018	10	29	66	38	38	0.00												
2018	10	30	65	38	45	0.00												
2018	10	31	72	45	56	0.00												
Summary			73	51		6.05		0.0										

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Station: **PETERSBURG, VA US USC00446656**

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	11	01	74	55	70	0.01												
2018	11	02	72	55	55	0.11												
2018	11	03	63	37	37	0.00												
2018	11	04	64	37	58	0.97												
2018	11	05	62	55	60	0.03												
2018	11	06	74	47	48	0.19												
2018	11	07	73	47	56	0.00												
2018	11	08	62	49	50	0.02												
2018	11	09	53	44	45	0.73												
2018	11	10	53	29	31	0.00												
2018	11	11	50	31	35	0.00												
2018	11	12	58	35	47	1.36												
2018	11	13	51	43	43	0.06												
2018	11	14	46	37	38	0.10												
2018	11	15	48	37	39	0.80												
2018	11	16	54	30	31	0.00												
2018	11	17	55	31	32	0.00												
2018	11	18	57	32	36	0.00												
2018	11	19	59	36	50	0.00												
2018	11	20	64	29	30	0.00												
2018	11	21	56	30	31	0.00												
2018	11	22	43	28	29	0.00												
2018	11	23	38	29	38	0.00												
2018	11	24	49	35	35	1.22												
2018	11	25	63	34	47	0.00												
2018	11	26	60	34	35	0.01												
2018	11	27	50	25	28	0.00												
2018	11	28	43	24	25	0.00												
2018	11	29	47	25	42	0.01												
2018	11	30	50	42	43	0.08												
		Summary	56	37		5.70		0.0										

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Current Location: Elev: 19 ft. Lat: 37.2388° N Lon: -77.3925° W
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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2018	12	01	50	43	50	0.01												
2018	12	02	67	49	56	0.02												
2018	12	03	63	33	34	0.00												
2018	12	04	46	33	37	0.00												
2018	12	05	38	24	24	0.00												
2018	12	06	44	24	29	0.00												
2018	12	07	48	27	29	0.00												
2018	12	08	42	29	33	0.00												
2018	12	09	33	30	31	0.90		10.0		10.0								
2018	12	10	36	25	25	0.00												
2018	12	11	44	22	24	0.00												
2018	12	12	47	24	31	0.00												
2018	12	13	45	28	29	0.00												
2018	12	14	46	29	42	0.35												
2018	12	15	54	42	54	0.15												
2018	12	16	54	32	40	0.03												
2018	12	17	57	28	28	0.00												
2018	12	18	49	24	24	0.00												
2018	12	19	49	22	24	0.00												
2018	12	20	67	24	63	0.52												
2018	12	21	69	47	47	0.00												
2018	12	22	56	29	29	0.00												
2018	12	23	56	28	35	0.00												
2018	12	24	52	27	28	0.00												
2018	12	25	48	26	26	0.00												
2018	12	26	48	25	29	0.00												
2018	12	27	62	25	62	0.20												
2018	12	28	67	52	52	0.83												
2018	12	29	63	42	42	0.00												
2018	12	30	57	42	46	0.00												
2018	12	31	69	46	67	0.11												
Summary			52	32		3.12		10.0										

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	01	01	67	41	41	0.00												
2019	01	02	50	40	47	0.29												
2019	01	03	54	41	43	0.09												
2019	01	04	51	42	50	0.15												
2019	01	05	60	38	46	0.00												
2019	01	06	63	39	40	0.00												
2019	01	07	48	39	44	0.00												
2019	01	08	65	43	44	0.00												
2019	01	09	53	29	29	0.00												
2019	01	10	41	21	22	0.00												
2019	01	11	41	22	30	0.00												
2019	01	12	38	30	31	0.65												
2019	01	13	35	29	29	0.63												
2019	01	14	38	29	33	0.00												
2019	01	15	42	27	28	0.00												
2019	01	16	49	28	37	0.00												
2019	01	17	44	33	39	0.00												
2019	01	18	55	38	41	0.00												
2019	01	19	58	41	57	0.60												
2019	01	20	59	19	19	0.00												
2019	01	21	29	17	17	0.00												
2019	01	22	38	16	31	0.00												
2019	01	23	62	31	31	0.13												
2019	01	24	64	29	31	0.45												
2019	01	25	47	21	21	0.00												
2019	01	26	49	21	23	0.00												
2019	01	27	55	23	37	0.00												
2019	01	28	43	28	33	0.00												
2019	01	29	52	24	24	0.28												
2019	01	30	43	16	16	0.00												
2019	01	31	33	14	24	0.00												
		Summary	49	29		3.27		0.0										

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	02	01	36	21	21	0.00												
2019	02	02	49	21	22	0.00												
2019	02	03	67	22	34	0.00												
2019	02	04	65	33	35	0.00												
2019	02	05	74	35	44	0.00												
2019	02	06	73	44	60	0.06												
2019	02	07	77	52	64	0.00												
2019	02	08	73	36	36	0.00												
2019	02	09	42	21	22	0.00												
2019	02	10	43	21	36	0.15												
2019	02	11	43	36	37	0.35												
2019	02	12	45	37	44	0.50												
2019	02	13	54	28	28	0.00												
2019	02	14	62	28	51	0.00												
2019	02	15	65	48	48	0.00												
2019	02	16		28	28	0.47												
2019	02	17	45	28	41	1.00												
2019	02	18	59	35	35	0.00												
2019	02	19	44	31	32	0.05												
2019	02	20	38	32	38	0.34												
2019	02	21	59	38	44	0.20												
2019	02	22	45	40	40	0.35												
2019	02	23	42	39	40	1.00												
2019	02	24	63	40	42	0.03												
2019	02	25		30	30	0.00												
2019	02	26	64	29	34	0.00												
2019	02	27	50	34	36	0.02												
2019	02	28	55	36	39	0.05												
Summary			55	33		4.57		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.

"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 07/20/2020

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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	03	01	41	36	36	1.34												
2019	03	02	47	36	42	0.00												
2019	03	03	49	36	37	0.61												
2019	03	04	50	28	30	0.00												
2019	03	05	44	26	26	0.00												
2019	03	06	39	22	24	0.00												
2019	03	07	47	24	35	0.05												
2019	03	08	47	35	38	0.05												
2019	03	09	43	38	41	0.20												
2019	03	10	67	41	52	0.00												
2019	03	11	65	35	42	0.00												
2019	03	12	58	29	30	0.00												
2019	03	13	65	29	46	0.00												
2019	03	14	76	45	64	0.00												
2019	03	15	75	48	48	0.08												
2019	03	16	58	34	36	0.00												
2019	03	17	54	34	39	0.00												
2019	03	18	56	33	33	0.00												
2019	03	19	53	29	29	0.00												
2019	03	20	54	29	43	0.43												
2019	03	21	59	43	45	1.38												
2019	03	22	59	34	35	0.00												
2019	03	23	61	29	29	0.00												
2019	03	24	71	29	53	0.00												
2019	03	25	69	45	45	0.46												
2019	03	26	53	29	29	0.00												
2019	03	27	55	28	30	0.00												
2019	03	28	66	30	46	0.00												
2019	03	29	77	46	53	0.00												
2019	03	30	77	53	60	0.00												
2019	03	31	66	32	32	0.00												
		Summary	58	34		4.60		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

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Generated on 07/20/2020

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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	04	01	52	30	30	0.00												
2019	04	02	45	30	33	0.08												
2019	04	03	70	33	43	0.00												
2019	04	04	73	43	52	0.00												
2019	04	05	55	50	51	0.60												
2019	04	06	65	50	51	0.00												
2019	04	07	76	51	60	0.00												
2019	04	08	82	59	64	0.65												
2019	04	09	75	49	49	0.00												
2019	04	10	75	45	45	0.00												
2019	04	11	77	45	57	0.00												
2019	04	12	77	57	67	0.05												
2019	04	13	68	62	65	0.50												
2019	04	14	80	61	62	1.20												
2019	04	15	67	41	41	0.00												
2019	04	16	70	41	48	0.00												
2019	04	17	85	48	53	0.00												
2019	04	18	82	52	66	0.00												
2019	04	19	76	64	64	0.39												
2019	04	20	70	48	48	0.00												
2019	04	21	66	48	55	0.01												
2019	04	22	74	48	49	0.00												
2019	04	23	83	49	62	0.00												
2019	04	24	85	59	59	0.00												
2019	04	25	81	57	66	0.00												
2019	04	26	79	49	49	0.31												
2019	04	27	74	49	56	0.00												
2019	04	28	83	52	52	0.00												
2019	04	29	60	52	52	0.00												
2019	04	30	87	52	63	0.00												
Summary			73	49		3.79		0.0										

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

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Station: **PETERSBURG, VA US USC00446656**

Record of Climatological Observations

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	05	01	88	63	67	0.00												
2019	05	02	88		64	0.00												
2019	05	03	85	64	68	0.00												
2019	05	04	87	65	66	0.43												
2019	05	05	77	59	59	0.44												
2019	05	06	74	57	57	0.00												
2019	05	07	81	57	63	0.00												
2019	05	08	84	63	67	0.00												
2019	05	09	82	64	65	0.00												
2019	05	10	82	65	67	0.00												
2019	05	11	80	66	67	0.30												
2019	05	12	77	54	55	0.21												
2019	05	13	65	53	53	0.20												
2019	05	14	66	44	44	0.13												
2019	05	15	73	44	50	0.00												
2019	05	16	79	50	59	0.00												
2019	05	17	86	59	64	0.37												
2019	05	18	90	64	68	0.00												
2019	05	19	92	68	69	0.00												
2019	05	20	89	63	63	0.20												
2019	05	21	79	54	54	0.00												
2019	05	22	78	54	62	0.00												
2019	05	23	84	62	73	0.00												
2019	05	24	93	65	71	0.00												
2019	05	25	89	70	74	0.06												
2019	05	26		66	69	0.09												
2019	05	27	87	68	70	0.10												
2019	05	28	94	69	73	0.00												
2019	05	29	94	68	69	0.02												
2019	05	30	94	69	69	0.17												
2019	05	31	86	63	64	0.82												
		Summary	83	61		3.54		0.0										

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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 Observation	24 Hour Amounts Ending at Observation Time				At Obs. Time			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)	24 Hour Wind Movement (mi)	Amount of Evap. (in)	Ground Cover (see *)	Max.	Min.	Ground Cover (see *)	Max.	Min.
2019	06	01	83	63	64	0.15												
2019	06	02	87	62	62	0.42												
2019	06	03	79	53	53	0.00												
2019	06	04	80	53	68	0.00												
2019	06	05	85	68	73	0.18												
2019	06	06	88	72	72	0.00												
2019	06	07	81	70	70	0.88												
2019	06	08	75	69	69	0.17												
2019	06	09	82	69	72	0.42												
2019	06	10	82	68	69	0.78												
2019	06	11	80	56	57	0.00												
2019	06	12	78	52	65	0.52												
2019	06	13	78	57	57	0.32												
2019	06	14	77	54	59	0.00												
2019	06	15	83	59	64	0.00												
2019	06	16	88	64	70	0.00												
2019	06	17	92	70	72	0.00												
2019	06	18	89	71	71	0.35												
2019	06	19	84	71	74	0.00												
2019	06	20	89	71	71	0.02												
2019	06	21	85	62	66	0.00												
2019	06	22	82	57	61	0.00												
2019	06	23	84	60	61	0.00												
2019	06	24		61	76	0.00												
2019	06	25	89	67	70	0.00												
2019	06	26	91	69	70	0.00												
2019	06	27	92	70	76	0.00												
2019	06	28																
2019	06	29	93	68	77	0.00												
2019	06	30	92	68	71	0.00												
		Summary	85	64		4.21		0.0										

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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

Petersburg
Illicit Discharge Detection Summary
Inspections Conducted on June 18, 2019

Outfall ID	Potential Illicit Discharge Detected?
30	No
49	No
50	No
51	No
52	No
53	No
54	No
55	No
56	No
57	No
58	No
61	No
62	No
63	No
64	No
73	No
74	No
75	No
78	No
79	No
80	No
81	No
82	No
83	No
84	No
85	No
86	No
87	No
123	No
124	No
127	No

Outfall ID	Potential Illicit Discharge Detected?
128	No
129	No
130	No
132	No
133	No
135	No
136	No
137	No
138	No
139	No
153	No
154	No
155	No
156	No
160	No
162	No
163	No
165	No
166	No
168	No
169	No
173	No
392	No
393	No
412	No
413	No
414	No
415	No
418	No
420	No
421	No

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

Stormwater Outfall Inspection

Outfall ID: 030	Date: 06/18/2019	Time: 12:19	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	4

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

Notes:
Flow is under backwater. Lots of trash.

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."

06/18/2019

Signature

Date

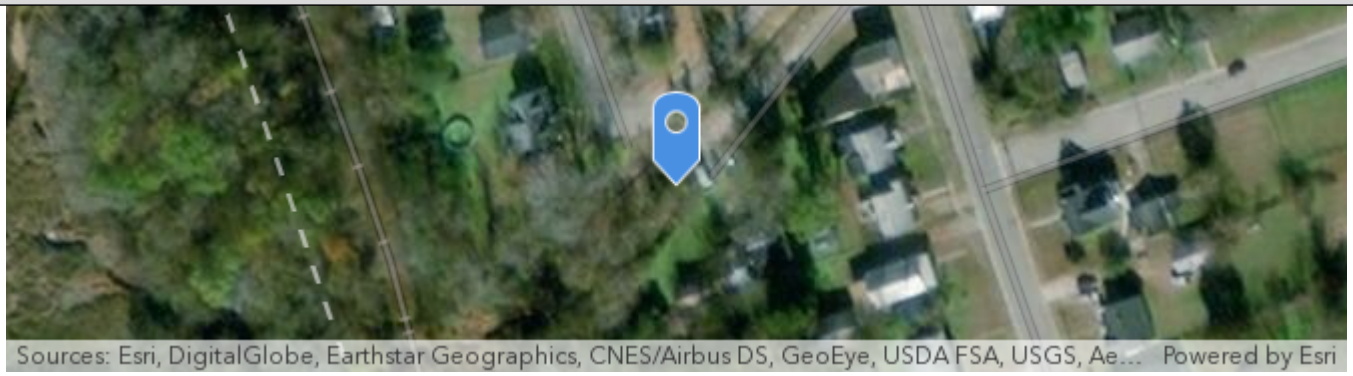
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 030	Date: 06/18/2019	Time: 12:19	Inspector: MSW/MBM

VICINITY MAP



-77.44072, 37.21312

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 049	Date: 06/18/2019	Time: 09:51	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

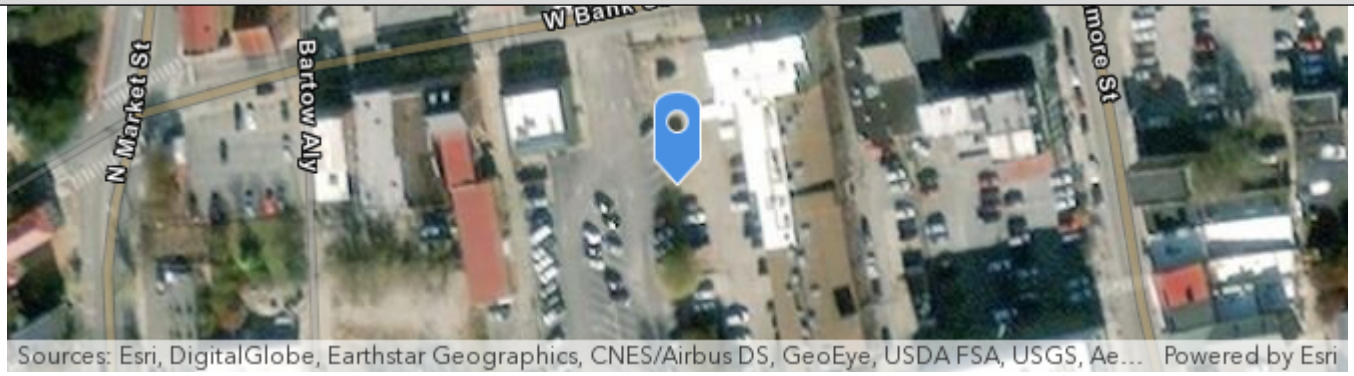
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 049	Date: 06/18/2019	Time: 09:51	Inspector: MSW/MBM

VICINITY MAP



-77.40577, 37.23136

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 050	Date: 06/18/2019	Time: 09:45	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

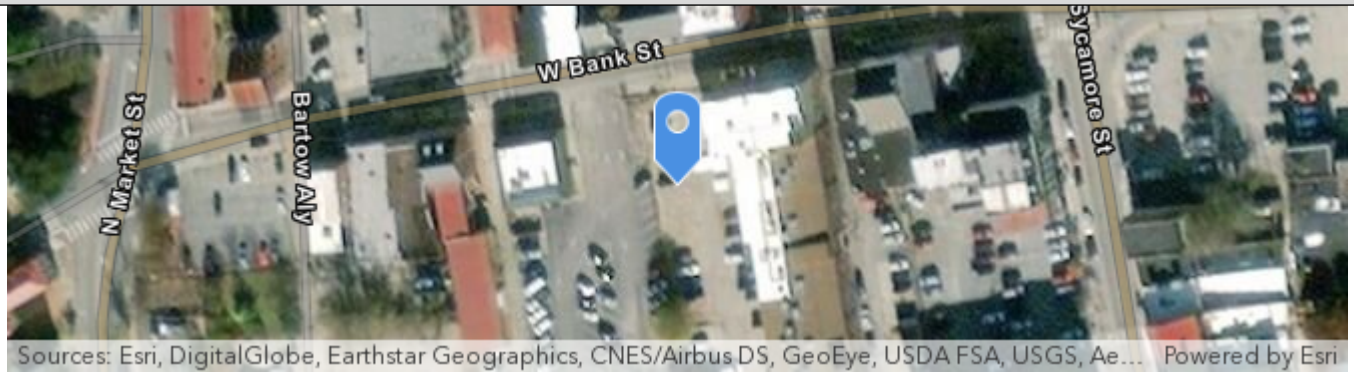
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 050	Date: 06/18/2019	Time: 09:45	Inspector: MSW/MBM

VICINITY MAP



-77.40576, 37.23147

PHOTOGRAPHS

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

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
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Stormwater Outfall Inspection

Outfall ID: 051	Date: 06/18/2019	Time: 09:44	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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: Trash - outfall is next to garbage box, so that's possibly the source	1
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 051	Date: 06/18/2019	Time: 09:44	Inspector: MSW/MBM

VICINITY MAP

-77.40599, 37.23142

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 052	Date: 06/18/2019	Time: 09:39	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:
Excessive garbage in outfall

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."

Marlene McLaurin

Signature

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 052	Date: 06/18/2019	Time: 09:39	Inspector: MSW/MBM

VICINITY MAP

-77.40589, 37.23171

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 053	Date: 06/18/2019	Time: 09:32	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:
Lots of road grit on site

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 053	Date: 06/18/2019	Time: 09:32	Inspector: MSW/MBM

VICINITY MAP

-77.40616, 37.23167

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 054	Date: 06/18/2019	Time: 09:33	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

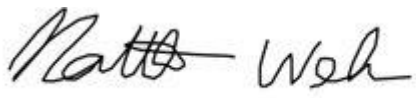
POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
GPS Point seems to be in wrong location. Need to update database.

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

06/18/2019
Date

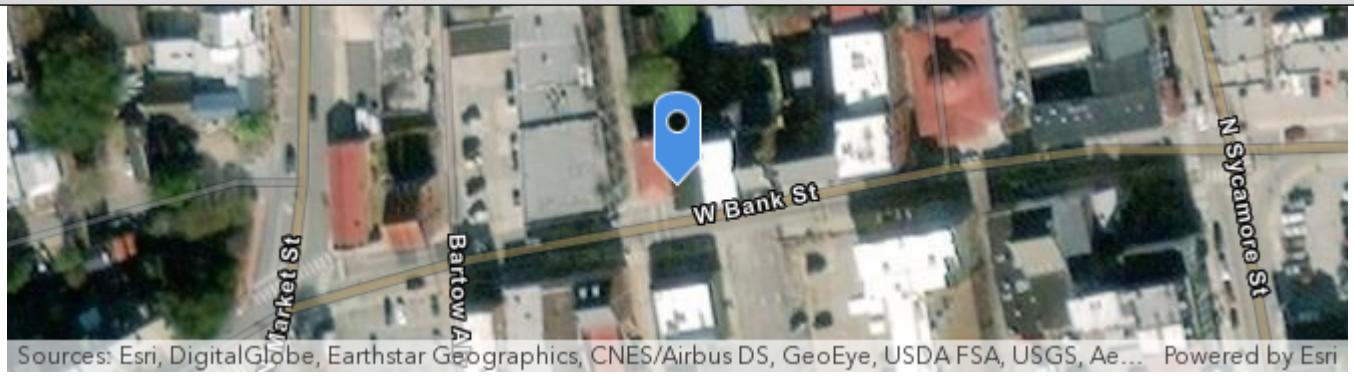
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 054	Date: 06/18/2019	Time: 09:33	Inspector: MSW/MBM

VICINITY MAP



-77.40618, 37.23178

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 055	Date: 06/18/2019	Time: 09:39	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

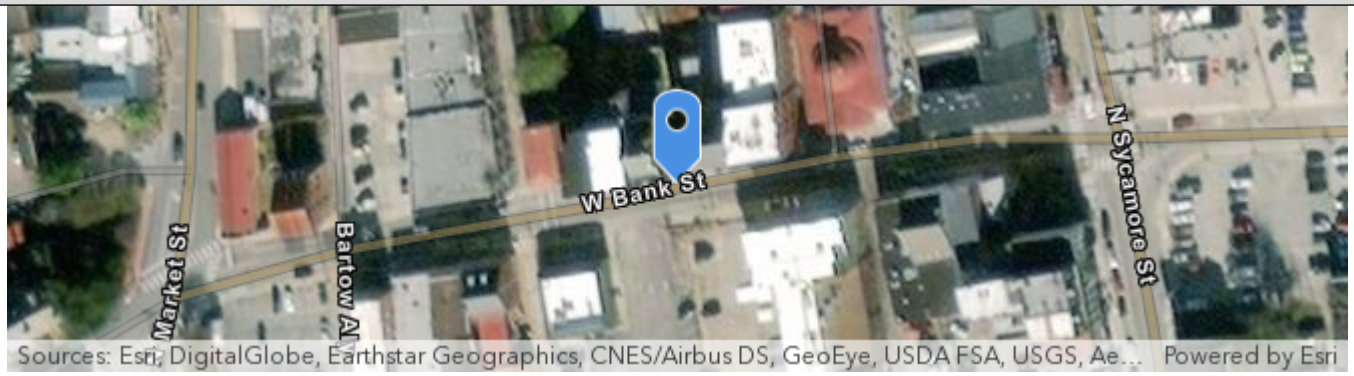
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 055	Date: 06/18/2019	Time: 09:39	Inspector: MSW/MBM

VICINITY MAP



-77.40587, 37.23175

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 56	Date: 06/18/2019	Time: 09:22	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

06/18/2019

Signature

Date

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

Stormwater Outfall Inspection

Outfall ID: 56	Date: 06/18/2019	Time: 09:22	Inspector: MSW/MBM

VICINITY MAP

-77.40623, 37.233

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 057	Date: 06/18/2019	Time: 09:22	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 057	Date: 06/18/2019	Time: 09:22	Inspector: MSW/MBM

VICINITY MAP

-77.40633, 37.23296

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 058	Date: 06/18/2019	Time: 09:12	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 58	Date: 06/18/2019	Time: 09:12	Inspector: MSW/MBM

VICINITY MAP

-77.40663, 37.23373

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 061	Date: 06/18/2019	Time: 10:03	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

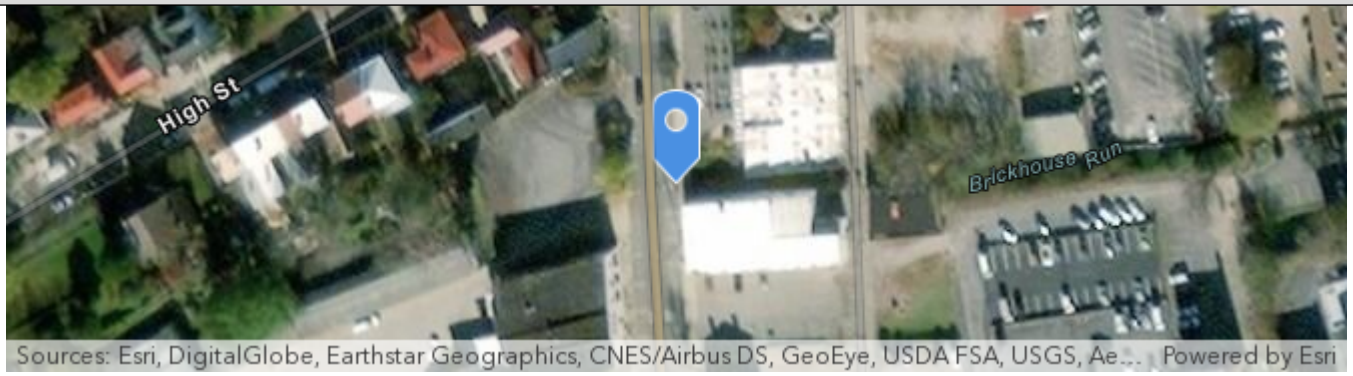
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 061	Date: 06/18/2019	Time: 10:03	Inspector: MSW/MBM

VICINITY MAP



-77.40721, 37.23076

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 062	Date: 06/18/2019	Time: 10:10	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 062	Date: 06/18/2019	Time: 10:10	Inspector: MSW/MBM

VICINITY MAP

-77.40951, 37.22925

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 063	Date: 06/18/2019	Time: 09:56	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Madeline McGraw

_____ 06/18/2019

Signature Date

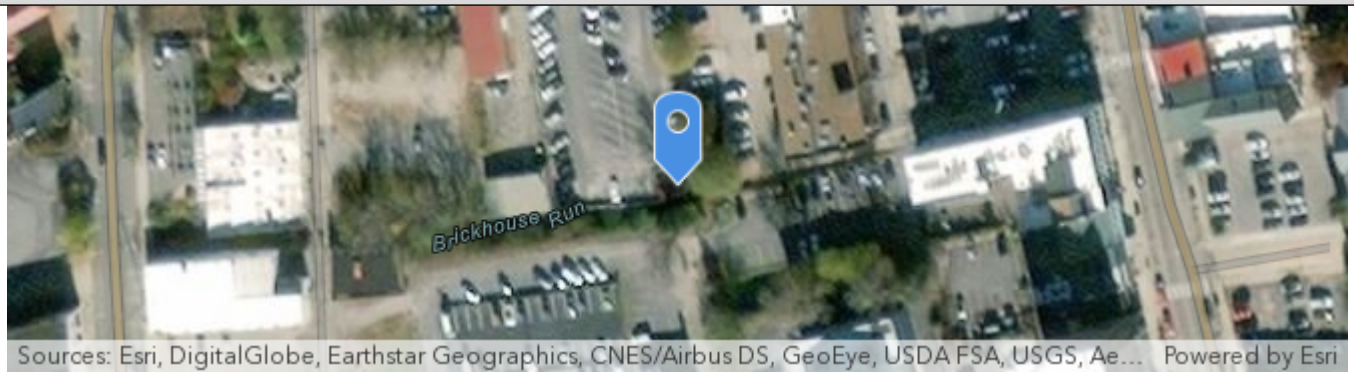
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 063	Date: 06/18/2019	Time: 09:56	Inspector: MSW/MBM

VICINITY MAP



-77.40577, 37.23088

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 064	Date: 06/18/2019	Time: 10:19	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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: Unknown	2
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

Notes:

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."

06/18/2019

Signature

Date

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

Stormwater Outfall Inspection

Outfall ID: 064	Date: 06/18/2019	Time: 10:19	Inspector: MSW/MBM

VICINITY MAP

-77.41124, 37.22807

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 073	Date: 06/18/2019	Time: 10:42	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 073	Date: 06/18/2019	Time: 10:42	Inspector: MSW/MBM

VICINITY MAP

-77.41274, 37.226

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 074	Date: 06/18/2019	Time: 10:55	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

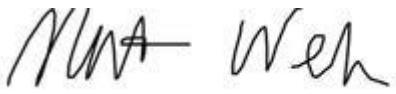
POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

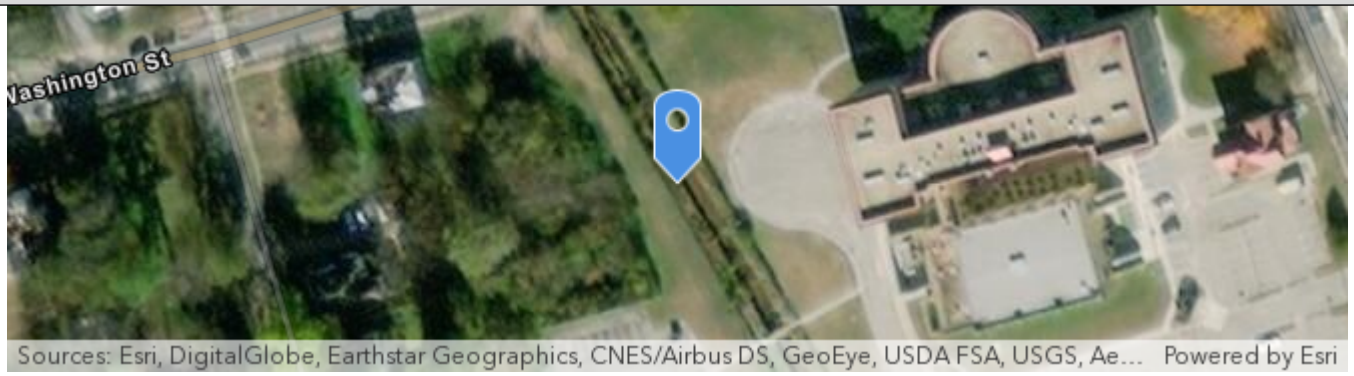
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 074	Date: 06/18/2019	Time: 10:55	Inspector: MSW/MBM

VICINITY MAP



-77.41246, 37.22553

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 075	Date: 06/18/2019	Time: 10:52	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:
May be the outlet from BMPs 108 and 109.

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

06/18/2019
Date

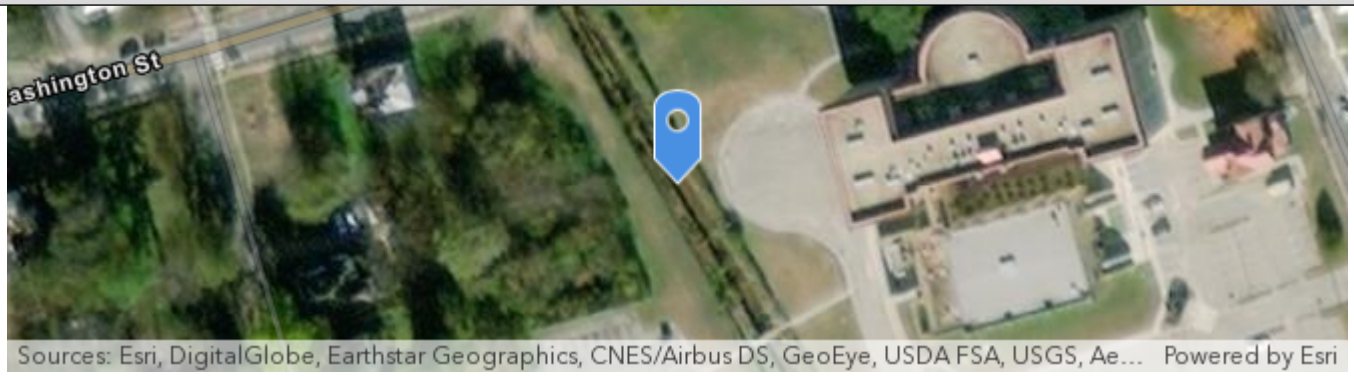
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 075	Date: 06/18/2019	Time: 10:52	Inspector: MSW/MBM

VICINITY MAP



-77.41243, 37.22554

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 078	Date: 06/18/2019	Time: 11:13	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Orange,Green	2

Notes:

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

06/18/2019

Date

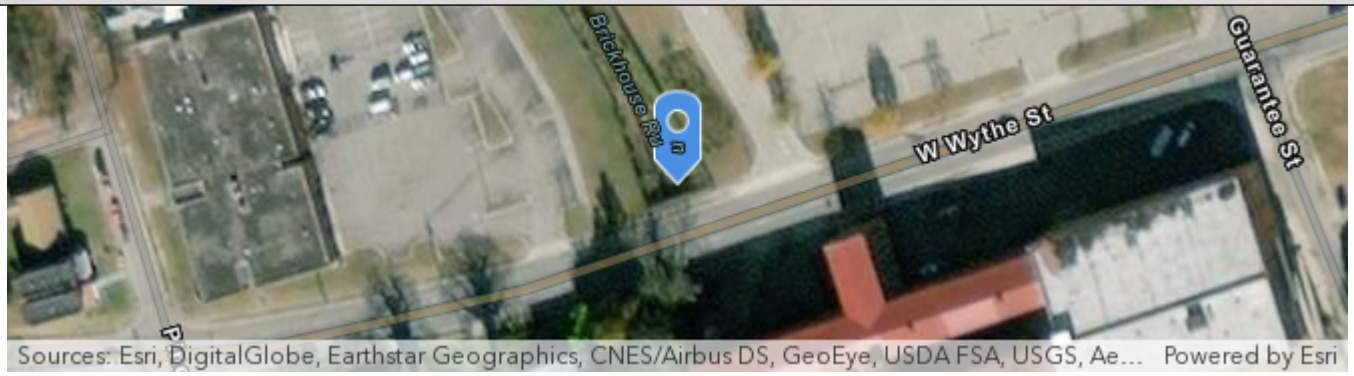
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 078	Date: 06/18/2019	Time: 11:13	Inspector: MSW/MBM

VICINITY MAP



-77.41179, 37.22463

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 079	Date: 06/18/2019	Time: 11:17	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	0.5

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	Yes	Green	1

Notes:

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

06/18/2019

Date

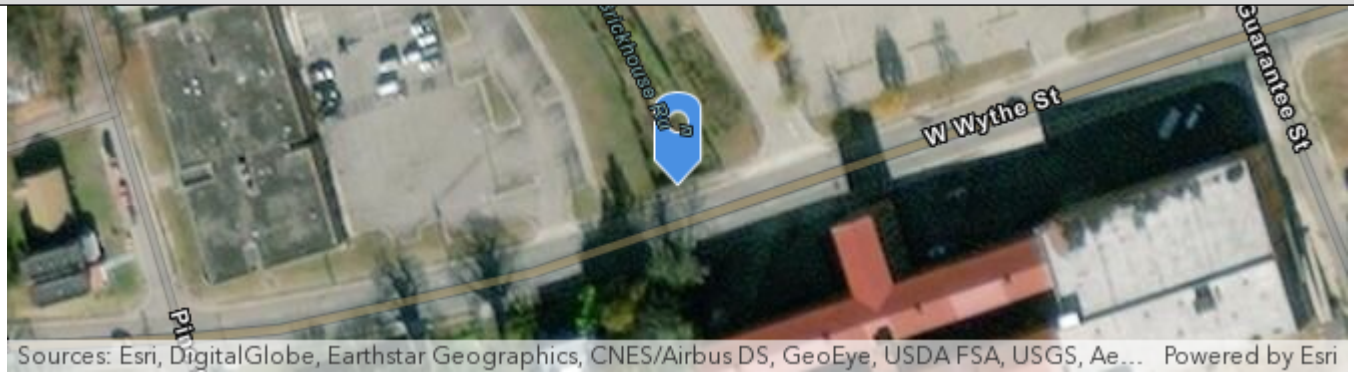
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 079	Date: 06/18/2019	Time: 11:17	Inspector: MSW/MBM

VICINITY MAP



-77.41181, 37.22459

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 080	Date: 06/18/2019	Time: 11:19	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	0.75

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	Yes	Orange	2

Notes:

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."

06/18/2019

Signature

Date

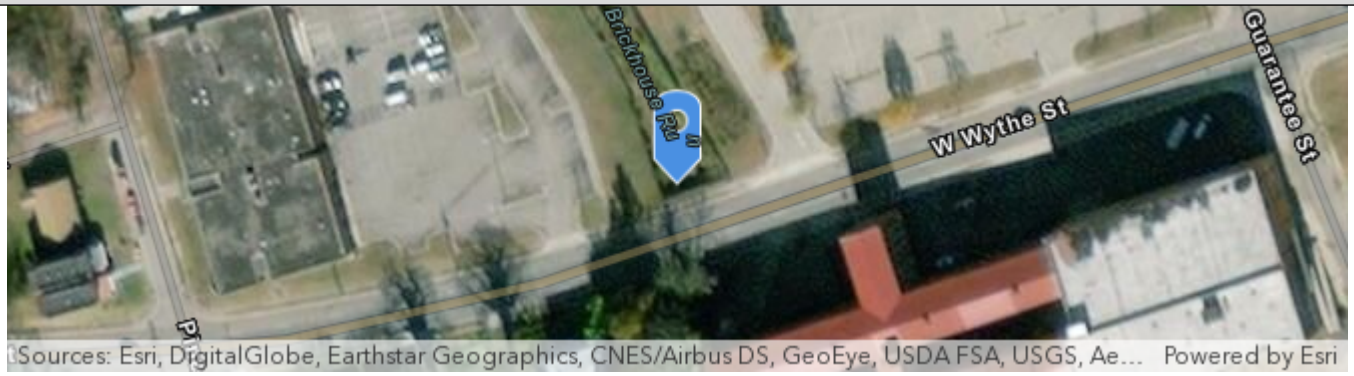
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 080	Date: 06/18/2019	Time: 11:19	Inspector: MSW/MBM

VICINITY MAP



-77.41183, 37.22461

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 081	Date: 06/18/2019	Time: 11:08	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

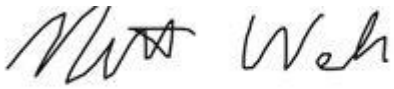
POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

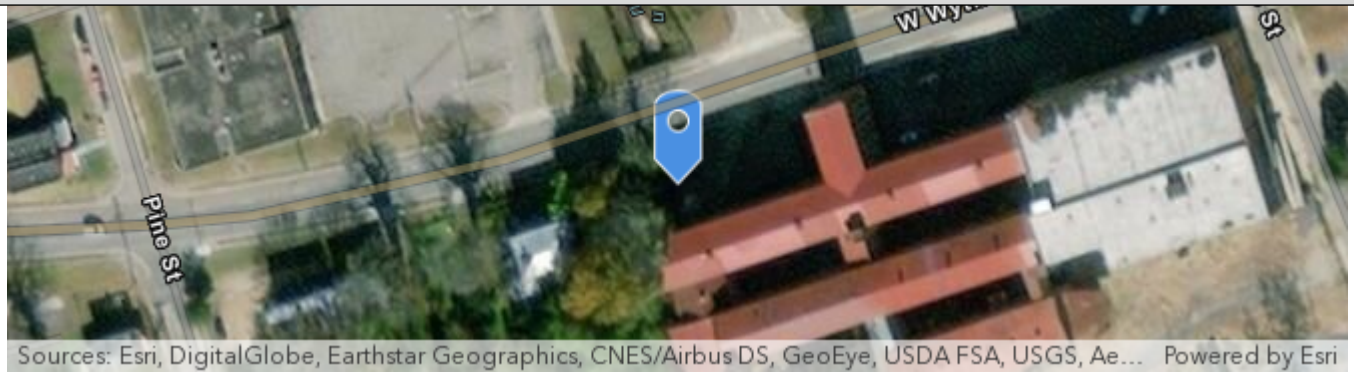
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 081	Date: 06/18/2019	Time: 11:08	Inspector: MSW/MBM

VICINITY MAP



-77.41174, 37.22435

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 082	Date: 06/18/2019	Time: 11:05	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

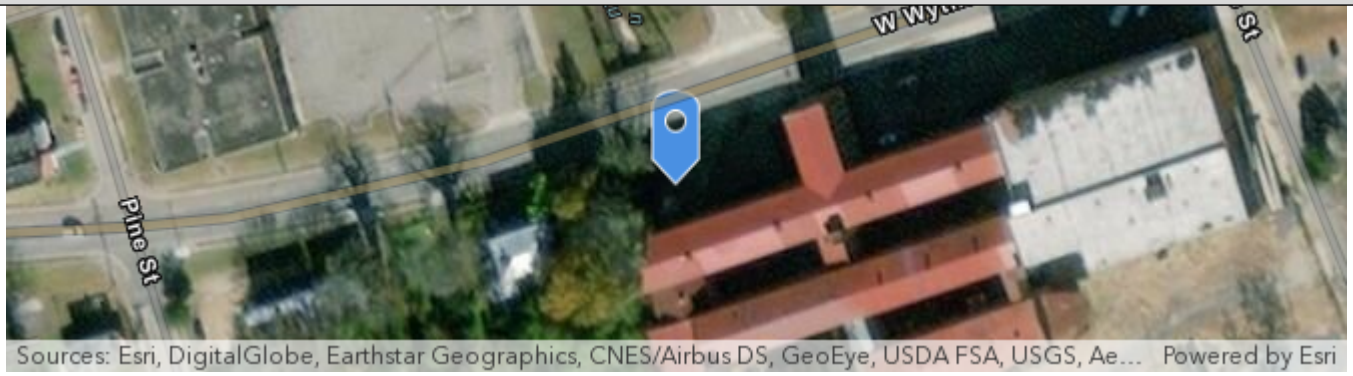
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 082	Date: 06/18/2019	Time: 11:05	Inspector: MSW/MBM

VICINITY MAP



-77.41168, 37.22435

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 083	Date: 06/18/2019	Time: 14:02	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/18/2019	End Time: 2:45pm
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):	0.1

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

Notes:

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

06/18/2019

Date

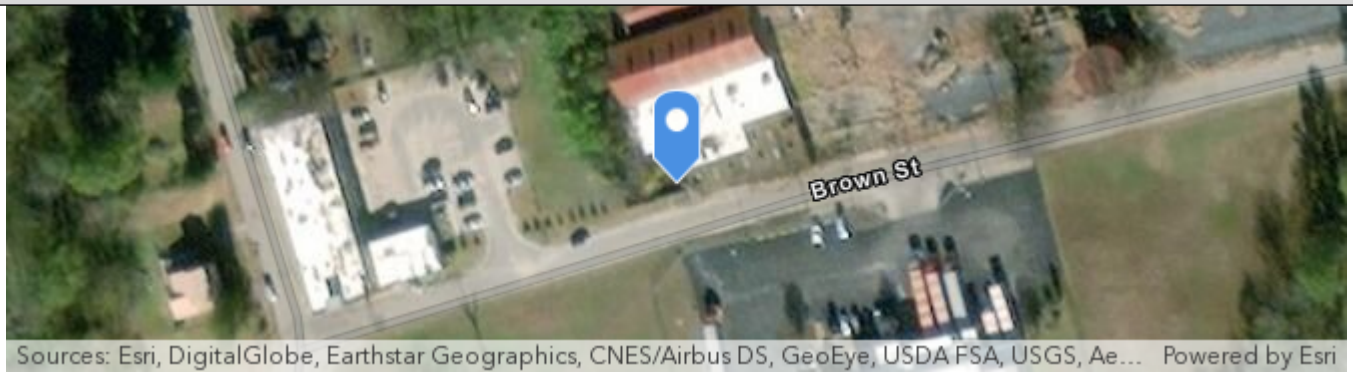
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 083	Date: 06/18/2019	Time: 14:02	Inspector: MSW/MBM

VICINITY MAP



-77.41165, 37.22333

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 124	Date: 06/18/2019	Time: 13:23	Inspector: MSW/MBM

LAST RAINFALL

Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	Yes	See Severity Index	2
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Floatables,Other: Sheen	2
Pipe Benthic Growth	Yes	Orange	1

Notes:

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

06/18/2019

Date

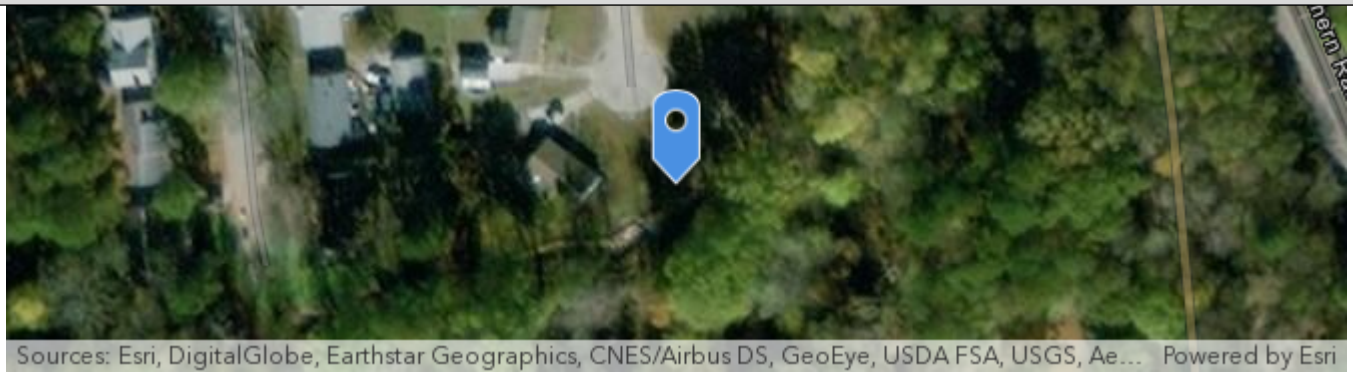
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 124	Date: 06/18/2019	Time: 13:23	Inspector: MSW/MBM

VICINITY MAP



-77.42884, 37.2148

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 085	Date: 06/18/2019	Time: 13:56	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

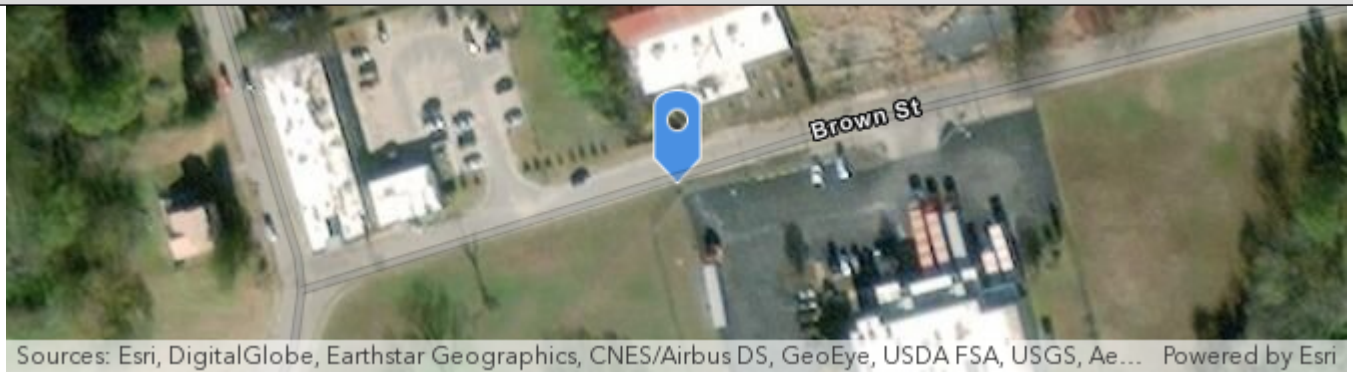
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 085	Date: 06/18/2019	Time: 13:56	Inspector: MSW/MBM

VICINITY MAP



-77.41165, 37.2232

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 086	Date: 06/18/2019	Time: 13:54	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 086	Date: 06/18/2019	Time: 13:54	Inspector: MSW/MBM

VICINITY MAP

-77.41165, 37.2232

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 087	Date: 2019,06,18	Time: 13:46	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

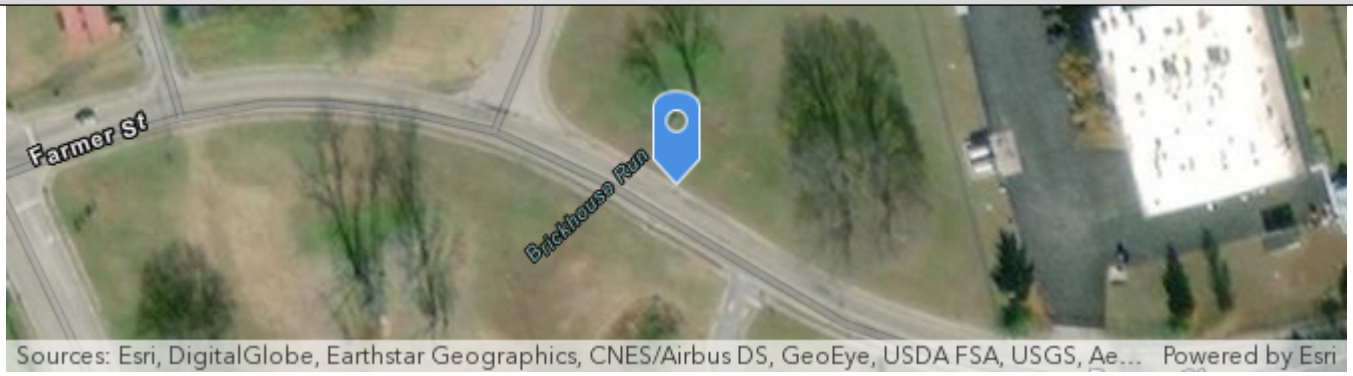
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 087	Date: 06/18/2019	Time: 13:46	Inspector: MSW/MBM

VICINITY MAP



-77.4123, 37.22253

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 123	Date: 06/18/2019	Time: 13:32	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	0.75

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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

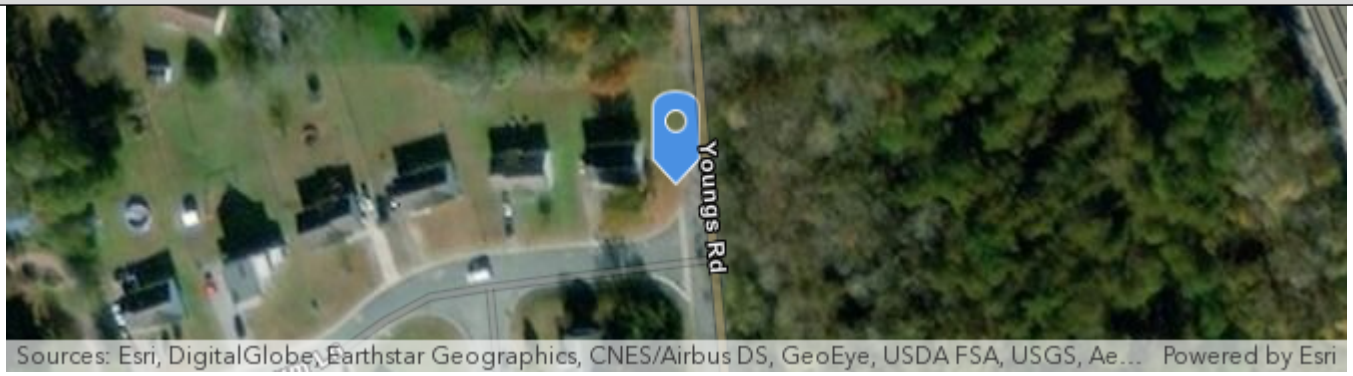
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 123	Date: 06/18/2019	Time: 13:32	Inspector: MSW/MBM

VICINITY MAP



-77.42731, 37.21181

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 084	Date: 06/18/2019	Time: 13:56	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Brown,Orange	1

Notes:

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

06/18/2019

Date

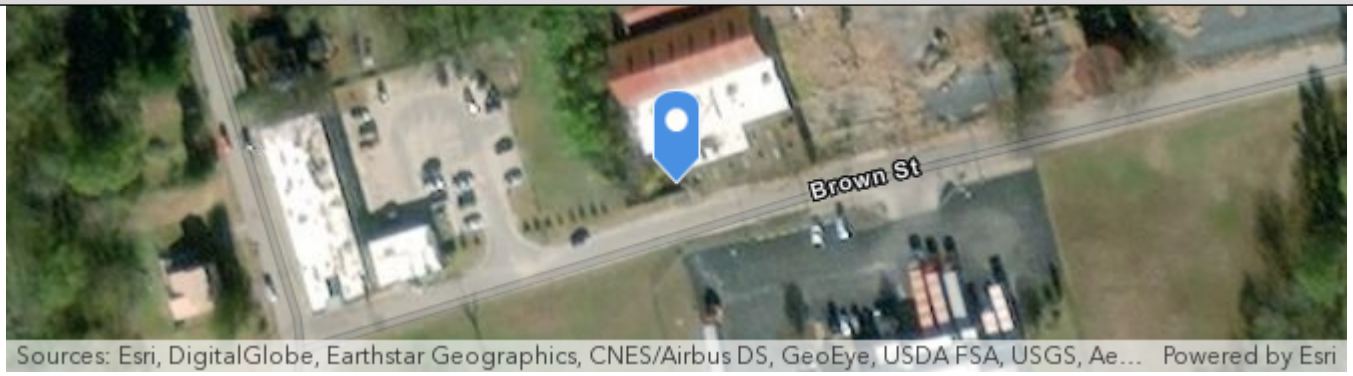
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 084	Date: 06/18/2019	Time: 13:56	Inspector: MSW/MBM

VICINITY MAP



-77.41165, 37.22333

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 127	Date: 06/18/2019	Time: 13:16	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 127	Date: 06/18/2019	Time: 13:16	Inspector: MSW/MBM

VICINITY MAP

-77.43107, 37.21437

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 128	Date: 06/18/2019	Time: 13:13	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/18/2019	End Time: -43200000
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

Notes:
Appears almost totally filled in

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

06/18/2019

Date

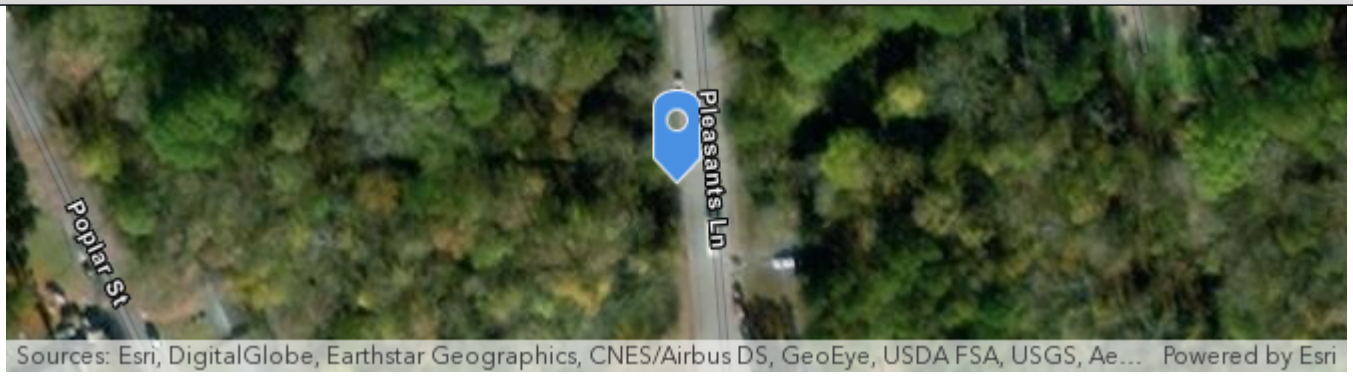
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 128	Date: 06/18/2019	Time: 13:13	Inspector: MSW/MBM

VICINITY MAP



-77.4312, 37.21435

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 129	Date: 06/18/2019	Time: 13:05	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 129	Date: 06/18/2019	Time: 13:05	Inspector: MSW/MBM

VICINITY MAP

-77.43177, 37.21394

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 130	Date: 06/18/2019	Time: 13:06	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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: Swampy	1
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

Notes:

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

06/18/2019

Date

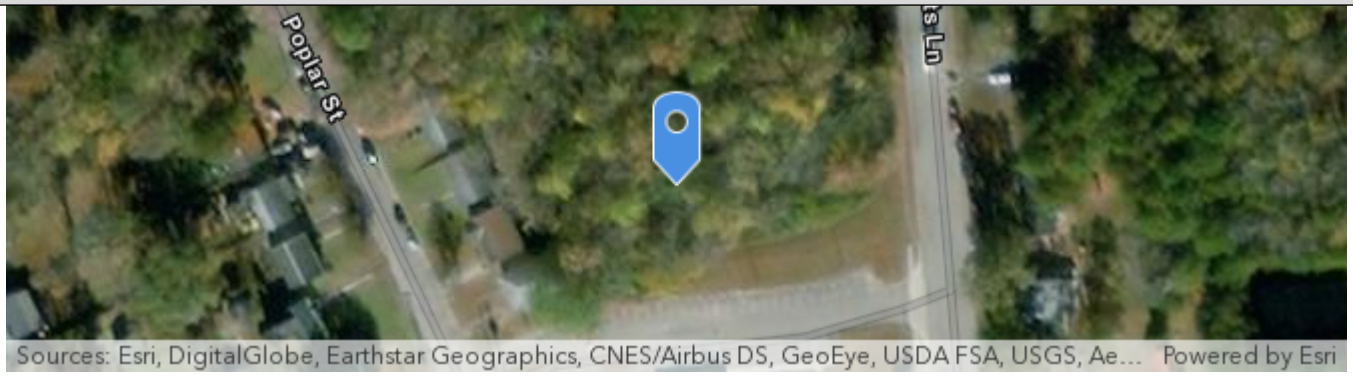
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 130	Date: 06/18/2019	Time: 13:06	Inspector: MSW/MBM

VICINITY MAP



-77.43178, 37.21396

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 132	Date: 06/18/2019	Time: 12:58	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 132	Date: 06/18/2019	Time: 12:58	Inspector: MSW/MBM

VICINITY MAP

-77.43285, 37.21438

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 133	Date: 06/18/2019	Time: 12:59	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Matt Wehr

_____ 06/18/2019

Signature Date

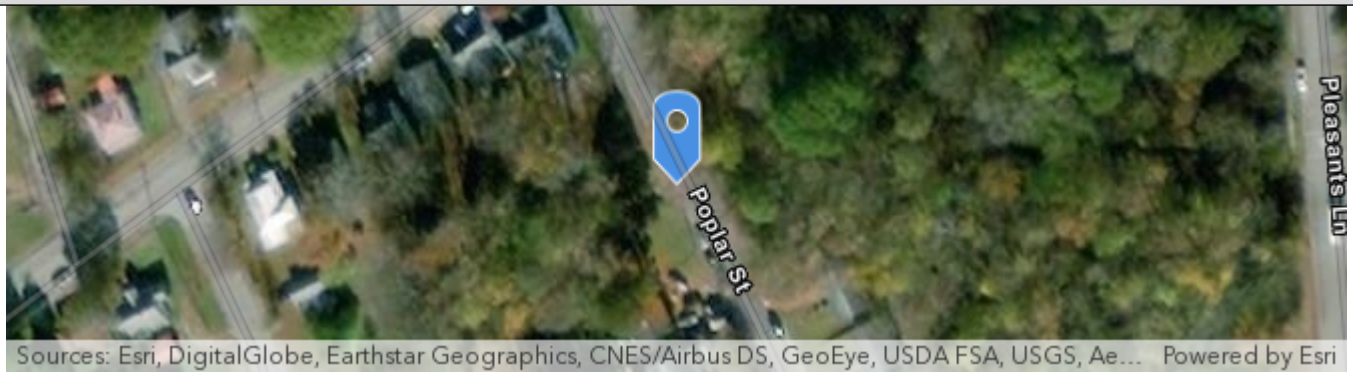
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 133	Date: 06/18/2019	Time: 12:59	Inspector: MSW/MBM

VICINITY MAP



-77.43287, 37.21432

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 135	Date: 06/18/2019	Time: 12:38	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 135	Date: 06/18/2019	Time: 12:38	Inspector: MSW/MBM

VICINITY MAP

-77.43465, 37.21288

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 136	Date: 06/18/2019	Time: 12:41	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/18/2019	End Time: 2:45pm
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

Notes:
Heavy sediment in pipe

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."

Madeline McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 136	Date: 06/18/2019	Time: 12:41	Inspector: MSW/MBM

VICINITY MAP

-77.43465, 37.21289

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 137	Date: 06/18/2019	Time: 12:33	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:
Sediment in pipe

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."

Marlene McD[illegible]

06/18/2019

Signature

Date

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

Stormwater Outfall Inspection

Outfall ID: 137	Date: 06/18/2019	Time: 12:33	Inspector: MSW/MBM

VICINITY MAP

-77.43466, 37.21291

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 138	Date: 06/18/2019	Time: 12:34	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	1
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

Notes:
Slight potential sewage smell in this area, but not from pipe.

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

06/18/2019
Date

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

Stormwater Outfall Inspection

Outfall ID: 138	Date: 06/18/2019	Time: 12:34	Inspector: MSW/MBM

VICINITY MAP

-77.43471, 37.21273

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 139	Date: 06/18/2019	Time: 12:41	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 139	Date: 06/18/2019	Time: 12:41	Inspector: MSW/MBM

VICINITY MAP

-77.43467, 37.2129

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 153	Date: 06/18/2019	Time: 15:17	Inspector: MSW/MBM

LAST RAINFALL

Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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: Swampy	1
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	Yes	Other: Stagnant	2
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 153	Date: 06/18/2019	Time: 15:17	Inspector: MSW/MBM

VICINITY MAP

-77.39659, 37.23373

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 154	Date: 06/18/2019	Time: 15:20	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

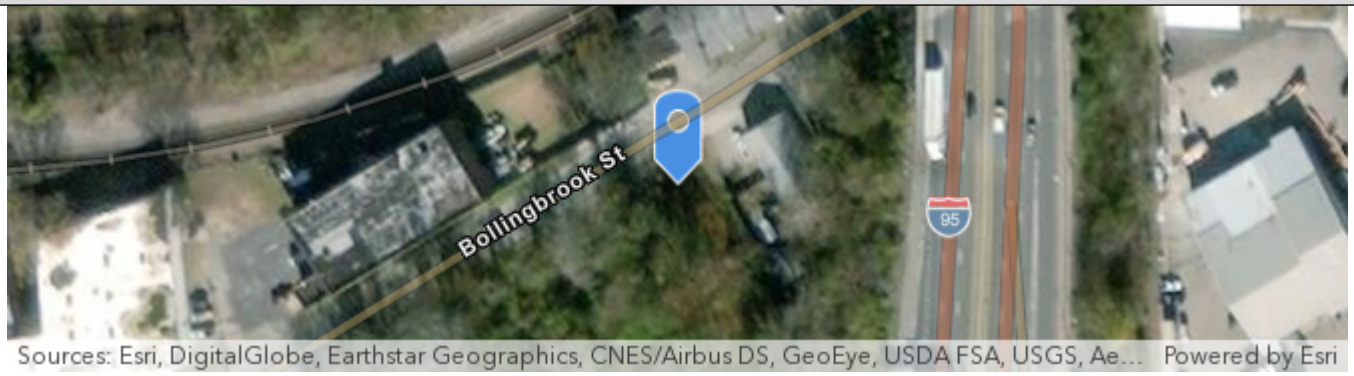
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 154	Date: 06/18/2019	Time: 15:20	Inspector: MSW/MBM

VICINITY MAP



-77.39649, 37.23372

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 155	Date: 06/18/2019	Time: 15:23	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 155	Date: 06/18/2019	Time: 15:23	Inspector: MSW/MBM

VICINITY MAP

-77.39668, 37.23382

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 156	Date: 06/18/2019	Time: 15:24	Inspector: MSW/MBM

LAST RAINFALL

Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	ExcessiveAlgae,Other: Stagnant	2
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 156	Date: 06/18/2019	Time: 15:24	Inspector: MSW/MBM

VICINITY MAP

-77.39668, 37.23383

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 160	Date: 06/18/2019	Time: 15:00	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	0.15

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	Yes	Orange	3

Notes:

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

06/18/2019

Date

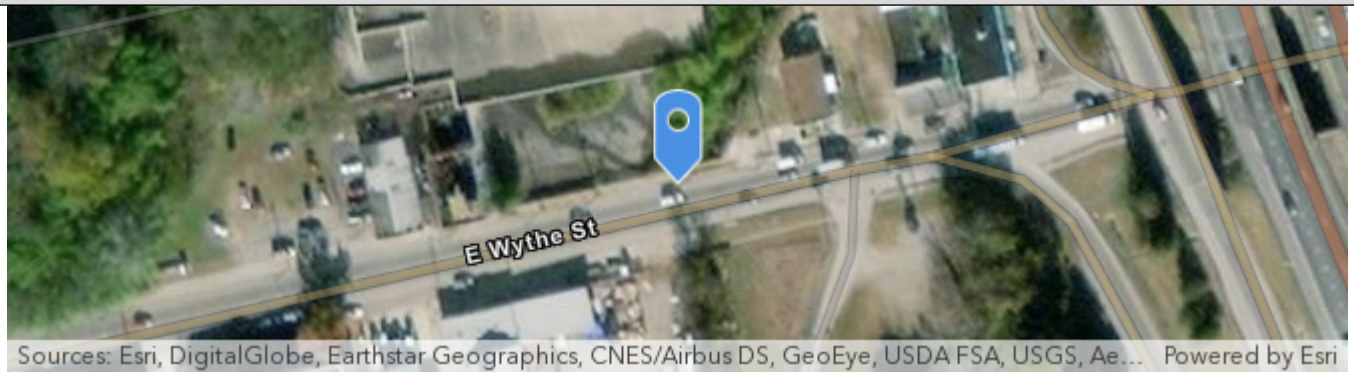
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 160	Date: 06/18/2019	Time: 15:00	Inspector: MSW/MBM

VICINITY MAP



-77.39695, 37.22754

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 162	Date: 06/18/2019	Time: 14:58	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

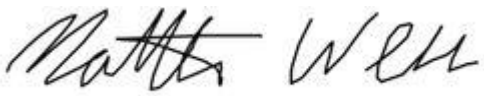
POTENTIAL POLLUTANT INDICATORS			
Indicator	**Present?**	**Description**	**Relative Severity Index (1-3)**
Odor	No	NA	NA
Turbidity	No	See Severity Index	NA
Floatables	No	NA	NA
Deposits/Stains	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 162	Date: 06/18/2019	Time: 14:58	Inspector: MSW/MBM

VICINITY MAP

-77.39695, 37.2274

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 163	Date: 06/18/2019	Time: 14:55	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:
Road grit accumulation

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."

Madlene McGraw

Signature

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 163	Date: 06/18/2019	Time: 14:55	Inspector: MSW/MBM

VICINITY MAP

-77.39684, 37.22741

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 165	Date: 06/18/2019	Time: 14:28	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

06/18/2019

Signature

Date

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

Stormwater Outfall Inspection

Outfall ID: 165	Date: 06/18/2019	Time: 14:28	Inspector: MSW/MBM

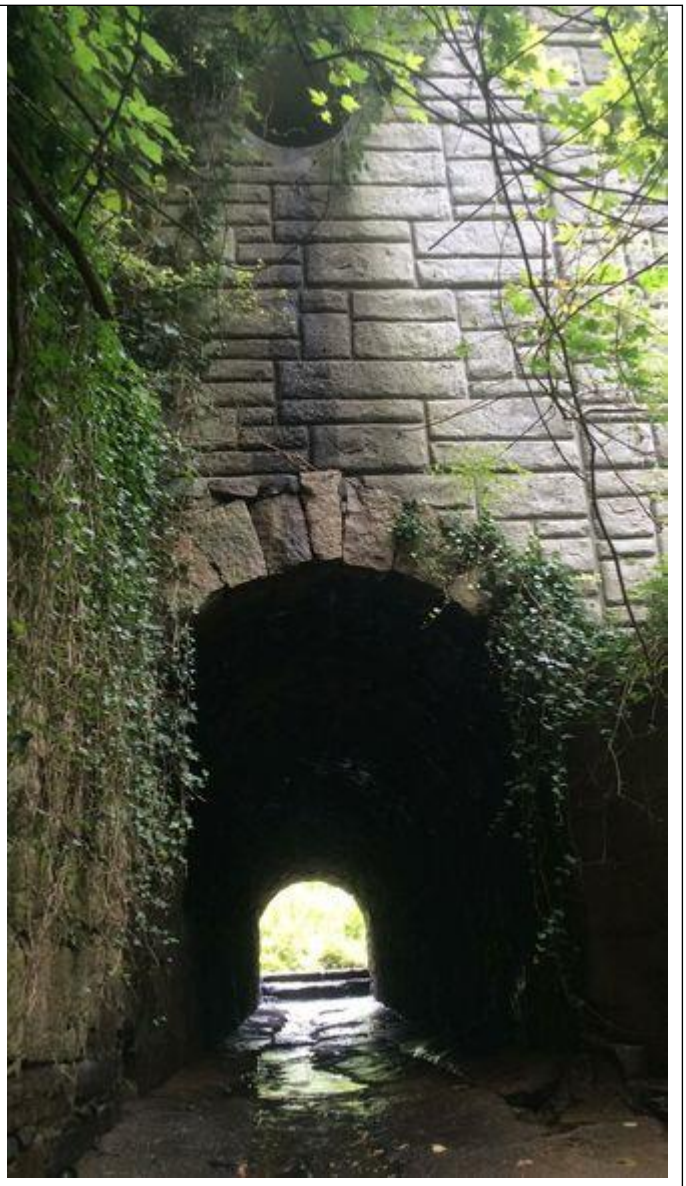
VICINITY MAP

-77.39839, 37.22394

PHOTOGRAPHS

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



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

Stormwater Outfall Inspection

Outfall ID: 166	Date: 06/18/2019	Time: 14:24	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 166	Date: 06/18/2019	Time: 14:24	Inspector: MSW/MBM

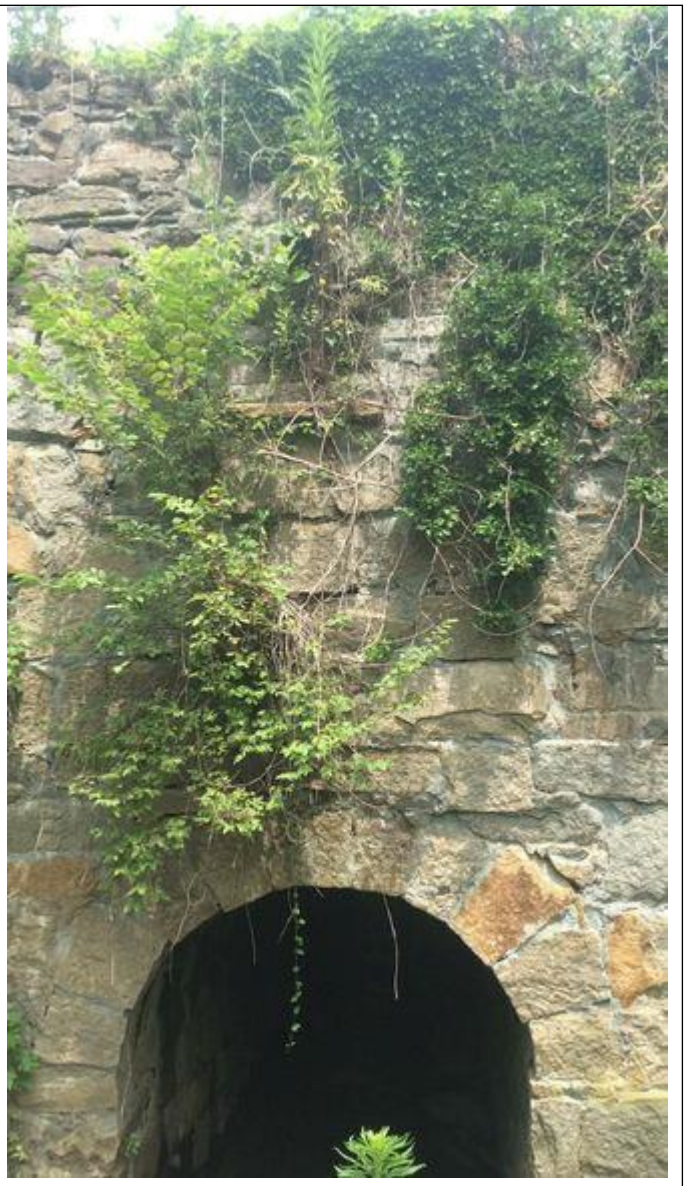
VICINITY MAP

-77.3987, 37.22387

PHOTOGRAPHS

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



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

Stormwater Outfall Inspection

Outfall ID: 168	Date: 06/18/2019	Time: 14:19	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	No	NA	NA
Poor Pool Quality	No	NA	NA
Pipe Benthic Growth	Yes	Green	3

Notes:

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

06/18/2019

Date

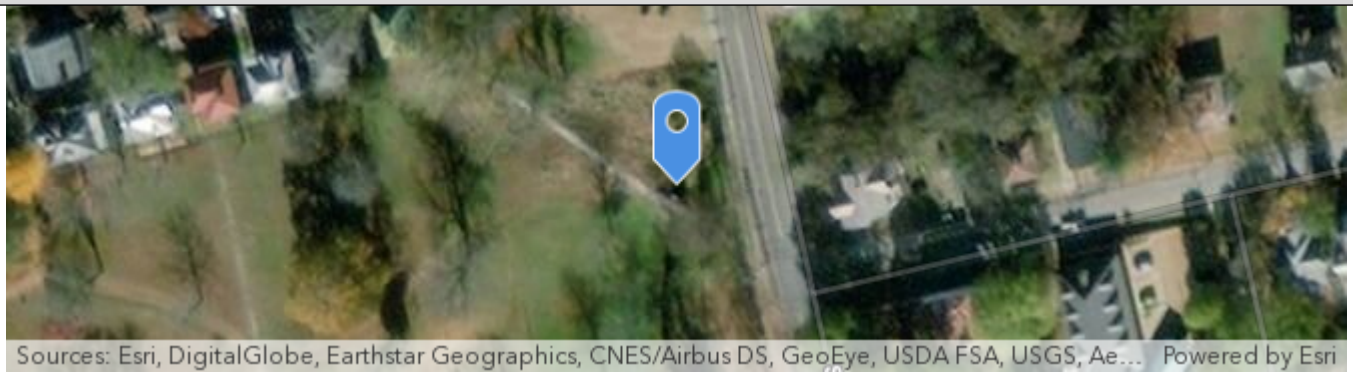
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 168	Date: 06/18/2019	Time: 14:19	Inspector: MSW/MBM

VICINITY MAP



-77.39875, 37.22376

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 169	Date: 06/18/2019	Time: 14:26	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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):	0.25

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

Notes:

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

06/18/2019

Date

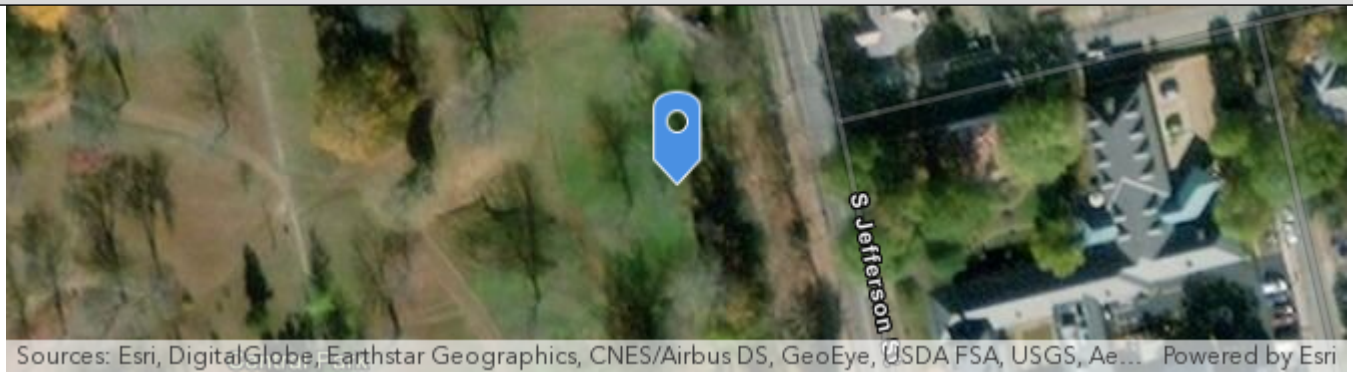
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 169	Date: 06/18/2019	Time: 14:26	Inspector: MSW/MBM

VICINITY MAP



-77.39882, 37.2234

PHOTOGRAPHS

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

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

Stormwater Outfall Inspection

Outfall ID: 173	Date: 06/18/2019	Time: 14:40	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McHenry

_____ 06/18/2019

Signature Date

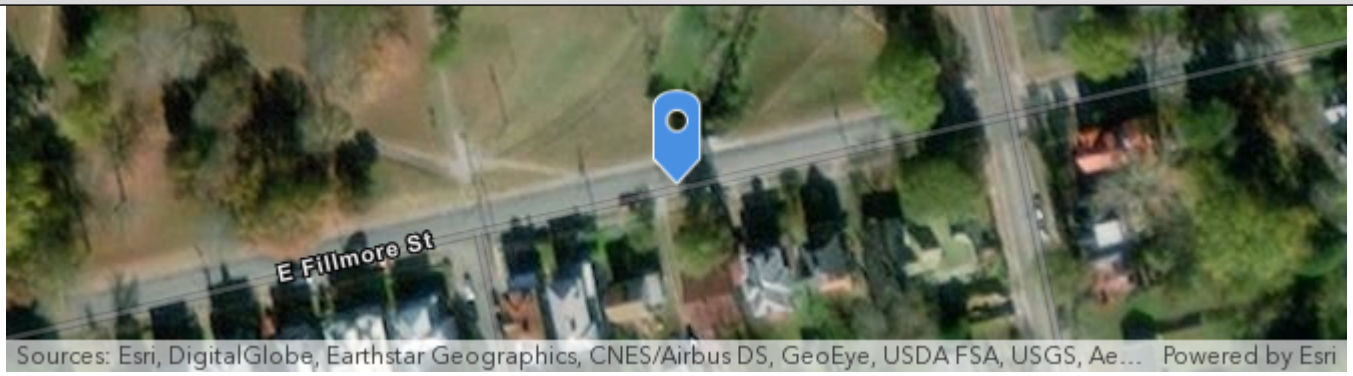
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 173	Date: 06/18/2019	Time: 14:40	Inspector: MSW/MBM

VICINITY MAP



-77.39898, 37.22225

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 392	Date: 06/18/2019	Time: 15:42	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	Other: Stagnant	2
Pipe Benthic Growth	No	NA	NA

Notes:

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

06/18/2019

Date

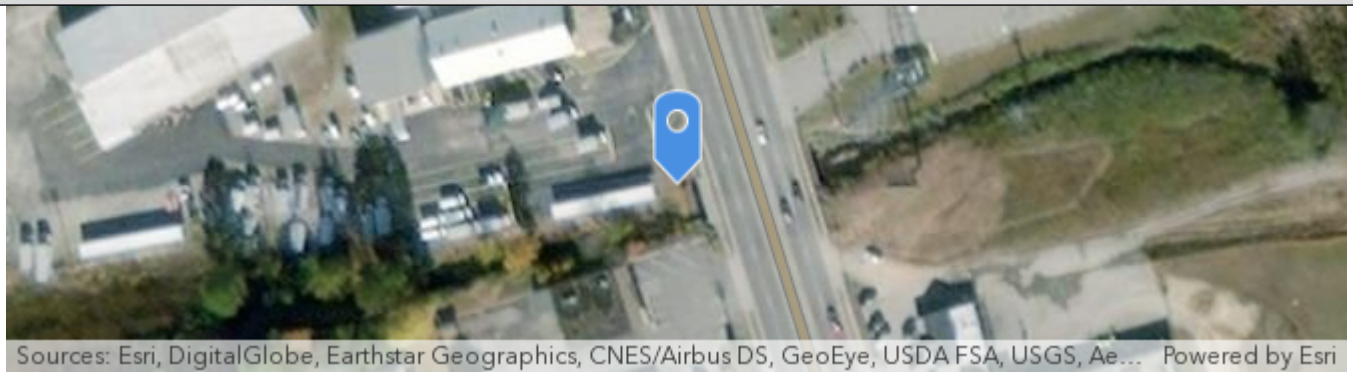
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 392	Date: 06/18/2019	Time: 15:42	Inspector: MSW/MBM

VICINITY MAP



-77.37699, 37.19762

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 393	Date: 06/18/2019	Time: 15:41	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ Signature

06/18/2019
_____ Date

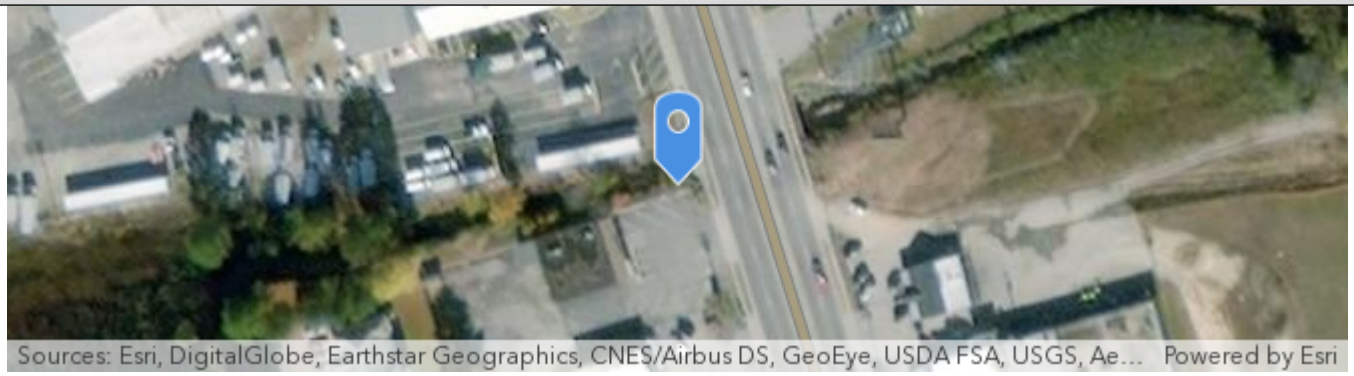
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 393	Date: 06/18/2019	Time: 15:41	Inspector: MSW/MBM

VICINITY MAP



-77.37694, 37.19751

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 412	Date: 06/18/2019	Time: 16:26	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/18/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 412	Date: 06/18/2019	Time: 16:26	Inspector: MSW/MBM

VICINITY MAP

-77.37943, 37.19322

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 413	Date: 06/18/2019	Time: 16:27	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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."

Marlene McGraw

_____ 06/18/2019

Signature Date

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

Stormwater Outfall Inspection

Outfall ID: 413	Date: 06/18/2019	Time: 16:27	Inspector: MSW/MBM

VICINITY MAP

-77.37942, 37.19329

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 414	Date: 06/18/2019	Time: 16:27	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 414	Date: 06/18/2019	Time: 16:27	Inspector: MSW/MBM

VICINITY MAP

-77.37903, 37.19329

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 415	Date: 06/18/2019	Time: 15:42	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 415	Date: 06/18/2019	Time: 15:42	Inspector: MSW/MBM

VICINITY MAP

-77.37692, 37.19749

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 418	Date: 06/18/2019	Time: 16:18	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	ExcessiveAlgae,OilSheen	2
Pipe Benthic Growth	No	NA	NA

Notes:

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."

Marlene McGraw

Signature

06/18/2019

Date

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

Stormwater Outfall Inspection

Outfall ID: 418	Date: 06/18/2019	Time: 16:18	Inspector: MSW/MBM

VICINITY MAP

-77.37714, 37.19491

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 420	Date: 06/18/2019	Time: 16:07	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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	Yes	Orange	2

Notes:
Water was stagnant and had natural sheens

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

06/18/2019
Date

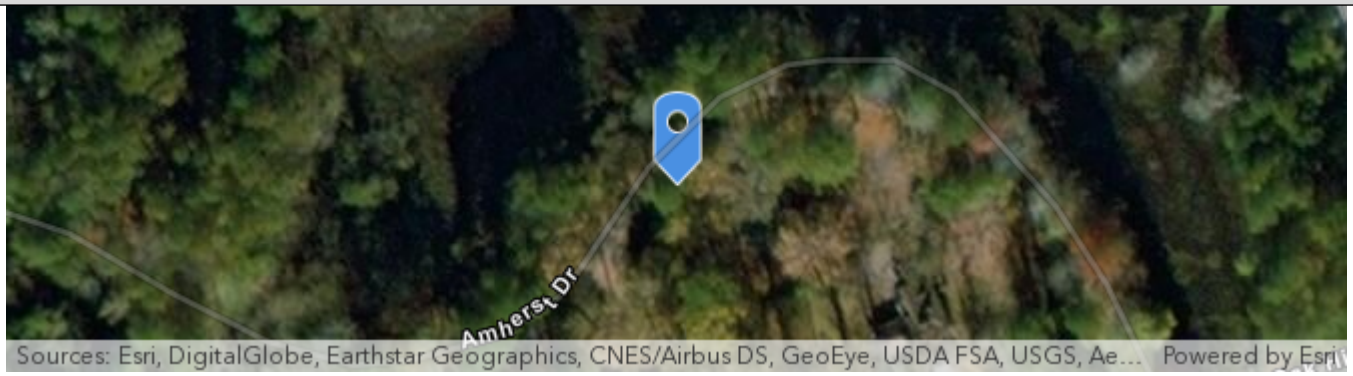
If an illicit discharge is suspected, immediately contact the Stormwater Program Manager at (804)-733-2357.

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

Stormwater Outfall Inspection

Outfall ID: 420	Date: 06/18/2019	Time: 16:07	Inspector: MSW/MBM

VICINITY MAP



-77.37948, 37.19593

PHOTOGRAPHS

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

Stormwater Outfall Inspection

Outfall ID: 421	Date: 06/18/2019	Time: 16:13	Inspector: MSW/MBM

LAST RAINFALL		
Depth (in): 0.64	End Date: 06/13/2019	End Time: 2:45pm
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

Notes:

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

06/18/2019

Date

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

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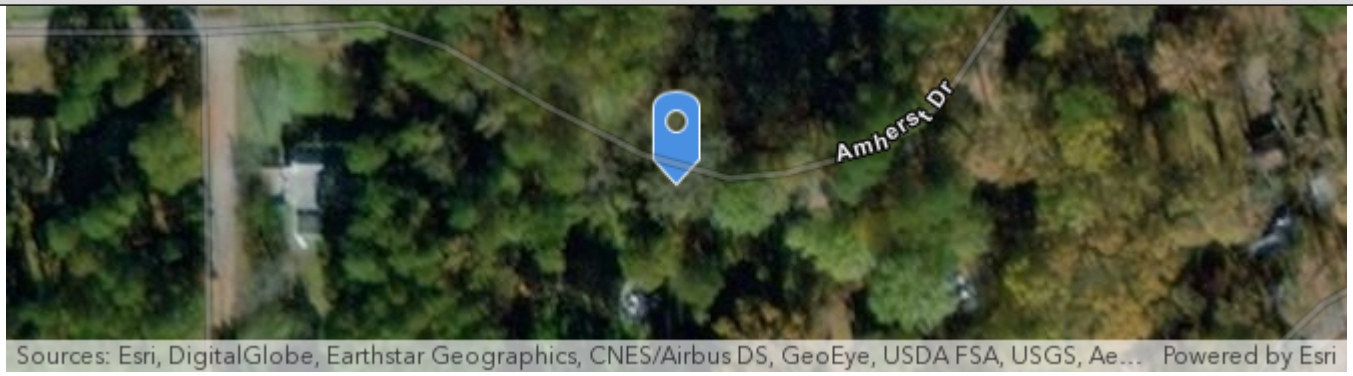
Stormwater Outfall Inspection

Outfall ID: 421	Date: 06/18/2019	Time: 16:13	Inspector: MSW/MBM

VICINITY MAP



-77.38049, 37.19553

PHOTOGRAPHS

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