



NORFOLK

Department of Public Works, Field Engineering & Environmental Management

September 20, 2021

David Taylor
Regional MS4 Coordinator
Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

RE: VPDES Permit VA0088650

Dear Mr. Taylor:

Please find enclosed the FY2021 VPDES Annual Report for the City of Norfolk, submitted in accordance with Part I.E of the above referenced MS4 Phase I permit.

If you have any questions or need additional information, please do not hesitate to contact Casey Magruder, Environmental Programs Manager of Environmental Storm Water Management, at (757) 823-4019.

Sincerely,

Richard Broad, PE
Director of Public Works

Enclosures

**CERTIFICATION STATEMENT AND SIGNATORY REQUIREMENTS
FOR MS4 PERMIT APPLICATIONS AND REPORTS**

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board shall, be signed by a responsible official or by a duly authorized representative of that person. A responsible official is:

- 1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;*
- 2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or*
- 3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.*

A person is a duly authorized representative only if:

- 1. The authorization is made in writing by a person described above;*
- 2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and*
- 3. The written authorization is submitted to the department.*

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.



9/20/2021

Responsible Official Signature

Date

VA0088650

City of Norfolk

Permit Number

MS4 Name

THE CITY OF NORFOLK

DOCUMENT TRANSMITTAL FORM

Use for All City Documents Which Require the City Manager's Staff Approval

DS For CM Office Use Only: DTS # _____	
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*** PLEASE INDICATE IF THERE IS A LEGITIMATE DUE DATE BY WHICH THE CITY MANAGER MUST RESPOND ***

Due Date: 1/5/2020 **Return Completed Document To:** June Whitehurst, Programs Manager

DEPARTMENT

A. TO BE COMPLETED FOR CONTRACTS, AGREEMENTS, & GRANTS:

TITLE

"Duly Authorized" representative for the City of Norfolk for environmental storm water permit compliance

PARTY(Company and principal's names with which the City is entering into the agreement.)

Virginia Department of Environmental Quality (DEQ)

EFFECTIVE DATES (Start & end dates)

Proposed Dates: Jan 5, 2020 - Jan 1, 2025

TOTAL DOLLAR VALUE

N/A

FUNDING SOURCE (Operating or capital budget; budget year; grant or other source. Show account information)

SOURCE: N/A
ACCOUNT: N/A

TYPE (New or extension)

Reauthorize

SUMMARY OF SCOPE OF SERVICE/ PROGRAM

The City of Norfolk has a number of storm water permits issued by DEQ that require frequent reports and other documents be reported to the state for environmental regulatory compliance. The City Manager may elect to identify a "duly authorized representative" to sign reports and other documents requested by the State Water Control Board. It is requested that the City Manager authorize Richard Board, Director of Public Works, to be designated as the "duly authorized representative" for environmental storm water permits.

VALIDATION OF PROCUREMENT: I HEREBY CERTIFY THAT THE GOODS AND/OR SERVICES TO BE PROVIDED UNDER THIS AGREEMENT WERE PROCURED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH IN CHAPTER 33.1 OF THE NORFOLK CITY CODE.

REVIEWED BY
PURCHASING: _____

Signature

Date

N/A

B. TO BE COMPLETED FOR HUMAN RESOURCES DOCUMENTS:

TYPE OF DOCUMENT:

Letter from the City Manager to DEQ

BRIEF DESCRIPTION: The City of Norfolk has a number of storm water permits issued by DEQ that require frequent reports and other documents be reported to the state for environmental regulatory compliance. The City Manager may elect to identify a "duly authorized representative" to sign reports and other

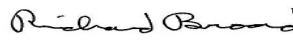


documents requested by the State Water Control Board. It is requested that the City Manager authorize Richard Board, Director of Public Works, to be designated as the “duly authorized representative” for environmental storm water permits. The letter from the City Manager to DEQ outlines the authorization.

Certificate of Satisfaction: *I (We) hereby certify that all reasonable due diligence has been performed to sufficiently develop the contents and implications of the attached document in a manner to protect and account to the public. Further, all City policies and procedures have been adhered to and therefore, I (we) recommend the City Manager execute this document.*



1/4/2021



1/4/2021

Document Owner

Date

Department Signature

Date

DS



Mercedes Braun (Initial)

Review by DCM Approve ☐ Disapprove ☐

DocuSigned by:



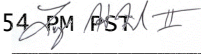
1/4/2021 | 1:54 PM PST

Deputy City Manager

Date

Review by CM Approve ☐ Disapprove ☐

DocuSigned by:



1/4/2021 | 2:00 PM PST

City Manager

Date

chief



NORFOLK

Inter Departmental Memorandum

TO:	Dr. Larry H. Filer II, City Manager
FROM:	Richard Broad, P.E., Director via Wynter Benda, Chief Deputy City Manager
COPIES TO:	Bernard Pishko, City Attorney; June Whitehurst, Programs Manager
SUBJECT:	Duly Authorized Representative – Environmental Regulatory Compliance Documentation
DATE:	December 29, 2020

As mandated by state law, 9VAC25-870-370B, all documentation required for state permit compliance shall be signed by a responsible official or duly authorized representative of that official.

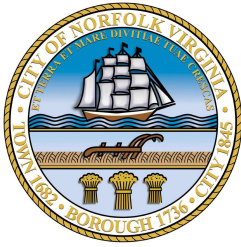
For a municipality, a responsible official is either a principal executive officer or ranking elected official. For a person to be a "duly authorized representative", the authorization must be made in writing by the responsible official and submitted to the state. It specifies the individual would have responsibility for the overall operation of the regulated facility/activity, and having overall responsibility for environmental matters.

Since Public Works is the lead department over storm water environmental regulatory requirements, I am requesting your approval to become a "duly authorized representative." This authorization will allow me to certify environmental regulatory correspondence such as reports, plans, permit applications and other supporting documentation on behalf of the City of Norfolk.

Attached for your signature is a draft letter to the Department of Environmental Quality Tidewater Regional Office noting this authorization for future environmental regulatory correspondence.

Thank you for your consideration of this request.

Richard Broad, P.E.



NORFOLK

Department of Public Works, Field Engineering & Environmental Management

January 4, 2021

Department of Environmental Quality
Tidewater Regional Office
5636 Southern Blvd.
Virginia Beach, VA 23462

RE: City of Norfolk, Duly Authorized Representative

To Whom It May Concern:

As the principal executive officer, I am approving Mr. Richard Broad, Director of Public Works to be designated as a "Duly Authorized Representative" for the City of Norfolk. This authorization will allow him to certify environmental regulatory correspondence such as reports, plans, permit applications and other supporting documentation on behalf of the City of Norfolk with regard to environmental compliance.

If you have any questions or need additional information, please do not hesitate to contact June Whitehurst, Environmental Programs Manager of Environmental Storm Water Management, at (757) 823 – 4005.

Sincerely,

DocuSigned by:

C45AA22E7D6047B...

Dr. Larry H. Filer II
City Manager

City of Norfolk Phase I MS4 Annual Report - Fiscal Year 2021

VA0088650

Permit Section	Specific Reporting Requirement and Result
Part I.A.2 (Permittee Responsibilities)	Each annual report shall include a current list of roles and responsibilities. <ul style="list-style-type: none"> See MS4 Program Plan (originally approved via letter dated August 28, 2017; most recent revision completed in December 2020) for a full list of roles and responsibilities. https://www.norfolk.gov/documentcenter/view/64009
	Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control. <ul style="list-style-type: none"> The City is required to inspect a minimum of 724,000 linear feet of sanitary sewer during the reporting year. The City inspected 543,840 linear feet during FY2021. Upon further review, it was found that the City of Norfolk's Utilities Combined Operations has continued to be impacted by COVID-19, as they had many situations where multiple personnel were out for various lengths of time due to COVID-19 related issues. In addition, the nationwide staffing shortage also negatively impacted the organization Citywide, affecting the hiring/retainment of staff, and leading to an unusually high number of vacancies. These events occurring at the same time led to continued periods of time when operations moved to addressing emergencies only.
Part I.A.4 (MS4 Program Resources)	A copy of the fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit shall be submitted with each annual report. <ul style="list-style-type: none"> See Appendix 1 for all budget information.
Part I.A.6 (MS4 Program Plan)	Upon development, the most recent MS4 Program Plan shall be posted on the permittee's website, and/or provided in another location easily accessible to the public. <ul style="list-style-type: none"> The December 2020 revision of the MS4 Program Plan is available online. https://www.norfolk.gov/documentcenter/view/64009
Part I.A.7.b (MS4 Program Updates Requested by the Department)	All modifications and proposed modifications shall be reported in accordance with this section of the permit. <ul style="list-style-type: none"> The December 2020 revision of the MS4 Program Plan is available online. https://www.norfolk.gov/documentcenter/view/64009
Part I.B.1 (Planning)	Each annual report shall include an updated project summary sheet. <ul style="list-style-type: none"> See Appendix 2.
	Each annual report shall include a current web link to the project status page. <ul style="list-style-type: none"> https://www.norfolk.gov/index.aspx?nid=3969
	Each annual report shall include a status update for those water quality projects for which implementation or construction occurred during the reporting year. <ul style="list-style-type: none"> See Appendix 2. https://www.norfolk.gov/index.aspx?nid=3969
Part I.B.2.a (Construction Site Runoff & Post Construction from Areas of New Development & Development on	Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed. <ul style="list-style-type: none"> A total of 407 land disturbing activities were approved, for a total of 156.85 disturbed acres during FY2021.
	Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken. <ul style="list-style-type: none"> A total of 5,037 Erosion & Sediment Control inspections were conducted, resulting in 34 written violations and 5 Stop Work Orders during FY2021.

Permit Section	Specific Reporting Requirement and Result																			
Prior Developed Lands)	Each annual report shall include a list of land disturbing projects that qualify under the “Grandfathering” provision of the VSMP regulations that receive coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities during the reporting period. <ul style="list-style-type: none">• NA – None during FY2021.																			
	Each annual report shall include a summary of actions taken by the permittee to implement a local E&SC program consistent with the VESC Law and regulations, and a SWM program consistent with VSWM Act and regulations. The permittee shall identify in the MS4 Program Plan all legal authorities for ESC and SWM that are more stringent than required. <ul style="list-style-type: none">• See MS4 Program Plan (https://www.norfolk.gov/documentcenter/view/64009) and City’s Design & Construction Manual (https://www.norfolk.gov/DocumentCenter/View/21350) for details.																			
Part I.B.2.b (Retrofitting on Prior Developed Lands)	Each annual report shall include a status update for those projects for which implementation began during the reporting period. <ul style="list-style-type: none">• See Appendix 2. https://www.norfolk.gov/index.aspx?nid=3969																			
	For retrofit projects that do not serve to meet the requirements of Part I.D, the permittee shall submit a summary of projects implemented during the reporting period with each annual report including type of land use being retrofitted, retrofit performed, completion date or anticipated completion date, total acreage retrofitted, total impervious and pervious acreage, and location by latitude and longitude (in decimal degrees). <ul style="list-style-type: none">• NA – All retrofit projects serve to assist in meeting the requirements of Part I.D (TMDL Action Plans and Implementation) of the MS4 permit.																			
Part I.B.2.c (Roadways)	No later than 24-months after the effective date of this state permit, the permittee shall develop and maintain an accurate list of permittee maintained roads and streets, that includes the street name, the miles of roadway not treated by BMP’s, and miles of roadway treated with BMP’s. <ul style="list-style-type: none">• Lists have been developed, are being maintained, and are available upon request.																			
	No later than 36-months after the effective date of this state permit, the permittee shall develop and implement written protocols for permittee maintained road, street, and parking lot maintenance designed to minimize pollutant discharge. The permittee shall include a copy of the written protocols...with the next annual report that is due after development of the protocols. <ul style="list-style-type: none">• See Appendix 7 for a copy of SOP 630 – Storm Water Pollution Prevention Protocol for the Maintenance of Roads, Streets and Parking Lots.																			
Part I.B.2.d (Pesticide, Herbicide, and Fertilizer Application)	Updated list of all permittee lands and applicable acreage on which nutrients are applied to more than one contiguous acre: <ul style="list-style-type: none">• See table below.																			
	Each annual report shall report on compliance with the turf and landscape nutrient management plan implementation schedule and include a list of the permittee’s properties for which turf and landscape nutrient management plans have been implemented during the reporting year and the cumulative total of acreage under turf and landscape management plans. <ul style="list-style-type: none">• Due October 1, 2020 – Not less than 75% of all identified acres will be covered by turf and landscape management plans.<ul style="list-style-type: none">➤ As of March 1, 2019, the second and final phase of Nutrient Management Plan development and implementation was completed. This accounts for 100% of all identified acres required to be covered under Nutrient Management Plans. <table><tr><th>Site</th><th>Irrigated / Non-irrigated</th><th>Sq Ft</th><th>Acres</th></tr><tr><td>Lake Taylor Soccer Field 1</td><td>Irrigated</td><td>74,339</td><td>1.70</td></tr><tr><td>Lake Taylor Soccer Field 2</td><td>Irrigated</td><td>72,601</td><td>1.67</td></tr><tr><td>Lake Taylor Soccer Field 3</td><td>Irrigated</td><td>68,158</td><td>1.56</td></tr><tr><td>Lake Taylor Soccer Field 5</td><td>Irrigated</td><td>65,221</td><td>1.50</td></tr></table>	Site	Irrigated / Non-irrigated	Sq Ft	Acres	Lake Taylor Soccer Field 1	Irrigated	74,339	1.70	Lake Taylor Soccer Field 2	Irrigated	72,601	1.67	Lake Taylor Soccer Field 3	Irrigated	68,158	1.56	Lake Taylor Soccer Field 5	Irrigated	65,221
Site	Irrigated / Non-irrigated	Sq Ft	Acres																	
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Permit Section	Specific Reporting Requirement and Result			
	Lake Taylor Soccer Field 6	Irrigated	34,597	0.79
	Lake Taylor Soccer Field 7	Irrigated	60,607	1.39
	Lake Taylor Soccer Field 9	Irrigated	77,154	1.77
	Lake Taylor Soccer Field 10	Irrigated	76,247	1.75
	Lake Taylor Soccer Field 11	Irrigated	70,354	1.62
	Lake Taylor Soccer Field 12	Irrigated	61,526	1.41
	Lake Taylor Soccer Field 13	Irrigated	35,089	0.81
	Lake Taylor Soccer Field 14	Irrigated	71,932	1.65
	Lake Taylor Soccer Field 15	Irrigated	70,291	1.61
	Norview Baseball Field	Irrigated	124,154	2.9
	Norview Softball Field	Irrigated	95,729	2.2
	Norview Stadium	Irrigated	92,631	2.1
	Booker T. Washington Stadium	Irrigated	103,390	2.4
	Blair Middle School Soccer Field	Irrigated	70,818	1.6
	Ghent Elementary School Soccer Field	Irrigated	107,415	2.5
	Northside Softball Field 1	Irrigated	90,852	2.1
	Northside Softball Field 2	Irrigated	91,004	2.1
	Northside Softball Field 3	Irrigated	91,416	2.1
	Barraud Park RBI Field	Irrigated	97,463	2.2
	Town Point Park Field 1	Irrigated	55,123	1.3
	Town Point Park Field 2	Irrigated	42,525	1.0
	Town Point Park Field 3	Irrigated	57,634	1.3
	Town Point Park Field 4	Irrigated	24,162	0.6
	Total:		1,982,432	45.6
	Each annual report shall include the number of acres managed under Integrated Pest Management Plans.			
	<ul style="list-style-type: none"> The Norfolk Department of Public Health manages and tracks the permittee lands managed under Integrated Pest Management (IPM) Plans. The City utilizes IPM to manage the mosquito and rodent populations City-wide, for a total of 66 square miles, or 42,240 acres. 			
Part I.B.2.e (Illicit Discharges and Improper Disposal)	Each annual report shall include a list of illicit discharges identified, the source, a description of follow-up activities and whether the illicit discharge has been eliminated.			
	<ul style="list-style-type: none"> See Appendix 3 for copies of all illicit discharge 5-day letters submitted to DEQ during FY2021, as well as a list of sanitary sewer overflows reported to SSORS by Public Utilities and HRSD. 			
	Each annual report shall include the amount of linear feet of sanitary sewer (a minimum of 724,000 linear feet annually) inspected during the reporting year. The City inspected 689,040 linear feet of sanitary sewer during FY2021.			
	<ul style="list-style-type: none"> The City is required to inspect a minimum of 724,000 linear feet of sanitary sewer during the reporting year. The City inspected 543,840 linear feet during FY2021. Upon further review, it was found that the City of Norfolk's Utilities Combined Operations has continued to be impacted by COVID-19, as they had many situations where multiple personnel were out for various lengths of time due to COVID-19 related issues. In addition, the nationwide staffing shortage also negatively impacted the organization Citywide, affecting the hiring/retainment of staff, and leading to an unusually high number of vacancies. These events occurring at the same time led to continued periods of time when operations moved to addressing emergencies only. 			
	Each annual report after program development shall include a list of sites surveyed for floatables, a summary of observations at each site, and a determination as to the effectiveness of the floatables program.			

Permit Section	Specific Reporting Requirement and Result
	<ul style="list-style-type: none"> This criterion is accomplished through our participation in the International Coastal Cleanup, which is conducted by registration through Virginia Clean Waterways. The International Coastal Cleanup takes place September 1st through October 31st encouraging the removal of trash from our beaches and waterways around the world. This cleanup is fueled by volunteer organizations and individuals as a means to change behavior toward cleaner, healthier waterways. Trash was collected and recorded from various sites across Norfolk, however there were fewer sites than in previous years due to COVID-19 restrictions. Keep Norfolk Beautiful maintains the ICC data sets on the City's Open Data Portal. Listing the yearly results on this platform allows the public as well as City staff to access and evaluate this data. See Appendix 4 for a detailed list of sites surveyed and items collected during Norfolk's FY2021 International Coastal Cleanup. Each year, the Community Appearance Survey, conducted by Keep Norfolk Beautiful and volunteers, measures litter to target ways to keep our city clean. Each year, a team of volunteers conducts a windshield tour of the city to assess the level of litter. It takes a day and a half to drive 12 routes in each of the city's five wards, for a total of 60. Each of the routes varies in length from half a mile to a mile. Keep Norfolk Beautiful has used the same routes for the last eleven years to create a baseline and standard for measuring litter in our city. Driving the same routes ensures consistency in measurements as well as coverage of a broad distribution of sites within the city. Again, due to COVID-19 restrictions, this program was scaled back during this fiscal year. See Appendix 4 for a detailed summary of the data from the last eleven years, and a copy of the Training Script for volunteers. Also see https://data.norfolk.gov/stories/s/Keep-Norfolk-Beautiful-Litter-Index/pwzd-ddfh/ for additional information. Spring of 2021 saw the launch of the "Love Our City" campaign. Graphics were developed and the mediums used included sidewalk decals, bus side panel posters, billboards, yard signs, banners, and special media posts. The "Green Bucket Brigade" was also launched and was geared to residents picking up trash where they live, work, and play. See Appendix 4 for examples of the graphics used and associated data files for both campaigns. <p>The permittee shall ensure the implementation of programs to collect used motor vehicle fluids (such as oil and antifreeze) and HHW waste materials for recycling, reuse, or proper disposal. Such programs shall be readily available to all private residents and shall be publicized and promoted on a regular basis not less than twice per year.</p> <ul style="list-style-type: none"> Keep Norfolk Beautiful hosts two recycling and household hazardous waste collection drives every fall and spring for Norfolk citizens to easily and safely recycle waste materials at no charge. Norfolk residents are invited to participate in the fall and spring America Recycles Day and Norfolk Recycles Day events each year. These events are an open to the public, electronics, recycling, and household hazardous waste (HHW) events. This year, the events were held at the City's Workforce Development Center and Huntersville Community Center. In partnership with Waste Management, SPSA, and Iron Mountain, the events offered Norfolk residents a one-stop location to drop unwanted items such as acceptable recyclable items. Data: <ul style="list-style-type: none"> Fall 2020 Event – America Recycles Day <ul style="list-style-type: none"> 156 Participants 3 partners involved (City of Norfolk Waste Management, SPSA, and Iron Mountain) Spring 2021 Event – Norfolk Recycles Day <ul style="list-style-type: none"> 127 Participants

Permit Section	Specific Reporting Requirement and Result
	<ul style="list-style-type: none"> ▪ 3 partners involved (City of Norfolk Waste Management, SPSA, and Iron Mountain) • See Appendix 4 for event flyers and detailed lists of items collected during FY2021.
Part I.B.2.f (Spill Prevention and Response)	<p>Each annual report shall include a list of spills, that qualify for immediate reporting as required...of this state permit, the source (identified to the best of the permittee's ability), and a description of follow-up activities taken.</p> <ul style="list-style-type: none"> • See Appendix 3 for copies of all illicit discharge 5-day letters submitted to DEQ during FY2021, as well as a list of sanitary sewer overflows reported to SSORS by Public Utilities and HRSD.
Part I.B.2.g (Industrial & High-Risk Runoff)	<p>Each annual report shall report on implementation of the inspection schedule and include a list of the facilities and/or facility outfalls inspected during the reporting period.</p> <ul style="list-style-type: none"> • See Appendix 5 for High-Risk and Industrial Outfall Inspection Program SOP and a list of facility outfalls inspected during FY2021. <p>Each annual report shall include a list of referrals to the Department, including:</p> <p>The permittee shall maintain a list of any industrial and/or commercial stormwater dischargers not regulated under the Virginia State Water Control Law that it determines may be contributing a significant pollutant loading to the MS4, report those facilities to the Department, and include the facilities outfall in the prioritized inspection schedule.</p> <ul style="list-style-type: none"> • NA – None in FY2021 <p>The permittee shall refer facilities and operations having non-stormwater discharges that do not have coverage under an existing VPDES permit.</p> <ul style="list-style-type: none"> • NA – None in FY2021 <p>The permittee shall refer facilities and operations identified...with manufacturing, processing, or raw material storage outside that do not have coverage under an existing VPDES industrial stormwater permit.</p> <ul style="list-style-type: none"> • NA – None in FY2021 <p>The permittee shall refer any VPDES industrial stormwater permit facility where there is evidence of significant pollutant loadings to the MS4.</p> <ul style="list-style-type: none"> • NA – None in FY2021 <p>The permittee shall refer facilities that do not submit signed copies of DMR's to the permittee as required under a VPDES industrial stormwater permit.</p> <ul style="list-style-type: none"> • NA – Reissuance of the VPDES Industrial Stormwater General Permit July 1, 2019 no longer requires the submission of DMR's to the MS4 permit holder.
Part I.B.2.h (Stormwater Infrastructure Management)	<p>Each annual report shall include a summary of activities performed in support of the inspections and maintenance program....The summary shall include the total number of drainage structures operated by the permittee; the total length of open conveyance that is part of the permittee's MS4; the total number of the drainage structures inspected (at least 4,060) and the total length of open conveyances inspected (at least 35,460).</p> <ul style="list-style-type: none"> • Total # Drainage Structures – 35,627 • Total Length of Open Conveyance – 353,213 linear feet • Total # Drainage Structures Inspected (at least 4,060) – 9,691 • Total Length of Open Conveyances Inspected (at least 35,460 linear ft) – 223,896 linear ft. <p>Each annual report shall provide a summary of actions taken by the permittee to address failure of privately maintained SWM facilities owners to abide by maintenance agreements.</p> <ul style="list-style-type: none"> • See Appendix 6 for Storm Water Best Management Practice Inspections SOP. Also see section 2.8 in the City's MS4 Program Plan.

Permit Section	Specific Reporting Requirement and Result
	<p>Each annual report shall include a list of activities including inspections performed and notifications of needed maintenance and repair of stormwater facilities not operated by the permittee as required....</p> <ul style="list-style-type: none"> • See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and reinspections conducted during FY2021. Also see section 2.8 in the City's MS4 Program Plan. <p>The annual report due October 1, 2021 shall include an updated number of impervious, pervious, and total acres served by the MS4 for each City of Norfolk local watershed, sixth order HUC, and Chesapeake Bay segment; and an updated number of impervious, pervious, and total acres treated by storm water controls.</p> <ul style="list-style-type: none"> • See Appendix 6.
Part I.B.2.i (City Facilities)	<p>The permittee shall develop and/or update and implement individual SWPPP's for each high-priority municipal facility...no later than 36-months after the effective date of this state permit.</p> <ul style="list-style-type: none"> • See Appendix 7 for the High Priority Municipal Yard Study. Below is a listing of all City of Norfolk facilities that have SWPPP's, and the implementation date: <ul style="list-style-type: none"> ○ Public Works Operations – November 2008 ○ Waste Management – August 2010 ○ Recreation, Parks, & Open Space – February 2016 ○ Moores Bridges WTP – June 2017 ○ 37th Street WTP – June 2017 ○ Public Utilities Combined Operations – June 2017 ○ Facilities – June 2017 ○ Fleet – June 2017 ○ School Fleet – June 2017 <p>No later than the expiration date of this state permit, the permittee shall install and maintain markings on all stormwater inlets located on high-priority municipal facilities...and on permittee properties with greater than 2-acres of impervious area.</p> <ul style="list-style-type: none"> • See Appendix 7 for a summary of the City's Storm Drain Medallion Marking Project.
Part I.B.2.j (Public Education & Participation)	<p>Each annual report shall include a list of permittee public outreach and education activities and the estimated number of individuals reached through the activities. An evaluation of program effectiveness, as outlined in the MS4 Program Plan with recommendations for future changes shall also be included.</p> <ul style="list-style-type: none"> • See Appendix 8 for a list of presentations, workshops, cleanups, beautification events, and other activities conducted by both Keep Norfolk Beautiful and the Division of Environmental Storm Water Management, as well as a copy of the Public Works Operations – Stormwater Communication Outline, the askHRGreen.org Annual Report which summarizes activities conducted at a Regional level, and the FY2021 summary of the askHRGreen.org Environmental Education Mini-Grants awarded to Norfolk Public Schools. Also see Section 2.10 in the City's MS4 Program Plan. • The City has a program that requires all residents applying for a business license for a mobile car wash to sign an application with the Division of Environmental Storm Water management. The application provides explanation of the City's code and offers options to not discharging wash water into the City's storm water system. Two business owners signed the application in FY2021. See Appendix 8 for a copy of the application and handout from the Department of City Planning outlining the requirements before issuance of a business license. <p>Each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements. Note that any voluntary project for which the permittee seeks to use for pollutant reduction requirements must be tracked and reported.</p>

Permit Section	Specific Reporting Requirement and Result												
	<ul style="list-style-type: none">During FY2021, the City’s Bay Star Home program gave away 38 rain barrels to residents, with detailed maintenance agreements signed by each recipient. The City also partners with the Elizabeth River Project (ERP) on River Star Homes. During FY21, ERP installed 3 rain gardens treating 1960 ft², 11 rain barrels treating 3,179 ft², 4 living shorelines totaling 2757 ft², 5 riparian buffer plantings totaling 5820 ft², 2 conservation landscape plantings treating 2718 ft², and 40 trees outside of other project areas. An enhanced “Scoop the Poop” campaign was conducted during the fiscal year to focus on resident’s cleaning their own backyards, as well as tree giveaways to Bay Star Homes members. Two BMP sign initiatives were completed, including educational information regarding mowing around BMP’s and not feeding the wildlife. Members also have access to free lawn soil testing to encourage proper usage of fertilizers. In addition, the City has a Fee Reduction Program (https://www.norfolk.gov/DocumentCenter/View/28851). See Appendix 8 for a list of voluntary retrofits that were approved and installed for a fee reduction. For additional information, see Section 2.10 in the City’s MS4 Program Plan.												
	<p>Each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property.</p> <ul style="list-style-type: none">See Appendix 8 for a copy of the City’s Fee Reduction Program (https://www.norfolk.gov/DocumentCenter/View/28851). Also see Section 2.8 of the City’s MS4 Program Plan.												
	<p>The permittee shall post a copy of this state permit on its web page no later than 30-days after the effective date of this permit and continue to retain a copy of the permit online for the duration of this permit.</p> <ul style="list-style-type: none">https://www.norfolk.gov/DocumentCenter/View/2994												
	<p>The permittee shall post copies of each annual report on its website no later than 30-days after the report submittal to the Department and continue to retain copies of annual reports online for the duration of this permit.</p> <ul style="list-style-type: none">The FY2020 Annual Report was posted October 19, 2020. All Annual Reports can be found at https://www.norfolk.gov/index.aspx?NID=1689. The FY2021 Annual Report will be posted on the City webpage upon submittal to the Department.												
	<p>The permittee shall post the most current MS4 Program Plan on its website no later than 30 days after approval of the MS4 Program Plan and maintain a current copy on the website. If the MS4 Program Plan is modified or revised, the updated plan shall be posted within 30 days of the revision.</p> <ul style="list-style-type: none">https://www.norfolk.gov/documentcenter/view/64009												
Part I.B.2.k (Training)	<p>Each annual report shall include a list of training events, the date and the estimated number of individuals attending each event. (The permittee shall provide biennial training to appropriate field personnel in the recognition and reporting of illicit discharges; in good housekeeping and P2 practices that are to be employed during road, street, and parking lot maintenance, in and around permittee maintenance and public works facilities, and recreation facilities.)</p> <table><tr><th>Date</th><th>Dept/Div Reached</th><th># Attending</th><th>Topics</th></tr><tr><td>May 2021</td><td>Public Works – Streets & Bridges; Public Works – Storm Water</td><td>128</td><td>IDDE, spill response, good housekeeping, pollution prevention</td></tr><tr><td>May 2021</td><td>Recreation, Parks, & Open Spaces</td><td>83</td><td>SWPPP, IDDE, spill response, good housekeeping, pollution prevention</td></tr></table>	Date	Dept/Div Reached	# Attending	Topics	May 2021	Public Works – Streets & Bridges; Public Works – Storm Water	128	IDDE, spill response, good housekeeping, pollution prevention	May 2021	Recreation, Parks, & Open Spaces	83	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
Date	Dept/Div Reached	# Attending	Topics										
May 2021	Public Works – Streets & Bridges; Public Works – Storm Water	128	IDDE, spill response, good housekeeping, pollution prevention										
May 2021	Recreation, Parks, & Open Spaces	83	SWPPP, IDDE, spill response, good housekeeping, pollution prevention										

Permit Section	Specific Reporting Requirement and Result			
	May 2021	School Fleet	11	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	May 2021	Moore's Bridges Water Treatment Plant	47	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	May & June 2021	Kristen M. Lentz Water Treatment Plant	15	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	June 2021	Norfolk Public Schools – Janitorial Staff	86	Spill response, good housekeeping, pollution prevention
	June 2021	Division of Waste Management	79	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	June 2021	Fleet	7	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	June 2021	Facilities	69	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
	June 2021	Public Utilities – Combined Utilities	105	SWPPP, IDDE, spill response, good housekeeping, pollution prevention
<p>The annual report due October 1, 2017 shall include documentation of employee emergency spill response training and/or certification.</p> <ul style="list-style-type: none"> HazMat Operations/OSHA Level II 8-hour training was conducted September 28, 2020 and reached a total of 65 staff. See Appendix 9 for roster. 				
<p>The permittee shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified per the Virginia Pesticide Control Act.</p> <ul style="list-style-type: none"> See Section 2.11 in the City's MS4 Program Plan. 				
<p>The permittee shall have a program to ensure that City plan reviewers, inspectors, program administrators and construction site operators employed or contracted by the permittee (e.g. RLD) are trained and obtain the appropriate certifications to the extent required under the Virginia Erosion and Sediment Control Law and attendant regulations.</p> <ul style="list-style-type: none"> See Section 2.11 in the City's MS4 Program Plan. 				
<p>The permittee shall have a program to ensure that the applicable City employees obtain the appropriate certifications as required under the Virginia Stormwater Management Act and its attendant regulations to implement the modified stormwater management design criteria.</p> <ul style="list-style-type: none"> See Section 2.11 in the City's MS4 Program Plan. 				

Permit Section	Specific Reporting Requirement and Result
Part I.B.2.l (Dry Weather Screening Program)	<p>Each annual report shall include the total number of outfalls included as part of the permittee's MS4, the number of stations screened during the reporting period (minimum of 50), a list of locations upon which dry weather screening was conducted, the results and any follow-up actions including a summary of each investigation conducted by the operator of any suspected illicit discharge. The summary shall include: (i) the date that the suspected discharge was observed; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigations was closed.</p> <ul style="list-style-type: none"> • See Appendix 10 for list.
Part I.B.2.m (Infrastructure Coordination)	<p>The permittee shall coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity. As part of its Annual Report, the permittee shall document coordination efforts with VDOT that occurred during the reporting year regarding: mapping, Chesapeake Bay TMDL Action Plans, other TMDL Action Plans, credit for TMDL implementation, IDDE, and water quality monitoring.</p> <ul style="list-style-type: none"> • A Regional VDOT MS4 Coordination Meeting was held May 20, 2021. See Appendix 11 for detailed copies of the meeting minutes and agenda.
Part I.C.1 (In-System/Wet Weather Monitoring)	<p>Each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data.</p> <ul style="list-style-type: none"> • See Appendix 12 for a copy of the Annual Report for the Regional In-system Wet Weather Stormwater Monitoring Program.
Part I.C.2 (Street Sweeping Program Monitoring)	<p>No later than twelve (12) months after permit effective date, the permittee shall submit to the Department the list of sites to be monitored, the methodology and the monitoring protocols. The monitoring protocols shall be incorporated into the MS4 Program Plan.</p> <ul style="list-style-type: none"> • Street Sweeping Monitoring Plan submitted to DEQ June 28, 2017.
	<p>Each subsequent annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.</p> <ul style="list-style-type: none"> • See Appendix 13 for the Norfolk Street Sweeping Monitoring Study – Final Report.
	<p>Final results and analyses shall be submitted with the permit application for the reissuance of this state permit due 180 days prior to the permit's expiration date.</p> <ul style="list-style-type: none"> • The Norfolk Street Sweeping Monitoring Study – Final Report was submitted to DEQ with the City's permit reapplication package on December 29, 2020. The City has continued to collect samples in an effort to gather additional data for operational purposes and to obtain more representative sample data.
Part I.C.3 (Structural and Source Controls Compliance Monitoring and Tracking)	<p>The permittee shall maintain an updated electronic database of all known permittee and privately maintained stormwater management (SWM) facilities. Each annual report shall include a copy of the updated database in electronic format of all SWM facilities brought online during each reporting year.</p> <ul style="list-style-type: none"> • See Appendix 6 for a list of all SWM facilities brought online during each reporting year, up to and through FY2021.
	<p>Each annual report shall include a summary of actions taken by the permittee to ensure maintenance of private stormwater management facilities.</p> <ul style="list-style-type: none"> • See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and reinspections conducted during FY2021. Also see section 2.8 in the City's MS4 Program Plan.
	<p>Each annual report shall include a summary of the program to ensure maintenance of stormwater management facilities maintained by the permittee.</p> <ul style="list-style-type: none"> • See Appendix 6 for Storm Water Best Management Practice Inspections SOP and a comprehensive list of private and public SWMF inspections and reinspections conducted during FY2021. Also see section 2.8 in the City's MS4 Program Plan.

Permit Section	Specific Reporting Requirement and Result
Part I.D.1.b) & d) (Chesapeake Bay Watershed TMDL Planning & Annual Reporting Requirements)	<p>No later than 24- months after the effective date of this state permit, the permittee shall develop and submit to the Department for its review and approval a phased Chesapeake Bay TMDL Action Plan.</p> <ul style="list-style-type: none"> Submitted June 29, 2018.
	<p>Each subsequent annual report shall include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for TN, TP, and TSS.</p> <ul style="list-style-type: none"> See Appendix 14.
	<p>Each subsequent annual report shall include a list of control measures that were implemented during the reporting cycle and the estimated reduction achieved by the control. For stormwater management controls, the report shall include...whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used.</p> <ul style="list-style-type: none"> See Appendix 14.
	<p>Each annual report shall include a list of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for TN, TP, and TSS.</p> <ul style="list-style-type: none"> See Appendix 14.
	<p>The permittee shall include the following as part of its reapplication package: (a) documentation that sufficient control measures have been implemented (or documentation detailing that implementation will be complete by the expiration date of this state permit) to meet the compliance target identified in this Special Condition, and (b) a draft second phase Chesapeake Bay TMDL Action Plan.</p> <ul style="list-style-type: none"> This information was submitted to DEQ with the City's permit reapplication package on December 29, 2020.
Part I.D.2 (TMDL Action Plans other than the Chesapeake Bay TMDL)	<p>No later than 24 months after the effective date of this state permit, the permittee shall submit to the Department TMDL Action Plans to address any new or modified requirements established under this Special Condition for pollutants identified in TMDL wasteload allocations approved prior to the effective date of this permit.</p> <ul style="list-style-type: none"> Elizabeth River TMDL Action Plan was submitted June 29, 2018. Per DEQ's request, the Action Plan was revised and resubmitted July 24, 2018.
	<p>The permittee shall submit the required TMDL Action Plans to the Department for review and acceptance with the appropriate annual report associated schedule identified in this permit.</p> <ul style="list-style-type: none"> Elizabeth River TMDL Action Plan was submitted June 29, 2018. Per DEQ's request, the Action Plan was revised and resubmitted July 24, 2018.
	<p>The permittee shall report on the implementation of the TMDL Action Plans and associated evaluation including the results of any monitoring conducted as part of the evaluation.</p> <ul style="list-style-type: none"> See Appendix 15.
	<p>The permittee shall identify the best management practices and other steps that will be implemented during the next permit term as part of the permittee's reapplication for coverage as required. The permittee shall also evaluate and modify the estimated end date for achieving the applicable wasteload based on information acquired during the permit cycle.</p> <ul style="list-style-type: none"> This information was submitted to DEQ with the City's permit reapplication package on December 29, 2020.

Capital Improvement Plan



FY 2022 - FY 2026 Capital Improvement Plan

Project Title	Fund	Pg	Originally Planned	Adopted	Planned				Total
			FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
Improve Cemeteries Infrastructure	CP	471	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Improve Cultural Facilities	CP	472	500,000	275,000	500,000	1,000,000	1,000,000	1,000,000	3,775,000
Improve Harbor Park	CP	473	165,000	165,000	-	-	-	-	165,000
Improve the Nauticus Facility	CP	474	1,000,000	2,500,000	1,000,000	1,000,000	1,000,000	1,000,000	6,500,000
Maintain USS Wisconsin BB-64	CP	475	500,000	600,000	850,000	600,000	600,000	850,000	3,500,000
Renovate Chrysler Hall	CP	476	-	-	50,000,000	5,000,000	-	-	55,000,000
Support Citywide Public Art	CP	477	250,000	350,000	250,000	250,000	250,000	250,000	1,350,000
Subtotal Cultural Facilities			4,165,000	5,640,000	54,350,000	9,600,000	4,600,000	4,850,000	79,040,000
Neighborhood Development									
Acquisition and Demolition of Blighted Properties in Willoughby	CP	481	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000
Construct the Blue/Greenway in St. Paul's Area	SW	482	6,000,000	6,000,000	6,000,000	-	-	-	12,000,000
Convert Street Lights to LED	CP	483	100,000	100,000	125,000	150,000	175,000	175,000	725,000
Design Berkley Square Complex	CP	484	-	1,000,000	-	-	-	-	1,000,000
Improve Citywide Dredging and Waterways	CP	485	150,000	150,000	150,000	150,000	150,000	150,000	750,000
Improve East Ocean View Drainage	SW	486	2,000,000	2,000,000	2,700,000	3,100,000	2,000,000	-	9,800,000
Improve Glenrock Drainage	SW	487	1,400,000	1,400,000	1,600,000	1,900,000	2,300,000	-	7,200,000
Improve Glenwood Park Drainage	SW	488	1,900,000	1,900,000	1,600,000	-	-	-	3,500,000
Improve Neighborhood Streets	CP	489	550,000	550,000	550,000	550,000	550,000	550,000	2,750,000

FY 2022 - FY 2026 Capital Improvement Plan

Project Title	Fund	Pg	Originally Planned	Adopted	Planned				Total
			FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
Improve Newport Avenue (Talbot Hall) Drainage	SW	490	300,000	300,000	400,000	-	-	-	700,000
Improve Overbrook/Coleman Place Drainage	SW	491	2,000,000	2,000,000	2,000,000	2,000,000	2,200,000	-	8,200,000
Improve Park Place Drainage	SW	492	-	-	-	2,000,000	1,950,000	2,000,000	5,950,000
Improve Road Infrastructure in St. Paul's Area	CP	493	4,000,000	10,000,000	-	-	-	-	10,000,000
Improve Storm Water Infrastructure in St. Paul's Area	SW	494	500,000	5,000,000	-	-	-	-	5,000,000
Improve Street Lights	CP	495	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Improve the Art District Streetscapes	CP	496	-	-	2,500,000	2,350,000	-	-	4,850,000
Improve Wastewater Infrastructure in St. Paul's Area	SF	497	2,000,000	2,000,000	2,000,000	500,000	-	-	4,500,000
Improve Water Infrastructure in St. Paul's Area	WF	498	2,000,000	350,000	-	-	-	-	350,000
Rehabilitate Tidewater Drive Pump Station	SW	499	-	-	-	600,000	600,000	-	1,200,000
Revitalize St. Paul's Community	CP	500	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
Strengthening Neighborhoods through Affordable Housing Initiatives	CP	501	1,750,000	1,750,000	1,750,000	1,750,000	-	-	5,250,000
Support Blue/Greenway Amenities in St. Paul's Area	CP	502	-	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Support Elizabeth River Trail Capital Campaign	CP	503	250,000	250,000	-	-	-	-	250,000
Upgrade the Monticello Avenue Pump Station	SW	504	600,000	600,000	600,000	-	-	-	1,200,000

FY 2022 - FY 2026 Capital Improvement Plan

Project Title			Fund	Pg	Originally Planned	Adopted	Planned				Total
					FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
Subtotal Neighborhood Development					28,800,000	39,650,000	26,275,000	19,350,000	14,225,000	7,175,000	106,675,000
Public Buildings											
Implement Fire-Rescue Facility Plan	CP	507	-	-	-	-	-	-	6,500,000	6,500,000	
Improve and Maintain the Zoo	CP	508	560,000	560,000	-	-	-	-	-	560,000	
Maintain Fire Stations	CP	509	500,000	500,000	500,000	500,000	500,000	500,000	-	2,000,000	
Maintain Municipal Facilities	CP	510	3,500,000	3,500,000	4,000,000	4,500,000	5,000,000	5,000,000	5,000,000	22,000,000	
Maintain Parking Facilities	PF	511	1,450,000	-	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	10,000,000	
Refurbish Main Street Garage Elevators	PF	512	600,000	600,000	-	-	-	-	-	600,000	
Refurbish Town Point Garage Elevators	PF	513	850,000	850,000	-	-	-	-	-	850,000	
Support Jail Improvements	CP	514	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000	
Upgrade Security at City Facilities	CP	515	500,000	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000	
Subtotal Public Buildings					8,260,000	6,810,000	7,800,000	8,300,000	8,800,000	14,800,000	46,510,000
Parks & Recreation Facilities											
Design a Combination Recreation and Library Facility at NFWC	CP	519	-	4,000,000	-	-	-	-	-	4,000,000	
Implement RPOS Master Plan	CP	520	500,000	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000	
Improve Boat Ramps Citywide	CP	521	-	900,000	-	-	-	-	-	900,000	
Improve Community and Neighborhood Parks	CP	522	250,000	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000	
Improve Existing Community Centers	CP	523	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,000,000	

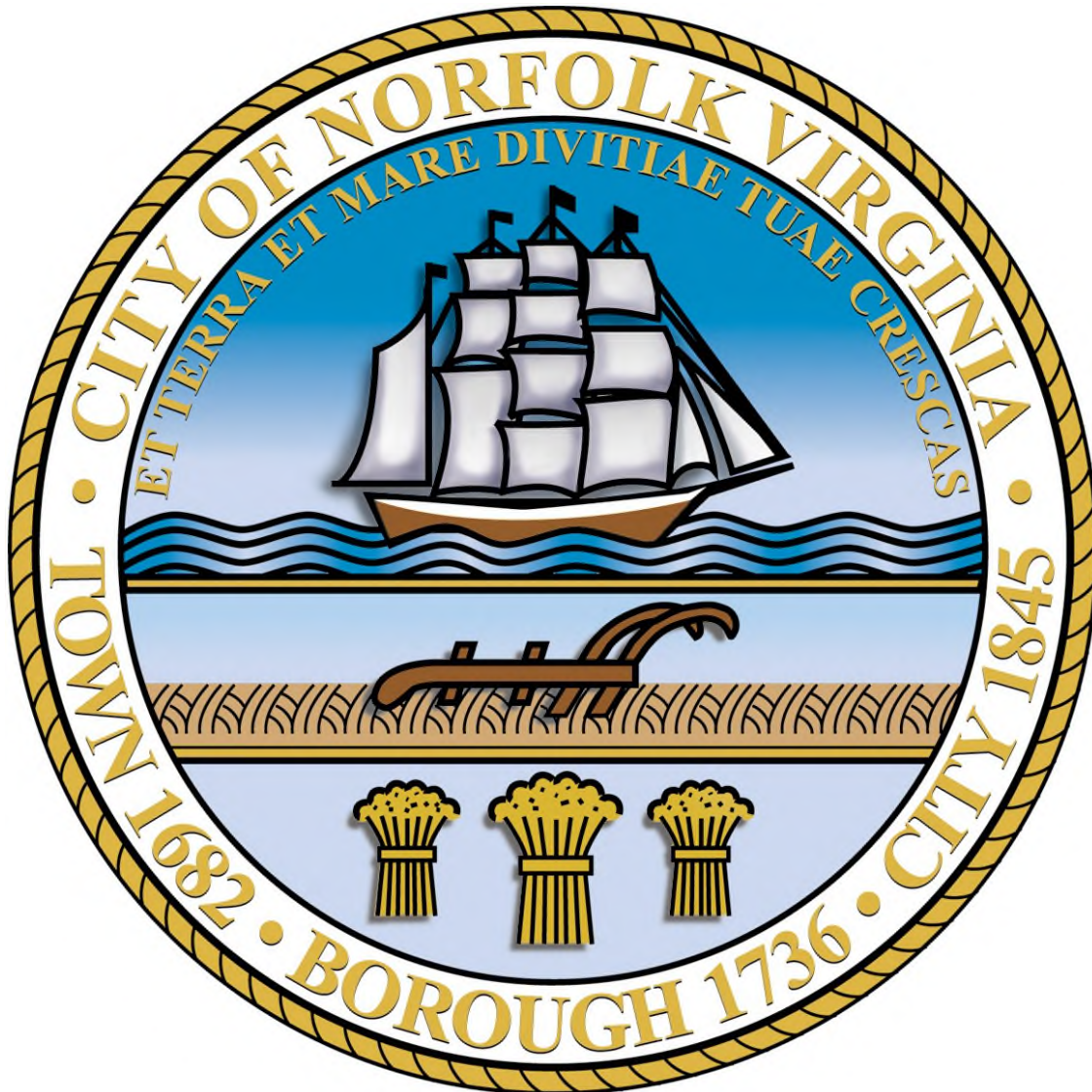
FY 2022 - FY 2026 Capital Improvement Plan

Project Title	Fund	Pg	Originally Planned	Adopted	Planned				Total
			FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
Provide funds to Southside Boys & Girls Club for facility improvements	CP	524	-	1,500,000	-	-	-	-	1,500,000
Subtotal Parks & Recreation Facilities			950,000	7,350,000	950,000	950,000	950,000	950,000	11,150,000
Environmental Sustainability									
Conduct Drainage Studies Citywide	SW	527	-	-	500,000	-	-	-	500,000
Conduct Outfall Maintenance and Dredging	SW	528	750,000	750,000	450,000	950,000	1,000,000	-	3,150,000
Conduct Sliplining and Major Repairs to Existing Infrastructure	SW	529	1,200,000	1,200,000	1,200,000	1,200,000	1,000,000	-	4,600,000
Construct Park along East Water Street	CP	530	-	500,000	-	-	-	-	500,000
Control Beach Erosion	CP	531	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Create Citywide Flooding Reserve	SW	532	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
Implement Pond Retrofits Citywide	SW	533	1,290,000	2,050,000	1,700,000	1,550,000	500,000	1,000,000	6,800,000
Implement Shoreline Restoration	SW	534	960,000	200,000	550,000	700,000	1,750,000	1,250,000	4,450,000
Implement the Green Infrastructure Plan	SW	535	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Improve Duffys Lane Outfall Extension	SW	536	500,000	500,000	-	-	-	-	500,000
Improve Selby Place Outfall Extension	SW	537	-	-	500,000	-	-	-	500,000
Improve Storm Water Waterfront Facilities	SW	538	-	-	-	500,000	500,000	500,000	1,500,000
Raise the Downtown Floodwall	SW	539	8,000,000	8,000,000	8,000,000	-	-	-	16,000,000
Support Beach Renourishment	CP	540	-	6,493,000	-	-	-	-	6,493,000
Subtotal Environmental Sustainability			15,115,200	22,108,200	15,315,200	7,315,200	7,165,200	5,165,200	57,069,000

FY 2022 - FY 2026 Capital Improvement Plan

Project Title	Fund	Pg	Originally	Adopted	Planned				Total
			FY 2022	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	
Storm Water									
Implement Flood Mitigation at Cambridge Crescent and Carroll Place	CP	543	-	1,150,000	-	-	-	-	1,150,000
Subtotal Storm Water			-	1,150,000	-	-	-	-	1,150,000
Wastewater									
Improve Larchmont Wastewater Infrastructure	SF	547	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	-	6,000,000
Improve Wastewater Collection System	SF	548	12,000,000	13,500,000	13,500,000	15,000,000	15,500,000	17,000,000	74,500,000
Subtotal Wastewater			13,500,000	15,000,000	15,000,000	16,500,000	17,000,000	17,000,000	80,500,000
Water									
Replace Lake Smith Culvert	WF	551	-	6,000,000	-	-	-	-	6,000,000
Replace Raw and Finished Water Transmission / Distribution	WF	552	13,800,000	14,850,000	16,100,000	14,700,000	18,700,000	18,050,000	82,400,000
Support Watershed Management	WF	553	6,200,000	3,000,000	4,150,000	1,250,000	1,100,000	800,000	10,300,000
Upgrade Billing System	WF	554	-	-	2,000,000	-	-	-	2,000,000
Upgrade Water Treatment Plants	WF	555	11,500,000	12,000,000	13,500,000	16,000,000	15,000,000	15,000,000	71,500,000
Subtotal Water			31,500,000	35,850,000	35,750,000	31,950,000	34,800,000	33,850,000	172,200,000
General & Other									
Acquire Fleet Vehicles and Equipment	CP	559	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	20,000,000
Acquire Technology	CP	560	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	4,000,000	20,000,000
Design and Construct Regional Fiber Ring	CP	561	-	-	-	-	5,000,000	-	5,000,000
Improve Infrastructure and Acquire Property	CP	562	1,000,000	2,500,000	1,500,000	1,500,000	1,500,000	500,000	7,500,000

Neighborhood Development



Acquisition and Demolition of Blighted Properties in Willoughby

Department	Project Description
NRHA	Provide funds for the improvement of Willoughby housing. Activities may include the acquisition of blighted properties, renovations, and improvements that help to revitalize the Willoughby neighborhood.
Fund	
General Capital	
Account #	
4000 18 4232	
Property Address:	
Willoughby Neighborhood	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input type="checkbox"/> City Services <input type="checkbox"/>	
Educational Community <input type="checkbox"/> Tourists/Visitors <input type="checkbox"/>	

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	200,000	200,000	200,000	200,000	200,000	1,000,000
FY 2021 Adopted	0	200,000	200,000	200,000	200,000	N/A	800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	200,000	200,000	200,000	200,000	200,000	1,000,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	200,000	200,000	200,000	200,000	200,000	1,000,000

Prior Capital Funding	600,000
FY 2022 Adopted	200,000
Capital Share Remaining	800,000
Project Total	1,600,000



Construct the Blue/Greenway in St. Paul's Area

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4311

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☐ City Services ☐

Educational Community ☐ Tourists/Visitors ☐

Project Description

Provide funds to construct the Blue/Greenway in the St. Paul's Area. Funds will be used for the redevelopment of approximately 26 acres of public housing and other properties into an aesthetic open space designed to treat and store storm water runoff during storm events. This transformation will create a water eco-center comprised of parks, green spaces, and a dynamic living laboratory. This project is a new project that was previously planned under "Improve Storm Water Infrastructure in St. Paul's Area."

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	6,000,000	6,000,000	N/A	N/A	N/A	12,000,000
FY 2021 Adopted	800,000	6,000,000	6,000,000	0	0	N/A	12,800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	6,000,000	6,000,000	0	0	0	12,000,000
Total	N/A	6,000,000	6,000,000	0	0	0	12,000,000

Prior Capital Funding	800,000
FY 2022 Adopted	6,000,000
Capital Share Remaining	6,000,000
Project Total	12,800,000



Convert Street Lights to LED

Department

Transit

Fund

General Capital

Account

4000 45 4277

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to replace street lights with light emitting diode (LED) lights. LED lights will result in lower electricity costs and better lighting. This project is cash funded as a revolving fund. As LED lights are installed, the electricity savings will be used to replace more light fixtures.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	100,000	125,000	150,000	175,000	175,000	725,000
FY 2021 Adopted	0	100,000	125,000	150,000	175,000	N/A	550,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	100,000	125,000	150,000	175,000	175,000	725,000
Total	N/A	100,000	125,000	150,000	175,000	175,000	725,000

Prior Capital Funding	75,000
FY 2022 Adopted	100,000
Capital Share Remaining	625,000
Project Total	800,000



Design Berkley Square Complex

Department

Executive

Fund

General Capital

Account

4000 02 4335

Property Address:

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to design the Berkley Square Complex. This project is envisioned to serve as a community hub and a catalyst for new commercial and residential development.

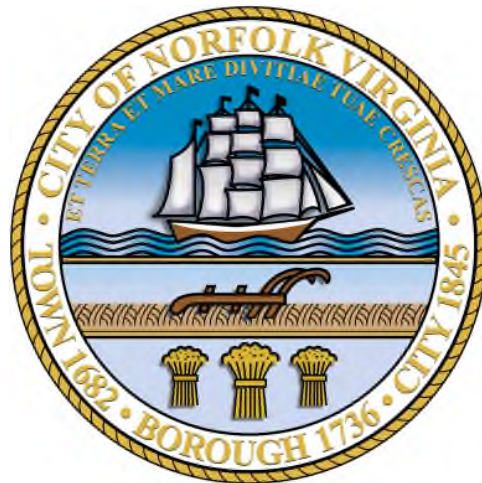
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,000,000	N/A	N/A	N/A	N/A	1,000,000
FY 2021 Adopted	0	0	0	0	0	N/A	0
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	1,000,000	0	0	0	0	1,000,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	1,000,000	0	0	0	0	1,000,000

Prior Capital Funding	0
FY 2022 Adopted	1,000,000
Capital Share Remaining	0
Project Total	1,000,000



Improve Citywide Dredging and Waterways

Department

Public Works

Fund

General Capital

Account

4000 10 3080

Property Address:

Citywide

Customers Served

Residents ☒ Business ☐ City Services ☐

Educational Community ☐ Tourists/Visitors ☒

Project Description

Provide funds for the dredging and improvement of waterways and adjacent shorelines. Funding includes support for design and maintenance dredging of existing channels.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	150,000	150,000	150,000	150,000	150,000	750,000
FY 2021 Adopted	0	150,000	150,000	150,000	150,000	N/A	600,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	50,000	50,000	50,000	50,000	50,000	250,000
Construction/FFE	N/A	100,000	100,000	100,000	100,000	100,000	500,000
Total	N/A	150,000	150,000	150,000	150,000	150,000	750,000

Prior Capital Funding	5,410,000
FY 2022 Adopted	150,000
Capital Share Remaining	600,000
Project Total	6,160,000



Improve East Ocean View Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4308

Property Address:

East Ocean View

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to improve drainage in the East Ocean View area. The current system is rudimentary and undersized. The new system will add storm water infrastructure to manage a 10-year storm event.

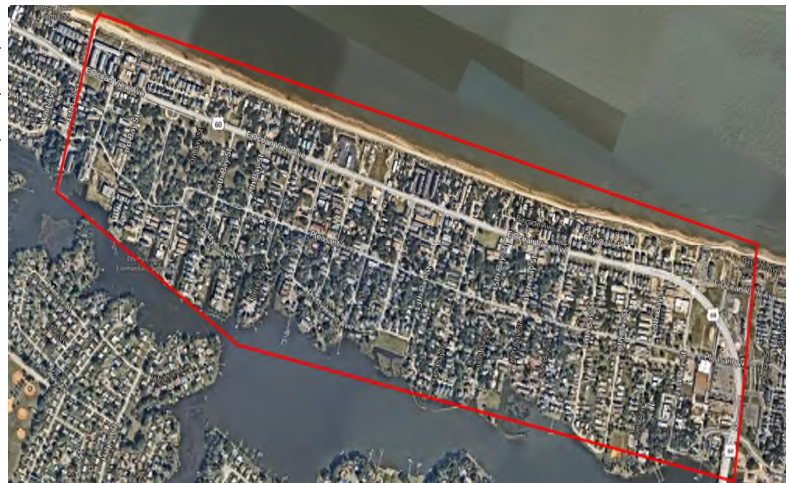
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	2,000,000	2,700,000	3,100,000	2,000,000	N/A	9,800,000
FY 2021 Adopted	2,000,000	2,000,000	2,700,000	3,100,000	2,000,000	N/A	11,800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	2,000,000	2,700,000	3,100,000	2,000,000	0	9,800,000
Total	N/A	2,000,000	2,700,000	3,100,000	2,000,000	0	9,800,000

Prior Capital Funding	2,000,000
FY 2022 Adopted	2,000,000
Capital Share Remaining	7,800,000
Project Total	11,800,000



Improve Glenrock Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4309

Property Address:

Glenrock

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to improve drainage in the Glenrock area. This project will add storm water pipes and inlets to manage a 10-year storm event.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,400,000	1,600,000	1,900,000	2,300,000	N/A	7,200,000
FY 2021 Adopted	1,000,000	1,400,000	1,600,000	1,900,000	2,300,000	N/A	8,200,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	1,400,000	1,600,000	1,900,000	2,300,000	0	7,200,000
Total	N/A	1,400,000	1,600,000	1,900,000	2,300,000	0	7,200,000

Prior Capital Funding	1,000,000
FY 2022 Adopted	1,400,000
Capital Share Remaining	5,800,000
Project Total	8,200,000



Improve Glenwood Park Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4302

Property Address:

Glenwood Park

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to improve drainage in the Glenwood Park area. Funds will be used for neighborhood flood mitigation to address various drainage system improvements. Funding will allow for infrastructure improvements to better mitigate issues from precipitation and tidal flooding.

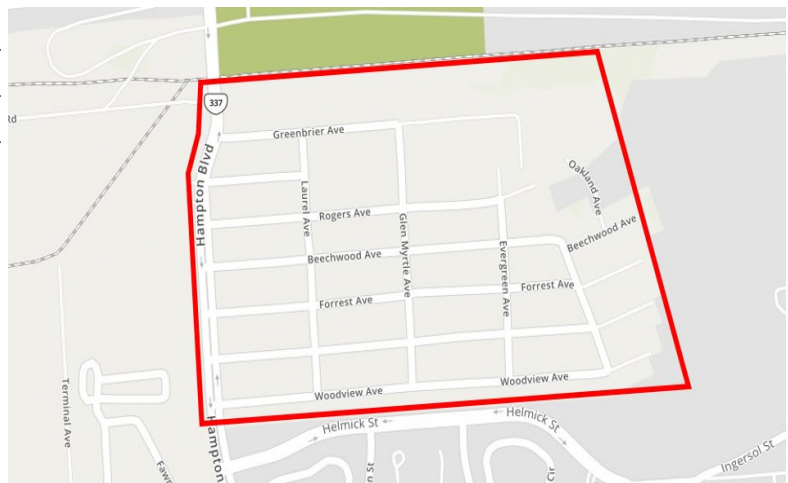
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,900,000	1,600,000	N/A	N/A	N/A	3,500,000
FY 2021 Adopted	500,000	1,900,000	1,600,000	0	0	N/A	4,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	1,900,000	1,600,000	0	0	0	3,500,000
Total	N/A	1,900,000	1,600,000	0	0	0	3,500,000

Prior Capital Funding	500,000
FY 2022 Adopted	1,900,000
Capital Share Remaining	1,600,000
Project Total	4,000,000



Improve Neighborhood Streets

Department

Public Works

Fund

General Capital

Account

4000 10 3031

Property Address:

Citywide

Customers Served

Residents ☒ Business ☐ City Services ☒

Educational Community ☐ Tourists/Visitors ☐

Project Description

Provide funds for the installation of new curbs, gutters, sidewalks, resurfacing, and drainage improvements in various neighborhood locations in accordance with prioritized needs and the city's Complete Streets Initiative. The Complete Streets Initiative promotes safe access for pedestrians, bicyclists, motorists, and transit users of all ages and abilities.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	550,000	550,000	550,000	550,000	550,000	2,750,000
FY 2021 Adopted	0	550,000	550,000	550,000	550,000	N/A	2,200,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	50,000	50,000	50,000	50,000	50,000	250,000
Construction/FFE	N/A	500,000	500,000	500,000	500,000	500,000	2,500,000
Total	N/A	550,000	550,000	550,000	550,000	550,000	2,750,000

Prior Capital Funding	10,621,000
FY 2022 Adopted	550,000
Capital Share Remaining	2,200,000
Project Total	13,371,000



Improve Newport Avenue (Talbot Hall) Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4322

Property Address:

Talbot Hall

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to support drainage improvements along Newport Avenue in the Talbot Hall area. This project will correct a flooding issue by increasing the size of storm water pipes along with outfall improvements.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	300,000	400,000	N/A	N/A	N/A	700,000
FY 2021 Adopted	0	300,000	400,000	0	0	N/A	700,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	300,000	400,000	0	0	0	700,000
Total	N/A	300,000	400,000	0	0	0	700,000

Prior Capital Funding	0
FY 2022 Adopted	300,000
Capital Share Remaining	400,000
Project Total	700,000



Improve Overbrook/Coleman Place Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4301

Property Address:

Overbrook/Coleman Place

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to improve the drainage in the Overbrook/Coleman Place area. Funds will be used for neighborhood flood mitigation to address various drainage system improvements. Funds will provide new inlets and large conduits to convey storm water to better mitigate issues caused by precipitation and flooding.

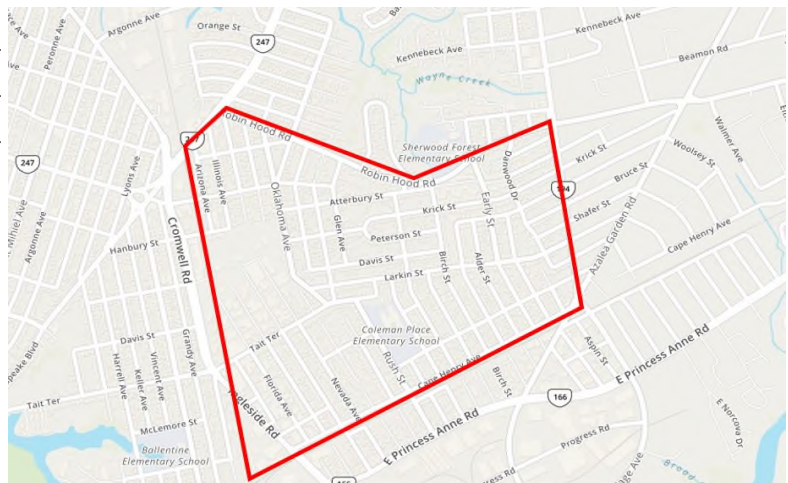
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	2,000,000	2,000,000	2,000,000	2,200,000	N/A	8,200,000
FY 2021 Adopted	2,000,000	2,000,000	2,000,000	2,000,000	2,200,000	N/A	10,200,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	200,000	200,000	200,000	200,000	0	800,000
Construction/FFE	N/A	1,800,000	1,800,000	1,800,000	2,000,000	0	7,400,000
Total	N/A	2,000,000	2,000,000	2,000,000	2,200,000	0	8,200,000

Prior Capital Funding	2,000,000
FY 2022 Adopted	2,000,000
Capital Share Remaining	6,200,000
Project Total	10,200,000



Improve Park Place Drainage

Department

Storm Water Utility

Fund

Storm Water Utility

Account

N/A

Property Address:

Park Place

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to support drainage improvements in the Park Place area. Funds will be used to add piping and inlets that will improve the storm water collection and conveyance.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	N/A	2,000,000	1,950,000	2,000,000	5,950,000
FY 2021 Adopted	0	0	0	2,000,000	1,950,000	N/A	3,950,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

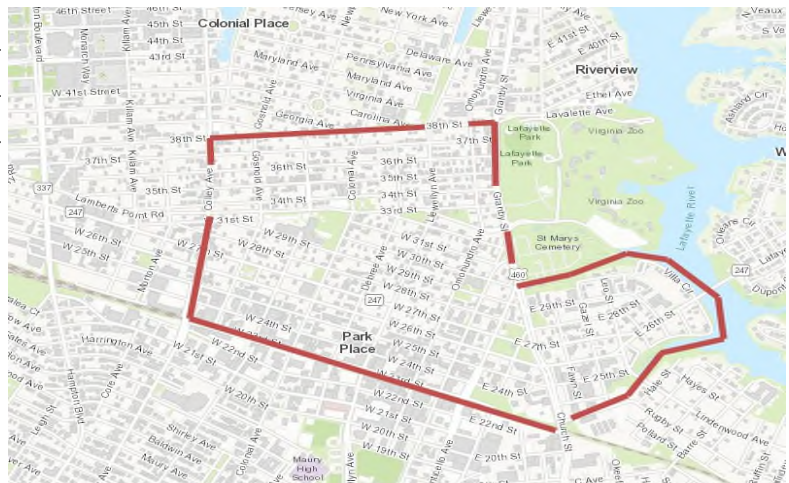
	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	200,000	0	0	200,000
Construction/FFE	N/A	0	0	1,800,000	1,950,000	2,000,000	5,750,000
Total	N/A	0	0	2,000,000	1,950,000	2,000,000	5,950,000

Prior Capital Funding 0

FY 2022 Adopted 0

Capital Share Remaining 5,950,000

Project Total 5,950,000



Improve Road Infrastructure in St. Paul's Area

Department	Project Description
Transit	Provide funds to improve road infrastructure in the St. Paul's area. The improved road network will enable safe access for all users including pedestrians, bicyclists, automobiles, and transit riders. The road networks will better connect the St. Paul's area to downtown and the waterfront. The project will help provide the road infrastructure required to transform the St. Paul's area into a multi-use, mixed-income development in order to deconcentrate poverty and enact place-based initiatives.
Fund	
General Capital	
Account #	
4000 45 4271	
Property Address:	
St. Paul's Area	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/>	
Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input type="checkbox"/>	

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	10,000,000	N/A	N/A	N/A	N/A	10,000,000
FY 2021 Adopted	4,000,000	4,000,000	3,000,000	3,000,000	0	N/A	14,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	10,000,000	0	0	0	0	10,000,000
Total	N/A	10,000,000	0	0	0	0	10,000,000

Prior Capital Funding	6,000,000
FY 2022 Adopted	10,000,000
Capital Share Remaining	0
Project Total	16,000,000



Improve Storm Water Infrastructure in St. Paul's Area

Department

Storm Water Utility

Fund

Storm Water Utility

Account

4000 35 4274

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☒ City Services ☐

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to improve storm water infrastructure in the St. Paul's area. The project will add storm water collection and conveyance infrastructure in the existing and new street network. The project will mitigate precipitation flooding in the area.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	5,000,000	N/A	N/A	N/A	N/A	5,000,000
FY 2021 Adopted	1,000,000	500,000	500,000	500,000	300,000	N/A	2,800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	5,000,000	0	0	0	0	5,000,000
Total	N/A	5,000,000	0	0	0	0	5,000,000

Prior Capital Funding	4,000,000
FY 2022 Adopted	5,000,000
Capital Share Remaining	0
Project Total	9,000,000



Improve Street Lights

Department

Transit

Fund

General Capital

Account

4000 45 3024

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to repair, expand, and improve the city's roadway lighting infrastructure, and maintain public safety through efficient maintenance and improvement.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	100,000	100,000	100,000	100,000	100,000	500,000
FY 2021 Adopted	0	100,000	100,000	100,000	100,000	N/A	400,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	100,000	100,000	100,000	100,000	100,000	500,000
Total	N/A	100,000	100,000	100,000	100,000	100,000	500,000

Prior Capital Funding	2,763,500
FY 2022 Adopted	100,000
Capital Share Remaining	400,000
Project Total	3,263,500



Improve the Art District Streetscapes

Department	Project Description
Transit	Provide funds for engineering, design, and construction for the updated streetscape on Granby Street from Brambleton Ave to Virginia Beach Blvd.
Fund	
General Capital	
Account #	
N/A	
Property Address:	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input type="checkbox"/>	
Educational Community <input type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	2,500,000	2,350,000	N/A	N/A	4,850,000
FY 2021 Adopted	0	0	0	0	0	N/A	0
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	40,000	0	0	0	0	40,000
Construction/FFE	N/A	1,460,000	2,500,000	2,350,000	0	0	6,310,000
Total	N/A	1,500,000	2,500,000	2,350,000	0	0	6,350,000

Prior Capital Funding	0
FY 2022 Adopted	0
Capital Share Remaining	4,850,000
Project Total	4,850,000



Improve Wastewater Infrastructure in St. Paul's Area

Department

Wastewater Utility

Fund

Wastewater Utility

Account

5200 34 4267

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to improve and expand the wastewater infrastructure in the St. Paul's area. The project will help provide the infrastructure required to transform the St. Paul's area into a multi-use, mixed-income development in order to deconcentrate poverty and enact place-based initiatives.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	2,000,000	2,000,000	500,000	N/A	N/A	4,500,000
FY 2021 Adopted	4,000,000	2,000,000	2,000,000	2,000,000	2,000,000	N/A	12,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	150,000	150,000	0	0	0	300,000
Construction/FFE	N/A	1,850,000	1,850,000	500,000	0	0	4,200,000
Total	N/A	2,000,000	2,000,000	500,000	0	0	4,500,000

Prior Capital Funding	6,000,000
FY 2022 Adopted	2,000,000
Capital Share Remaining	2,500,000
Project Total	10,500,000



Improve Water Infrastructure in St. Paul's Area

Department

Water Utility

Fund

Water Utility

Account

5300 33 4266

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to improve and expand the water utility infrastructure in the St. Paul's area. The project will help provide the infrastructure required to transform the St. Paul's area into a multi-use, mixed-income development in order to deconcentrate poverty and enact place-based initiatives.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	350,000	N/A	N/A	N/A	N/A	350,000
FY 2021 Adopted	2,000,000	2,000,000	2,000,000	0	0	N/A	6,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	350,000	0	0	0	0	350,000
Total	N/A	350,000	0	0	0	0	350,000

Prior Capital Funding	4,000,000
FY 2022 Adopted	350,000
Capital Share Remaining	0
Project Total	4,350,000



Rehabilitate Tidewater Drive Pump Station

Department

Storm Water Utility

Fund

Storm Water Utility

Account

N/A

Property Address:

Tidewater Drive

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to rehabilitate the Tidewater Drive pump station. The project will increase pumping capacity of the station and reduce the number of times the underpass is unavailable due to flooding. This project is a new project that was previously planned under "Improve Storm Water System."

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	N/A	600,000	600,000	N/A	1,200,000
FY 2021 Adopted	0	0	0	600,000	600,000	N/A	1,200,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	100,000	0	0	100,000
Construction/FFE	N/A	0	0	500,000	600,000	0	1,100,000
Total	N/A	0	0	600,000	600,000	0	1,200,000

Prior Capital Funding	0
FY 2022 Adopted	0
Capital Share Remaining	1,200,000
Project Total	1,200,000



Revitalize St. Paul's Community

Department

Executive

Fund

General Capital

Account

4000 02 4234

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☒ City Services ☐

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds for the redevelopment of the St. Paul's area. The site will become a multi-use, mixed-income development in order to deconcentrate poverty and enact place-based initiatives.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000
FY 2021 Adopted	0	3,000,000	3,000,000	3,000,000	3,000,000	N/A	12,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	300,000	300,000	300,000	300,000	300,000	1,500,000
Construction/FFE	N/A	2,700,000	2,700,000	2,700,000	2,700,000	2,700,000	13,500,000
Total	N/A	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	15,000,000

Prior Capital Funding	5,000,000
FY 2022 Adopted	3,000,000
Capital Share Remaining	12,000,000
Project Total	20,000,000



Strengthening Neighborhoods through Affordable Housing Initiatives

Department

Neighborhood Services

Fund

General Capital

Account

4000 22 4233

Property Address:

Customers Served

Residents ☒ Business ☐ City Services ☒

Educational Community ☐ Tourists/Visitors ☐

Project Description

Provide funds to invest in affordable housing strategies that strengthen neighborhoods. The project will focus on initiatives related to homeownership, rental revitalization, and neighborhood cohesion. The project will provide neighborhood building focused on residents in the Ingleside and Monticello Village/ Oakdale Farms neighborhoods. This project supports recommendations from the Poverty Commission.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,750,000	1,750,000	1,750,000	N/A	N/A	5,250,000
FY 2021 Adopted	0	1,750,000	1,750,000	1,750,000	0	N/A	5,250,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	292,045	200,000	200,000	0	0	692,045
Construction/FFE	N/A	1,457,955	1,550,000	1,550,000	0	0	4,557,955
Total	N/A	1,750,000	1,750,000	1,750,000	0	0	5,250,000

Prior Capital Funding	2,450,000
FY 2022 Adopted	1,750,000
Capital Share Remaining	3,500,000
Project Total	7,700,000



Support Blue/Greenway Amenities in St. Paul's Area

Department

Executive

Fund

General Capital

Account

4000 02 4328

Property Address:

St. Paul's Area

Customers Served

Residents ☒ Business ☒ City Services ☐

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to support the installation of amenities throughout the Blue-Greenway in St. Paul's area. Funds will be used to install pathways, lighting, and signage.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
FY 2021 Adopted	0	0	0	0	0	N/A	0
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	100,000	100,000	100,000	100,000	100,000	500,000
Construction/FFE	N/A	900,000	900,000	900,000	900,000	900,000	4,500,000
Total	N/A	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000

Prior Capital Funding	0
FY 2022 Adopted	1,000,000
Capital Share Remaining	4,000,000
Project Total	5,000,000



Support Elizabeth River Trail Capital Campaign

Department

Transit

Fund

General Capital

Account

4000 45 4243

Property Address:

Customers Served

Residents ☒ Business ☒ City Services ☐

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide capital campaign matching funds for the Elizabeth River Trail project. The Friends of the Elizabeth River Foundation have taken the lead in fundraising \$3.5 million (Phase I) in order to add kayak launches, improved wayfinding, educational signage, infrastructure, bike racks, maintenance stations, fitness equipment, public art, solar lighting, charging stations, and other improvements. The FY 2022 amount will meet the city's total commitment of \$500,000.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	250,000	N/A	N/A	N/A	N/A	250,000
FY 2021 Adopted	0	250,000	0	0	0	N/A	250,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	250,000	0	0	0	0	250,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	250,000	0	0	0	0	250,000

Prior Capital Funding	250,000
FY 2022 Adopted	250,000
Capital Share Remaining	0
Project Total	500,000



Upgrade the Monticello Avenue Pump Station

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4323

Property Address:

Monticello Avenue

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds for upgrades to the Monticello Avenue Pump Station. The project will increase pumping capacity of the station and reduce the times the underpass is unavailable due to flooding. This project is a new project that was previously planned under "Improve Storm Water System."

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	600,000	600,000	N/A	N/A	N/A	1,200,000
FY 2021 Adopted	0	600,000	600,000	0	0	N/A	1,200,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

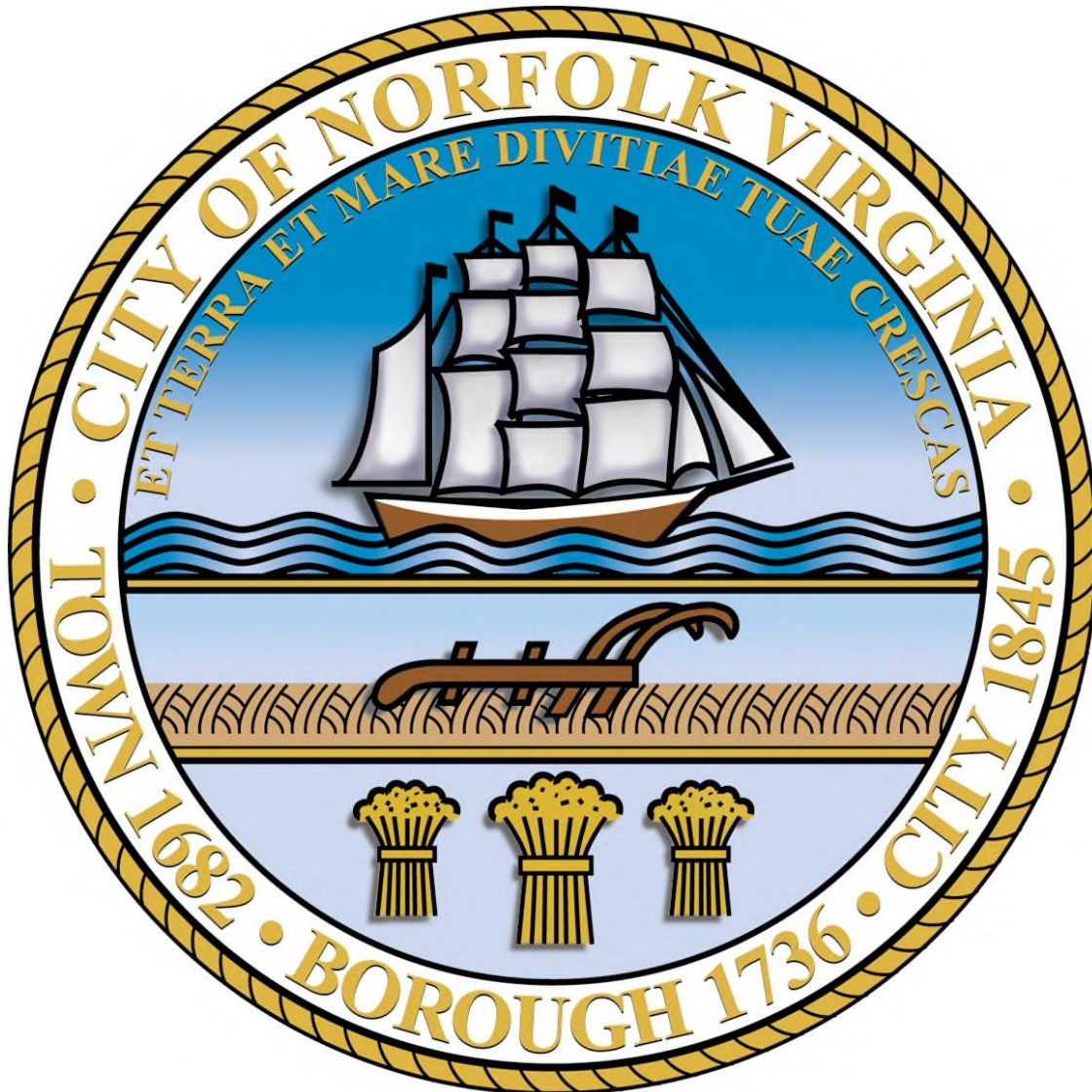
Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	100,000	0	0	0	0	100,000
Construction/FFE	N/A	500,000	600,000	0	0	0	1,100,000
Total	N/A	600,000	600,000	0	0	0	1,200,000

Prior Capital Funding	0
FY 2022 Adopted	600,000
Capital Share Remaining	600,000
Project Total	1,200,000



Environmental Sustainability



Conduct Drainage Studies Citywide

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4299

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to study areas in advance of designing projects for planning purposes to optimize resources and target storm water infrastructure areas with the greatest needs.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	500,000	N/A	N/A	N/A	500,000
FY 2021 Adopted	1,000,000	0	500,000	0	0	N/A	1,500,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	500,000	0	0	0	500,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	0	500,000	0	0	0	500,000

Prior Capital Funding	1,000,000
FY 2022 Adopted	0
Capital Share Remaining	500,000
Project Total	1,500,000



Conduct Outfall Maintenance and Dredging

Department	Project Description
Storm Water Utility	Provide funds for the maintenance and dredging of outfalls citywide. Funds will be used to open up submerged and clogged outfalls through shoreline or barge dredging.
Fund	
Storm Water Utility	
Account #	
2300 35 4300	
Property Address:	
Citywide	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input checked="" type="checkbox"/> City Services <input checked="" type="checkbox"/>	
Educational Community <input checked="" type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	750,000	450,000	950,000	1,000,000	N/A	3,150,000
FY 2021 Adopted	650,000	750,000	450,000	950,000	1,000,000	N/A	3,800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	75,000	45,000	95,000	100,000	0	315,000
Construction/FFE	N/A	675,000	405,000	855,000	900,000	0	2,835,000
Total	N/A	750,000	450,000	950,000	1,000,000	0	3,150,000

Prior Capital Funding	650,000
FY 2022 Adopted	750,000
Capital Share Remaining	2,400,000
Project Total	3,800,000



Conduct Sliplining and Major Repairs to Existing Infrastructure

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4298

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to support sliplining and major repairs to existing storm water infrastructure. The funds will be used to repair and improve existing storm water conveyance pipes by repairing the system using trenchless and other techniques to restore the system to optimal condition. Sliplining is a trenchless method in which a smaller pipe is installed in a larger pipe and then the space between the two pipes is sealed.

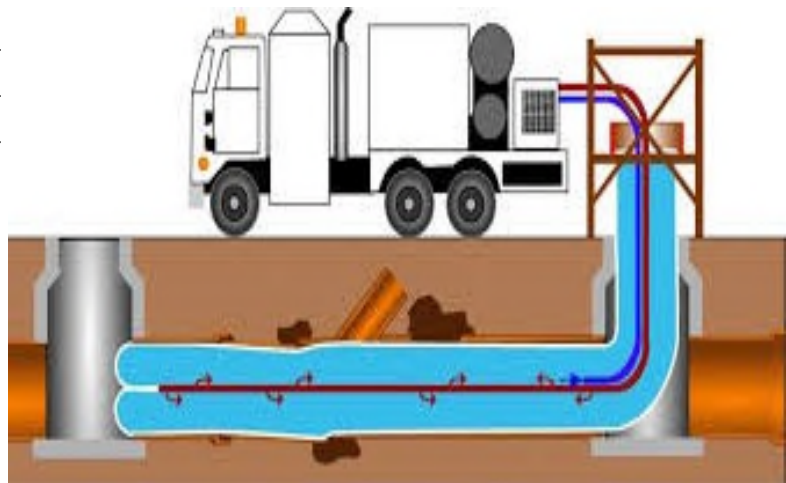
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,200,000	1,200,000	1,200,000	1,000,000	N/A	4,600,000
FY 2021 Adopted	1,000,000	1,200,000	1,200,000	1,200,000	1,000,000	N/A	5,600,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	1,200,000	1,200,000	1,200,000	1,000,000	0	4,600,000
Total	N/A	1,200,000	1,200,000	1,200,000	1,000,000	0	4,600,000

Prior Capital Funding	1,000,000
FY 2022 Adopted	1,200,000
Capital Share Remaining	3,400,000
Project Total	5,600,000



Construct Park along East Water Street

Department

Office of Resilience

Fund

General Capital

Account

4000 41 4332

Property Address:

East Water Street

Customers Served

Residents ☒ Business ☐ City Services ☐
Educational Community ☐ Tourists/Visitors ☒

Project Description

Provide funds to complete construction of the Water Street Open Space project as part of environmental remediation requirements and Virginia Economic Development Partnership and Department of Environmental Quality Remediation Grant obligations. This funding will support the city's required match of \$500,000. Construction of the open space will remediate the site and include storm water features, trees, and other plantings. Streetscaping is also included to improve portions of the Elizabeth River Trail and parking along Water Street.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	500,000	N/A	N/A	N/A	N/A	500,000
FY 2021 Adopted	0	0	0	0	0	N/A	0
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	500,000	0	0	0	0	500,000
Total	N/A	500,000	0	0	0	0	500,000

Prior Capital Funding	0
FY 2022 Adopted	500,000
Capital Share Remaining	0
Project Total	500,000



Control Beach Erosion

Department

City Planning

Fund

General Capital

Account

4000 15 3049

Property Address:

Citywide

Customers Served

Residents ☒ Business ☐ City Services ☐

Educational Community ☐ Tourists/Visitors ☒

Project Description

Provide funds for shoreline erosion control structures; shoreline modeling; annual wave gauge maintenance; sand replenishment; dune maintenance, repair and re-vegetation; and continuation of the biennial beach survey.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
FY 2021 Adopted	525,000	1,000,000	1,000,000	1,000,000	1,000,000	N/A	4,525,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	250,000	250,000	250,000	250,000	250,000	1,250,000
Construction/FFE	N/A	750,000	750,000	750,000	750,000	750,000	3,750,000
Total	N/A	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000

Prior Capital Funding	34,696,700
FY 2022 Adopted	1,000,000
Capital Share Remaining	4,000,000
Project Total	39,696,700



Create Citywide Flooding Reserve

Department

Storm Water Utility

Fund

Storm Water Utility

Account

4000 35 4188

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to create a citywide flooding reserve to prepare for the larger citywide flooding control projects. This project is funded by the \$1.00 Storm Water fee increase approved in FY 2013. Funding will be dedicated to support the city's flood mitigation efforts.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
FY 2021 Adopted	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	N/A	6,576,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000
Construction/FFE	N/A	0	0	0	0	0	0
Total	N/A	1,315,200	1,315,200	1,315,200	1,315,200	1,315,200	6,576,000

Prior Capital Funding	11,836,800
FY 2022 Adopted	1,315,200
Capital Share Remaining	5,260,800
Project Total	18,412,800



Implement Pond Retrofits Citywide

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4305

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to support the implementation of pond retrofit projects citywide. Pond retrofits enhance pollutant removal and assist in flood mitigation.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	2,050,000	1,700,000	1,550,000	500,000	1,000,000	6,800,000
FY 2021 Adopted	1,290,000	1,290,000	1,290,000	1,290,000	1,290,000	N/A	6,450,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	100,000	200,000	0	300,000
Construction/FFE	N/A	2,050,000	1,700,000	1,450,000	300,000	1,000,000	6,500,000
Total	N/A	2,050,000	1,700,000	1,550,000	500,000	1,000,000	6,800,000

Prior Capital Funding	1,290,000
FY 2022 Adopted	2,050,000
Capital Share Remaining	4,750,000
Project Total	8,090,000



Implement Shoreline Restoration

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4304

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to implement shoreline restoration in various areas across the city. The restoration process involves planting specific vegetation, constructing protective sills, adding sand fill, and creating buffer zones to reduce erosion and allow natural growth to build up the shoreline.

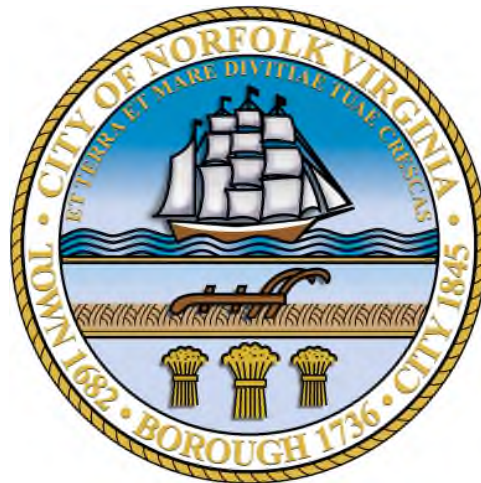
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	200,000	550,000	700,000	1,750,000	1,250,000	4,450,000
FY 2021 Adopted	960,000	960,000	960,000	960,000	960,000	N/A	4,800,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	200,000	100,000	300,000	200,000	0	800,000
Construction/FFE	N/A	0	450,000	400,000	1,550,000	1,250,000	3,650,000
Total	N/A	200,000	550,000	700,000	1,750,000	1,250,000	4,450,000

Prior Capital Funding	960,000
FY 2022 Adopted	200,000
Capital Share Remaining	4,250,000
Project Total	5,410,000



Implement the Green Infrastructure Plan

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4306

Property Address:

Citywide

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to support the continued implement of the city's Green Infrastructure Plan. The plan involves approaching water management in a manner that protects or restores the natural water cycle. Funds will be used to build bioretention structures, rainwater collection or infiltration systems, and strategically placed vegetation.

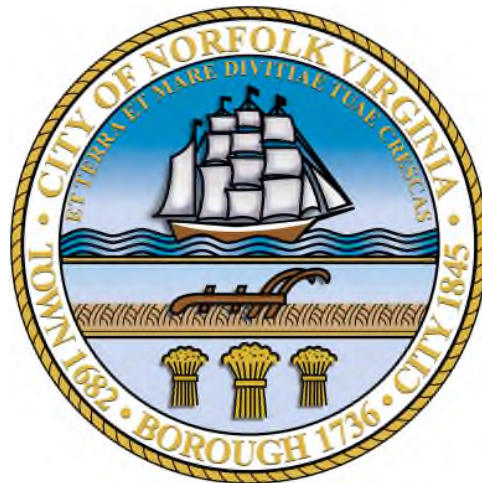
Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	100,000	100,000	100,000	100,000	100,000	500,000
FY 2021 Adopted	100,000	100,000	100,000	100,000	100,000	N/A	500,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	100,000	100,000	100,000	100,000	100,000	500,000
Total	N/A	100,000	100,000	100,000	100,000	100,000	500,000

Prior Capital Funding	100,000
FY 2022 Adopted	100,000
Capital Share Remaining	400,000
Project Total	600,000



Improve Duffys Lane Outfall Extension

Department

Storm Water Utility

Fund

Storm Water Utility

Account

2300 35 4324

Property Address:

Duffy's Lane

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to design and construct improvements to Duffys Lane outfall extension. Funds will be used to extend the outfall beyond the beach replenishment project. This project is a new project that was previously planned under "Improve Storm Water Waterfront Facilities."

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	500,000	N/A	N/A	N/A	N/A	500,000
FY 2021 Adopted	0	500,000	0	0	0	N/A	500,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	50,000	0	0	0	0	50,000
Construction/FFE	N/A	450,000	0	0	0	0	450,000
Total	N/A	500,000	0	0	0	0	500,000

Prior Capital Funding	0
FY 2022 Adopted	500,000
Capital Share Remaining	0
Project Total	500,000



Improve Selby Place Outfall Extension

Department

Storm Water Utility

Fund

Storm Water Utility

Account

N/A

Property Address:

Selby Place

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☐

Project Description

Provide funds to design and construct improvements to the Selby Place outfall extension. Funds will be used to extend the outfall beyond the beach replenishment project. This project is a new project that was previously planned under "Improve Storm Water Waterfront Facilities."

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	500,000	N/A	N/A	N/A	500,000
FY 2021 Adopted	0	0	500,000	0	0	N/A	500,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	50,000	0	0	0	50,000
Construction/FFE	N/A	0	450,000	0	0	0	450,000
Total	N/A	0	500,000	0	0	0	500,000

Prior Capital Funding	0
FY 2022 Adopted	0
Capital Share Remaining	500,000
Project Total	500,000



Improve Storm Water Waterfront Facilities

Department

Storm Water Utility

Fund

Storm Water Utility

Account

4000 35 3037

Property Address:

Customers Served

Residents ☒ Business ☒ City Services ☐

Educational Community ☐ Tourists/Visitors ☒

Project Description

Provide funds for non-routine inspections, maintenance, repair, rehabilitation, and replacement of deteriorated bulkheads and outfall extensions citywide.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	N/A	N/A	500,000	500,000	500,000	1,500,000
FY 2021 Adopted	0	0	0	500,000	500,000	N/A	1,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	50,000	50,000	50,000	150,000
Construction/FFE	N/A	0	0	450,000	450,000	450,000	1,350,000
Total	N/A	0	0	500,000	500,000	500,000	1,500,000

Prior Capital Funding	9,000,000
FY 2022 Adopted	0
Capital Share Remaining	1,500,000
Project Total	10,500,000



Raise the Downtown Floodwall

Department

Storm Water Utility

Fund

Storm Water Utility

Account

4000 35 4270

Property Address:

Downtown

Customers Served

Residents ☒ Business ☒ City Services ☒

Educational Community ☒ Tourists/Visitors ☒

Project Description

Provide funds to raise the elevation of the downtown floodwall between one and two feet, reinforce sections of the wall, and reconstruct all flood gates in order to provide the level of flood protection required by the Federal Emergency Management Agency (FEMA) for the downtown area.

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	8,000,000	8,000,000	N/A	N/A	N/A	16,000,000
FY 2021 Adopted	1,000,000	8,000,000	8,000,000	0	0	N/A	17,000,000
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	0	0	0	0	0	0
Construction/FFE	N/A	8,000,000	8,000,000	0	0	0	16,000,000
Total	N/A	8,000,000	8,000,000	0	0	0	16,000,000

Prior Capital Funding	2,000,000
FY 2022 Adopted	8,000,000
Capital Share Remaining	8,000,000
Project Total	18,000,000



Support Beach Renourishment

Department	Project Description
Public Works	Provide funds to support beach renourishment in four areas along the beach between Little Creek Inlet and Willoughby Spit. This project is in conjunction with the Virginia Port Authority's (VPA) upcoming Thimble Shoals Channel Dredging Project. Sand will be moved from the dredging to these four locations: Toler Place (12th View Street to 9th View Street), West Ocean View (6th View Street to Chesapeake Boulevard, Central Ocean View (Breakwater Field, and East Ocean View (24th Bay Street to Little Creek Jetty).
Fund	
General Capital	
Account #	
4000 10 4330	
Property Address:	
Customers Served	
Residents <input checked="" type="checkbox"/> Business <input type="checkbox"/> City Services <input type="checkbox"/>	
Educational Community <input type="checkbox"/> Tourists/Visitors <input checked="" type="checkbox"/>	

Financial Summary

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
FY 2022 Adopted	N/A	6,493,000	N/A	N/A	N/A	N/A	6,493,000
FY 2021 Adopted	0	0	0	0	0	N/A	0
Estimated Operation Budget Impact	N/A	0	0	0	0	N/A	0

Anticipated Project Timeline:

	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Total
Planning/Design/Other	N/A	200,000	0	0	0	0	200,000
Construction/FFE	N/A	6,293,000	0	0	0	0	6,293,000
Total	N/A	6,493,000	0	0	0	0	6,493,000

Prior Capital Funding	0
FY 2022 Adopted	6,493,000
Capital Share Remaining	0
Project Total	6,493,000



Enterprise Funds



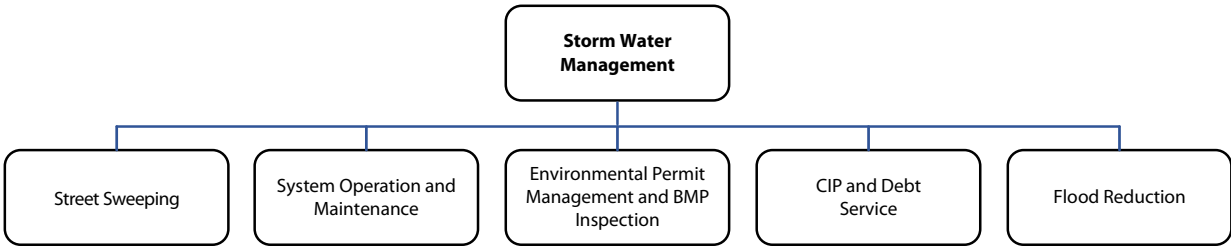
STORM WATER MANAGEMENT

MISSION STATEMENT

As part of Public Works Operations, Storm Water Management strives to improve the quality of life of Norfolk's residents, business owners, and visitors by improving the environment through reducing pollutants in storm water discharges. Storm Water Management also mitigates flooding, thereby reducing property damage and threats to life, health, and economic vitality.

DIVISION OVERVIEW

The Division of Storm Water Management focuses on five prominent categories of work: environmental permit management and regulatory compliance, Capital Improvement Program (CIP) and debt service, flood reduction, system operation and maintenance, and street sweeping. Staff is comprised of professional engineers, environmental scientists, and operations personnel that coordinate to meet the division's goals of reducing flooding and preventing pollution. The Division of Storm Water Management receives oversight from the Department of Public Works.



REVENUE SUMMARY

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted
Use of Money and Property	\$15,443	\$48,136	\$3,020	\$3,020
Charges for Services	\$16,877,791	\$21,360,470	\$21,360,848	\$21,949,906
Miscellaneous Revenue	\$109,922	\$85,188	\$45,000	\$45,000
Total	\$17,003,156	\$21,493,794	\$21,408,868	\$21,997,926

Actual amounts represent collections, not appropriation authority.

EXPENDITURE SUMMARY

	FY 2019 Actual	FY 2020 Actual	FY 2021 Adopted	FY 2022 Adopted
Personnel Services	\$5,852,643	\$6,584,130	\$6,830,528	\$7,432,558
Materials, Supplies, and Repairs	\$2,641,741	\$2,754,356	\$2,317,803	\$2,699,328
Contractual Services	\$2,318,590	\$1,587,822	\$1,779,245	\$1,921,211
Equipment	\$623,752	\$1,052,542	\$1,668,774	\$1,213,274
Department Specific Appropriation	(\$9,398)	\$0	\$3,972,451	\$3,841,488
Debt Service/Transfers to CIP	\$4,758,346	\$2,017,241	\$4,840,067	\$4,890,067
Total	\$16,185,674	\$13,996,091	\$21,408,868	\$21,997,926

ADOPTED FY 2022 BUDGET ACTIONS

- Increase ditch maintenance capacity** **FY 2022 \$316,284** **FTE: 6**

Provide funds for additional staffing and vehicles to increase the capacity for ditch maintenance in the Storm Water Infrastructure and Maintenance program. The additional crew will increase the annual ditch maintenance from 20 miles per year to 30 miles per year. The crew will allow the city to fully implement a preventative maintenance schedule as well as respond to requests in a more timely manner.

- Provide funds for a Project Manager in the Division Office** **FY 2022 \$70,036** **FTE: 1**

Provide funds for a new Senior Design/Construction Project Manager in the Division Office program. This position will support the management team by overseeing administration and environmental programs while providing support to engineering, operations, and special projects. Responsibilities include planning, designing, constructing, and managing projects associated with meeting new water quality regulations and flooding challenges. The additional position improves the department's capacity to handle the increase in project workload.

- Provide funds for a citywide compensation increase** **FY 2022 \$146,517** **FTE: 0**

Provide funds for a compensation increase for city employees. FY 2022 compensation actions include: a three percent salary increase for general, sworn Police and Fire-Rescue employees, and constitutional officer employees; a three percent increase to salary ranges across all pay plans and grades and the corresponding funds to support new minimum salary cost for approved vacant positions; and an increase to the permanent employee living wage adjustment. All actions will be effective July 2021.

- Remove one-time funds for vacuum flushing truck** **FY 2022 (\$380,000)** **FTE: 0**

Technical adjustment to remove one-time funds provided in FY 2021 for the purchase of a vacuum flushing truck

- Remove one-time funds for resiliency collaboration** **FY 2022 (\$100,000)** **FTE: 0**

Technical adjustment to remove one-time funds provided in FY 2021 for resiliency collaboration

- **Increase funding for Chesterfield Heights flood mitigation**

FY 2022 \$400,000 FTE: 0

Technical adjustment to support the maintenance and operation of the flood mitigation infrastructure constructed in the Chesterfield Heights neighborhood. This project was funded by National Disaster Resilience Competition (NDRC) grant. The grant does not provide ongoing funding beyond the construction of the project.

- **Increase funding for regional environmental programs**

FY 2022 \$21,359 FTE: 0

Technical adjustment to increase funding for regional environmental education and outreach programs provided by the Hampton Roads Planning District Commission (HRPDC). Norfolk's contribution to HRPDC is based on a per capita rate and population numbers from the U.S. Census Bureau. The contribution from Storm Water supports regional environmental education and outreach programs.

- **Increase funding for security services**

FY 2022 \$14,610 FTE: 0

Technical adjustment to provide funds for contractual increase in security services. The city signed a five-year contract with a new vendor for security services. Total costs will increase by \$14,610 from \$15,000 in FY 2021 to \$29,610 in FY 2022.

- **Adjust operational expenditures**

FY 2022 (\$95,466) FTE: 0

Technical adjustment for operational expenses which occurs annually. These expenses may include indirect costs and payment in lieu of taxes.

- **Adjust costs for Fleet expenditures**

FY 2022 (\$18,475) FTE: 0

Technical adjustment to update the funding needed to support Fleet expenditures based on an annual cost revision calculation. Fleet provides maintenance, fuel, and the management of vehicles for essential operations of the department. This is a routine adjustment which occurs each budget cycle.

- **Adjust required contribution to the city retirement system**

FY 2022 \$105,364 FTE: 0

Technical adjustment for the annual required contribution to the Norfolk Employees' Retirement System (NERS). Retirement contributions are based on a formula that calculates funds needed to meet present and future retirement payments. The contribution rate for the city will increase from 20.3 percent to 21.2 percent of eligible payroll in FY 2022. Costs are distributed to departments based on each department's NERS eligible payroll.

- **Adjust employer healthcare contribution**

FY 2022 \$131,713 FTE: 0

Technical adjustment to update employer contribution amounts for healthcare premiums. This adjustment includes changes to employer contribution rates for each medical plan based on January enrollment data. The Norfolk Healthcare Consortium agreed to increase plan year 2022 rates by 6.6 percent, effective December 2021. The city elected not to increase employee contributions for that plan year.

• **Update personnel expenditures**

FY 2022 (\$22,884) FTE: -1

Technical adjustment to update department costs for personnel services. Changes include the transfer of a Civil Engineer position to the Department of Resilience and the corresponding adjustment to funds needed in FY 2022 for such actions. Adjustments to personnel expenditures reflect an update to the department's budget for positions, based on actual salaries for filled positions and minimum salaries for vacant positions. These are routine actions that occur at the beginning of the budget cycle.

Storm Water Management

Total: \$589,058 FTE: 6

FULL TIME EQUIVALENT (FTE) SUMMARY

	Pay Grade	Minimum	Maximum	FY 2021 Adopted	FTE Change	FY 2022 Adopted
Accountant I	1 11	\$42,029	\$68,583	1	1	2
Accountant III	1 13	\$49,257	\$80,317	1	0	1
Accountant IV	1 14	\$53,581	\$88,622	1	0	1
Accounting Supervisor	1 14	\$52,020	\$86,041	1	-1	0
Accounting Technician II	1 07	\$30,273	\$49,401	2	0	2
Administrative Assistant II	1 10	\$38,457	\$62,711	2	-1	1
Administrative Technician	1 07	\$30,273	\$49,401	1	0	1
Automotive Mechanic	1 10	\$38,457	\$62,711	0	1	1
Automotive Service Attendant	1 08	\$32,758	\$53,420	1	0	1
Civil Engineer II	1 15	\$58,004	\$94,838	2	0	2
Civil Engineer III	1 16	\$61,954	\$101,010	2	0	2
Civil Engineer V	1 18	\$68,697	\$112,020	1	-1	0
Collection Coordinator	1 11	\$42,029	\$68,583	1	0	1
Construction Inspector II	1 11	\$42,029	\$68,583	3	0	3
Crew Leader I	1 09	\$35,479	\$57,846	8	0	8
Design/Construction Project Manager, Senior	1 17	\$66,188	\$108,018	1	1	2
Engineering Technician I	1 10	\$38,457	\$62,711	2	0	2
Engineering Technician II	1 11	\$42,029	\$68,583	2	-1	1
Engineering Technician IV	1 13	\$49,257	\$80,317	0	1	1
Enterprise Controller	1 16	\$61,954	\$101,010	1	0	1
Environmental Engineer	1 14	\$52,020	\$86,041	1	-1	0
Environmental Specialist II	1 12	\$45,670	\$74,477	1	0	1
Equipment Operator II	1 07	\$30,273	\$49,401	13	1	14
Equipment Operator III	1 08	\$32,758	\$53,420	16	0	16
Equipment Operator IV	1 09	\$35,479	\$57,846	1	0	1
Geographic Information Systems Technician II	1 11	\$42,029	\$68,583	1	0	1
Maintenance Mechanic II	1 08	\$32,758	\$53,420	2	0	2
Maintenance Worker I	1 04	\$24,032	\$39,189	12	4	16
Maintenance Worker II	1 06	\$28,261	\$46,079	4	1	5
Manager of Budget & Accounting	1 18	\$70,758	\$115,380	1	0	1
Program Administrator	1 13	\$49,257	\$80,317	1	0	1

FULL TIME EQUIVALENT (FTE) SUMMARY

	Pay Grade	Minimum	Maximum	FY 2021 Adopted	FTE Change	FY 2022 Adopted
Program Supervisor	1 13	\$49,257	\$80,317	0	1	1
Programs Manager	1 15	\$58,004	\$94,838	1	0	1
Project Manager	1 16	\$61,954	\$101,010	2	0	2
Public Relations Specialist	1 12	\$45,670	\$74,477	1	0	1
Storekeeper II	1 06	\$28,261	\$46,079	1	0	1
Storm Water Assistant Superintendent	1 14	\$53,581	\$88,622	0	1	1
Storm Water Engineer	1 19	\$75,118	\$122,164	1	0	1
Storm Water Operations Manager	1 15	\$58,004	\$94,838	2	-1	1
Utility Maintenance Mechanic I	1 07	\$30,273	\$49,401	1	0	1
Utility Maintenance Mechanic II	1 09	\$35,479	\$57,846	3	0	3
Utility Maintenance Supervisor	1 11	\$42,029	\$68,583	5	0	5
Utility Maintenance Supervisor, Senior	1 13	\$49,257	\$80,317	2	0	2
Total				105	6	111

Capital Improvement Projects (CIP) Funded by Storm Water Utility Funds

The City of Norfolk continues to make significant upgrades to the storm water infrastructure to fulfill our two-pronged mission of reducing storm water flooding and improving storm water quality. The City uses three main funding avenues to support these improvements:

- Direct storm water capital improvements supported by the storm water utility
- General capital improvements funded through the City's capital improvement program supported by general tax sources and
- Annual operations funds from the storm water utility.

Additional projects may be completed by developers and turned over to the City to become part of the storm water infrastructure.

The total annual investment in storm water capital improvements for FY21 was \$16,715,200. However, due to project timing the annual expenditures can sometimes be substantially higher and/or lower than the appropriated amounts. Storm Water CIP funding is expected to continue for the foreseeable future. Projects utilizing and/or having funds allocated in FY21 are listed below.

Create Citywide Flooding Reserve (\$1,315,200)

The Create Citywide Flooding Reserve provides a funding reserve to prepare for larger citywide flooding control projects. This funding is dedicated to support the city's flood mitigation efforts.

Raise the Downtown Floodwall (\$1,000,000)

Raise the Downtown Floodwall provides funding to raise the elevation of the floodwall, reinforce sections of the wall and reconstruct all the flood gates to provide the level of flood protection required by the Federal Emergency Management Agency (FEMA) for the downtown area.

Improve Storm Water Infrastructure in St. Paul's Area (\$1,000,000)

Improve Storm Water Infrastructure in the St. Paul's Area provides funding to add storm water collection and conveyance infrastructure in the existing and new street network to mitigate precipitation flooding.

Conduct Sliplining and Major Repairs to Existing Infrastructure (\$1,000,000)

This project will repair and improve the existing storm water conveyance pipes by repairing the system using trenchless and other techniques to restore the system to optimal condition.

Conduct Drainage Studies Citywide (\$1,000,000)

Provides funds to study areas in advance of designing for planning purposes to optimize resources and target storm water infrastructure areas with the greatest needs.

Conduct Outfall Maintenance and Dredging (\$650,000)

Provides funds for the maintenance and dredging of outfalls citywide. The project includes clearing submerged, clogged outfalls through shoreline or barge dredging.

Improve Overbrook/Coleman Place Drainage (\$2,000,000)

Provides funds for neighborhood flood mitigation to address various drainage system improvements.

Improve Glenwood Park Drainage (\$500,000)

Provides funds for infrastructure improvements to better mitigate issues from precipitation and tidal flooding.

Improve Gifford Street Drainage (\$1,000,000)

Provides funds to improve the storm water system's ability to manage storm events.

Implement Shoreline Restoration (\$960,000)

Provides funds for citywide restoration areas involving planting specific vegetation, constructing protective sills, adding sand fill, and creating buffer zones to reduce erosion and allow natural growth to build up the shoreline.

Implement Pond Retrofits Citywide (\$1,290,000)

Provides funds for pond retrofits to enhance pollutant removal and assist in flood mitigation.

Implement the Green Infrastructure Plan (\$100,000)

Provides funds for the water management approach to protect or restore the natural water cycle via bioretention structures, rainwater collection or infiltration systems, and strategically placed vegetation.

Replace the Downtown Pump Station Trash Rack (\$100,000)

Provides funds to make the trash rack fully operational reducing the debris entering the river system.

Improve East Ocean View Drainage (\$2,000,000)

Provides funds to add storm drainage infrastructure to manage a 10-year storm precipitation event.

Improve Glenrock Drainage (\$1,000,000)

Provides funds to add storm drainage infrastructure to manage a 10-year storm precipitation event.

Improve 10th View Outfall Extension (\$500,000)

Provides funds to extend the outfall beyond the beach replenishment limits for proper conveyance of drainage.

Construct the Blue/Greenway in the St. Paul's Area (\$800,000)

Provides funds in the St. Paul's area to create an aesthetic open space designed to treat and store storm water runoff during storm events.

Rehabilitate Colley Avenue Pump Station (\$500,000)

Provides funds to increase pumping capacity and reduce the times the underpass is unavailable due to flooding.

Street Sweeping Signage

Beyond sliplining and system repair projects, the operations component of the storm water utility fund finances the installation of new signage for the once-a-month street sweeping program. In FY08, all regulatory no parking signs associated with street sweeping were replaced and the program is still ongoing. Where regulatory signs are not appropriate, advisory signs will be installed. These signs will inevitably make the monthly street sweeping program more effective by educating residents to move their automobiles during scheduled street sweeping. This will improve storm water quality by reducing the pollutants available to be washed in the waterways.



MS4 Program Plan - Section 2.2 - Planning and Retrofitting Storm Water Quality Projects

Project	Status	Project Type	Treatment Area (ac)	Impervious Treatment Area (ac)	Pervious Treatment Area (ac)	Condition of Downstream Channel	Nitrogen Reduction (lbs/yr)	Phosphorous Reduction (lbs/yr)	TSS Reduction (lbs/yr)	Feasibility of Implementation	Estimated Cost
Dune Street Constructed Stormwater Wetland	Complete	BMP Construction	12.45	4.69	7.76	limited erosion	23.4	6.4	5628	High	\$303,711
Lake Modoc Retention Pond	Complete	BMP Retrofit- Upgrade	81.31	43.48	37.83	open tidal waters	115.31	33.39	3062.3	High	\$631,180
Templar Boulevard Stream Restoration	Complete	Stream Restoration	123.44	61.8	61.64	limited erosion	41.2	19	36200	High	\$188,209
Anne Outten Retention Pond	Complete	BMP Retrofit- Upgrade	103	62.3	40.7	open tidal waters	137.62	39.38	2745.24	High	\$557,279
Ballentine School Retention Pond	Complete	BMP Retrofit- Upgrade	179.83	120.79	59.04	stable tidal creek	210.38	66.01	11968.36	High	\$1,003,441
Beach Avenue Living Shoreline	Complete	Living Shoreline Construction	0.81	NA	NA	open tidal waters	123.32	39.12	62509.18	High	\$779,598
Central Business Park Retention Pond	Complete	BMP Retrofit- Upgrade	19.6	13.3	6.3	stable tidal creek	38.84	9.83	1201.1	High	\$411,372
Hermitage East/North Shore Road Living Shoreline	Complete	Living Shoreline Construction	1.04	NA	NA	open tidal waters	266.61	126.77	206077.81	High	\$982,586
Hermitage Oyster Reef	Complete	Oyster Reef Construction	1.44	NA	NA	open tidal waters	TBD	TBD	TBD	High	\$458,589
Hermitage West Living Shoreline	Complete	Living Shoreline Construction	1.11	NA	NA	open tidal waters	140.82	33.69	52910.12	High	\$731,453
Jeff Robertson Park Constructed Stormwater Wetland	Complete	BMP Construction	14.66	5.48	9.18	stable tidal creek	38.35	8.41	3199.91	High	\$340,574
Juvenile Detention Center Retention Pond	Complete	BMP Retrofit- Conversion	29.97	21.55	8.42	stable tidal creek	96.1	24.3	11,434	High	\$538,104
Knitting Mill Creek Living Shoreline	Complete	Living Shoreline Construction	0.35	NA	NA	open tidal waters	50.8	15.15	24121.6	High	\$851,119
Lake Taylor Retention Pond	Complete	BMP Retrofit- Upgrade	1436.1	615.8	820.3	stable tidal creek	1719.14	477.5	63464.85	High	\$2,103,200
Parkdale Avenue Stream Restoration	Complete	Stream Restoration	52.2	25.06	27.14	stable tidal creek	37.1	33.6	7,488	High	\$422,977
Roberts Road Retention Pond	Complete	BMP Retrofit- Upgrade	57.6	29.5	28.1	limited erosion	62.81	21.22	1576.9	High	\$438,915
Villa Circle Living Shoreline	Complete	Living Shoreline Construction	1.55	NA	NA	open tidal waters	225.47	67.43	107387.5	High	\$1,138,652
Hague Constructed Stormwater Wetland	Under Construction	BMP Construction	14.85	9.85	5	open tidal waters	92.84	17.7	4303.96	High	\$741,647
Lindenwood Living Shoreline	Under Construction	Living Shoreline Construction	1.68	NA	NA	open tidal waters	256.96	81.98	131019.05	High	\$1,621,380
Norfolk International Terminals Living Shoreline	Under Design	Living Shoreline Construction	0.33	NA	NA	open tidal waters	763.11	425.54	695262.18	Medium	\$2,131,424

Note 1: Shoreline management pollutant reduction calculations are based on restored area, not on drainage area, so only square footage of restored marsh is provided.

Note 2: Pollutant reduction calculations for restored oyster reefs are not yet established.

7/9/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 295783

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage on 7/7/2020 9:15 AM. The description of the incident is as follows:

Storm water staff was notified of a sewage odor coming from a structure on Lavalette Ave. Staff tested and received a hit for detergents. Storm water staff was able to camera the line and found a damaged storm water pipe where sewage was leaking into our system. We are unsure if this sewage has reached the nearest waterway, the Lafayette River, as this outfall is submerged and hidden by phragmites. However, there was no gray water discoloration, floatables, or smell near the area of the outfall. City of Norfolk Utilities is in the process to camera their line, and make repairs to the utility line. City of Norfolk Stormwater will then make repairs to the stormwater line.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 7/7/2020 3:19 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 295783

REPORT DATE: 7/9/2020 9:10:07 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-140 LAVALETTE AVE
140 LAVALETTE AVENUE

RESPONSIBLE PARTY: City of Norfolk Utilities- David Speer (Wastewater
ADDRESS& PHONE: Superintendent)
1316 Ballentine Blvd Norfolk, VA 23504
757-823-1023

DATE OF DISCHARGE: 7/7/2020 9:15:00 AM

DATE/TIME REPORTED: 7/7/2020 3:19:00 PM

REPORTED TO DEQ/DCR BY: C.VanLear

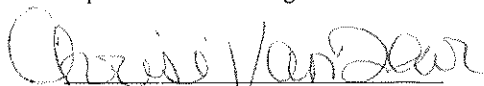
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Storm water staff was notified of a sewage odor coming from a structure on Lavalette Ave. Staff tested and received a hit for detergents. Storm water staff was able to camera the line and found a damaged storm water pipe where sewage was leaking into our system. We are unsure if this sewage has reached the nearest waterway, the Lafayette River, as this outfall is submerged and hidden by phragmites. However, there was no gray water discoloration, floatables, or smell near the area of the outfall.

CORRECTIVE ACTION: City of Norfolk Utilities will camera their line, and make repairs to the utility line. City of Norfolk Stormwater will then make repairs to the stormwater line.

IMPACT TO STATE WATERS: Unknown

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 of 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.


Signature


Date

7/15/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 295826

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of fire fighting remnants on 7/13/2020 10:58:00 AM. The description of the incident is as follows:

Storm water staff was notified of a garbage truck from Bay Disposal that caught fire. Fire was contained but fire fighting remnants went into nearest storm drain one block from site.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 7/13/2020 1:14:00 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc:

VPDES PERMIT NO. VA0088650

INCIDENT NO: 295826

REPORT DATE: 7/15/2020 8:01:12 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Fire fighting remnants

LOCATION: ILLICIT DISCHARGE-101 W. Main Street
101 W MAIN STREET

RESPONSIBLE PARTY: Bay Disposal
ADDRESS& PHONE: 2224 Springfield Ave Norfolk, VA 23523

DATE OF DISCHARGE: 7/13/2020 10:58:00 AM

DATE/TIME REPORTED: 7/13/2020 1:14:00 PM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep


DESCRIPTION OF DISCHARGE: Storm water staff was notified of a garbage truck from Bay Disposal that caught fire. Fire was contained but fire fighting remnants went into nearest storm drain one block from site.

CORRECTIVE ACTION: Debris was removed and street sweeper was used to clean pavement.

IMPACT TO STATE WATERS: N/A

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 of 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.


Signature


Date

August 12, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296212

Dear Sir or Madam:

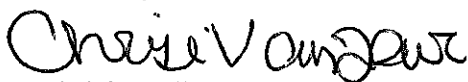
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of transformer insulating fluid on 8/10/2020 8:08 AM. The description of the incident is as follows, and was reported to DEQ by CJ Schleicher with Dominion Energy:

“A vehicle accident at the intersection of Premium Outlets Boulevard and Northampton Boulevard in Norfolk caused damage to a transformer and the release of 180 gallons of transformer insulating fluid to the ground. Oil ran to a curb inlet located just behind the transformer and accumulated in lengths of storm drain and catch basins in the storm sewer system located in the area. The path of oil was traced through the storm sewer system to an outfall at a retention pond. No oil or sheen was observed in the retention basin and oil was found to be accumulated in a large catch basin downgradient from the spill area. Oil was pulled from standing water in the catch basin using a vacuum truck. All impacted storm drains were flushed with fresh water and rinse water was collected. Absorbent boom was deployed in several storm drains and will be monitored through upcoming rain events. A small amount of impacted vegetation, mulch, and shallow soils in the area of the was removed and drummed for disposal.”

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 8/10/2020.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

8/18/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296230

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment on 8/12/2020 9:00 AM. The description of the incident is as follows:

Stormwater staff was notified of a large water main break that has caused the need for water to be pumped. There has been an unknown amount of sediment has entered into the storm drain system. Utilities is still working on this site and is the process of abandoning this line.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 8/12/2020 1:46 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296230

REPORT DATE: 8/18/2020 8:34 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sediment

LOCATION: ILLICIT DISCHARGE-1721 Admiral Taussig Blvd

RESPONSIBLE PARTY: City of Norfolk-Department of Utilities (David Speer/Sid
ADDRESS& PHONE: Lowe)
1316 Ballentine Blvd
Norfolk, VA 23504
757-823-1023

DATE OF DISCHARGE: 8/12/2020 9:00 AM

**DATE/TIME
REPORTED:** 8/12/2020 1:46 PM

**REPORTED TO DEQ/DCR
BY:** C.VanLear

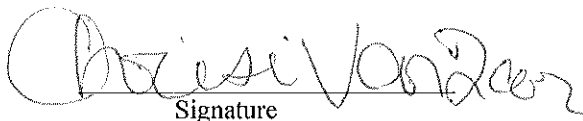
REPORTED TO: TRO Prep

**DESCRIPTION OF
DISCHARGE:** A large water main break that has caused the need for
water to be pumped. Unknown amount of sediment has
entered into the storm drain system.

CORRECTIVE ACTION: Utilities is still working on this site and is the process of
abandoning this line.

**IMPACT TO STATE
WATERS:** N/A

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 of 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.


Signature


Date

8/26/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
#296450

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage on 8/25/2020 at 2:15:00 PM. The description of the incident is as follows:

Stormwater inspector received a complaint of sewage in a ditch from another city department. Peter Mack investigated and found that the sewage was coming from an apartment complex Poplar Hall Apartments. One building in the complex, B1-B4 Poplar Hall Drive, was leaking. The property manager refused to clean up the illicit discharge, resulting in the Fire Marshall responding. The property manager was served with a summons and HEPACO was called in by the Fire Marshall's office to clean up the sewage. Peter Mack waited on site to verify that the sewage had been cleaned up and storm water system was free of any remnants. No outfalls were impacted by this discharge.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 8/25/2020 at 7:00:00 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296450

REPORT DATE: 8/26/2020 8:31 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-5861 Poplar Hall Drive Norfolk,
VA 23502

RESPONSIBLE PARTY: H.W. (Mike) Willard
ADDRESS& PHONE: P.O. Box 11404
Norfolk, VA 23517
757-287-8999

DATE OF DISCHARGE: 8/25/2020 2:15 PM

DATE/TIME REPORTED: 8/25/2020 7:00 PM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Stormwater inspector received a complaint of sewage in a ditch from another city department. Peter Mack investigated and found that the sewage was coming from an apartment complex Poplar Hall Apartments. One building in the complex, B1-B4 Poplar Hall Drive, was leaking. The property manager refused to clean up the illicit discharge, resulting in the Fire Marshall responding. The property manager was served with a summons and HEPACO was called in by the Fire Marshall's office to clean up the sewage. Peter Mack waited on site to verify that the sewage had been cleaned up and storm water system was free of any remnants. No outfalls were impacted by this discharge.

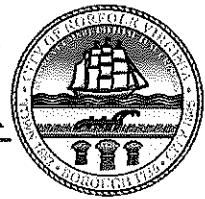
CORRECTIVE ACTION: The property manager was served with a summons and HEPACO was called in by the Fire Marshall's office to clean up the sewage. Peter Mack waited on site to verify that the sewage had been cleaned up and storm water system was free of any remnants.

IMPACT TO STATE WATERS: No

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 of 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.

Chris Van Zee
Signature

8/26/2020
Date



August 28, 2020

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 296427

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of diesel motor oil on August 24, 2020, at approximately 10:40am. The description of the incident is as follows:

A small tractor trailer spilled diesel motor oil into the street and storm drain. Approximately 8 gallons entered the storm drain. HazMat crews contained the spill. HEPACO was contacted and conducted a thorough cleaning of the storm drain system. No waterways were affected.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on August 24, 2020 at approximately 2:20pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive script that reads "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296427

REPORT DATE: 8/28/2020 12 noon

ESTIMATED QUANTITY: 8 gals

TYPE OF DISCHARGE: Diesel Motor Oil

LOCATION: 45th & Hampton Blvd..

RESPONSIBLE PARTY:
ADDRESS & PHONE: Patrick Macallister
64 Park Ave., Newport News, VA 23607 (757-532-6377)

DATE OF DISCHARGE: 8/24/2020 10:40 AM

DATE/TIME
REPORTED: 8/24/2020 2:20 PM

REPORTED TO DEQ/DCR
BY: C. Magruder

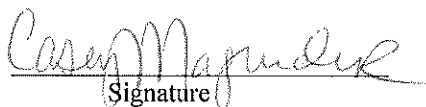
REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: Diesel motor oil spilled into street and storm drain.

CORRECTIVE ACTION: HaxMat crews contained the spill. HEPACO was
contacted and conducted a thorough cleaning of the
storm drain system.

IMPACT TO STATE
WATERS: None

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 of 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.


Signature


Date

9/8/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296586

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of chlorinated pool water on 9/4/2020 9:00 AM. The description of the incident is as follows:

Stormwater employee discovered pool was leaking and leaving site. Pool water leaked to parking lot and then did enter into storm drain. Pool was drained down below skimmer to prevent any future leaking. At time of inspection this afternoon, pool was no longer leaking. Apartment staff will have pool repair company out next week to fix. No outfalls were impacted.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 9/4/2020 3:20 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296586

REPORT DATE: 9/8/2020 8:33 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Chlorinated pool water

LOCATION: ILLICIT DISCHARGE-2501 E. Little Creek Road

RESPONSIBLE PARTY: Andover Apartments (Alexis Sessoms)
ADDRESS& PHONE: 2501 E. Little Creek Road
757-588-7706

DATE OF DISCHARGE: 9/4/2020 9:15 AM

DATE/TIME REPORTED: 9/4/2020 3:20 PM

REPORTED TO DEQ/DCR BY: C.VanLear

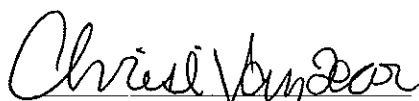
REPORTED TO: TRO Prep

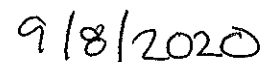
DESCRIPTION OF DISCHARGE: Stormwater employee discovered pool was leaking and leaving site. Pool water leaked to parking lot and then did enter into storm drain. Pool was drained down below skimmer to prevent any future leaking. At time of inspection this afternoon, pool was no longer leaking. Apartment staff will have pool repair company out next week to fix. No outfalls were impacted.

CORRECTIVE ACTION: Notice of Violation issued to property manager.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date

9/16/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296674

Dear Sir or Madam:

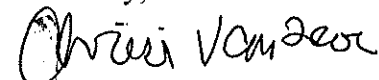
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of hydraulic fluid on 9/14/2020 4:45:00 PM. The description of the incident is as follows:

A dump truck's hydraulic fuel line busted at 741 E Little Creek Road. Stormwater staff investigated and found that hydraulic fluid did enter into a nearby storm drain but was able to be recaptured. Petrochem was on site to offer spill remediation.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 9/15/2020 7:28:19 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296674

REPORT DATE: 9/16/2020 1:27:00 PM

ESTIMATED QUANTITY: 50 gallons

TYPE OF DISCHARGE: Hydraulic fluid

LOCATION: ILLICIT DISCHARGE-741 E Little Creek Road

RESPONSIBLE PARTY: Ezra Trucking (Michael Coleman)
ADDRESS& PHONE: 8550 Chapin Street Norfolk, VA 23503
757-672-1193

DATE OF DISCHARGE: 9/14/2020 4:45:00 PM

DATE/TIME REPORTED: 9/15/2020 7:28:00 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

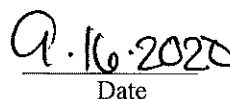
DESCRIPTION OF DISCHARGE: A dump truck's hydraulic fuel line busted at 741 E Little Creek Road. Storm water staff investigated and found that hydraulic fluid did enter into a nearby storm drain but was able to be recaptured.

CORRECTIVE ACTION: Petrochem was on site to offer spill remediation.

IMPACT TO STATE WATERS: None

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 of 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.


Signature


Date

9/16/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296681

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of dewatering without a filter bag on 9/14/2020 1:45:00 PM. The description of the incident is as follows:

Southeast Connections was doing utility work in the right of way and dewatering without a filter bag. Stormwater staff talked to Tylor Fee on site and filter bag was reattached, as well as street cleaned of sediment.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 9/15/2020 12:27:55 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296681

REPORT DATE: 9/16/2020 2:07:00 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sediment

LOCATION: ILLICIT DISCHARGE-2428 E. Ocean View Ave. Norfolk, VA

RESPONSIBLE PARTY: Southeast Connections (Tylor Fee)
ADDRESS& PHONE: 1315 Lindale Drive Chesapeake, VA 23321
757-752-1579

DATE OF DISCHARGE: 9/14/2020 1:45:00 PM

DATE/TIME REPORTED: 9/15/2020 12:27:55 PM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

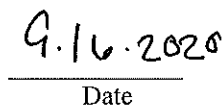
DESCRIPTION OF DISCHARGE: Southeast Connections was doing utility work in the right of way and dewatering without a filter bag. Stormwater staff talked to Tylor Fee on site and filter bag was reattached, as well as street cleaned of sediment.

CORRECTIVE ACTION: Filter bag was reattached, and sediment was cleaned off of the street.

IMPACT TO STATE WATERS: None

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 of 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.


Signature


Date

9/23/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
SSORS ID 105781

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage on 9/19/2020 at 09:00:00 AM. The description of the incident is as follows:

A HRSD sewer main encountered issues, causing a release of approximately 84,000 gallons of sewage into the City's stormwater system on Robin Hood Road. The sewage did reach the outfall that discharges into Wayne Creek. The issue was discovered at 9:00 AM on 9/19/2020 and under control at 11:00 AM on 9/19/2020. This information was provided by Lauren Grimmer from HRSD, and was reported through SSORS from HRSD.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office through SSORS on 9/19/2020.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: SSORS ID 105781

REPORT DATE: 9/23/2020 8:45: AM

ESTIMATED QUANTITY: 84,000 gallons

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-Robin Hood Road between E Bonner Dr and W Bonner Dr

RESPONSIBLE PARTY: HRSD
ADDRESS& PHONE: 1434 Air Rail Ave Virginia Beach, VA 23455

DATE OF DISCHARGE: 9/19/2020 09:00:00 AM

DATE/TIME REPORTED: 9/19/2020 through SSORS

REPORTED TO DEQ/DCR BY: HRSD

REPORTED TO: SSORS

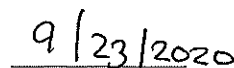
DESCRIPTION OF DISCHARGE: A HRSD sewer main encountered issues, causing a release of approximately 84,000 gallons of sewage into the City's stormwater system on Robin Hood Road. The sewage did reach the outfall that discharges into Wayne Creek. The issue was discovered at 9:00 AM on 9/19/2020 and under control at 11:00 AM on 9/19/2020. This information was provided by Lauren Grimmer from HRSD, and was reported through SSORS from HRSD.

CORRECTIVE ACTION: Sewer main was under control at 11:00 AM on 9/19/2020.

IMPACT TO STATE WATERS: Yes, Wayne Creek

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 of 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.


Signature


Date

9/25/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 296788

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment from a water main break on 9/24/2020 5:55:00 AM. The description of the incident is as follows:

There was a City of Norfolk Utilities water main break on Patent Road. The Utility Department was notified at 5:55 AM and immediately began repairs. Stormwater staff was notified at 10:00 AM and responded to find that the line had been repaired. The sediment was cleaned up and the nearest storm drains were vactored out by stormwater staff. Utilities reported that approximately 40,000 gallons of water was released.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 9/24/2020 1:48:00 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 296788

REPORT DATE: 9/25/2020 7:53 AM

ESTIMATED QUANTITY: 40,000 gallons

TYPE OF DISCHARGE: Water main break/sediment

LOCATION: ILLICIT DISCHARGE-4599 Patent Road

RESPONSIBLE PARTY: City of Norfolk Utilities
ADDRESS& PHONE: 1316 Ballentine Blvd. 23504

DATE OF DISCHARGE: 9/24/2020 5:55 AM

DATE/TIME REPORTED: 9/24/2020 1:48 PM

REPORTED TO DEQ/DCR BY: C.VanLear

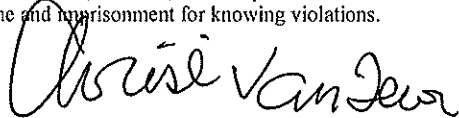
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: There was a City of Norfolk Utilities water main break on Patent Road. The Utility Department was notified at 5:55 AM and immediately began repairs. Stormwater staff was notified at 10:00 AM and responded to find that the line had been repaired. The sediment was cleaned up and the nearest storm drains were vactored out by stormwater staff. Utilities reported that approximately 40,000 gallons of water was released.

CORRECTIVE ACTION: The sediment was cleaned up and the nearest storm drains were vactored out by stormwater staff.

IMPACT TO STATE WATERS: Elizabeth River

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 of 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.



Signature

9/25/2020

Date

October 16, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297022

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of automotive fluids on 10/16/2020 6:20:00 AM. The description of the incident is as follows:

A City of Norfolk Sweeper (#3763) overturned at the corner of Kimball Terrace and Campostella Road. Automotive fluids did go into the nearest stormdrain, but was contained to one catch basin due to a blockage (trash) in the system. HEPACO was called and staff responded to clean up the roadway and the stormdrain, and properly dispose of the contaminated material. Approximately 5-10 gallons of fluid entered into the stormdrain.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 10/16/2020 9:28:00 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,


Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297022

REPORT DATE: 10/16/2020 9:43 AM

ESTIMATED QUANTITY: Approximately 5-10 gals

TYPE OF DISCHARGE: Automotive fluids

LOCATION: ILLICIT DISCHARGE-Intersection of Campostella Road and Kimball Terrace

RESPONSIBLE PARTY: City of Norfolk-Kyle Quick Operations Manager
ADDRESS& PHONE: 2233 McKann Ave
Norfolk, VA 23509
757-359-1750

DATE OF DISCHARGE: 10/16/2020 6:20:00 AM

DATE/TIME REPORTED: 10/16/2020 9:28:00 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: A City of Norfolk Sweeper (#3763) overturned at the corner of Kimball Terrace and Campostella Road. Automotive fluids did go into the nearest stormdrain, but was contained to one catch basin due to a blockage (trash) in the system. HEPACO was called and staff responded to clean up the roadway and the stormdrain, and properly dispose of the contaminated material. Approximately 5-10 gallons of fluid entered into the stormdrain.

CORRECTIVE ACTION: HEPACO was called and staff responded to clean up the roadway and the stormdrain, and properly dispose of the contaminated material.

IMPACT TO STATE WATERS: No

10/27/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297082

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of the sanitary sewer system 10/21/2020 1:05 PM. The description of the incident is as follows:

A sanitary sewer overflow was reported by our Utilities Department (SSORS ID # 105794). Upon further investigation by both Utilities and Stormwater that included using cctv to view the lines, a sanitary pipe was found on in the top of our stormdrain. This sanitary sewer line is cracked, and the discharge has reached the outfall. Stormwater is working with Utilities to reach a solution. On 10/26/2020 Utilities dye tested the line for confirmation, and this was reported to NRC (#1290693) due to the dye reaching the outfall. Utilities is still working to remove their line, and fix the stormwater line. The work is scheduled to be completed this week.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 10/22/2020 8:27:21 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297082

REPORT DATE: 10/27/2020 2:38 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-199 W Ocean View

RESPONSIBLE PARTY: City of Norfolk-Department of Utilities
ADDRESS& PHONE: David Speer
1316 Ballentine Blvd Norfolk, VA 23504

DATE OF DISCHARGE: 10/21/2020 1:05 PM

**DATE/TIME
REPORTED:** 10/22/2020 8:27:21 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

**DESCRIPTION OF
DISCHARGE:** A sanitary sewer overflow was reported by our Utilities Department (SSORS ID # 105794). Upon further investigation by both Utilities and Stormwater that included using cctv to view the lines, a sanitary pipe was found on in the top of our stormdrain. This sanitary sewer line is cracked, and the discharge has reached the outfall. Stormwater is working with Utilities to reach a solution. On 10/26/2020 Utilities dye tested the line for confirmation, and this was reported to NRC (#1290693) due to the dye reaching the outfall. Utilities is still working to remove their line, and fix the stormwater line. The work is scheduled to be completed this week.

CORRECTIVE ACTION: On 10/26/2020 Utilities dye tested the line for confirmation, and this was reported to NRC (#1290693) due to the dye reaching the outfall. Utilities is still working to remove their line, and fix the stormwater line. The work is scheduled to be completed this week.

**IMPACT TO STATE
WATERS:** Yes, Chesapeake Bay

November 02, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297199

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment laden water on 10/30/2020 10:55:00 AM. The description of the incident is as follows:

Stormwater staff observed Verizon dewatering without a sediment bag causing sediment to enter into the nearest stormdrain. Staff spoke to Verizon employees and learned that they were no longer dewatering. Verizon staff was instructed to remove sediment from gutterpan before leaving working site.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 10/30/2020 3:24:20 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297199

REPORT DATE: 11/2/2020 1:20:00 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sediment laden water

LOCATION: ILLICIT DISCHARGE-3300 Colonial Ave
3300 Colonial Ave

RESPONSIBLE PARTY: Verizon

ADDRESS& PHONE: 1094 N Military Highway Norfolk, VA 23502

DATE OF DISCHARGE: 10/30/2020 10:55:00 AM

DATE/TIME REPORTED: 10/30/2020 3:24:20 PM

REPORTED TO DEQ/DCR BY: C.VanLear

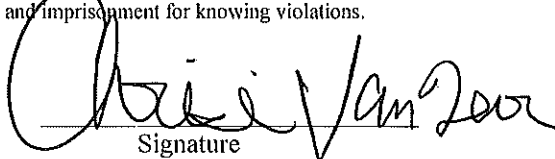
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Stormwater staff observed Verizon dewatering without a sediment bag causing sediment to enter into the nearest stormdrain. Staff spoke to Verizon employees and learned that they were no longer dewatering. Verizon staff was instructed to remove sediment from gutterpan before leaving working site.

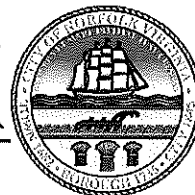
CORRECTIVE ACTION: Verizon staff was instructed to remove sediment from gutterpan before leaving working site.

IMPACT TO STATE WATERS: No

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 of 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.


Signature

11/2/2020
Date



November 4, 2020

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 297251

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of power steering fluid and transmission fluid on November 3, 2020, at approximately 12:30pm. The description of the incident is as follows:

A City of Norfolk – Public Works waste management vehicle spilled approximately 3 gallons of power steering fluid and transmission fluid into the street and storm drain. A very small amount entered the storm drain. Waste Management staff were able to contain the spill to the storm drain due to a stoppage in the system. HEPACO was contacted and conducted a thorough cleaning of the street and storm drain. No waterways were affected, and all material was recovered.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on November 3, 2020 at approximately 1:10pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, reading "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297251

REPORT DATE: 11/4/2020 8:30am

ESTIMATED QUANTITY: 3 gals

TYPE OF DISCHARGE: Combination of power steering and transmission fluids

LOCATION: 1400 block of Lead St.

RESPONSIBLE PARTY:
ADDRESS& PHONE: City of Norfolk – Waste Management
1176 Pineridge Rd. (757-441-1176)

DATE OF DISCHARGE: 11/3/2020 12:30pm

DATE/TIME
REPORTED: 11/3/2020 1:10pm

REPORTED TO DEQ/DCR
BY: C. Magruder

REPORTED TO: Online PREP

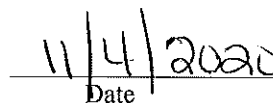
DESCRIPTION OF
DISCHARGE: A City of Norfolk – Public Works waste management vehicle spilled approximately 3 gallons of power steering fluid and transmission fluid into the street and storm drain. A very small amount entered the storm drain.

CORRECTIVE ACTION: Waste Management staff were able to contain the spill to the storm drain due to a stoppage in the system. HEPACO was contacted and conducted a thorough cleaning of the street and storm drain. All material was recovered.

IMPACT TO STATE
WATERS: None

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 of 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.


Signature


Date

November 5, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297226

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage on 10/31/2020 11:45:00 PM. The description of the incident is as follows:

Storm water staff was notified of a Sanitary Sewer Overflow on 11/2/2020 from David Taylor at DEQ that was reported directly to DEQ on 10/31/2020. Storm water staff immediately notified the Department of Utilities and conducted a site inspection after notification. Both the Storm Water Inspector and Utilities employee did not find evidence of a SSO on the pavement nearby or in the nearby storm drains located near 571 E Little Creek Road. Utilities revisited the site on 11/3/2020 and verified that they did not find any evidence of a SSO.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 11/2/2020 7:52:03 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297226

REPORT DATE: 11/5/2020 11:23:00 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-571 E Little Creek Road

RESPONSIBLE PARTY: City of Norfolk- Department of Utilities (David Speer)
ADDRESS& PHONE: 1316 Ballentine Blvd
Norfolk, VA 23504

DATE OF DISCHARGE: 10/31/2020 11:45:00 PM

DATE/TIME REPORTED: 11/2/2020 7:52:00 AM

REPORTED TO DEQ/DCR BY: David Taylor (DEQ)

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Storm water staff was notified of a Sanitary Sewer Overflow on 11/2/2020 from David Taylor at DEQ that was reported directly to DEQ on 10/31/2020. Storm water staff immediately notified the Department of Utilities and conducted a site inspection after notification. Both the Storm Water Inspector and Utilities employee did not find evidence of a SSO on the pavement nearby or in the nearby storm drains located near 571 E Little Creek Road. Utilities revisited the site on 11/3/2020 and verified that they did not find any evidence of a SSO.

CORRECTIVE ACTION: N/A

IMPACT TO STATE WATERS: N/A

11/05/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297246

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment laden water on 11/2/2020 1:30:00 PM. The description of the incident is as follows:

Dewatering on construction site in 2 locations. On Carolina Ave there was no sediment bag. The second location on 38th street had a bag that was breached. Stormwater staff spoke to contractors to attach bags to both dewatering devices and move farther inland away from sidewalk. In both locations the sediment laden water did reach the nearest storm drains, but there were gutter buddies present in front of the drop inlets.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 11/02/2020 3:13:38 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297246

REPORT DATE: 11/5/2020 01:38:00 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sediment laden water

LOCATION: ILLICIT DISCHARGE- Corner of 38th Street and Carolina Ave Norfolk, VA

RESPONSIBLE PARTY: Bridgeman Civil (Robert Hill)

ADDRESS& PHONE:

DATE OF DISCHARGE: 11/2/2020 1:30:00 PM

DATE/TIME REPORTED: 11/2/2020 3:13:38 PM

REPORTED TO DEQ/DCR BY: C.VanLear

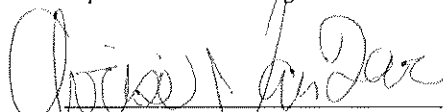
REPORTED TO: Online Prep

DESCRIPTION OF DISCHARGE: Dewatering on construction site in 2 locations. On Carolina Ave there was no sediment bag. The second location on 38th street had a bag that was breached. Stormwater staff spoke to contractors to attach bags to both dewatering devices and move farther inland away from sidewalk. In both locations the sediment laden water did reach the nearest storm drains, but there were gutter buddies present in front of the drop inlets.

CORRECTIVE ACTION: Sediment was cleaned from pavement and sediment bags were attached to both dewatering locations.

IMPACT TO STATE WATERS: Yes

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 of 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.


Signature

11/5/2020
Date



November 6, 2020

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 297286

Dear Sir or Madam:

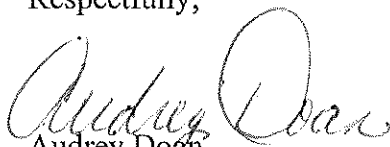
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of potential cooking grease and soap suds on November 4, 2020, at approximately 9:00am. The description of the incident is as follows:

During a routine onsite stormwater BMP inspection, the City of Norfolk inspector observed a potential release of cooking grease and soap suds in a curb inlet. The property maintenance staff was notified, and the release was cleaned within 24 hours. Note that the observed cooking grease was not actually cooking grease but the discolored concrete bottom of the storm drain. No waterways were affected, and all material was recovered.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on November 5, 2020 at approximately 8:00am.

Please let me know if you have any questions regarding this incident.

Respectfully,


Audrey Doan
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297286

REPORT DATE: 11/5/2020

ESTIMATED QUANTITY: Less than one gallon

TYPE OF DISCHARGE: Potential cooking grease/Soap suds

LOCATION: 111 E. 18th Street, Norfolk, VA

RESPONSIBLE PARTY:
ADDRESS& PHONE: Harley Handy/Steelhead Management/111 E. 18th
Street, Norfolk, VA 757-663-7545

DATE OF DISCHARGE: 11/4/2020

DATE/TIME
REPORTED: 11/5/2020/8:00am

REPORTED TO DEQ/DCR
BY: A. Doan

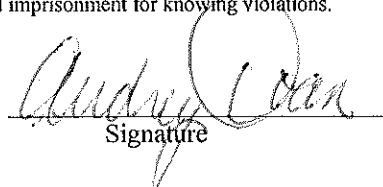
REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: Potential cooking grease and soap suds in a curb inlet. This
release did not reach the city storm system. It was isolated
to the drain.

CORRECTIVE ACTION: The property maintenance staff cleaned the curb inlet. It
was not cooking grease, but the discolored concrete
bottom of the storm drain. The soap suds were
recovered.

IMPACT TO STATE
WATERS: None

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 of 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.


Signature

11-6-2020
Date

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297286

REPORT DATE: 11/5/2020

ESTIMATED QUANTITY: Less than one gallon

TYPE OF DISCHARGE: Potential cooking grease/Soap suds

LOCATION: 111 E. 18th Street, Norfolk, VA

RESPONSIBLE PARTY:
ADDRESS& PHONE: Harley Handy/Steelhead Management/111 E. 18th
Street, Norfolk, VA 757-663-7545

DATE OF DISCHARGE: 11/4/2020

DATE/TIME
REPORTED: 11/5/2020/8:00am

REPORTED TO DEQ/DCR
BY: A. Doan

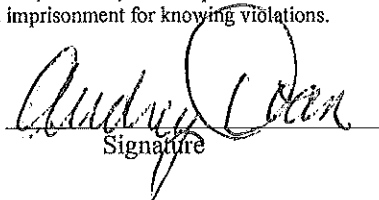
REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: Potential cooking grease and soap suds in a curb inlet. This
release did not reach the city storm system. It was isolated
to the drain.

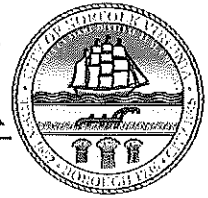
CORRECTIVE ACTION: The property maintenance staff cleaned the curb inlet. It
was not cooking grease, but the discolored concrete
bottom of the storm drain. The soap suds were
recovered.

IMPACT TO STATE
WATERS: None

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 of 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.


Signature

11-6-2020
Date



November 13, 2020

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 297377

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of antifreeze overnight on November 12, 2020 that was found at approximately 7:30am. The description of the incident is as follows:

City crews arrived at Storm Water Pump Station #1 (199 Boush Street) on 11/12/2020 at 7:30am and found an antifreeze leak in the building. Crews recovered approximately 15 gallons of product. A service technician completed repairs on 11/12/2020 at 7:00pm and refilled the equipment with approximately 35 gallons of antifreeze. At that time staff realized that approximately 20 gallons of antifreeze had not been recovered and had been released into the Elizabeth River.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on November 13, 2020 at approximately 8:30am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in black ink, appearing to read "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297377

REPORT DATE: 11/13/2020 9:00am

ESTIMATED QUANTITY: 20 gals

TYPE OF DISCHARGE: Antifreeze

LOCATION: 199 Boush Street – Storm Water Pump Station #1

RESPONSIBLE PARTY:
ADDRESS& PHONE: City of Norfolk – Storm Water
2233 McKann Ave. (757-823-4010)

DATE OF DISCHARGE: 11/12/2020 7:30am

DATE/TIME
REPORTED: 11/13/2020 8:30am

REPORTED TO DEQ/DCR
BY: C. Magruder

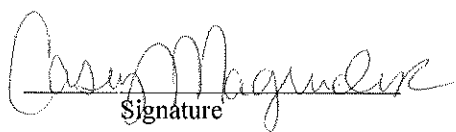
REPORTED TO: Online PREP

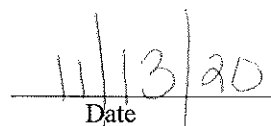
DESCRIPTION OF
DISCHARGE: City crews arrived at Storm Water Pump Station #1 (199 Boush Street) on 11/12/2020 at 7:30am and found an antifreeze leak in the building.

CORRECTIVE ACTION: Crews recovered approximately 15 gallons of product. A service technician completed repairs on 11/12/2020 at 7:00pm and refilled the equipment with approximately 35 gallons of antifreeze. At that time staff realized that approximately 20 gallons of antifreeze had not been recovered and had been released into the Elizabeth River.

IMPACT TO STATE
WATERS: Elizabeth River

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 of 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.


Signature


Date

November 23, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297538

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sediment laden water on November 20, 2020, at approximately 12:30 pm. The description of the incident is as follows:

Stormwater received a citizen complaint of Verizon pumping groundwater without the appropriate controls. Staff investigated and spoke with Verizon employee who shut off the pump until a sediment bag could be attached.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on November 20, 2020 at approximately 2:51 PM.

Please let me know if you have any questions regarding this incident.

Respectfully,



Chrisi VanLear
Environmental Programs Supervisor

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297538

REPORT DATE: 11/23/2020 1:40 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sediment laden water

LOCATION: ILLICIT DISCHARGE-28th and Colonial Ave

RESPONSIBLE PARTY: Verizon
ADDRESS& PHONE:

DATE OF DISCHARGE: 11/20/2020 12:30:00 PM

DATE/TIME REPORTED: 11/20/2020 2:51:31 PM

REPORTED TO DEQ/DCR BY: C.VanLear

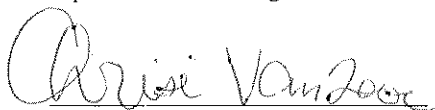
REPORTED TO: Online Prep

DESCRIPTION OF DISCHARGE: Stormwater received a citizen complaint of Verizon pumping groundwater without the appropriate controls. Staff investigated and spoke with Verizon employee who shut off the pump until a sediment bag could be attached.

CORRECTIVE ACTION: Verizon contractor turned off pump and was instructed to not restart until a sediment bag was attached.

IMPACT TO STATE WATERS: No

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 of 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.


Signature

11/23/2020
Date

November 23, 2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297518

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of power washing discharge on November 18, 2020, at approximately 3:15pm. The description of the incident is as follows:

A contractor was observed power washing a driveway and the runoff entered into the gutter pan and the nearest storm drain. Stormwater staff stopped and spoke with contractor. Power washing ceased, and contractor was instructed to remove water from gutterpan

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on November 19, 2020 at approximately 10:15am.

Please let me know if you have any questions regarding this incident.

Respectfully,



Chrisi VanLear
Environmental Programs Supervisor

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297518

REPORT DATE: 11/23/2020 12:50 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Power washing discharge water

LOCATION: ILLICIT DISCHARGE-4816 Denver Ave

RESPONSIBLE PARTY: Contractor on site
ADDRESS& PHONE:

DATE OF DISCHARGE: 11/18/2020 3:15 PM

DATE/TIME REPORTED: 11/19/2020 10:15:53 AM

REPORTED TO DEQ/DCR BY: C.VanLear

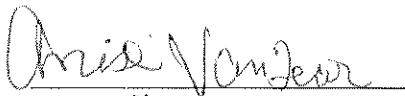
REPORTED TO: Online Prep

DESCRIPTION OF DISCHARGE: Contractor was observed power washing driveway into gutter pan. Stormwater staff stopped and spoke with contractor. Power washing ceased, and contractor was instructed to remove water from gutter pan.

CORRECTIVE ACTION: Staff spoke with contractor and gutter pan was cleaned from the wash water.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date

11/25/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297557

Dear Sir or Madam:

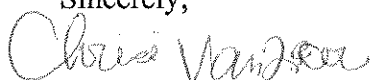
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of sewage on 11/23/2020 2:35:00 PM. The description of the incident is as follows:

Stormwater staff observed a Verizon contractor was decanting a manhole that appears to be impacted by sanitary sewer line. There was a noticeable sewage smell and floatables that appeared on the roadway and in the nearest gutter pan. Stormwater staff instructed the contractor from JDS Claves LLC to stop pumping and clean the road way and gutter pan that was impacted. A Notice of Violation was issued to the supervisor on the site.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 11/23/2020 3:27:41 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297557

REPORT DATE: 11/25/2020 8:40 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE-Virginia Beach Blvd and Park Ave intersection Norfolk, VA

RESPONSIBLE PARTY: JDS Claves LLC
ADDRESS& PHONE:

DATE OF DISCHARGE: 11/23/2020 2:35 PM

DATE/TIME REPORTED: 11/23/2020 3:27:41 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: Online Prep

DESCRIPTION OF DISCHARGE: Stormwater staff observed a Verizon contractor was decanting a manhole that appears to be impacted by sanitary sewer line. There was a noticeable sewage smell and floatables that appeared on the roadway and in the nearest gutter pan. Stormwater staff instructed the contractor from JDS Claves LLC to stop pumping and clean the road way and gutter pan that was impacted. A Notice of Violation was issued to the supervisor on the site.

CORRECTIVE ACTION: Stormwater staff instructed the contractor from JDS Claves LLC to stop pumping and clean the road way and gutter pan that was impacted. A Notice of Violation was issued to the supervisor on the site.

IMPACT TO STATE WATERS: Yes

11/25/2020

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 297525

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was a spill of used motor oil on 11/15/2020 8:00:00 AM. The description of the incident is as follows:

Stormwater staff was notified on 11/19/2020 at 3:27 pm of an oil spill at 7913 Azalea Garden Road. Peter Mack investigated and found that a 300 gallon used motor oil tank at Precise Auto Care located at 2480 E Little Creek Road had leaked approximately 250 gallons of oil onto the ground and adjacent properties. After speaking with staff at Precise Auto Care, the tank was not leaking on 11/16/2020 and when they arrived at work on 11/17/2020 noticed there was a large discharge from the tank. Precise Auto Care staff attempted to clean up the spill with absorbent. Mr. Mack spoke with the Manager on Duty and informed her that they will need to hire a professional company to remediate this spill. Precise Auto Care called multiple companies to provide cleanup assistance and the earliest that they can have someone out to clean up the spill is 11/21/2020. No storm drains were impacted, or in close proximity to the location of the spill. Moran Environmental provided recovery and excavated approximately 30 yards of contaminated Earth at the spill site. The tank has since been removed from the property. Moran staff has provided stabilization to all denuded areas caused by excavation.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 11/20/2020 7:40:33 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 297525

REPORT DATE: 11/25/2020 8:27 AM

ESTIMATED QUANTITY: 250 gallons

TYPE OF DISCHARGE: Used motor oil

LOCATION: SPILL-2480 E Little Creek Road

RESPONSIBLE PARTY: Precise Auto Care
ADDRESS& PHONE: 2480 E Little Creek Road Norfolk, VA 23518

DATE OF DISCHARGE: 11/15/2020 8:00 AM

**DATE/TIME
REPORTED:** 11/20/2020 7:40:33 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: Online Prep

**DESCRIPTION OF
DISCHARGE:** Stormwater staff was notified on 11/19/2020 at 3:27 pm of an oil spill at 7913 Azalea Garden Road. Peter Mack investigated and found that a 300 gallon used motor oil tank at Precise Auto Care located at 2480 E Little Creek Road had leaked approximately 250 gallons of oil onto the ground and adjacent properties. After speaking with staff at Precise Auto Care, the tank was not leaking on 11/16/2020 and when they arrived at work on 11/17/2020 noticed there was a large discharge from the tank. Precise Auto Care staff attempted to clean up the spill with absorbent. Mr. Mack spoke with the Manager on Duty and informed her that they will need to hire a professional company to remediate this spill. Precise Auto Care called multiple companies to provide cleanup assistance and the earliest that they can have someone out to clean up the spill is 11/21/2020. No storm drains were impacted, or in close proximity to the location of the spill. Moran Environmental provided recovery and excavated approximately 30 yards of contaminated Earth at the spill site. The tank has since been removed from the property. Moran staff has provided stabilization to all denuded areas caused by excavation.

CORRECTIVE ACTION: Moran Environmental provided recovery and excavated

1/20/2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 298009

Dear Sir or Madam:


In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of oil on 1/14/2021 12:30 PM. The description of the incident is as follows:

Storm water staff received a complaint of a citizen dumping oil into the storm drain. Storm water staff, a Fire Marshall, Police and Fire responded to the site. Staff was able to track the oil and block off the storm drain from moving further in the system. No outfalls were impacted. Inspector Ching from the Fire Marshall's office wrote the citizen a summons, and HEPACO was called to provide remediation.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 1/15/2021 8:20 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,


Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298009

REPORT DATE: 1/20/2021 2:55 PM

ESTIMATED QUANTITY: Approximately 1 gallon

TYPE OF DISCHARGE: Oil

LOCATION: ILLICIT DISCHARGE-1330 Branch Road Norfolk, VA 23513

RESPONSIBLE PARTY: The Academy of International Studies at Rosemont
ADDRESS& PHONE: Citizen (Inspector Ching has this information from the summons written, but I was unable to get in touch with him for this letter)

DATE OF DISCHARGE: 1/14/2021 12:30 PM

DATE/TIME REPORTED: 1/15/2021 8:20 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Storm water staff received a complaint of a citizen dumping oil into the storm drain. Storm water staff, a Fire Marshall, Police and Fire responded to the site. Staff was able to track the oil and block off the storm drain from moving further in the system. No outfalls were impacted. Inspector Ching from the Fire Marshall's office wrote the citizen a summons, and HEPACO was called to provide remediation.

CORRECTIVE ACTION: Inspector Ching from the Fire Marshall's office wrote the citizen a summons, and HEPACO was called to provide remediation.

IMPACT TO STATE WATERS: None

January 27, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 298090

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of vehicular fluids from a fire event on 1/22/2021 09:10:00 AM. The description of the incident is as follows:

Storm water staff received notification from NPD Dispatch of a vehicle fire with vehicle fluids going into storm drain. Vehicular fluids did enter into the storm drain, but were isolated to that structure due to clog. HEPACO responded to the site and provided spill response.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 1/22/2021 1:40:14 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298090

REPORT DATE: 1/27/2021 8:32:00 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Vehicular fluids from fire event

LOCATION: ILLICIT DISCHARGE-N. Military Highway on 264 over pass

RESPONSIBLE PARTY: Miguel Strother (Richards Building Supply)
ADDRESS& PHONE: 907 Live Oak Drive Chesapeake, VA 23320

DATE OF DISCHARGE: 1/22/2021 09:10:00 AM

DATE/TIME REPORTED: 1/22/2021 01:40:14 PM

REPORTED TO DEQ/DCR BY: C.VanLear


REPORTED TO: TRO Prep

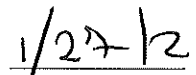
DESCRIPTION OF DISCHARGE: Storm water staff received notification from NPD Dispatch of a vehicle fire with vehicle fluids going into storm drain. Vehicular fluids did enter into the storm drain, but were isolated to that structure due to clog. HEPACO responded to the site and provided spill response.

CORRECTIVE ACTION: HEPACO responded to the site and provided spill response.

IMPACT TO STATE WATERS: None

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 of 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.


Signature


Date



January 28, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 298131

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of latex paint on January 26, 2021 at approximately 11:45am. The description of the incident is as follows:

Approximately 1 gallon of white latex paint fell out of a truck and busted open in the street at 329 W. Princess Anne Road. Paint was tracked down the street and approximately one-half gallon entered the storm drain. The paint was contained by City crews, and the City's contractor (HEPACO) cleaned the storm drains and recovered all product. City staff cleaned the paint from the street. No waterways were affected.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on January 26, 2021 at approximately 2:55pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive script that reads "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298131
REPORT DATE: 1/28/2021 9:00am
ESTIMATED QUANTITY: 1 gal
TYPE OF DISCHARGE: White Latex Paint
LOCATION: 329 W. Princess Anne Road
RESPONSIBLE PARTY: Unknown
ADDRESS& PHONE:

DATE OF DISCHARGE: 1/26/2021 11:45am

**DATE/TIME
REPORTED:** 1/26/2021 2:55pm

**REPORTED TO DEQ/DCR
BY:** C. Magruder

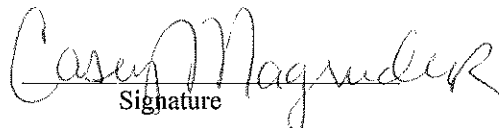
REPORTED TO: Online PREP

**DESCRIPTION OF
DISCHARGE:** Approximately 1 gallon of white latex paint fell out of a truck and busted open in the street at 329 W. Princess Anne Road. Paint was tracked down the street and approximately one-half gallon entered the storm drain.

CORRECTIVE ACTION: The paint was contained by City crews, and the City's contractor (HEPACO) cleaned the storm drains and recovered all product. City staff cleaned the paint from the street. No waterways were affected.

**IMPACT TO STATE
WATERS:** NA

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 of 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.


Signature


Date

February 5, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 298216

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of soapy water on 2/03/2021 11:25:00 AM. The description of the incident is as follows:

Stormwater staff noticed a white, milky like substance in the gutter pan outside of Captain D's restaurant. Upon further investigation, Captain D's Manager on site admitted to washing kitchen floors, and disposing of wash water out the side door. Stormwater staff met with the District Manager and Bay Environmental on site, and a vactor truck from Bay Environmental was called to provide spill response and vactored out the affected storm drains. No outfalls were impacted. A Notice of Violation was issued to Robert Jones.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 2/3/2021 2:55:29 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298216

REPORT DATE: 2/05/2021 8:28:00 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Soapy water

LOCATION: ILLICIT DISCHARGE-Captain D's
116 E 21st Street Norfolk, VA 23517

RESPONSIBLE PARTY: Captain D's (Robert Jones)
ADDRESS& PHONE: 2224 Springfield Ave Norfolk, VA 23523

DATE OF DISCHARGE: 2/03/2021 11:25:00 AM

DATE/TIME REPORTED: 2/03/2021 2:55:29 PM

REPORTED TO DEQ/DCR BY: C.VanLear

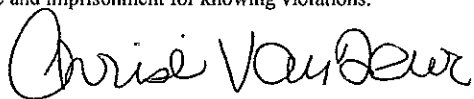
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Stormwater staff noticed a white, milky like substance in the gutter pan outside of Captain D's restaurant. Upon further investigation, Captain D's Manager on site admitted to washing kitchen floors, and disposing of wash water out the side door. Stormwater staff met with the District Manager and Bay Environmental on site, and a vactor truck from Bay Environmental was called to provide spill response and vactored out the affected storm drains. No outfalls were impacted.

CORRECTIVE ACTION: Notice of Violation was issued to Robert Jones. Stormwater staff met on site with Store Manager and District Manager.

IMPACT TO STATE WATERS: No

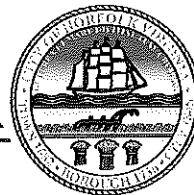
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system of 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.



Signature



Date



February 9, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 298279

Dear Sir or Madam:


In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of National Aer-O-Lite 3% AFFF on February 5, 2021 that was found at approximately 12:00 pm. The description of the incident is as follows:

A City crew arrived at Morningstar Marinas located at 8166 shore Drive on February 5, 2021 at approximately 12:00 pm and found fire suppression foam in the onsite hydrodynamic separator and Little Creek. According to Mr. Sullivan, who contacted the Fire Department and VSC Fire & Security, VSC used a company called Vector to refill their foam suppression system on February 4, 2021. After they were done draining the tank and refilling, we believe that some of the foam liquid drained out as well. It drained into one of their stormwater drains next to the fire suppression room which links to the said storm drain. The liquid was agitated into foam because of the hydrodynamic separator. VSC agreed to clean up the spill. It was estimated that 1-5 gallons of material was released. The spill was contained by the pier using booms and the hydrodynamic separator was cleaned out.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on February 9, 2021 at approximately 7:30 am.

Please let me know if you have any questions regarding this incident.

Respectfully,


Audrey Doan
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298279

REPORT DATE: 2/9/2021 7:30 am

ESTIMATED QUANTITY: 1-5 gallons

TYPE OF DISCHARGE: National Aer-O-Lite 3% AFFF

LOCATION: 8166 Shore Drive, Norfolk, VA 23518

RESPONSIBLE PARTY:
ADDRESS& PHONE: David "Sully" Sullivan, Morningstar Marinas, 8166 Shore Drive, Norfolk, VA 23518 757-587-8000

DATE OF DISCHARGE: 2/5/2021 12:00 pm

DATE/TIME
REPORTED: 2/9/2021 7:30 am

REPORTED TO DEQ/DCR
BY: Audrey Doan

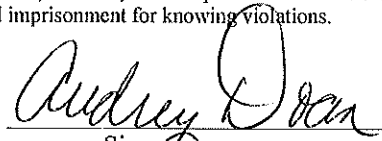
REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: City crew arrived at Morning star Marinas at 8166 Shore Drive at 12:00 pm and found foam in the onsite storm drain and in Little Creek.

CORRECTIVE ACTION: During a routine draining and refilling of the fire suppression tank, some of the foam liquid drained out. It drained into one of the stormwater drains next to the fire suppression room which links to the said storm drain. VSC cleaned up the spill. The spill was contained by the pier using booms and cleaned up and the hydrodynamic separator was cleaned out. Approximately 1-5 gallons was released.

IMPACT TO STATE
WATERS: Little Creek

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 of 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.


Signature

2.9.2021
Date

March 2, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 298539

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was a discharge of oil on 2/25/2021 14:10:00 PM. The description of the incident is as follows:

Storm water staff was notified of a leaking underground oil tank from Fire Marshall Ching. Peter Mack investigated and did not find that it entered into nearby storm drains. DEQ was previously notified of this issue by Taylor Weathers from Bay Environmental, Inc and received the DEQ Pollution Complaint #2021-5161. Attached is additional information from Mr. Weathers, as well as the notice from DEQ.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 2/25/2021 15:39:15 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298539

REPORT DATE: 3/02/2021 8:44 AM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Oil

LOCATION: DISCHARGE-129 W Belvedere Road

RESPONSIBLE PARTY: William and Katherine Townsend
ADDRESS& PHONE: 129 W Belvedere Road Norfolk, VA 23505

DATE OF DISCHARGE: 2/25/2021 14:10:00 PM

DATE/TIME REPORTED: 2/25/2021 15:39:15 PM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

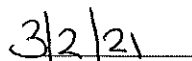
DESCRIPTION OF DISCHARGE: Storm water staff was notified of a leaking underground oil tank from Fire Marshall Ching. Peter Mack investigated and did not find that it entered into nearby storm drains. DEQ was previously notified of this issue by Taylor Weathers from Bay Environmental, Inc and received the DEQ Pollution Complaint #2021-5161. Attached is additional information from Mr. Weathers, as well as the notice from DEQ.

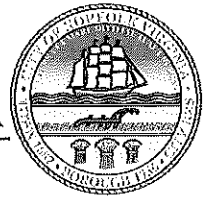
CORRECTIVE ACTION: Resident is working with DEQ and Bay Environmental for remediation.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date



March 4, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 298602

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of vehicle wastewater on March 2, 2021 that was found at approximately 1:05 pm. The description of the incident is as follows:

Stormwater staff was on site conducting a commercial inspection of the Avis-Rent-A-Car and observed vehicles being washed in the parking lot. Wastewater entered the storm drains on site and on the nearest ditch along Miller Store Road. Manager Lisa Larion called and initiated cleanup remediation while stormwater staff was on site. A Notice of Violation was issued to Avis. The wastewater was contained within the ditch by a natural barrier. First Call Environmental responded and provided remediation for and the stormwater ditch along Miller Store Road and the outfall pipe from Avis. Stormwater reinspected the site on March 3, 2021 and found no evidence of the illicit discharge.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on March 2, 2021 at approximately 2:24 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

Chrisi VanLear
Environmental Programs Supervisor

Enclosure

cc: File

INCIDENT NO: 298602

REPORT DATE: 3/4/2021 11:00am

ESTIMATED QUANTITY: 5 gallons

TYPE OF DISCHARGE: Wastewater

LOCATION: 3474 N Military Highway- Avis-Rent-A-Car

RESPONSIBLE PARTY: Avis-Rent-A-Car (Lisa Larion)
ADDRESS& PHONE: 3474 N Military Highway (757-701-7658)

DATE OF DISCHARGE: 03/02/2021 1:05 pm

DATE/TIME REPORTED: 03/02/2021 2:24 pm

REPORTED TO DEQ/DCR BY: C. VanLear

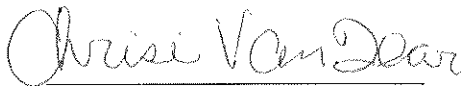
REPORTED TO: Online PREP

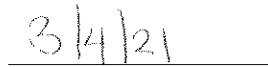
DESCRIPTION OF DISCHARGE: Stormwater staff was on site conducting a commercial inspection of the Avis-Rent-A-Car and observed vehicles being washed in the parking lot. Wastewater entered the storm drains on site and on the nearest ditch along Miller Store Road.

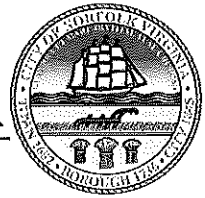
CORRECTIVE ACTION: Manager Lisa Larion called and initiated cleanup remediation while stormwater staff was on site. A Notice of Violation was issued to Avis. The wastewater was contained within the ditch by a natural barrier. First Call Environmental responded and provided remediation for and the stormwater ditch along Miller Store Road and the outfall pipe from Avis. Stormwater reinspected the site on March 3, 2021 and found no evidence of the illicit discharge.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date



March 12, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 298721

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of concrete on March 09, 2021 at approximately 3:30 pm. The description of the incident is as follows:

Stormwater staff received a citizen complaint after hours of a contractor improperly disposing of concrete wastewater. Staff investigated and found evidence of concrete in the catch basin. The property owner, Donald Bell, gave staff the information for the contractor, Knights Masonry Concrete. A Notice of Violation was written to the property owner. The owner from Knights Masonry Concrete removed the hardened concrete from the catch basin. No outfalls were impacted.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on March 10, 2021 at approximately 2:57pm.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive script, reading "Chrisi VanLear".

Chrisi VanLear
Environmental Program Supervisor

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO:	298721
REPORT DATE:	3/12/2021 10:45am
ESTIMATED QUANTITY:	Unknown
TYPE OF DISCHARGE:	Concrete wastewater
LOCATION:	3788 Karlin Ave
RESPONSIBLE PARTY: ADDRESS& PHONE:	Donald Bell (Don Bell Home Repairs, Inc) 5348 Brockie Street Virginia Beach, VA 23464 757-450-1097
	Knights Masonry Concrete 757-354-6935 252-357-2122
DATE OF DISCHARGE:	3/09/2021 3:30 pm
DATE/TIME REPORTED:	3/10/2021 2:57 pm
REPORTED TO DEQ/DCR BY:	C.VanLear
REPORTED TO:	Online PREP
DESCRIPTION OF DISCHARGE:	Stormwater staff received a citizen complaint after hours of a contractor improperly disposing of concrete wastewater. Staff investigated and found evidence of concrete wastewater in the catch basin.
CORRECTIVE ACTION:	The property owner, Donald Bell, gave staff the information for the contractor, Knights Masonry Concrete. A Notice of Violation was written to the property owner. The owner from Knights Masonry Concrete removed the hardened concrete from the catch basin. No outfalls were impacted.
IMPACT TO STATE WATERS:	NA



March 26, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 298878

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of latex roof paint on March 24, 2021 during the overnight hours. The description of the incident is as follows:

Roofing contractors painted the roof of the City of Norfolk – Waste Management administration building on March 23, 2021. When staff arrived at work on March 24, 2021 they found that rain overnight had washed an unknown amount of the paint off the roof and into the storm drain system, which then entered Broad Creek. The outfall ditch was dammed and the City's clean-up contractor (HEPACO) cleaned the parking lot and flushed the storm drains. Approximately 2500 gallons of contaminated wash water was recovered.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on March 24, 2021 at approximately 9:30am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive script that reads "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 298878

REPORT DATE: 3/26/2021 8:30am

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Latex Roof Paint

LOCATION: 1176 Pineridge Road

RESPONSIBLE PARTY:
ADDRESS& PHONE: Roof Services
3056 Holland Road
Virginia Beach, VA 23453
757-468-4443

DATE OF DISCHARGE: 3/24/2021 Overnight

DATE/TIME
REPORTED: 3/24/2021 9:30am

REPORTED TO DEQ/DCR
BY: C. Magruder

REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: Roofing contractors painted the roof of the City of Norfolk – Waste Management administration building on March 23, 2021. When staff arrived at work on March 24, 2021 they found that rain overnight had washed an unknown amount of the paint off the roof and into the storm drain system, which then entered Broad Creek.

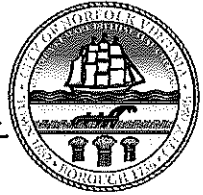
CORRECTIVE ACTION: The outfall ditch was dammed and the City's clean-up contractor (HEPACO) cleaned the parking lot and flushed the storm drains. Approximately 2500 gallons of contaminated wash water was recovered.

IMPACT TO STATE
WATERS: Broad Creek

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 of 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.


Signature


Date



April 8, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 299015

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of lime slurry on April 1, 2021 that was found at approximately 10:00 am. The description of the incident is as follows:

During a routine BMP inspection on April 1, 2021, the City of Norfolk stormwater inspector noted a white milky substance at the outfall into the BMP. The white milky substance was determined to be lime slurry that was accidentally released into the onsite storm drain system and into the onsite BMP. It was determined to be approximately 150 pounds of lime that was released. The spill was contained at the outfall and within the BMP. A clean-up company has been contracted to clean up the lime. I will follow up when final cleanup has been attained.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on April 1, 2021 at approximately 10:30 am.

Please let me know if you have any questions regarding this incident.

Respectfully,

Audrey Doan
Environmental Specialist II

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299015

REPORT DATE: 4/1/2021 10:30 am

ESTIMATED QUANTITY: 150 pounds

TYPE OF DISCHARGE: Lime slurry

LOCATION: 6040 Water Works Road, Norfolk, VA

RESPONSIBLE PARTY:
ADDRESS& PHONE: Moores Bridges Water Treatment Plant, The' Garrison,
Water Quality Manager, 6040 Water Works Road, 757-
441-5678 ext. 228

DATE OF DISCHARGE: 4/1/2021 8:00 am

DATE/TIME
REPORTED: 4/1/2021 10:30 am

REPORTED TO DEQ/DCR
BY: Audrey Doan

REPORTED TO: Online PREP

DESCRIPTION OF
DISCHARGE: Approximately 150 pounds of lime/slurry was released into
the onsite storm drain system

CORRECTIVE ACTION: The site is currently being cleaned. I will follow-up when
cleanup is completed.

IMPACT TO STATE
WATERS: none

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 of 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.

Audrey Doan
Signature

4/8/2021
Date

4/06/2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299014

Dear Sir or Madam:

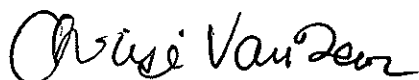
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of grease on 3/31/2021 at 2:15 PM. The description of the incident is as follows:

Storm water staff was notified of a grease trap leaking from F.O.G Supervisor, Lindsey Dierks. Staff investigated and found that it had entered into the storm drain on site. A boom was placed to contain grease in the two pipes connected to the catch basin. Property Manager Henry Wilcox hired A Clean Bay to provide remediation. I re-inspected the site on April 1st and spoke with the Supervisor from A Clean Bay and addressed the spill. No outfalls appear to be impacted.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 4/01/2021 9:54 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299014

REPORT DATE: 4/06/2021 2:57 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Grease

LOCATION: ILLICIT DISCHARGE- 201 E Berkley Ave
Norfolk, VA 23523

RESPONSIBLE PARTY: Colliers-Henry Wilcox
ADDRESS& PHONE: 150 W. Main Street
Suite 1100
Norfolk, VA 23510

DATE OF DISCHARGE: 3/31/2021 2:15 PM

DATE/TIME REPORTED: 4/1/2021 9:54 AM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Storm water staff was notified of a grease trap leaking from F.O.G Supervisor, Lindsey Dierks. Staff investigated and found that it had entered into the storm drain on site.

CORRECTIVE ACTION: A boom was placed to contain grease in the two pipes connected to the catch basin. Property Manager Henry Wilcox hired A Clean Bay to provide remediation. I re-inspected the site on April 1st and spoke with the Supervisor from A Clean Bay and addressed the spill. No outfalls appear to be impacted.

IMPACT TO STATE WATERS: No

4/13/2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299161

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of grease on 4/13/2021 07:50:00 AM. The description of the incident is as follows:

Storm water staff was notified on 4/13/2021 of a company, Steam Pro, that power washed restaurant hoods from the Brick Anchor onto the sidewalk yesterday afternoon, 4/12/2021. Storm water inspector spoke with General Manager and owner of the Brick Anchor and addressed the video/pictures that staff received of Steam Pro power washing parts of restaurant hoods on sidewalk. Owner (Phil) will clean up sediment puddles in the alley and storm water staff removed small amount of what appeared to be a grease sheen from the DI right outside of where the power washing took place. Brick Anchor staff was educated on illicit discharges, and pollution of the stormwater system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 4/13/2021 12:43:33 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO:	299161
REPORT DATE:	4/13/2021 01:19:00 PM
ESTIMATED QUANTITY:	Unknown
TYPE OF DISCHARGE:	Grease/wash water
LOCATION:	ILLICIT DISCHARGE- 241 Granby Street
RESPONSIBLE PARTY:	Steam Pro/The Brick Anchor
ADDRESS& PHONE:	241 Granby Street
	Norfolk, VA 23510
DATE OF DISCHARGE:	4/13/2021 07:50:00 AM
DATE/TIME	4/13/2021 12:43:33 PM
REPORTED:	
REPORTED TO DEQ/DCR	C.VanLear
BY:	
REPORTED TO:	TRO Prep
DESCRIPTION OF	Storm water staff was notified on 4/13/2021 of a company,
DISCHARGE:	Steam Pro, that power washed restaurant hoods from the
	Brick Anchor onto the sidewalk yesterday afternoon,
	4/12/2021. Storm water inspector spoke with General
	Manager and owner of the Brick Anchor and addressed the
	video/pictures that staff received of Steam Pro power
	washing parts of restaurant hoods on side walk.
CORRECTIVE ACTION:	Owner (Phil) will clean up sediment puddles in the alley
	and storm water staff removed small amount of what
	appeared to be a grease sheen from the DI right outside of
	where the power washing took place. Brick Anchor staff
	was educated on illicit discharges, and pollution of the
	stormwater system.
IMPACT TO STATE	Yes
WATERS:	

4/13/2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299087

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of grease on 4/07/2021 01:05:00 PM. The description of the incident is as follows:

Storm water staff was notified of a grease spill that entered into the storm drain at 201 E Berkley. Property manager was notified, and a remediation team was hired to provide spill response. SW Inspector Doan met on site on 4/8/2021 with the Property Manager John Thomas and staff from A Clean Bay. Grease and contaminated water/materials were removed from the site.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 4/7/2021 03:27:55 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299087

REPORT DATE: 4/13/2021 12:52:00 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Grease

LOCATION: ILLICIT DISCHARGE- 201 E Berkley Ave

RESPONSIBLE PARTY: John Thomas-Collier's International
ADDRESS& PHONE: 150 W. Main Street
Norfolk, VA 23510

DATE OF DISCHARGE: 4/7/2021 01:05:00 PM

DATE/TIME REPORTED: 4/7/2021 03:27:55 PM

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep


DESCRIPTION OF DISCHARGE: Storm water staff was notified of a grease spill that entered into the storm drain at 201 E Berkley. Property manager was notified, and a remediation team was hired to provide spill response. SW Inspector Doan met on site on 4/8/2021 with the Property Manager John Thomas and staff from A Clean Bay.

CORRECTIVE ACTION: Grease and contaminated water/materials were removed from the site.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date



April 14, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 299168

Dear Sir or Madam:

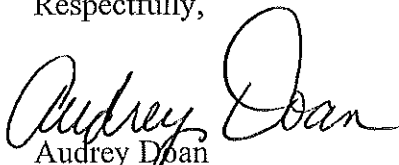
In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of FOG on April 13, 2021 that was found at approximately 10:30 am. The description of the incident is as follows:

During a routine BMP inspection on April 13, 2021, the City of Norfolk stormwater inspector noted FOG dumped into a catch basin on site located within a grass swale. The property manager was called, and a plumber/pump truck was dispatched. They vactored out the basin and flushed the lines. The ROW storm curb inlets were checked, and the FOG did not reach our storm system. Approximately 50 gallons of FOG and flush water were removed. The potential source was investigated but was unable to be determined as to exactly which restaurant it came from. Flyers were left and best management practices were reinforced. Investigation closed.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on April 13, 2021 at approximately 15:30 pm.

Please let me know if you have any questions regarding this incident.

Respectfully,


Audrey Doan
Environmental Specialist II

Enclosure

cc: File

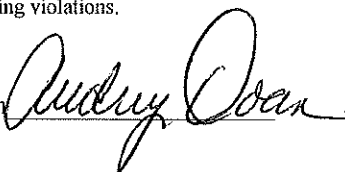
VPDES PERMIT NO. VA0088650

INCIDENT NO: 299168
REPORT DATE: 4/13/2021 10:30 am
ESTIMATED QUANTITY: 50 gallons
TYPE OF DISCHARGE: FOG
LOCATION: 1551 Premium Outlets Boulevard
RESPONSIBLE PARTY: Apple Retail Properties, 950 Smile Way, York, PA 17404.
ADDRESS& PHONE: 717-472-1359

DATE OF DISCHARGE: 4/13/2021 10:30 am
DATE/TIME REPORTED: 4/13/2021 15:30 pm
REPORTED TO DEQ/DCR BY: Audrey Doan
REPORTED TO: Online PREP
DESCRIPTION OF DISCHARGE: Approximately 50 gallons of FOG and flush water were removed from the basin.
CORRECTIVE ACTION: The basin was flushed and vactored. The site was cleared by 12:30pm.
IMPACT TO STATE WATERS: none

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 of 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.

Audrey Doan
Signature



4/14/2021
Date

May 13, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR #299480

Dear Ms. Mckinnon:

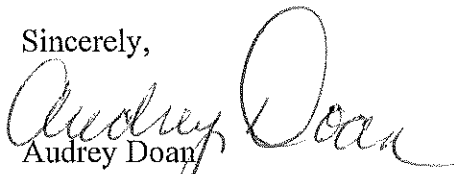
In accordance with the reporting requirements for the referenced permit, be advised that we received a notice of an illicit discharge of sanitary sewage on May 11, 2021 at 9:30 am. The description of the incident is as follows:

Storm water staff was notified by VADEQ of a sanitary sewage overflow (SSO) that potentially entered Wayne Creek at 3584 Argonne Avenue. The homeowner at 3854 Argonne Avenue, Trailer #50, contacted VADEQ regarding the sewage spilling from a manhole cover in front of his home. The City of Norfolk Stormwater staff responded on May 11, 2021 at 10:15am. Upon arrival, a SSO was occurring at the manhole. It did not appear to have reached Wayne Creek. The owner of the property was contacted and the SSO was repaired on May 12, 2021 by 9:00 am.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on May 11, 2021 at 9:30 am by the resident. The City of Norfolk reported the discharge on May 12, 2021 at 8:49 am to generate IR #299480 for tracking purposes.

Please let me know if you have any questions regarding this incident.

Sincerely,


Audrey Doan
Environmental Specialist II

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299480

REPORT DATE: 5/13/2021 7:46am

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: SSO

LOCATION: ILLICIT DISCHARGE- 3584 Argonne Avenue

RESPONSIBLE PARTY: YPB LLC
ADDRESS& PHONE: P.O. Box 1659
Virginia Beach, VA 23451
757-737-3163

DATE OF DISCHARGE: 5/11/2021 09:30 am

DATE/TIME REPORTED: 5/12/2021 08:50 am

REPORTED TO DEQ/DCR BY: A. Doan

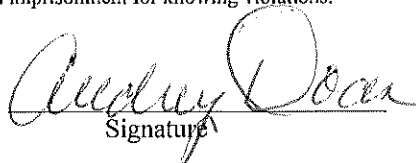
REPORTED TO: TRO Prep

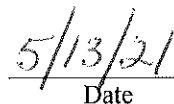
DESCRIPTION OF DISCHARGE: Storm water staff was notified of a SSO spill at 3584 Argonne Avenue. The property owner was notified, and remediation was completed by 5/12/2021 09:00 am.

CORRECTIVE ACTION: The SSO was corrected.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date

May 18, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR #299505

Dear Ms. Mckinnon:

In accordance with the reporting requirements for the referenced permit, be advised that we received a notice of a foul odor coming from Anne Outten Pond in Norfolk, VA on May 13, 2021 at 9:00 am. The description of the incident is as follows:


Storm water staff was notified by a resident on Anne Street of a foul odor coming from Anne Outten Pond. The City of Norfolk Stormwater staff responded on May 13, 2021 at 9:00 am. Upon arrival, the staff met with the resident who called in the complaint. After walking along Anne Street side of the pond, a slight foul odor of sewage was noted when the wind would blow. During a closer look at the pond's edge, dead fish (approximately three groups of a dozen or more) were noted. Upon further investigation, it was determined that a surcharge of the sanitary sewer was found. No visible evidence was noted that there was a direct overflow into the pond. The Department of Public Utilities was notified of the incident.

According to Public Utilities, the stoppage in the system last week has been broken, and the system has been down since. Utilities is going to clean/attack the whole section of gravity main this week. Grease appears to have been the culprit.

Storm Water staff continue to monitor Anne Outten pond daily. Each day the pond looks better and the odor is easing. Wildlife in the area have removed almost all the fish from the kill. We have noticed plenty more fish and other aquatic life alive and well in the pond.

The enclosed documents outline the relevant information. The City of Norfolk reported the discharge on May 13, 2021 at 1:00 pm to generate IR #299505 for tracking purposes.

Please let me know if you have any questions regarding this incident.

Sincerely,

Audrey Doan
Environmental Specialist II

Enclosures
cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299505

REPORT DATE: 5/13/2021 1:00 pm

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: SSO

LOCATION: ILLICIT DISCHARGE- Anne Outten Pond, Anne Street, Norfolk, VA

RESPONSIBLE PARTY: Norfolk Department of Public Utilities

ADDRESS& PHONE: 810 Union Street, Norfolk, VA
David Speer, 757-823-1000

DATE OF DISCHARGE: 5/13/2021 09:00 am

DATE/TIME REPORTED: 5/13/2021 01:00 pm

REPORTED TO DEQ/DCR BY: A. Doan

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Storm water staff was notified by a resident on Anne Street of a foul odor coming from Anne Outten Pond. Upon arrival, the staff met with the resident who called in the complaint. After walking along Anne Street side of the pond, a slight foul odor of sewage was noted when the wind would blow. During a closer look at the pond's edge, dead fish (approximately three groups of a dozen or more) were noted. Upon further investigation, it was determined that a surcharge of the sanitary sewer was found. No visible evidence was noted that there was a direct overflow into the pond. The Department of Public Utilities was notified of the incident.

CORRECTIVE ACTION: According to the Public Utilities, the stoppage in the system last week has been broken, and the system has been down since. Utilities is going to clean/attack the whole section of gravity main this week. Grease appears to have been the culprit.
Storm Water staff continue to monitor Anne Outten pond daily. Each day the pond looks better, and the odor is easing. Wildlife in the area have removed almost all the fish from the kill. We have noticed plenty more fish and other aquatic life alive and well in the pond.

IMPACT TO STATE WATERS: No

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 of 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.


Signature


Date

May 20, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR #299506

Dear Ms. Mckinnon:

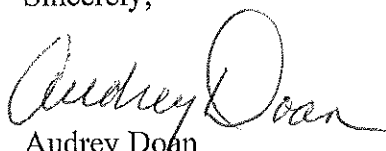
In accordance with the reporting requirements for the referenced permit, be advised that we received a notice of a SSO in a drainage ditch at the Borad Creek Library at 1425 Norchester Avenue in Norfolk, VA on May 13, 2021 at 2:00 pm. The description of the incident is as follows:

During a routine BMP inspection, City of Norfolk Stormwater staff noticed a SSO into a ditch behind the library. Upon further investigation a stormwater pipe nearest the ditch had indications of sanitary sewage. The quantity is unknown. The Department of Public Utilities was notified of the incident. The incident has been turned over to Public Utilities.

The enclosed documents outline the relevant information. The City of Norfolk reported the discharge on May 13, 2021 at 3:00 pm to generate IR #299506 for tracking purposes.

Please let me know if you have any questions regarding this incident.

Sincerely,



Audrey Doan
Environmental Specialist II

Enclosures
cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299506

REPORT DATE: 5/20/2021 7:45 am

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: SSO

LOCATION: **ILLICIT DISCHARGE-** Broad Creek Library at 1425
Norchester Avenue, Norfolk, VA

RESPONSIBLE PARTY: Norfolk Department of Public Utilities

ADDRESS& PHONE: 810 Union Street, Norfolk, VA
David Speer, 757-823-1000

DATE OF DISCHARGE: 5/13/2021 2:00 pm

**DATE/TIME
REPORTED:** 5/13/2021 3:00 pm

REPORTED TO DEQ/DCR BY: A. Doan


REPORTED TO: TRO Prep

**DESCRIPTION OF
DISCHARGE:** During a routine BMP inspection, City of Norfolk Stormwater
staff noticed a SSO into a ditch behind the library. Upon
further investigation a stormwater pipe nearest the ditch had
indications of sanitary sewage. The quantity is unknown.

CORRECTIVE ACTION: The Department of Public Utilities was notified of the incident.
The incident has been turned over to Public Utilities.

**IMPACT TO STATE
WATERS:** No

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 of 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.


Signature

5-20-21
Date

May 28, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: 5-day letter follow-up
VPDES Permit No. VA0088650
IR 299601

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of grease on 5/21/2021 at 12:00 PM. The description of the incident is as follows:

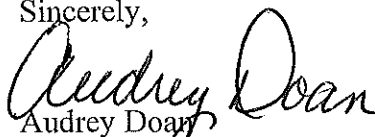
Storm water staff was notified of a grease spill that entered the private storm drain at 4201 Granby Street. When the City of Norfolk Stormwater staff arrived on site, the owner was pressure washing the grease trap and it was overflowing into the onsite storm drain. The owner was immediately told to stop. The greasy wash water was then cleaned up with a wet vac and disposed of. The wash water/grease did not enter our storm drain system. It was then noted that the storm drain was clogged with grease which has been contained on site within two drains. The owner has been tirelessly trying to get someone out to take care of the drains. As of today, he has not been able to get anyone out on site to vacuum the drains. We have visited the site daily and are trying to help him procure a vendor. Stormwater staff will keep you updated.

Follow-up: On May 27, 2021 at 4:00 pm, Atlantic Heating and Plumbing arrived on site and the storm drain was jetted and vactored. The city storm drain was not impacted. The job was completed by 5:00 pm. No further action required.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 5/21/2021 at 03:11 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,


Audrey Doan
Environmental Specialist II

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299601

REPORT DATE: 5/26/2021 3:28 pm

ESTIMATED QUANTITY: 10-20 gallons

TYPE OF DISCHARGE: Grease

LOCATION: ILLICIT DISCHARGE- 4201 Granby Street

RESPONSIBLE PARTY: Mi Hogar Mexican Restaurant
ADDRESS& PHONE: Armando Ayala
4201 Granby Street
Norfolk, VA
757-640-7705

DATE OF DISCHARGE: 5/21/2021 12:00 pm

**DATE/TIME
REPORTED:** 5/21/2021 3:11 pm

REPORTED TO DEQ/DCR BY: A. Doan

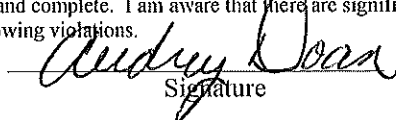
REPORTED TO: TRO Prep

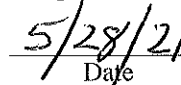
**DESCRIPTION OF
DISCHARGE:** Storm water staff was notified of a grease spill that entered the private storm drain at 4201 Granby Street. When the City of Norfolk Stormwater staff arrived on site, the owner was pressure washing the grease trap and it was overflowing into the onsite storm drain. The owner was immediately told to stop. The greasy wash water was then cleaned up with a wet vac and disposed of. The wash water/grease did not enter our storm drain system. It was then noted that the storm drain was clogged with grease which has been contained on site within two drains. The owner has been tirelessly trying to get someone out to take care of the drains. As of today, he has not been able to get anyone out on site to vacuum the drains. We have visited the site daily and are trying to help him procure a vendor.

CORRECTIVE ACTION: Owner is trying to procure a vendor to clean out the storm drains. Stormwater staff will keep you updated. Update: On May 27, 2021 at 4:00 pm, Atlantic Heating and Plumbing arrived on site and the storm drain was jetted and vactored. The city storm drain was not impacted. The job was completed by 5:00 pm. No further action required.

**IMPACT TO STATE
WATERS:** No

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 of 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.


Signature


Date

June 2, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299687

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of cooking oil on 6/1/2021 2:15:00 PM. The description of the incident is as follows:

Stormwater staff was notified of what appeared to be cooking oil in a storm drain on 6/1/2021 at 2:15 PM near 6512 Harvey Court. Inspectors responded and assessed the situation, and it appeared that the oil was sitting on top of the sediment in the catch basin. Absorbent pads were placed down. Stormwater staff revisited the site and removed the pads and any sediment in the storm drain. No outfalls were impacted. F.O.G Supervisor Lindsay Dierks will coordinate education for the neighborhood.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/2/2021 9:59:29 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299687

REPORT DATE: 6/2/2021 1:33 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Cooking oil

LOCATION: ILLICIT DISCHARGE-6512 Harvey Court

RESPONSIBLE PARTY: Unknown
ADDRESS& PHONE:

DATE OF DISCHARGE: 6/1/2021 2:15 PM

DATE/TIME REPORTED: 6/2/2021 9:59 AM

REPORTED TO DEQ/DCR BY: C.VanLear

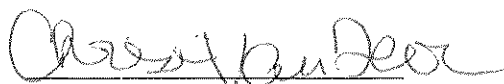
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Stormwater staff was notified of what appeared to be cooking oil in a storm drain on 6/1/2021 at 2:15 PM near 6512 Harvey Court. Inspectors responded and assessed the situation, and it appeared that the oil was sitting on top of the sediment in the catch basin.

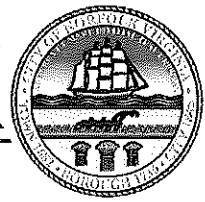
CORRECTIVE ACTION: Absorbent pads were placed down. Stormwater staff revisited the site and removed the pads and any sediment in the storm drain. No outfalls were impacted. F.O.G Supervisor Lindsay Dierks will coordinate education for the neighborhood.

IMPACT TO STATE WATERS: No

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 of 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.


Signature

6/2/21
Date



June 3, 2021

Virginia Department of Environmental Quality
Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

Re: VPDES Permit No. VA0088650
Reference ID# 299709

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of hydraulic fluid on June 3, 2021. The description of the incident is as follows:

Staff found a leaking front end loader in the City of Norfolk – Public Works Operations Yard on June 3, 2021 at approximately 9:10am. Absorbent booms and pads were put in place to soak up the product. An unknown amount of the hydraulic fluid reached the storm drain system. However, due to the storm drain leading to a hydrodynamic separator and then into a retention basin that has a boom at the outfall, no waterways were affected.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on June 3, 2021 at approximately 10:45am.

Please let me know if you have any questions regarding this incident.

Respectfully,

A handwritten signature in cursive script that reads "Casey Magruder".

Casey Magruder
Environmental Program Administrator

Enclosure

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299709

REPORT DATE: 6/3/2021 10:15am

ESTIMATED QUANTITY: 1 gallon

TYPE OF DISCHARGE: Hydraulic fluid

LOCATION: 2233 McKann Ave.

RESPONSIBLE PARTY: Norfolk Public Works - SW
ADDRESS& PHONE: 2233 McKann Ave.
Norfolk, VA 23509
757-823-4010

DATE OF DISCHARGE: 6/3/2021 9:10am

DATE/TIME REPORTED: 6/3/2021 10:45am

REPORTED TO DEQ/DCR BY: C. Magruder

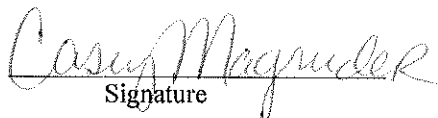
REPORTED TO: Online PREP

DESCRIPTION OF DISCHARGE: Staff found a leaking front end loader in the City of Norfolk – Public Works Operations Yard.

CORRECTIVE ACTION: Absorbent booms and pads were put in place to soak up the product. An unknown amount of the hydraulic fluid reached the storm drain system.

IMPACT TO STATE WATERS: However, due to the storm drain leading to a hydrodynamic separator and then into a retention basin that has a boom at the outfall, no waterways were affected.

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 of 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.


Signature


Date

June 4 ,2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299714

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was an illicit discharge of latex paint on 6/1/2021 6:15:00 PM. The description of the incident is as follows:

After hours Stormwater staff noticed a large amount of dried paint on the sidewalk. After further inspection, it appears that the I-264 over pass at the Ballentine Blvd exit had a latex paint spill of what appears to be a 5-10 gallon bucket from current work being done at the overpass. Stormwater staff has revisited the site to have the contractor remove what is on the sidewalk, but the contractor has not returned. A small amount appears to have entered into the storm drain and dried on sand. The sand was removed by Stormwater staff. No outfalls were impacted. Stormwater staff has made multiple site visit back, and has not found a responsible party. Staff will continue to attempt to locate the responsible party.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/3/2021 12:20:19 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO:	299714
REPORT DATE:	6/4/2020 1:53 PM
ESTIMATED QUANTITY:	5-10 gallons
TYPE OF DISCHARGE:	Latex paint
LOCATION:	ILLICIT DISCHARGE-I-264 E exit ramp at Ballentine Blvd
RESPONSIBLE PARTY: ADDRESS& PHONE:	Unknown
DATE OF DISCHARGE:	6/1/2021 6:15:00 PM
DATE/TIME REPORTED:	6/3/2021 12:20:19 PM
REPORTED TO DEQ/DCR BY:	C.VanLear
REPORTED TO:	TRO Prep
DESCRIPTION OF DISCHARGE:	After hours Stormwater staff noticed a large amount of dried paint on the sidewalk. After further inspection, it appears that the I-264 over pass at the Ballentine Blvd exit had a latex paint spill of what appears to be a 5-10 gallon bucket from current work being done at the overpass. Stormwater staff has revisited the site to have the contractor remove what is on the sidewalk, but the contractor has not returned.
CORRECTIVE ACTION:	A small amount appears to have entered into the storm drain and dried on sand. The sand was removed by Stormwater staff. No outfalls were impacted. Stormwater staff has made multiple site visit back, and has not found a responsible party. Staff will continue to attempt to locate the responsible party.
IMPACT TO STATE WATERS:	No

June 11, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299825

Dear Sir or Madam:

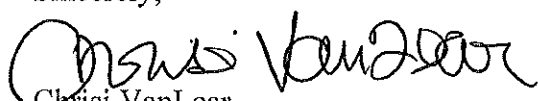
In accordance with the reporting requirements for the referenced permit, be advised that there was a spill of approximately 40 gallons of petroleum from a vehicle fire on 6/8/2021 8:00:00 PM. The description of the incident is as follows:

Stormwater staff was notified of a vehicle fire from the Fire Marshall's office where approximately 40 gallons of petroleum was released, along with 20 gallons of Firefighting foam and 1500 gallons of water. Reporting was delayed due to inspector not relaying information. HEPACO was called by the Fire Marshall's office to provide remediation per Investigator Duggan. The release did not enter into the storm drain system.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/11/2021 8:17:53 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor
Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299825

REPORT DATE: 6/11/2021 9:28:00 AM

ESTIMATED QUANTITY: 1560 gallons (water, petroleum, and Firefighting Foam)

TYPE OF DISCHARGE: Petroleum release

LOCATION: SPILL-6820 N. Military Highway

RESPONSIBLE PARTY: Carlos Morales
ADDRESS& PHONE: 757-284-7307

DATE OF DISCHARGE: 6/8/2021 8:00:00PM

DATE/TIME REPORTED: 6/11/2021 8:17:00 AM
Reporting was delayed due to inspector not relaying information.

REPORTED TO DEQ/DCR BY: C.VanLear

REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: Stormwater staff was notified of a vehicle fire from the Fire Marshall's office where approximately 40 gallons of petroleum was released, along with 20 gallons of Firefighting foam and 1500 gallons of water.

CORRECTIVE ACTION: Reporting was delayed due to inspector not relaying information. HEPACO was called by the Fire Marshall's office to provide remediation per Investigator Duggan. The release did not enter into the storm drain system.

IMPACT TO STATE WATERS: N/A

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 of 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.


Signature

6/11/21
Date

June 11, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299758

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was a spill of used motor oil on 6/7/2021 at 9:00:00 AM. The description of the incident is as follows:

Stormwater staff was notified of an oil spill at a car repair shop by Public Works Staff. Staff investigated and found that an oil tank that appeared to be over filled. I contacted the Fire Marshall's office for assistance and Inspector Baka made a site visit.

The shop owner, Mr. Hoang preceded to hire HEPACO/Petrochem for immediate remediation. The contaminated soil was removed, booms put into place and absorbent placed around the tank. I revisited the site on 6/8/2021 and observed the booms still in place, but it appeared that the tank has leaked again and created a large puddle nearby. Mr. Hoang put additional absorbent material down and was instructed to contact FCC Environmental for a tank inspection.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/8/2021 8:09:02 AM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Programs Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO:	299758
REPORT DATE:	6/11/2021 8:53 AM
ESTIMATED QUANTITY:	25 gallons
TYPE OF DISCHARGE:	Used motor oil
LOCATION:	SPILL-1231 Norview Ave.
RESPONSIBLE PARTY:	Michael Hoang
ADDRESS& PHONE:	1231 Norview Ave. Norfolk, VA 23513
DATE OF DISCHARGE:	6/7/2021 9:00:00 AM
DATE/TIME REPORTED:	6/8/2021 8:09:00 AM
REPORTED TO DEQ/DCR BY:	C.VanLear
REPORTED TO:	TRO Prep
DESCRIPTION OF DISCHARGE:	Stormwater staff was notified of an oil spill at a car repair shop by Public Works Staff. Staff investigated and found that an oil tank that appeared to be over filled. I contacted the Fire Marshall's office for assistance and Inspector Baka made a site visit.
CORRECTIVE ACTION:	The shop owner, Mr. Hoang preceded to hire HEPACO/Petrochem for immediate remediation. The contaminated soil was removed, booms put into place and absorbent placed around the tank. I revisited the site on 6/8/2021 and observed the booms still in place, but it appeared that the tank has leaked again and created a large puddle nearby. Mr. Hoang put additional absorbent material down and was instructed to contact FCC Environmental for a tank inspection.
IMPACT TO STATE WATERS:	N/A

June 15, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299831

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was a spill of approximately 5 gallons of used oil from a 5-gallon bucket on 6/11/2021 10:00:00 AM. The description of the incident is as follows:

During a routine BMP inspection at Bauer Compressor, City of Norfolk Environmental Staff noted a release of oil along the gutter and into the private retention pond. It was confirmed by the maintenance technician that a 5-gallon bucket of used motor oil was punctured when being lifted with a forklift. This occurred around 3pm on 6/10/21. The technician stated that oil dry was placed down on the oil. However, it had rained more than ¼ inch that evening and the rainwater had spread the oil into the gutter, splashed onto the surrounding grass, and into the retention pond. The area in the retention pond was confined to a 10-foot area at the outfall. HEPACO was called immediately and arrived on site within the hour. The technician was advised to place adsorbent pads on the oil while waiting for HEPACO. The release was cleaned within a few hours.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/11/2021 12:32 pm.

Please let me know if you have any questions regarding this incident.

Sincerely,



Audrey Doan
Environmental Specialist II
Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299831

REPORT DATE: 6/15/2021 7:20 am

ESTIMATED QUANTITY: 5-gallons of used motor oil

TYPE OF DISCHARGE: Petroleum release

LOCATION: SPILL-1328 Azalea Garden Road

RESPONSIBLE PARTY: Teague Thompson
ADDRESS& PHONE: 757-546-4760

DATE OF DISCHARGE: 6/10/2021 3:00:00PM

DATE/TIME REPORTED: 6/11/2021 10:00 AM

REPORTED TO DEQ/DCR BY: A. Doan

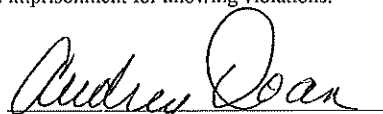
REPORTED TO: TRO Prep

DESCRIPTION OF DISCHARGE: During a routine BMP inspection at Bauer Compressor, City of Norfolk Environmental Staff noted a release of oil along the gutter and into the private retention pond. It was confirmed by the maintenance technician that a 5-gallon bucket of used motor oil was punctured when being lifted with a forklift. This occurred around 3pm on 6/10/21.

CORRECTIVE ACTION: HEPACO was called immediately and arrived on site within the hour. The Bauer technician was advised to place adsorbent pads on the oil while waiting for HEPACO. The release was cleaned within a few hours.

IMPACT TO STATE WATERS: N/A

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 of 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.


Signature

6-15-21
Date

June 16, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299895

Dear Sir or Madam:

In accordance with the reporting requirements for the referenced permit, be advised that there was sanitary sewer overflow that went overboard on 6/15/2021 10:30:00 AM. The description of the incident is as follows:

Storm water inspector Peter Mack noticed an overflow of sewage at Lakewood Plaza Apartments and upon further inspection it was a private property that leads that leads to Wayne Creek. Inspector Mack said it does not appear that sewage entered Wayne Creek, although there is no timeline available for how long this was occurring before he noticed. Management at Lakewood Plaza Apartments contacted HEPACO and remediation was performed. Inspector Mack revisited the site on 6/16/2021 to verify that remediation had occurred.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/16/2021 12:29:25 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Chrisi VanLear
Environmental Program Supervisor

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO: 299895

REPORT DATE: 6/16/2021 1:25 PM

ESTIMATED QUANTITY: Unknown

TYPE OF DISCHARGE: Sewage

LOCATION: ILLICIT DISCHARGE- 5631 Tidewater Drive

RESPONSIBLE PARTY: Lakewood Plaza Apartments
ADDRESS& PHONE: 5631 Tidewater Drive Norfolk, VA 23509

DATE OF DISCHARGE: 6/15/2021 10:30:00 AM

DATE/TIME REPORTED: 6/16/2021 12:29:25 PM

REPORTED TO DEQ/DCR BY: C.VanLear

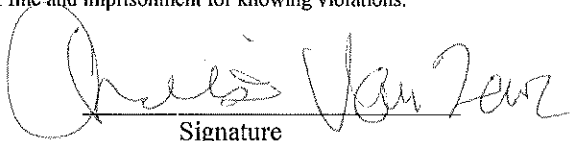
REPORTED TO: TRO Prep

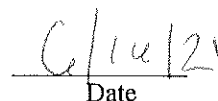
DESCRIPTION OF DISCHARGE: Storm water inspector Peter Mack noticed an overflow of sewage at Lakewood Plaza Apartments and upon further inspection it was a private property that leads that leads to Wayne Creek. Inspector Mack said it does not appear that sewage entered Wayne Creek, although there is no timeline available for how long this was occurring before he noticed.

CORRECTIVE ACTION: Management at Lakewood Plaza Apartments contacted HEPACO and remediation was performed. Inspector Mack revisited the site on 6/16/2021 to verify that remediation had occurred.

IMPACT TO STATE WATERS: Wayne Creek

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 of 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.


Signature


Date

June 22, 2021

Department of Environmental
Quality Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

RE: VPDES Permit No. VA0088650
IR 299908

Dear Sir or Madam:

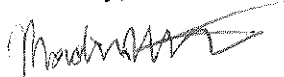
In accordance with the reporting requirements for the referenced permit, be advised that there were approximately 2 gallons of grout slurry poured into a private drop inlet on 6/17/2021 at 08:30:00 AM. The description of the incident is as follows:

During a routine BMP inspection, Inspector White noticed a white substance in the drop inlet to the infiltration trench at Saint Paul's Place Condominiums. Inspector White contacted the property management company, the Select Group, and worked with property manager Andrea Gunter to get MDM Septic to perform remediation. The substance was identified as grout slurry and the responsible contractor was identified as Dustin Wheeler. Inspector White was on-site for remediation. A Notice of Violation was issued to the property manager.

The enclosed documents outline the relevant information. The discharge was reported to the DEQ Tidewater Regional Office on 6/17/2021 12:37:23 PM.

Please let me know if you have any questions regarding this incident.

Sincerely,



Madison White
Environmental Specialist II

Enclosures

cc: File

VPDES PERMIT NO. VA0088650

INCIDENT NO:	299908
REPORT DATE:	6/22/2021 12:41:00 AM
ESTIMATED QUANTITY:	Approximately 2 gallons
TYPE OF DISCHARGE:	Grout Slurry
LOCATION:	ILLICIT DISCHARGE- 443 St. Paul's Blvd (St. Paul's Place Condo's)
RESPONSIBLE PARTY:	The Select Group (Andrea Gunter)
ADDRESS& PHONE:	2224 Virginia Beach Blvd, Suite 201 Virginia Beach, Virginia 23454
DATE OF DISCHARGE:	6/17/2021 08:30:00 AM
DATE/TIME REPORTED:	6/17/2021 12:37:23 PM
REPORTED TO DEQ/DCR BY:	C.VanLear
REPORTED TO:	TRO Prep
DESCRIPTION OF DISCHARGE:	During a routine BMP inspection, Inspector White noticed a white substance in the drop inlet to the infiltration trench at Saint Paul's Place Condominiums.
CORRECTIVE ACTION:	Inspector White contacted the property management company, the Select Group, and worked with property manager Andrea Gunter to get MDM Septic to perform remediation. The substance was identified as grout slurry and the responsible contractor was identified as Dustin Wheeler. Inspector White was on-site for remediation. A Notice of Violation was issued to the property manager.
IMPACT TO STATE WATERS:	No

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:45 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

SSORS ID:	105697	Reported:	07/27/20 4:33 PM	Amount Spilled:	337 Gallons
DEQ IR #:	SSORS#2021-T-105697	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	07/30/20 9:48 AM	Reaching State Waters:	337 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	07/25/20 1:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	07/25/20 4:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	07/27/20 4:33 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	'A' Ave & Duffy Ln			SSO Classification:	Maintenance-Grease
Cordinates:					

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

Cleared the blockage and cleaned up the area.

-----July 27, 2020 04:33 PM-----

DEQ Comments

(Reviewed 7/30/2020 9:48:49 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105748	Reported:	08/27/20 6:30 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105748	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	08/31/20 9:41 AM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	08/26/20 2:14 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	08/26/20 7:20 PM
Responsible Party:	City of Norfolk	Final Submittal:	08/27/20 6:30 PM	Spill Duration:	5 hour(s) 6 minute(s)
Site Name:	Filer St & Kimball Terrace intersection			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

A leak on a force main caused an overflow into a marsh adjacent to the Elizabeth River

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The pump station was turned off and the force main was isolated until it could be repaired.

-----August 27, 2020 06:30 PM-----

DEQ Comments

(Reviewed 8/31/2020 9:41:30 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105757	Reported:	09/11/20 4:04 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105757	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	09/15/20 10:22 AM	Reaching State Waters:	500 Gallons

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:45 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	09/10/20 2:13 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/10/20 6:15 PM
Responsible Party:	City of Norfolk	Final Submittal:	09/11/20 4:04 PM	Spill Duration:	4 hour(s) 2 minute(s)
Site Name:	401 E. Randall Ave			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the overflow cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

Broke stoppage and cleaned area up.

-----September 11, 2020 04:04 PM-----

DEQ Comments (Reviewed 9/15/2020 10:22:07 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105758	Reported:	09/11/20 4:09 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2021-T-105758	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	09/15/20 10:22 AM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	09/11/20 1:15 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/11/20 2:15 PM
Responsible Party:	City of Norfolk	Final Submittal:	09/11/20 4:09 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	111 A View			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. Boockage was cleared and area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

Stoppage was broken and area cleaned up.

-----September 11, 2020 04:09 PM-----

DEQ Comments (Reviewed 9/15/2020 10:22:23 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105774	Reported:	09/18/20 1:55 PM	Amount Spilled:	6600 Gallons
DEQ IR #:	SSORS#2021-T-105774	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SS-PS-125	Last Edited	09/29/20 7:27 AM	Reaching State Waters:	6600 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Meghan Kies	Spill Date:	09/18/20 4:05 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/18/20 7:16 AM
Responsible Party:	HRSD	Final Submittal:	09/22/20 2:48 PM	Spill Duration:	3 hour(s) 11 minute(s)
Site Name:	Seay Avenue Pump Station			SSO Classification:	Capacity-Weather Related

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:45 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021**Cordinates:****Description Of Incident**

The remnants of Hurricane Sally caused high flows and pressures in the Norfolk sewer system. As a result, the Seay Ave PS duty pumps and the standby emergency pump were unable to keep up with the flows entering the wet well. An overflow occurred into the Elizabeth River. The Virginia Beach Blvd PS saw a maximum rainfall of 0.38" in 15 minutes, with a total of 1.12" falling in 1 hour. Total rainfall for the rain event was 5.5".

Possible Receptors

Stormdrain to Elizabeth River

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decreased, the station pumps were able to keep up with flows coming into the station.

-----September 22, 2020 02:48 PM-----

DEQ Comments

(Reviewed 9/29/2020 7:27:57 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105775	Reported:	09/18/20 2:05 PM	Amount Spilled:	300000 Gallons
DEQ IR #:	SSORS#2021-T-105775	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SS-PS-105	Last Edited	09/22/20 2:53 PM	Reaching State Waters:	300000 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Lauren Grimmer	Spill Date:	09/18/20 4:36 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/18/20 2:36 PM
Responsible Party:	HRSD	Final Submittal:	09/22/20 2:53 PM	Spill Duration:	10 hour(s) 0 minute(s)
Site Name:	Chesapeake Blvd Pump Station			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

The remnants of Hurricane Sally caused high flows and pressures in the Norfolk sewer system. As a result, the Chesapeake Blvd PS duty pumps were unable to keep up with the flows entering the wet well. An overflow occurred into Wayne Creek, which is a tributary to the Lafayette River. The Luxembourg Ave PS saw a maximum rainfall of 0.43" in 15 minutes, with a total of 0.92" falling in 1 hour. Total rainfall for the event was 5.1".

Possible Receptors

Lafayette River via Wayne Creek

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decrease, the station pumps will be able to keep up with flows coming into the station.

-----September 22, 2020 02:53 PM-----

DEQ Comments

(Reviewed 9/22/2020 9:06:51 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105781	Reported:	09/19/20 12:46 PM	Amount Spilled:	84000 Gallons
DEQ IR #:	SSORS#2021-T-105781	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SF-069-9631	Last Edited	09/22/20 3:20 PM	Reaching State Waters:	84000 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Lauren Grimmer	Spill Date:	09/19/20 9:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/19/20 11:00 AM

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:45 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Responsible Party: HRSD **Final Submittal:** 09/22/20 3:20 PM **Spill Duration:** 2 hour(s) 0 minute(s)
Site Name: Norview-Estabrook Ext **SSO Classification:**
Div I Force Main Infrastructure

Cordinates:

Description Of Incident

A failure occurred on the 12-in cast iron force main located on Robin Hood Rd just west of Sherwood Elementary School in Norfolk. The cause of the failure was attributed to an abandoned 2-in tap. Flow from the failure was conveyed to the local storm sewer system, then to a ditch, and ultimately into Wayne Creek.

Possible Receptors

storm system to ditch to Wayne Creek/Lafayette River

Description of Materials

raw wastewater

Corrective Action

HRSD staff arrived onsite and isolated the impacted section of force main. Pump and haul was utilized to maintain service to the surrounding area. The failed tap was removed and a new air vent was installed in its place.

-----September 22, 2020 03:20 PM-----

DEQ Comments (Reviewed 9/22/2020 9:09:16 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105782	Reported:	09/20/20 9:29 AM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105782	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/22/20 12:11 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	David Speer	Spill Date:	09/17/20 3:03 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	09/17/20 5:19 PM
Responsible Party:	City of Norfolk	Final Submittal:	10/22/20 12:11 PM	Spill Duration:	2 hour(s) 16 minute(s)
Site Name:	46th St & Colley Ave intx			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

Debris in a manhole caused an overflow. The debris was cleared and the area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

Cleaned out the manhole and cleaned up the area.

-----September 20, 2020 09:29 AM-----

DEQ Comments (Reviewed 9/22/2020 9:09:39 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105786	Reported:	09/28/20 4:39 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105786	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/12/20 4:41 PM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	David Speer	Spill Date:	09/24/20 1:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:	09/28/20 3:57 PM	Date Under Control:	09/30/20 3:43 PM
					146 hour(s) 43 minute(s)
Responsible Party:	City of Norfolk	Final Submittal:	10/12/20 4:41 PM	Spill Duration:	

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:45 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021**Site Name:** Modoc & Willow Terrace
intx**SSO Classification:**
Infrastructure**Cordinates:****Description Of Incident**

A sanitary sewer pipe is going through/conflicting with a storm drain pipe and is periodically leaking into the storm drain line.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

Working with Norfolk Stormwater to attempt to get a conflict manhole installed.

-----September 28, 2020 04:39 PM-----

DEQ Comments (Reviewed 10/6/2020 8:01:28 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105792	Reported:	10/09/20 4:22 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105792	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/14/20 3:01 PM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	10/06/20 10:06 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/08/20 8:41 AM
					34 hour(s) 35 minute(s)
Responsible Party:	City of Norfolk	Final Submittal:	10/12/20 4:34 PM	Spill Duration:	
Site Name:	201 Talbot Hall Rd			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

Blockage occurred which caused an overflow. The blockage was cleared and area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

Blockage cleared and area cleaned up.

-----October 9, 2020 04:22 PM-----

DEQ Comments (Reviewed 10/14/2020 3:01:10 PM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105793	Reported:	10/12/20 4:39 PM	Amount Spilled:	85 Gallons
DEQ IR #:	SSORS#2021-T-105793	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/14/20 3:02 PM	Reaching State Waters:	85 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	10/12/20 12:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/12/20 1:55 PM
		Final Submittal:	10/12/20 4:39 PM	Spill Duration:	1 hour(s) 25 minute(s)
Responsible Party:	City of Norfolk			SSO Classification:	
Site Name:	Salter St & Va Beach Blvd intx				Maintenance-Grease

Cordinates:

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:46 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----October 12, 2020 04:39 PM-----

DEQ Comments

(Reviewed 10/14/2020 3:02:03 PM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105794	Reported:	10/17/20 4:37 PM	Amount Spilled:	150 Gallons
DEQ IR #:	SSORS#2021-T-105794	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/20 8:38 AM	Reaching State Waters:	150 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	10/16/20 3:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/16/20 7:40 PM
Responsible Party:	City of Norfolk	Final Submittal:	10/19/20 2:35 PM	Spill Duration:	4 hour(s) 40 minute(s)
Site Name:	9643 First View Ave			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

A blockage caused an overflow which resulted in an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----October 17, 2020 04:37 PM-----

DEQ Comments

(Reviewed 10/27/2020 8:38:57 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105795	Reported:	10/27/20 9:51 AM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105795	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/02/20 4:31 PM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	David Speer	Spill Date:	10/26/20 11:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:	10/27/20 9:50 AM	Date Under Control:	10/27/20 12:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	11/02/20 4:31 PM	Spill Duration:	25 hour(s) 0 minute(s)
Site Name:	715 Filer St			SSO Classification:	Infrastructure

Cordinates:

Description Of Incident

Broken force main from a City pump station (#141) located at the end of Filer St

Possible Receptors

Elizabeth River

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:46 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Sewage

Corrective Action

Repairing the force main but not complete as of this date and time.

-----October 27, 2020 09:51 AM-----

Pump station isolated, performing pump and haul of station, force main not being used.

-----November 2, 2020 04:31 PM-----

DEQ Comments

(Reviewed 11/2/2020 3:45:05 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105797	Reported:	10/30/20 3:38 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105797	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/02/20 3:47 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	10/28/20 1:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/28/20 4:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	10/30/20 3:38 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	800 Stockley Gardens			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

Blockage occurred which caused an overflow. Blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

Blockage was cleared and the area cleaned up.

-----October 30, 2020 03:38 PM-----

DEQ Comments

(Reviewed 11/2/2020 3:47:24 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105798	Reported:	10/30/20 3:42 PM	Amount Spilled:	600 Gallons
DEQ IR #:	SSORS#2021-T-105798	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/02/20 3:47 PM	Reaching State Waters:	600 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	10/28/20 2:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/28/20 6:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	10/30/20 3:42 PM	Spill Duration:	4 hour(s) 0 minute(s)
Site Name:	200 W. Ocean View Ave			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

Blockage occurred which caused an overflow. Blockage was cleared and area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:46 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Blockage was cleared and area cleaned up.
-----October 30, 2020 03:42 PM-----

DEQ Comments (Reviewed 11/2/2020 3:47:02 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105799	Reported:	10/30/20 3:52 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105799	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/02/20 3:46 PM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	10/28/20 3:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	10/28/20 6:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	10/30/20 3:52 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	610 Redgate Ave			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

Blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Lafayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----October 30, 2020 03:52 PM-----

DEQ Comments (Reviewed 11/2/2020 3:46:28 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105802	Reported:	11/12/20 8:41 AM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2021-T-105802	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/18/20 3:46 PM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	11/11/20 11:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/11/20 12:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	11/12/20 8:41 AM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	1122 Eastover Circle			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage occurred which caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Broad Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----November 12, 2020 08:41 AM-----

DEQ Comments (Reviewed 11/18/2020 3:46:02 PM by Renee McKinnon)

None.

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:46 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021**Attachments**

None.

SSORS ID:	105804	Reported:	11/13/20 6:22 AM	Amount Spilled:	14800 Gallons
DEQ IR #:	SSORS#2021-T-105804	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SS-PS-125	Last Edited	11/18/20 3:47 PM	Reaching State Waters:	14800 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Renee McKinnon	Spill Date:	11/12/20 10:40 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/12/20 8:32 PM
Responsible Party:	HRSD	Final Submittal:	11/17/20 9:12 AM	Spill Duration:	9 hour(s) 52 minute(s)
Site Name:	Seay Ave Pump Station			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Significant wet weather resulted in increased system flows. Va Beach Blvd PS saw a maximum rainfall of 0.58" in 15 minutes (11/12/20 at 9:15 am), with a total of 1.58" falling in 1 hour. Total rainfall for the rain event for this rain gauge was 6.3".

Possible Receptors

Elizabeth River

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decreased, the station pumps were able to keep up with flows coming into the station.
-----November 13, 2020 06:22 AM-----

DEQ Comments (Reviewed 11/18/2020 3:47:13 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105805	Reported:	11/13/20 6:27 AM	Amount Spilled:	66800 Gallons
DEQ IR #:	SSORS#2021-T-105805	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	MH-SPS-114-150	Last Edited	11/18/20 3:47 PM	Reaching State Waters:	66800 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Renee McKinnon	Spill Date:	11/12/20 10:27 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/12/20 9:35 PM
Responsible Party:	HRSD	Final Submittal:	11/17/20 9:15 AM	Spill Duration:	11 hour(s) 8 minute(s)
Site Name:	Manhole at Monroe Place			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Significant wet weather caused high flows and pressures in the Chesapeake sewer system. As a result, the Monroe Place PS duty pumps were unable to keep up with the flows entering the wet well. VIP TP saw a maximum rainfall of 0.41" in 15 minutes (11/12/20 at 9:00 am), with a total of 1.18" falling in 1 hour. Total rainfall for the rain event for this rain gauge was 5.4".

Possible Receptors

Lafayette River

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decreased, the station pumps were able to keep up with flows coming into the station.
-----November 13, 2020 06:27 AM-----

DEQ Comments (Reviewed 11/18/2020 3:47:37 PM by Renee McKinnon)

None.

Attachments

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:46 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

None.

SSORS ID:	105807	Reported:	11/13/20 6:44 AM	Amount Spilled:	2400000 Gallons
DEQ IR #:	SSORS#2021-T-105807	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SS-PS-105	Last Edited:	11/18/20 3:48 PM	Reaching State Waters:	2400000 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Renee McKinnon	Spill Date:	11/12/20 10:16 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/13/20 10:34 PM
					36 hour(s) 18 minute(s)
Responsible Party:	HRSD	Final Submittal:	11/17/20 9:21 AM	Spill Duration:	
Site Name:	Chesapeake Blvd Pump Station			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Significant wet weather caused high flows and pressures in the Norfolk sewer system. As a result, the Chesapeake Blvd PS duty pumps were unable to keep up with the flows entering the wet well. Luxembourg Ave PS saw a maximum rainfall of 0.43" in 15 minutes (11/12/20 at 9:15 am), with a total of 1.43" falling in 1 hour. Total rainfall for the rain event for this rain gauge was 6.2".

Possible Receptors

Lafayette River via Wayne Creek

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decrease, the station pumps will be able to keep up with flows coming into the station.
-----November 17, 2020 09:21 AM-----

DEQ Comments (Reviewed 11/18/2020 3:48:25 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105865	Reported:	11/16/20 4:06 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105865	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	11/23/20 7:57 AM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	11/13/20 5:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/14/20 2:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	11/16/20 4:07 PM	Spill Duration:	33 hour(s) 0 minute(s)
Site Name:	1360 Rockbridge Ave			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Storm Eta dumped 8-inches of rain in Norfolk on Thursday 12 November. This backed up the sewer system and caused an overflow. A bypass pump was installed and stopped the overflow.

Possible Receptors

Lafayette River

Description of Materials

Sewage

Corrective Action

A bypass pump was installed on the sewer system to re-route the flow and stopped the overflow.
-----November 16, 2020 04:06 PM-----

DEQ Comments (Reviewed 11/23/2020 7:57:22 AM by Meghan Kies)

None.

Attachments

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:47 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

None.

SSORS ID:	105867	Reported:	11/17/20 9:52 AM	Amount Spilled:	10 Gallons
DEQ IR #:	SSORS#2021-T-105867	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/23/20 8:00 AM	Reaching State Waters:	10 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	11/16/20 1:45 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/16/20 2:45 PM
Responsible Party:	City of Norfolk	Final Submittal:	11/17/20 9:52 AM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	828 Wakefield Ave			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----November 17, 2020 09:52 AM-----

DEQ Comments

(Reviewed 11/23/2020 8:00:42 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105869	Reported:	11/20/20 3:49 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105869	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	11/23/20 8:01 AM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	11/20/20 11:45 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/20/20 3:45 PM
Responsible Party:	City of Norfolk	Final Submittal:	11/20/20 3:49 PM	Spill Duration:	4 hour(s) 0 minute(s)
Site Name:	9607 11th Bay St			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----November 20, 2020 03:49 PM-----

DEQ Comments

(Reviewed 11/23/2020 8:01:11 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105871	Reported:	12/01/20 4:46 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105871	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/02/20 10:15 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	11/26/20 9:00 AM

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:47 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	11/26/20 12:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	12/01/20 4:46 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	1516 E. Princess Anne Rd			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----December 1, 2020 04:46 PM-----

DEQ Comments (Reviewed 12/2/2020 10:15:28 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105872	Reported:	12/05/20 2:49 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2021-T-105872	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/11/20 8:58 AM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	12/04/20 9:15 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/04/20 10:15 AM
Responsible Party:	City of Norfolk	Final Submittal:	12/05/20 2:49 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	7400 Major Ave			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----December 5, 2020 02:49 PM-----

DEQ Comments (Reviewed 12/11/2020 8:58:05 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105873	Reported:	12/05/20 2:55 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105873	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/11/20 8:56 AM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	12/04/20 2:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/04/20 4:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	12/05/20 2:55 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	827 E. Ocean View Ave			SSO Classification:	Maintenance-Grease

Cordinates:

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:47 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----December 5, 2020 02:55 PM-----

DEQ Comments

(Reviewed 12/11/2020 8:56:57 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105875	Reported:	12/10/20 3:50 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105875	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/11/20 8:55 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	12/10/20 9:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/10/20 11:00 AM
Responsible Party:	City of Norfolk	Final Submittal:	12/10/20 3:50 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	1478 Meads Rd			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----December 10, 2020 03:50 PM-----

DEQ Comments

(Reviewed 12/11/2020 8:55:34 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105876	Reported:	12/10/20 3:55 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105876	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/11/20 8:06 AM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	12/10/20 1:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/10/20 3:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	12/10/20 3:55 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	5322 Eastover Circle			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Broad Creek

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:47 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----December 10, 2020 03:55 PM-----

DEQ Comments

(Reviewed 12/11/2020 8:06:00 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105879	Reported:	12/29/20 12:01 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105879	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/05/21 8:29 AM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	12/28/20 10:30 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/28/20 1:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	12/29/20 12:01 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	737 W. Princess Anne Rd			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----December 29, 2020 12:01 PM-----

DEQ Comments

(Reviewed 1/5/2021 8:29:15 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105880	Reported:	12/29/20 12:07 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105880	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/05/21 8:29 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	12/28/20 1:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	12/28/20 3:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	12/29/20 12:07 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	9607 11th Bay St			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Chesapeake Bay

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----December 29, 2020 12:07 PM-----

DEQ Comments

(Reviewed 1/5/2021 8:29:32 AM by Meghan Kies)

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:47 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

None.

Attachments

None.

SSORS ID:	105888	Reported:	01/11/21 3:52 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105888	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/12/21 7:57 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	01/11/21 10:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	01/11/21 1:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	01/11/21 3:52 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	260 Missouri Place			SSO Classification:	Maintenance-Grease
Cordinates:					

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Mason Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----January 11, 2021 03:52 PM-----

DEQ Comments (Reviewed 1/12/2021 7:57:59 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105894	Reported:	01/21/21 10:55 AM	Amount Spilled:	150 Gallons
DEQ IR #:	SSORS#2021-T-105894	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/02/21 8:37 AM	Reaching State Waters:	150 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	01/19/21 7:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	01/19/21 9:00 AM
Responsible Party:	City of Norfolk	Final Submittal:	01/21/21 10:55 AM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	1160 Tidewater Dr			SSO Classification:	Maintenance-Grease
Cordinates:					

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the overflow cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the overflow cleaned up.

-----January 21, 2021 10:55 AM-----

DEQ Comments (Reviewed 2/2/2021 8:37:54 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105895	Reported:	01/22/21 5:12 PM	Amount Spilled:	2177 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:48 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

DEQ IR #:	SSORS#2021-T-105895	Reported by:	Lauren Grimmer	Amount Recovered:	1197 Gallons
Asset ID:	SF-091-7050	Last Edited	02/02/21 8:38 AM	Reaching State Waters:	980 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Meghan Kies	Spill Date:	01/22/21 12:15 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	01/22/21 4:59 PM
Responsible Party:	HRSD	Final Submittal:	01/25/21 1:42 PM	Spill Duration:	4 hour(s) 44 minute(s)
Site Name:	VA Beach Blvd Military Hwy Ext IFM			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Sewage was discovered near a 12-in cast iron force main. The cause of the failure was a circumferential crack.

Possible Receptors

storm sewer to Broad Creek

Description of Materials

wastewater

Corrective Action

Staff excavated to the source of the failure. A full circle clamp was installed around a circumferential crack. The site was then restored and treated with lime. Vactors were used to capture leaking sewage.

-----January 25, 2021 01:19 PM-----

DEQ Comments

(Reviewed 2/2/2021 8:38:07 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105899	Reported:	01/26/21 4:28 PM	Amount Spilled:	150 Gallons
DEQ IR #:	SSORS#2021-T-105899	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/02/21 8:39 AM	Reaching State Waters:	150 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	01/24/21 11:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	01/24/21 1:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	01/26/21 4:28 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	2008 Cromwell Dr			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Broad Creek

Description of Materials

Sewage

Corrective Action

Cleared the blockage and cleaned up the area.

-----January 26, 2021 04:28 PM-----

DEQ Comments

(Reviewed 2/2/2021 8:39:03 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105900	Reported:	01/28/21 4:10 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2021-T-105900	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/02/21 8:39 AM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	01/26/21 3:00 PM

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:48 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	01/26/21 4:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	01/28/21 4:10 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	Princess Anne & Smith Rd intx			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----January 28, 2021 04:10 PM-----

DEQ Comments (Reviewed 2/2/2021 8:39:33 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105904	Reported:	02/08/21 8:49 PM	Amount Spilled:	900 Gallons
DEQ IR #:	SSORS#2021-T-105904	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SF-007-20676	Last Edited	02/11/21 2:56 PM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Lauren Grimmer	Spill Date:	02/08/21 3:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	02/08/21 6:00 PM
Responsible Party:	HRSD	Final Submittal:	02/11/21 2:56 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	Ocean View Via Granby St.			SSO Classification:	Infrastructure

Cordinates:

Description Of Incident

City of Norfolk DPU called in an emergency ticket for a water leak at the intersection of W. Bay Ave and St George Ave. When HRSD locator arrived to mark the ticket, they realized it was actually sewage leaking through the pavement from the HRSD force main. Once excavated, it was determined that internal corrosion from an unvented high point in the pipeline had caused the failure.

Possible Receptors

storm sewer to Oastes/Mason Creek

Description of Materials

raw wastewater

Corrective Action

The overflow was controlled within the excavation with a vactor and the pump and haul of eight City pump stations. The leaking section of pipe was removed and replaced, and an air vent was installed to allow accumulated air at this high point to be removed in the future.

-----February 11, 2021 02:43 PM-----

DEQ Comments (Reviewed 2/9/2021 9:00:58 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105905	Reported:	02/09/21 3:51 PM	Amount Spilled:	150 Gallons
DEQ IR #:	SSORS#2021-T-105905	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/18/21 8:43 AM	Reaching State Waters:	150 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	02/08/21 7:30 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	02/08/21 9:00 AM

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:48 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Responsible Party: City of Norfolk **Final Submittal:** 02/09/21 3:51 PM **Spill Duration:** 1 hour(s) 30 minute(s)
Site Name: 706 W. 28th St **SSO Classification:** Maintenance-Grease
Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective ActionThe blockage was cleared and the area cleaned up.
-----February 9, 2021 03:51 PM-----**DEQ Comments** (Reviewed 2/18/2021 8:43:01 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105906	Reported:	02/11/21 4:33 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105906	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/18/21 8:43 AM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	02/10/21 10:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	02/10/21 6:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	02/11/21 4:34 PM	Spill Duration:	8 hour(s) 0 minute(s)
Site Name:	330 E. Bayview Blvd			SSO Classification:	Infrastructure

Cordinates:

Description Of Incident

An HRSD force main break caused pump and hauls for multiple pump stations, including City of Norfolk PS #32 at the intersection of Bayview Blvd and Tidewater Dr. During the pump and hauls, an overflow occurred here due to lack of trucks.

Possible Receptors

Mason Creek

Description of Materials

Sewage - Due to HRSD force main break and subsequent pump and haul.

Corrective ActionHRSD repaired their force main, the pump and haul was secured, and the pump stations including PS #32 were returned to normal operation.
-----February 11, 2021 04:33 PM-----**DEQ Comments** (Reviewed 2/18/2021 8:43:59 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105921	Reported:	02/18/21 10:05 PM	Amount Spilled:	1630000 Gallons
DEQ IR #:	SSORS#2021-T-105921	Reported by:	Lauren Grimmer	Amount Recovered:	0 Gallons
Asset ID:	SS-PS-105	Last Edited	02/19/21 10:23 PM	Reaching State Waters:	1630000 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Lauren Grimmer	Spill Date:	02/18/21 2:15 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	02/19/21 11:20 AM
Responsible Party:	HRSD	Final Submittal:	02/19/21 10:23 PM	Spill Duration:	21 hour(s) 5 minute(s)
Site Name:	Chesapeake Blvd Pump Station			SSO Classification:	Capacity-Weather Related

Cordinates:

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:48 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021**Description Of Incident**

Duty pumps were unable to keep up with the flows entering the wet well due to recent wet weather. The Luxembourg Ave PS saw a maximum rainfall of 0.18" in 15 minutes, with a total of 0.55" falling in 1 hour. The total rainfall for the rain event for this rain gauge was 1.63".

Possible Receptors

Lafayette River via Wayne Creek

Description of Materials

raw wastewater

Corrective Action

Once downstream pressures decreased, the station pumps were able to keep up with flows coming into the station.
-----February 19, 2021 10:23 PM-----

DEQ Comments

(Reviewed 2/19/2021 1:19:10 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105922	Reported:	02/19/21 10:36 AM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105922	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	02/19/21 12:44 PM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	02/18/21 4:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	02/18/21 6:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	02/19/21 10:36 AM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	Hampton Blvd & 49th St			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow to occur. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----February 19, 2021 10:36 AM-----

DEQ Comments

(Reviewed 2/19/2021 12:44:17 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105941	Reported:	03/08/21 4:35 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105941	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/16/21 9:37 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	03/03/21 2:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/03/21 3:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/08/21 4:35 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	5418 Poplar Hall Dr			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

Blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Broad Creek

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:48 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----March 8, 2021 04:35 PM-----

DEQ Comments

(Reviewed 3/16/2021 9:37:07 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105942	Reported:	03/08/21 4:37 PM	Amount Spilled:	400 Gallons
DEQ IR #:	SSORS#2021-T-105942	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/16/21 9:37 AM	Reaching State Waters:	400 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	03/03/21 3:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/03/21 5:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/08/21 4:37 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	8600 Glen Myrtle Ave			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

Blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----March 8, 2021 04:37 PM-----

DEQ Comments

(Reviewed 3/16/2021 9:37:47 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105943	Reported:	03/08/21 4:40 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105943	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/16/21 9:39 AM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	03/08/21 8:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/08/21 10:00 AM
Responsible Party:	City of Norfolk	Final Submittal:	03/08/21 4:40 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	3026 Ballentine Blvd			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

Blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----March 8, 2021 04:40 PM-----

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:49 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

DEQ Comments

(Reviewed 3/16/2021 9:39:39 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105946	Reported:	03/11/21 9:00 PM	Amount Spilled:	39500 Gallons
DEQ IR #:	SSORS#2021-T-105946	Reported by:	Lauren Grimmer	Amount Recovered:	7500 Gallons
Asset ID:	MH-SG-196-7718	Last Edited	03/16/21 2:20 PM	Reaching State Waters:	32000 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Lauren Grimmer	Spill Date:	03/11/21 2:40 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/11/21 2:41 PM
Responsible Party:	HRSD	Final Submittal:	03/16/21 2:20 PM	Spill Duration:	0 hour(s) 1 minute(s)
Site Name:	Taussig Blvd Pump Station			SSO Classification:	Third Party Action

Cordinates:

Description Of Incident

An overflow occurred at the discharge manhole outside of the Taussig Pump Station. The overflow was contained to a low-lying area within greenspace. No sewage was conveyed to the stormwater system. A portion of the overflow did infiltrate into the ground. Infiltration rate was assumed when estimating the quantity not recovered. There was evidence of surcharging in downstream manholes indicating a blockage may have occurred. No evidence of debris that could have caused this overflow was found.

Possible Receptors

ground

Description of Materials

raw wastewater

Corrective Action

Staff utilized a vector to recover sewage that was contained to the low-lying area near the manhole. The impacted area was treated with lime. Staff cleaned the downstream gravity main. No evidence of a blockage or debris that could have led to a blockage was observed. Per Telog, the overflow may have occurred between 3/10 12:55 and 3/10 10:25pm but was discovered 3/11 at 2:40pm.

-----March 16, 2021 02:20 PM-----

DEQ Comments

(Reviewed 3/16/2021 9:44:34 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105953	Reported:	03/22/21 4:25 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105953	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/23/21 7:43 AM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	03/22/21 2:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/22/21 4:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/22/21 4:25 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	6420 Faraday Court			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the overflow cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the overflow cleaned up.

-----March 22, 2021 04:25 PM-----

DEQ Comments

(Reviewed 3/23/2021 7:43:45 AM by Meghan Kies)

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:49 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

None.

Attachments

None.

SSORS ID:	105954	Reported:	03/22/21 4:32 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105954	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/23/21 7:43 AM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	03/20/21 5:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/20/21 6:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/22/21 4:32 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	4531 Dora Court			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage occurred which caused an overflow. The blockage was cleared and the overflow cleaned up.

Possible Receptors

Wayne Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the overflow cleaned up.

-----March 22, 2021 04:32 PM-----

DEQ Comments (Reviewed 3/23/2021 7:43:58 AM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105957	Reported:	03/26/21 3:34 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105957	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	03/29/21 2:44 PM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Meghan Kies	Spill Date:	03/25/21 1:30 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/25/21 3:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/26/21 3:34 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	901 Godfrey Ave			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Broad Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----March 26, 2021 03:34 PM-----

DEQ Comments (Reviewed 3/29/2021 2:44:12 PM by Meghan Kies)

None.

Attachments

None.

SSORS ID:	105961	Reported:	03/31/21 3:54 PM	Amount Spilled:	50 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:49 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

DEQ IR #:	SSORS#2021-T-105961	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	04/29/21 8:31 AM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	03/26/21 12:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	03/26/21 1:30 PM
Responsible Party:	City of Norfolk	Final Submittal:	03/31/21 3:54 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	112 Cromwell Parkway			SSO Classification:	Maintenance-Grease
Cordinates:					

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

LaFayette River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----March 31, 2021 03:54 PM-----

DEQ Comments (Reviewed 4/29/2021 8:31:14 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105965	Reported:	04/15/21 4:34 PM	Amount Spilled:	1000 Gallons
DEQ IR #:	SSORS#2021-T-105965	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	04/29/21 8:34 AM	Reaching State Waters:	1000 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	04/15/21 10:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	04/15/21 11:30 AM
Responsible Party:	City of Norfolk	Final Submittal:	04/15/21 4:34 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	829 Townsend Place			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and area cleaned up.

Possible Receptors

Broad Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and area cleaned up.

-----April 15, 2021 04:34 PM-----

DEQ Comments (Reviewed 4/29/2021 8:34:32 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105975	Reported:	04/27/21 4:15 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2021-T-105975	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	04/29/21 8:47 AM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	04/26/21 8:30 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	04/26/21 11:00 AM
Responsible Party:	City of Norfolk	Final Submittal:	04/27/21 4:15 PM	Spill Duration:	2 hour(s) 30 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:49 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021**Site Name:** 3220 Kirkland Ave**SSO Classification:** Maintenance-Grease**Cordinates:****Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Wayne Creek

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----April 27, 2021 04:15 PM-----

DEQ Comments

(Reviewed 4/29/2021 8:47:49 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105977	Reported:	04/28/21 4:22 PM	Amount Spilled:	150 Gallons
DEQ IR #:	SSORS#2021-T-105977	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	04/29/21 8:50 AM	Reaching State Waters:	150 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	04/27/21 8:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	04/27/21 10:30 AM
Responsible Party:	City of Norfolk	Final Submittal:	04/28/21 4:22 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	700 Monticello Ave			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----April 28, 2021 04:22 PM-----

DEQ Comments

(Reviewed 4/29/2021 8:50:21 AM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105978	Reported:	04/29/21 4:44 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2021-T-105978	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	06/04/21 2:51 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	04/28/21 1:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	04/28/21 5:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	04/29/21 4:44 PM	Spill Duration:	4 hour(s) 0 minute(s)
Site Name:	Tidewater & Charlotte intersection			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:49 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----April 29, 2021 04:44 PM-----

DEQ Comments

(Reviewed 6/4/2021 2:51:58 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105981	Reported:	04/30/21 3:58 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105981	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	06/04/21 2:53 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	04/29/21 3:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	04/29/21 4:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	04/30/21 3:58 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Tidewater Dr & Charlotte St			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A backup caused an overflow. The backup was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The backup was cleared and the area cleaned up.

-----April 30, 2021 03:58 PM-----

DEQ Comments

(Reviewed 6/4/2021 2:53:16 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105984	Reported:	05/03/21 3:21 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105984	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	06/04/21 2:54 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	05/03/21 12:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	05/03/21 1:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	05/03/21 3:21 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Virginia Beach Blvd & Salter St intersection			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:50 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----May 3, 2021 03:21 PM-----

DEQ Comments

(Reviewed 6/4/2021 2:54:33 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105988	Reported:	05/14/21 4:04 PM	Amount Spilled:	400 Gallons
DEQ IR #:	SSORS#2021-T-105988	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	06/04/21 2:56 PM	Reaching State Waters:	400 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	05/13/21 2:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	05/13/21 4:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	05/14/21 4:04 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	1425 Norchester Ave			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----May 14, 2021 04:04 PM-----

DEQ Comments

(Reviewed 6/4/2021 2:56:09 PM by Renee McKinnon)

None.

Attachments

None.

SSORS ID:	105989	Reported:	05/14/21 4:07 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2021-T-105989	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	06/04/21 2:56 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	05/14/21 12:00 PM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	05/14/21 2:00 PM
Responsible Party:	City of Norfolk	Final Submittal:	05/14/21 4:07 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	1428 W. 27th St			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.
-----May 14, 2021 04:07 PM-----

DEQ Comments

(Reviewed 6/4/2021 2:56:31 PM by Renee McKinnon)

SSORS Database - SPILL REPORT

Jurisdiction: Spilled in Norfolk(including reported by HRSD)

Created on 9/21/2021 8:09:50 AM
Date Range, Reported between 07/01/2020 AND 06/30/2021

None.

Attachments

None.

SSORS ID:	106006	Reported:	06/28/21 3:58 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2021-T-106006	Reported by:	David Speer	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	06/29/21 9:32 AM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	Norfolk	Last Edited by:	Renee McKinnon	Spill Date:	06/27/21 10:00 AM
Spilled-In Jurisdiction:	Norfolk	Phoned In:		Date Under Control:	06/27/21 11:30 AM
Responsible Party:	City of Norfolk	Final Submittal:	06/28/21 3:58 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	150 Randolph St			SSO Classification:	Maintenance-Grease

Cordinates:

Description Of Incident

A blockage caused an overflow. The blockage was cleared and the area cleaned up.

Possible Receptors

Elizabeth River

Description of Materials

Sewage

Corrective Action

The blockage was cleared and the area cleaned up.

-----June 28, 2021 03:58 PM-----

DEQ Comments

(Reviewed 6/29/2021 9:32:12 AM by Renee McKinnon)

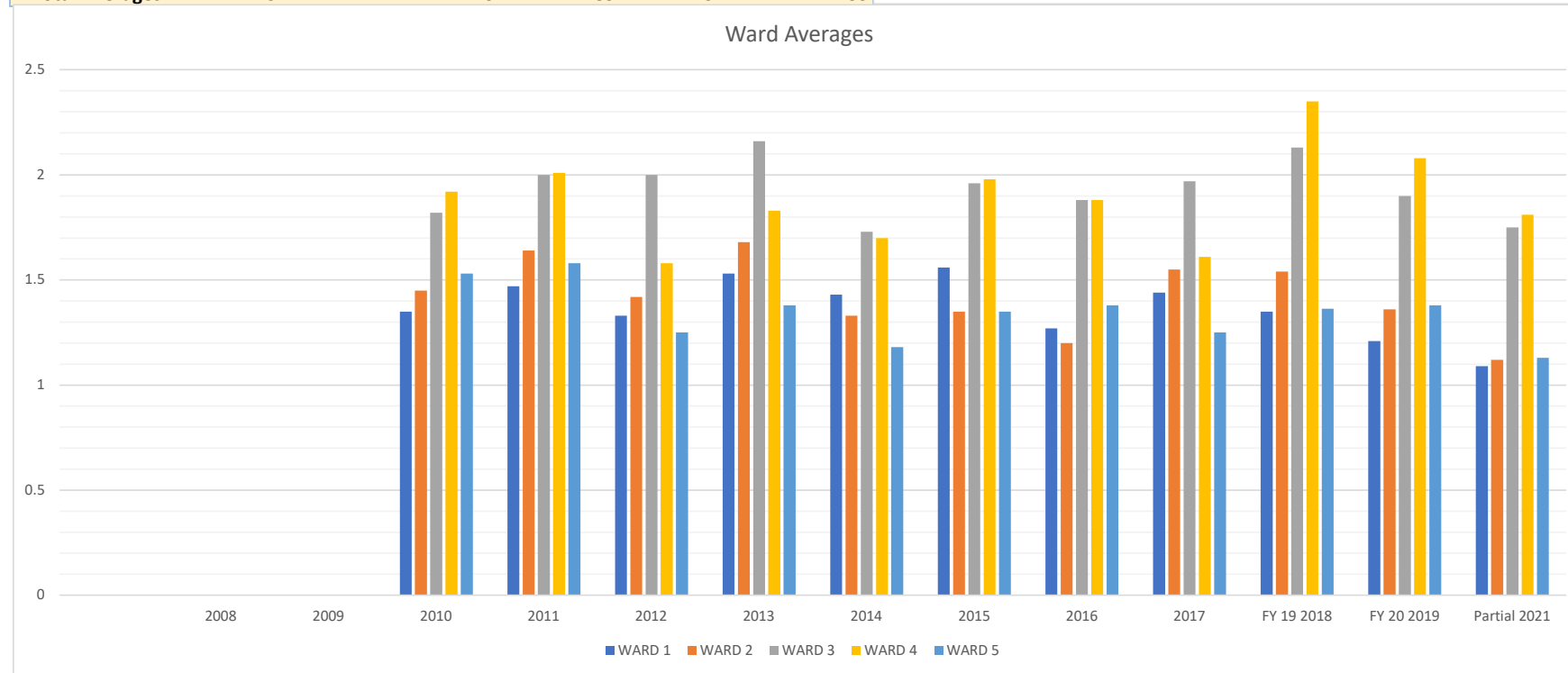
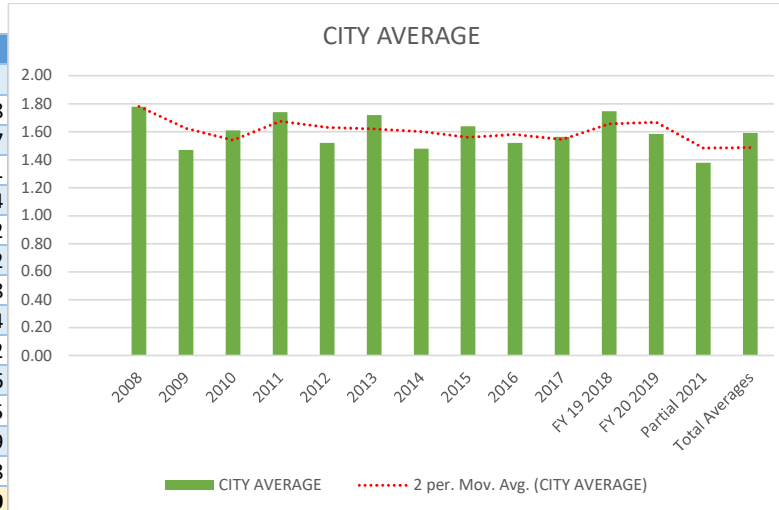
None.

Attachments

None.

COMMUNITY APPEARANCE INDEX FOR KEEP NORFOLK BEAUTIFUL 2010- 2019

YEAR	WARD 1	WARD 2	WARD 3	WARD 4	WARD 5	CITY AVERAGE
2008						1.78
2009						1.47
2010	1.35	1.45	1.82	1.92	1.53	1.61
2011	1.47	1.64	2	2.01	1.58	1.74
2012	1.33	1.42	2	1.58	1.25	1.52
2013	1.53	1.68	2.16	1.83	1.38	1.72
2014	1.43	1.33	1.73	1.7	1.18	1.48
2015	1.56	1.35	1.96	1.98	1.35	1.64
2016	1.27	1.2	1.88	1.88	1.38	1.52
2017	1.44	1.55	1.97	1.61	1.25	1.56
FY 19 2018	1.35	1.54	2.13	2.35	1.3625	1.75
FY 20 2019	1.21	1.36	1.9	2.08	1.38	1.59
Partial 2021	1.09	1.12	1.75	1.81	1.13	1.38
Total Averages	1.37	1.42	1.94	1.89	1.34	1.59



Training Script for Scorers

Introduction: Welcome all the scorers and thank them for participating. Introduce everyone. Provide an overview of the day. Training will be approximately 1 hour including a video. After training, the scorers will convene at the van. The scorers will conduct 2-3 sample Site scorings and will conduct the scoring for all Sites divided into Areas. The group will stop for lunch and breaks as needed. At the end of the day, the scorers will be asked to gather back at the meeting location to review the scoring process.

Background: Review the background information briefly. Information is included in the purpose, introduction, and research sections.

Keep America Beautiful, Inc. developed an approach to measuring litter, based on the research of our experts, Litter Measurement Technical Committee, field-testing, and review by selected Keep America Beautiful affiliates and state leaders. The Index has been designed to make your litter-prevention work easier and your reported results more credible. The results will help you quickly and reliably assess the litter situation in your community with the aim of achieving long-term, sustainable results. The purpose of the process is to gather information and not to point fingers. Over time, comparisons of the Index data can be used to evaluate results and identify what works locally to change attitudes and behaviors regarding litter and related community improvement issues.

Scoring: Discuss the scoring process. The Litter Index, section of the Community Appearance Index, is conducted annually, at approximately the same time. The affiliate may choose to conduct the Optional Indices. Distribute scorer packets and review score sheet and photos from the instructional materials. Explain part of the process is the consistency of using the 4-point Likert scale and definitions.

Review the descriptions, scale and photographs in Exhibit 4 and 5.

Show the local map including the Areas and Sites that will be scored.

Show the video: Show entire video and then during the Site review section provide your own commentary using the information outlined below:

1. The scoring leader will announce the Area and Site number and call "start" for each Site to be scored. When the entire Site has been viewed, the leader will call "stop."
2. Unless instructed otherwise, scorers should look left and right into alleyways, parking lots, businesses, residences, etc. to assess the overall Site. Both public and private property should be included. Consider the following:
 - How visible is the litter?
 - How continuous or frequent is the litter?
 - How difficult would it be to clean up the Site?
3. When stop is called, each scorer will write down a 1, 2, 3 or 4 opposite the appropriate Site number on the scoring sheet. The scorer should use a whole number only. Emphasize the scorer makes a decision on whether the Site most closely matches the descriptions provided and circles the applicable number.
4. During the scoring process, there should be no discussion among scorers.

5. Scorers may use the “notable conditions” column on the scoring sheet to indicate other circumstances, such as more litter at intersection, graffiti, illegal dumpsites, broken windows, or unkempt vegetation. This column can be used for listing conditions that might guide a work plan in one of the other Keep America Beautiful focus areas such as beautification or waste reduction and recycling.
6. When all Site scoring is complete, the scoring leader will collect the score sheets and check to be sure that all scoring sheets are complete.

If Optional Indices will be conducted, review Exhibit 6. Provide a brief review of the applicable local codes or ordinances related to each Optional Index. View the Optional Indices video.

Ask if the scorers have any questions.

Conclude by reviewing the agenda for the day. Ask scorers to make any calls needed and then turn off ringer before joining you in the van.

Litter Scale: Photographs

Score	Example
1 "Minimal or No Litter"	
2 "Slightly Littered"	
3 "Littered"	
4 "Extremely Littered"	

Litter Scale: Photographs

1 "Minimal No Litter"



Exhibit 5: Litter Scale: Photographs

2 "Slightly Littered"



Exhibit 5: Litter Scale: Photographs

3 "Littered"



Exhibit 5: Litter Scale: Photographs

4 “Extremely Littered”



Litter Scale Descriptions

Score	Instructions for Scores	Instructions for Scores
1 “Minimal or No Litter”	<ul style="list-style-type: none"> • Virtually no litter • 1 or 2 small items in a city block or equivalent • Collected quickly by 1 individual • Generally neat and tidy 	Virtually no litter can be observed in the Site. The scorer may see one or two small items in a city block, or equivalent. Any litter seen could be collected quickly by one individual. The entire Site has a generally neat and tidy appearance.
2 “Slightly Littered”	<ul style="list-style-type: none"> • Small amount of litter • Eye is not continually grabbed by littered items • Site cleaned in a short period of time 	Litter is obvious, but the eye is not continually grabbed by littered items. The Site could be cleaned in a short period of time.
3 “Littered”	<ul style="list-style-type: none"> • Visible litter catches your eye frequently • Organized effort for removal • Considerable effort to clean 	Visible litter catches your eye frequently throughout the Site. An organized effort for removal is required with considerable effort to clean up the Site.
4 “Extremely Littered”	<ul style="list-style-type: none"> • Continuous amount of litter • Litter first thing noticed • Might include an illegal dump • Equipment may be required for removal • Strong impression of a lack of concern about litter 	A continuous amount of litter is one of the first things noticed about the Site. Illegal dumpsites might be observed. Equipment may be required to clean up. There is a strong impression of a lack of concern about litter in the Site.

Consider the following:

How visible is the litter?

How continuous or frequent is the litter?

How difficult would it be to clean up the Site?



HAMPTON ROADS TRANSIT

2026

OCEAN VIEW
GRANDY ST

OCEAN VIEW
GRANDY ST

**LITTER FREE
NORFOLK**
Leave No Trace. Put Litter in Its Place!
Visit Our City & Keep Beautiful Beautiful!

2026

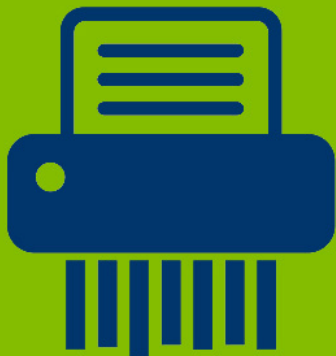
**LITTER FREE
NORFOLK**
Our CITY
Leave No Trace. Put Litter in Its Place!
Visit Our City & Keep Beautiful Beautiful!

Green Bucket #	First Name	Last Name	Email	Phone	Cleanup Date	Cleanup Location	Number of Bags	Lbs of Trash	Number of Volunteers	Number of Youth	Length of Cleanup (hours)	Total Hours
6	Tracy	Cullinan	tborczyk@gmail.com	7087178926	4/20/2021 0:00	Norfolk Fitness and Wellness Center	1	15	2	1	1	2
13	El	Chaevis	chefchaevis@gmail.com	7573873656	4/19/2021 0:00	LaValette Ave	1	15	2	0	0.5	1
5	Andrew	Whitfield	awhit140@gmail.com	7572973029	4/20/2021 0:00	Bayview Elementary	1	15	3	1	1	3
2	Rachel	Smith	e.rachel.smith@protonmail.com	7573398211	4/22/2021 0:00	Estabook	1	15	1		1	1
13	Ivan	Ash	ivan.k.ash@gmail.com	7576795463	4/28/2021 0:00	Warwick Avenue	1	15	2	1	0.25	0.5
8	Martina	Dunlap	dunlap.martina@gmail.com	7577398336	5/1/2021 0:00	Barraud Park	3	45	3	1	2	6
14	Ken	Danser	twodansers@aol.com	7575363031	5/6/2021 0:00	Lochhaven	1	15	1	0	1	1
14	Ken	Danser	twodansers@aol.com	7575363031	4/22/2021 0:00	Lochhaven	1	15	1	0	1	1
4	Jennifer	Adams	jkadams@cox.net	7575463400	5/8/2021 0:00	Willow Wood Drive	2	30	1	0	1	1
15	Adora	Parker	adoraparker@gmail.com	7576369393	5/6/2021 0:00	West Ghent	1	15	1	0	0.5	0.5
19	Tamara	Hall	thb.messages@yahoo.com	5127120324	5/14/2021 0:00	Lakewood Park	1	15	2	2	1	2
20	Reina	Fernandez	Rferandes@hotmail.com	7573513641	5/17/2021 0:00	Greenhills Farm	1	15	1	0	1	1
21	Roberto	Lovick	robertolovick182@gmail.com	7575891602	4/19/2021 0:00	Bruce Park	2	30	1	2	2	2
21	Roberto	Lovick	robertolovick182@gmail.com	7575891602	6/1/2021 0:00	Broad Creek	2	30	1	0	2	2
8	Martina	Dunlap	dunlap.martina@gmail.com	7577398336	6/2/2021 0:00	Lafayette Park	2	30	6	4	0.5	3
17	Jon	Landis	jonlandis@me.com	7178142696	6/7/2021 0:00	Ocean View Beaches	3	45	2	0	1	2
17	Jon	Landis	jonlandis@me.com	7178142696	6/17/2021 0:00	Ocean View Beaches	2	30	1	0	1	1
21	Roberto	Lovik	robertolovik182@gmail.com	7575891602	6/19/2021 0:00	Bruce Park	2	30	1	0	2	2
15	Adora	Parker	adoraparker@gmail.com	7576369393	6/18/2021 0:00	West Ghent	1	15	1	0	0.5	0.5
27	Susan	Collins	beach4susie@yahoo.com	7575818465	6/23/2021 0:00	Azalea Acres	2	30	4	3	1.5	6
25	Christina	Masslock	cc.mlock@outlook.com	7574013462	6/23/2021 0:00	516 Ashlawn Drive	2	30	1	0	1	1
35	Gail	Irby	gailandthebear@aol.com	7575675039	6/25/2021 0:00	Knitting Mill Creek	1	15	2	0	2	4
17	Jon	Landis	jonlandis@me.com	7178142696	6/27/2021 0:00	Ocean View Beaches	1	15	1	0	1	1
27	Susan	Collins	beach4susie@yahoo.com	7575818465	6/23/2021 0:00	Cape Henry/Nelms Ave, Princess Anne	1	15	4	3	0.5	2
10	Ayla	Marhev	ayla.marhev@gmail.com	9079874935	6/30/2021 0:00	N/A	5	75	1	0	6	6
4	Jennifer	Adams	jkadams@cox.net	7575463400	6/22/2021 0:00	Willowwood Drive	2	30	1	0	1	1
14	Ken	Danser	twodansers@aol.com	7575363031	6/15/2021 0:00	Lochhaven	1	15	1	0	1	1
					27		44	660	27	26	34.25	54.5



America Recycles Day

November 14th • FREE Drop-off at One Location



**Paper
Shredding**



**Household
Hazardous
Waste***



Plastic Bags

*For Norfolk residents only. For a complete list of acceptable items, visit norfolk.gov/KNB.

DATE & TIME

Saturday, November 14th
9:00AM-NOON

LOCATION

Norfolk Workforce
Development Center
201 E. Little Creek Rd.

MORE INFORMATION

Visit norfolk.gov/knb or
email knb@norfolk.gov.



In partnership with the Department of Public Works-Waste Management, SPSA and Iron Mountain



America Recycles Day

List of Acceptable Items*

CLEANING & HOME PRODUCTS

Cooking Oil
Drain Cleaners
Wood & Metal Cleaners/ Polishes
Toilet Cleaners
Tub, Tile, Shower Cleaners
Bleach
Pool Chemicals
Oven Cleaners
Degreasers

INDOOR PESTICIDES

Ant Poisons
Cockroach Poisons
Flea Repellants
Household Insecticides
Moth Repellants
Mouse & Rat Poisons

OUTDOOR LAWN & GARDEN

Herbicides
Insecticides
Wood Preservatives / Fungicides
Pesticides
Fertilizer
Driveway Sealer

MERCURY

Mercury Containing Thermostats
Mercury Thermometers
Compact Fluorescent Bulbs

BATTERIES

Rechargeable Small Sealed Lead Acid
Rechargeable Nickel Cadmium (Ni-Cd) Batteries
Rechargeable Nickel Metal Hydride (Ni-MH) Batteries
Rechargeable Lithium Ion (Li-ion) Batteries
Alkaline / Zinc Carbon Batteries

AUTOMOTIVE PRODUCTS

Motor Oil
Fuel Additives
Carburetor & Fuel Injector Cleaners
Air Conditioning Refrigerants
Starting Fluids
Automotive Batteries
Transmission & Brake Fluid
Antifreeze
Gasoline/Diesel Fuel

WORKSHOP/PAINTING

Furniture Strippers
All Paint
Stains & Finishes
Paint Thinners & Turpentine
Paint Strippers & Removers
Photographic Chemicals
Fixatives & Other Solvents

OTHER FLAMMABLE PRODUCTS

Propane Tanks & Cylinders
Lighter Fluid
Home Heating Oil
Kerosene
Aerosol Cans
Gas / Oil Mixtures
Nail Polish Removers

**Proof of residency required. Limit disposal to five (5) gallons of liquid or 75 pounds of solid waste per visit.*

Norfolk America Recycles Day Event

11/14/2020

Inventory of Collected Materials				
	Gallons	Count	Drum (55 Gal)	Pounds
Latex Paint	540			5398
Antifreeze	32			245
Used Oil	42			320
Gasoline	12			73
Acids	1			6
Liquid Poison			0.50	27.5
Solid Poison			0.25	13.75
Aerosols			0.25	13.75
Alkaline Batteries				5
Other Batteries		4		0.11
Oxidizers			0.25	
Cleaners	27			166
Kerosene	0			0
Lead Acid Batteries		7		273
Propane Tanks		8		136
Helium Tanks		2		35
Fluorescent Bulbs		22		1.6
Paint related materials	20			166
Used cooking Oil	5			41
Fire Extinguishers		6		72
			TOTAL	6992.71

Norfolk Residents 205
 Total 205

SAVE THE DATE

NORFOLK RECYCLES DAY

APRIL 17, 2021

FREE
Drive
Through,
Drop-off
Event

What You Can Bring

- Household hazardous waste*
- Documents for on-site, secure shredding
- Plastic bags, clear plastic packaging wrap, and toilet paper and paper towel roll wrap

*Must show proof of Norfolk residency



PRE-REGISTRATION Today

Use the QR code or
visit www.norfolk.gov/knb



LOCATION

Huntersville Community Center
830 Goff St
Approach from Church St



TIME

9:00 AM to Noon



SAVE THE DATE

NORFOLK RECYCLES DAY

APRIL 17, 2021

FREE
Drive
Through,
Drop-off
Event

What You Can Bring

- Household hazardous waste*
- Documents for on-site, secure shredding
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PRE-REGISTRATION Today

Use the QR code or
visit www.norfolk.gov/knb



LOCATION

Huntersville Community Center
830 Goff St
Approach from Church St



TIME

9:00 AM to Noon



Acceptable Household Hazardous Waste

<ul style="list-style-type: none"> • Cooking Oil • Drain Cleaners • Wood & Metal Cleaners/Polishes • Toilet Cleaners • Tub, Tile, Shower Cleaners • Motor Oil • Automotive Batteries • Transmission & Brake Fluid • Antifreeze • Gasoline/diesel fuel • Herbicides • Insecticides • Wood Preservatives / Fungicides • Pesticides • Fertilizer • Rechargeable Small Sealed Lead Acid Batteries • Rechargeable Nickel Cadmium (Ni-Cd) Batteries • Rechargeable Nickel Metal Hydride (Ni-MH) Batteries 	<ul style="list-style-type: none"> • Rechargeable Lithium Ion (Li-ion) Batteries • Propane Tanks & Cylinders • Lighter Fluid • Home Heating Oil • Kerosene • Aerosol Cans • Gas / Oil Mixtures • Ant Poisons • Cockroach Poisons • Flea Repellants • Household Insecticides • Moth Repellants • Furniture Strippers • All Paint • Stains & Finishes • Paint Thinners & Turpentine • Paint Strippers & Removers • Mercury Containing Thermostats • Mercury Thermometers • Compact Fluorescent Bulbs
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COVID Requirements

- All participants **must** wear a face mask at check-in and drop off locations.
- Place all items for drop-off in trunk or truck bed of vehicle.
- Do not exit vehicle while in event.
- Do not attend event if you have tested positive for COVID-19, come in contact with someone who has tested positive within 14 days prior to the event, or have cold or flu like symptoms.
- Must be in a vehicle to participate.

For more information, email knb@norfolk.gov or call 757-441-1347.

Acceptable Household Hazardous Waste

<ul style="list-style-type: none"> • Cooking Oil • Drain Cleaners • Wood & Metal Cleaners/Polishes • Toilet Cleaners • Tub, Tile, Shower Cleaners • Motor Oil • Automotive Batteries • Transmission & Brake Fluid • Antifreeze • Gasoline/diesel fuel • Herbicides • Insecticides • Wood Preservatives / Fungicides • Pesticides • Fertilizer • Rechargeable Small Sealed Lead Acid Batteries • Rechargeable Nickel Cadmium (Ni-Cd) Batteries • Rechargeable Nickel Metal Hydride (Ni-MH) Batteries 	<ul style="list-style-type: none"> • Rechargeable Lithium Ion (Li-ion) Batteries • Propane Tanks & Cylinders • Lighter Fluid • Home Heating Oil • Kerosene • Aerosol Cans • Gas / Oil Mixtures • Ant Poisons • Cockroach Poisons • Flea Repellants • Household Insecticides • Moth Repellants • Furniture Strippers • All Paint • Stains & Finishes • Paint Thinners & Turpentine • Paint Strippers & Removers • Mercury Containing Thermostats • Mercury Thermometers • Compact Fluorescent Bulbs
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For more information, email knb@norfolk.gov or call 757-441-1347.

Keep Norfolk Beautiful Recycles Day Event

4/17/2021

Inventory of Collected Materials				
	Gallons	Count	Drum (55 Gal)	Pounds
Latex Paint	480			4799
Antifreeze	15			115
Used Oil	30			216
Gasoline	27			166
Acids	6			45
Liquid Poison			1.00	55
Solid Poison				15
Aerosols			1.00	55
Alkaline Batteries				12
Other Batteries		8		1
Oxidizers	4		1.50	83
Cleaners	28			241
Kerosene	0			
Lead Acid Batteries		10		410
Propane Tanks		17		289
Helium Tanks		4		56
Fluorescent Bulbs		20		6
Paint related materials	15			5
Used cooking Oil	2			15
Fire Extinguishers		6		60
			Total	6644

Norfolk Residents 174
 Total 174

America Recycles Day - 11/14/2020 totals															
Number of Organizations Involved	Single Stream/Commingled	Single Beverage Containers		Plasitc Bags and Film Plastic bag collection (lbs)	Electronics Collected (lbs)	Hand-Held Devices Collected	Clothing/T extilesl (lbs)	Other Recyclables Collected All other HHW (lbs)	Total Pounds	Number of Volunteers	Total Volunteer Hours Worked	Total Value of Volunteer Hours	Total Volunteers hours	Length of Event (in hours)	Total Participants
Number of partners	TFC Recyclables (lbs)		Shredding												
2	0	0	3120	110	0	0	0	6992	10222	7	4	107	28	3	156
Norfolk Recycles Day (Special Waste Collection Event) 4-17-2021 totals															
Number of Organizations Involved	Single Stream/Commingled	Single Beverage Containers		Plasitc Bags and Film Plastic bag collection (lbs)	Electronics Collected (lbs)	Hand-Held Devices Collected	Clothing/T extilesl (lbs)	Other Recyclables Collected All other HHW (lbs)	Total Pounds	Number of Volunteers	Total Volunteer Hours Worked	Total Value of Volunteer Hours	Total Volunteers hours	Length of Event (in hours)	Total Participants
Number of partners	TFC Recyclables (lbs)		Shredding												
3			2600	60				6664	9324	11	4	1177	44	3	127



**DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENVIRONMENTAL
STORM WATER MANAGEMENT
HIGH-RISK COMMERCIAL AND INDUSTRIAL
OUTFALL INSPECTION PROGRAM**

DATE WRITTEN: May 13, 2014
DATE REVISED: June 28, 2017; November 25, 2019; February 10, 2020
PREPARED BY: June Whitehurst, Environmental Program Manager; Casey Magruder,
Environmental Program Administrator
REVIEWED BY: John M. White, Storm Water Engineer
FILE PATH:
REFERENCE: MS4 Permit; City Ordinances; SOP628, Storm Water Infrastructure Inspection
Program
DISTRIBUTION: Management Services; Operations

PURPOSE/OBJECTIVE:

To meet regulatory requirements outlined in Part I.A.2.g of the MS4 permit.

To define guidelines, protocols, and procedures for the high-risk Commercial and Industrial “outfall” Inspection Program. The purpose of this program is to identify and control pollutants in storm water discharges from commercial and industrial facilities that have been identified in the MS4 permit as high risk of discharging pollutants to the City’s MS4.

This SOP is to be used by Public Works Storm Water staff to assist with the implementation of the program.

BACKGROUND:

The City of Norfolk is mandated by federal and state law, as well as the City’s MS4 VPDES Permit, VA0088650, to monitor and control pollutants in storm water discharges from the City storm water conveyances. One component of the program is the detection and elimination of illicit discharges into the City’s MS4 system.

Facilities operating under a VPDES permit issued by DEQ are required to meet certain effluent standards and implement best management practices depending upon the nature of the activity undertaken at the facility and are inspected by the State.

The focus of the City’s program will be on those high-risk commercial and industrial sites which have a point source outfall from the facility directly into City’s MS4 system.

DEFINITIONS:

Best Management Practices (BMP’s) – Schedules of activities, practices (and prohibitions of practices), structures, vegetation, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants to surface waters. BMP’s also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

High-risk Facilities – Any industrial or commercial facility that discharges to the MS4 that has been determined to contribute a significant pollutant loading (e.g. municipal landfills, TSD facilities, hazardous waste TSD facilities, facilities subject to EPCRA Title III, Section 313, facilities with



**DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENVIRONMENTAL
STORM WATER MANAGEMENT
HIGH-RISK COMMERCIAL AND INDUSTRIAL
OUTFALL INSPECTION PROGRAM**

VPDES industrial permits etc.).

Illicit Discharge – Discharge to the storm water system that is not comprised entirely of rainwater or an authorized discharge. Illicit discharges are often, but not limited to, petroleum products (i.e., motor oil, antifreeze, hydraulic oil, transmission fluid, etc.), paint and solid waste.

MS4 VPDES Permit – Municipal Separate Storm Sewer System Virginia Pollution Discharge Elimination System is a permit issued to the City of Norfolk by the state of Virginia authorizing, under prescribed conditions, the potential or actual discharge of pollutants from a point source to surface waters. Best management practices and good housekeeping practices must be implemented and maintained to the maximum extent practicable to reduce the pollutants from discharging to natural waterways of the US.

RESPONSIBILITIES:

Division – The Department of Public Works, Division of Environmental Storm Water Management is the administrator of the MS4 VPDES Permit, VA0088650. Environmental staff ensures compliance with the VPDES permit associated with illicit discharges to the storm water system.

Environmental Staff develop and maintain a list of high priority commercial and industrial facilities. This list is reviewed and updated annually. Staff conduct the outfall inspection at these industrial and commercial high-risk facilities.

PROCEDURES:

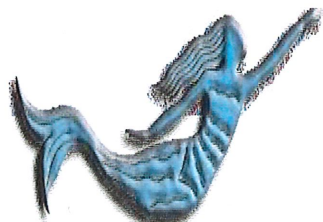
1) Identify known industrial and commercial high-risk facilities:

The City obtains a list of current VPDES industrial storm water permit holders in the City of Norfolk from the DEQ Comprehensive Environmental Database System (CEDS). The CEDS data can be accessed via the following link:

<http://www.deq.virginia.gov/programs/water/permittingcompliance/pollutiondischargeelimination/permitsfees.aspx>

No exposure certifications issued by DEQ exclude a facility from requiring a permit for storm water discharges associated with industrial activity. These certifications only apply to industrial facilities when all industrial materials and activities are protected by a storm-resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. A list of facilities in the City of Norfolk that hold no exposure certifications is also requested.

A list of business licenses in the City of Norfolk will be requested and received from the Commissioner of the Revenue's office. From this information, a prioritized inventory of high-risk commercial and industrial businesses is developed. City staff cross reference the business licenses with DEQ VPDES Industrial permitted facilities and no-exposure facilities. Facilities operating under a no exposure certification issued by DEQ are excluded from this inspection program. Additionally, facilities that sheet flow or discharge directly to state waters will be also excluded from the City's inspection program.



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT HIGH-RISK COMMERCIAL AND INDUSTRIAL OUTFALL INSPECTION PROGRAM

The list of high-risk facilities will be refined throughout the permit cycle. Industrial and commercial properties removed from the inspection program will be documented with justification.

2) Prioritize high-risk facilities:

Currently, the City prioritizes facility outfall inspections by concentrating on those commercial and industrial entities that have been identified as high-risk facilities in the MS4 permit. This prioritized inventory of target businesses includes:

High-risk Facilities:

- VPDES Industrial sites
- High-priority City municipal facilities
- Car wash/auto detailing facilities (including new/used car dealerships and rental facilities)
- Junk dealers
- Auto repair shops (mechanical and body)
- Transportation services (tow truck, taxi)
- Gas/service stations
- Nurseries
- Marinas
- Pet care facilities (kennels, day care)
- Waste Management Solid Waste Collection Sites / Material Recovery Facilities

The Department of Fire-Rescue permits and inspects commercial and industrial facilities subject to Section 313 of SARA Title III. The Department of Fire-Rescue also permits and monitors demolition certificates, fireworks performances, hazardous materials storage, underground fuel tanks filling or removal, and welding or cutting metal. These facilities will also be excluded from the Commercial/Industrial Inspection Outfall Program inspection inventory.

3) VPDES Industrial Facility DMR Review

On an annual basis, the City will track submittals of all discharge monitoring reports (DMR's) by current VPDES industrial permit holders in the City of Norfolk. These documents will be used to identify and investigate facilities contributing significant pollutant loadings to the environment. Facilities that have not submitted a copy of their DMR to the City by June 30th of each year will be reported to DEQ by the annual report process.

4) Develop and implement a standard high-risk outfall inspection program:

The high-risk facilities outfall/tie-in inspections occur during the standard storm water preventative maintenance inspection program. This program consists of visual inspections of the storm water infrastructure including catch basins, manholes or drop inlets. The Inspector observes the structure for dry weather or illicit discharges from the facilities; if discovered the source is identified and eliminated. Details of the inspection program can be found in SOP657.

Upon discovery of an unauthorized discharge, the inspector will refer facilities to the DEQ TRO for the following:



**DEPARTMENT OF PUBLIC WORKS
DIVISION OF ENVIRONMENTAL
STORM WATER MANAGEMENT
HIGH-RISK COMMERCIAL AND INDUSTRIAL
OUTFALL INSPECTION PROGRAM**

- Facilities that have non-stormwater discharges that do not currently have coverage under an existing VPDES industrial permit,
- Facilities that do not have coverage under an existing VPDES industrial permit and have been identified as required to obtain VPDES industrial permit coverage, and
- VPDES permit facilities that have evidence of significant pollutant loading.

5) Prepare reports to document inspection activities:

Standard high-risk facility outfall/tie-in inspections are documented and tracked by the preventative maintenance inspector. Documentation of the high-risk facilities completed will be reported to DEQ in the annual report.

Facilities that are referred to DEQ will also be tracked and reported in the City's annual report.

6) Analyze trends and modify/improve the program as necessary:

The overall success of the high-risk Commercial and Industrial Outfall Inspection Program will be measured through the successful implementation of outfall inspections as part of the program. Success will also be measured by the number of inspections conducted, and the number of problems discovered and resolved.

Program assessment will be submitted with each annual report discussing the activities completed for the previous program year. This will include a report on inventory, including the type and total number of facilities inspected.

Due to the ever-evolving nature of the program the inventory will be evaluated and updated. The program will exclude those properties that do not have a point source discharge directly to the City's MS4 or do not have the potential to pollute the MS4.

APPROVED:

John M. White
Storm Water Engineer
Public Works, Division of Environmental Storm Water Management

Prioritized Inspection Schedule - Norfolk Industrial & High Risk Facilities										
VPDES Permit No.	Fiscal Year Proposed Inspection Date	Schedule Date	Inspection Date	Commerical / Industrial Name	Address	Owner Name	NAIC_Code	Class	Planning District #	Planning District Name
	2021	Jul-20	6/3/20	BIG AL'S MUFFLERS & BRAKES	287 E LITTLE CREEK RD	ANZELL AUTOMOTIVE INC	811111.00	General Automotive Repair	38	DENBY PARK
	2021	Jul-20	6/3/20	RACE COAST	303 E LITTLE CREEK RD	SS OPCO I LLC	447110.00	Gas Station @ Convenience Store	38	DENBY PARK
	2021	Jul-20	6/3/20	LOVE FOOD MART 10	303 E LITTLE CREEK RD	HARE RAM INC	447190.00	Gas Stations	38	DENBY PARK
	2021	Jul-20	6/3/20	D'S TOWING	460 PEPPER MILL LN	DOXIE, ARNOLD	488410.00	Tow Truck Services	84	POPLAR HALLS
	2021	Jul-20	6/3/20	URBAN RECYCLE INC	500 NAVAL BASE RD	URBAN RECYCLE INC	562920.00	Material Recovery Facility	38	DENBY PARK
	2021	Jul-20	6/3/20	TRINITY PRE OWNED AUTO SALES	5139 E VIRGINIA BEACH BLVD	TRINITY PRE OWNED AUTO SALES INC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	Jul-20	6/3/20	GORDON MOTOR AUTO SALES INC	5203 E VIRGINIA BEACH BLVD	GORDON MOTOR AUTO SALES INC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	Jul-20	6/3/20	HAPPY PLACE	5548 BROOKVILLE RD	HAPPY PLACE LLC	812910.00	Pet Services (not Veterinary)	84	POPLAR HALLS
	2021	Jul-20	6/3/20	AUTO OUTLET SALES & RENTAL LLC	5573 E VIRGINIA BEACH BLVD	AUTO OUTLET SALES & RENTAL LLC	441120.00	Used Car Dealer	84	POPLAR HALLS
	2021	Jul-20	6/3/20	TIDEWATER DRIVE AUTO SALES INC	5585 E VIRGINIA BEACH BLVD	TIDEWATER DRIVE AUTO SALES INC	441110.00	New Car Dealer	84	POPLAR HALLS
	2021	Jul-20	6/3/20	7-ELEVEN STORE #19108A	7431 TIDEWATER DR	MCM INVESTMENT INC	447190.00	Gas Stations	38	DENBY PARK
	2021	Jul-20	6/3/20	SOUTHERN AUTO SALES & RENTALS INC	7467 TIDEWATER DR	SOUTHERN AUTO SALES AND RENTALS	532111.00	Passenger Car Rental	38	DENBY PARK
	2021	Jul-20	6/3/20	SOUTHERN AUTO SALES & RENTALS INC	7467 TIDEWATER DR	SOUTHERN AUTO SALES AND RENTALS	441120.00	Used Car Dealer	38	DENBY PARK
	2021	Jul-20	6/3/20	BRESS AUTO SERVICE	7471 TIDEWATER DR	BRESS, ROGER ALLEN	811111.00	General Automotive Repair	38	DENBY PARK
	2021	Jul-20	6/3/20	PAPCO INC	930 BRIAR HILL RD	PAPCO INC	447110.00	Gas Station @ Convenience Store	84	POPLAR HALLS
	2021	Aug-20	6/5/20	AVIS RENT A CAR	2200 NORVIEW AVE	AVIS RENT A CAR SYSTEM LLC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	BUDGET RENT A CAR SYSTEM INC	2200 NORVIEW AVE	BUDGET RENT A CAR SYSTEM INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	DOLLAR RENT A CAR	2200 NORVIEW AVE	DTG OPERATIONS INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	THRIFTY CAR RENTAL	2200 NORVIEW AVE	DTG OPERATIONS INC	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	ENTERPRISE RENT-A-CAR	2200 NORVIEW AVE	ENTERPRISE LEASING CO OF NFLK/RICH	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	THE HERTZ CORP	2200 NORVIEW AVE	HERTZ CORP THE	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	NATIONAL CAR RENTAL/ALAMO CAR RENTAL	2200 NORVIEW AVE	ENTERPRISE LEASING CO OF NFLK/RIC L	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	HERTZ LOCAL EDITION	6101 BURTON STATION RD	HERTZ CORP THE	532111.00	Passenger Car Rental	23	NORFOLK INTERNATIONAL AIRPORT
	2021	Aug-20	6/5/20	KNIGHT'S SERVICE CENTER	6575 TIDEWATER DR	KNIGHT, DANIEL W	811111.00	General Automotive Repair	42	CORONADO
	2021	Aug-20	6/5/20	BAHIA AUTO SALES	6581 TIDEWATER DR	BAHIA AUTO COMPANY	811111.00	General Automotive Repair	42	CORONADO
	2021	Aug-20	6/5/20	TAURUS AUTO SALES	6581 TIDEWATER DR	VIRGINIA ATLANTIC TRADING LLC	441120.00	Used Car Dealer	42	CORONADO
	2021	Aug-20	6/5/20	BAHIA AUTO SALES	6581 TIDEWATER DR	BAHIA AUTO COMPANY	441120.00	Used Car Dealer	42	CORONADO
	2021	Aug-20	6/5/20	DAVE LISTON'S AUTO OUTLET	6907 SEWELLS POINT RD	LISTON, DAVID J	441120.00	Used Car Dealer	42	CORONADO
	2021	Aug-20	6/5/20	DAVE LISTON'S AUTO OUTLET	6907 SEWELLS POINT RD	LISTON, DAVID J	423110.00	Auto Sales Wholesale	42	CORONADO
	2021	Aug-20	6/5/20	WHISKERS & PAWS	8028 ROXBORO RD	DEY, RICHELE A	812910.00	Pet Services (not Veterinary)	16	OAKDALE FARMS
	2021	Aug-20	6/5/20	POSH PET SITTING AND TRAINING	8234 MERCER DR	CUELLAR, PAULA L	812910.00	Pet Services (not Veterinary)	16	OAKDALE FARMS
	2021	Aug-20	6/5/20	PRIDE ROC	880 WIDGEON RD	MURPHY, DAVID A	811192.00	Car Wash	42	CORONADO
	2021	Aug-20	6/5/20	EXECUTIVE ATLANTIC LLC	888 WIDGEON RD	EXECUTIVE ATLANTIC LLC	485320.00	Limousine Services	42	CORONADO
	2021	Aug-20	6/5/20	TAKE ME DOWN TOWN LLC	888 WIDGEON RD	TAKE ME DOWN TOWN LLC	485320.00	Limousine Services	42	CORONADO
	2021	Sep-20	7/1/20	JK ENTERPRISES #229	2701 E OCEAN VIEW AVE	JK ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	6	PRETTY LAKE
	2021	Sep-20	7/1/20	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	Sep-20	7/1/20	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	441320.00	Tire Dealers	77	LAKE TERRACE
	2021	Sep-20	7/1/20	JOE'S TIRES & RIMS INC	6000 E VIRGINIA BEACH BLVD	JOE'S TIRES & RIMS INC	423130.00	Tires & Tubes Wholesale	77	LAKE TERRACE
	2021	Sep-20	7/1/20	BEACH AUTO	6030 E VIRGINIA BEACH BLVD	MAR-PAT INC	441120.00	Used Car Dealer	77	LAKE TERRACE
	2021	Sep-20	7/1/20	J & M TIRE	6100 E VIRGINIA BEACH BLVD	PBM INC	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	Sep-20	7/1/20	RT MOTORCYCLE & AUTO	6106 E VIRGINIA BEACH BLVD	RICHARDSON, KERRY THEODORE	811111.00	General Automotive Repair	77	LAKE TERRACE
	2021	Sep-20	7/1/20	SCRUBBERS WASH AND WAX	719 MAURY AVE	AVEN, DAVID M	811192.00	Car Wash	62	NORTH GHENT
	2021	Oct-20	7/1/20	BOOTY THE JUNK MAN	1343 BRANCH RD	CAREY, CRAWFORD P	562119.01	Junk Dealer	41	ROSEMONT
	2021	Oct-20	7/1/20	INTERNATIONAL AUTO CARE LLC	2390 E LITTLE CREEK RD	INTERNATIONAL AUTO CARE LLC	811111.00	General Automotive Repair	18	ROOSEVELT GARDENS
	2021	Oct-20	7/1/20	NEW HORIZON BUS CO INC	7607 EVELYN T BUTTS AVE	NEW HORIZON BUS CO INC	485999.00	All Other Passenger Transportation	41	ROSEMONT
	2021	Oct-20	7/1/20	R T BODY SHOP INC	7615 MERRITT STREET	R T BODY SHOP INC	811111.00	General Automotive Repair	41	ROSEMONT
	2021	Nov-20	7/2/20	7-ELEVEN 25098A	1000 E BAYVIEW BOULEVARD	FISCHER ENTERPRISES INC	447110.00	Gas Station @ Convenience Store	13	WILLOW TERRACE
	2021	Nov-20	7/2/20	PRIDE AUTOMOTIVE CORP	1530 E LITTLE CREEK RD	PRIDE AUTOMOTIVE CORP	441120.00	Used Car Dealer	17	BEL-AIRE
	2021	Nov-20	7/2/20	STAR MINI MART	1542 E LITTLE CREEK RD	ZARA & ZARIN CORPORATION	447110.00	Gas Station @ Convenience Store	17	BEL-AIRE
	2021	Nov-20	7/2/20	ATTA-BOY PET SITTING SERVICE	1670 COUGAR AVE	DOUGLAS, STEVEN M	812910.00	Pet Services (not Veterinary)	17	BEL-AIRE
	2021	Nov-20	7/2/20	DOMINION LIMO LLC	8110 ANGLEWOOD CT	DOMINION LIMO LLC	485320.00	Limousine Services	17	BEL-AIRE
	2021	Dec-20	7/7/20	WIGGINS TRANSPORT	2721 MYRTLE AVE	WIGGINS, LINWOOD I JR	485999.00	All Other Passenger Transportation	70	LIBERTY - ROBERTS PARK
	2021	Dec-20	7/7/20	THE TIRE STORE INC	3013 E VIRGINIA BEACH BLVD	TIRE STORE INC, THE	811111.00	General Automotive Repair	70	LIBERTY - ROBERTS PARK
	2021	Dec-20	7/7/20	THE TIRE STORE INC	3013 E VIRGINIA BEACH BLVD	TIRE STORE INC, THE	441320.00	Tire Dealers	70	LIBERTY - ROBERTS PARK
	2021	Dec-20	7/7/20	INGLESIDE BP	3025 E VIRGINIA BEACH BLVD	TIDEWATER CONVENIENCE INC	447110.00	Gas Station @ Convenience Store	70	LIBERTY - ROBERTS PARK
	2021	Dec-20	7/7/20	CAR-MATIC SYSTEMS	3111 E VIRGINIA BEACH BLVD	C-TECH INC	811111.00	General Automotive Repair	70	LIBERTY - ROBERTS PARK



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT STORM WATER BMP INSPECTIONS

DATE WRITTEN: March 8, 2005
DATE REVISED: June 28, 2017; September 18, 2018; November 25, 2019; February 10, 2020
PREPARED BY: Kyle Quick, Environmental Specialist; June Whitehurst, Environmental Programs Manager
REVIEWED BY: John M. White, Storm Water Engineer
FILE PATH: [Enter Link Here](#)
DISTRIBUTION: Operations Personnel

PURPOSE / OBJECTIVE:

To define guidelines for the inspection and enforcement for the installation and maintenance of all private and city-owned storm water structural best management practices (BMPs). BMPs reduce unwanted contaminants and/or the volume of storm water entering the City MS4 system and local waterways. BMPs are regularly inspected to ensure they are working as designed and maintained in such a manner to not cause flooding, become a nuisance, or impose a threat to health and safety.

RESPONSIBILITIES:

Division – The Department of Public Works, Division of Environmental Storm Water Management is the administrator of the MS4 VPDES Permit, VA0088650. Environmental staff ensures compliance with the VPDES permit associated with BMP inspections to the storm water system. State law requires BMPs to be inspected once every 5-years. The City's MS4 permit requires city-owned BMPs be inspected and maintained once per year.

Environmental Staff develop and maintain a list of BMPs within the geographic boundary of the City of Norfolk. This list is routinely updated following site plan review. Environmental staff conduct routine inspections of both private and public storm water BMPs.

OTHER:

BMPs are used to reduce pollution in and/or volume of storm water runoff, thereby protecting area waterways. Some examples of structural storm water BMPs include infiltration trenches, grass swales, detention basins, retention ponds, oil/grit separators, bioretention basins, manufactured BMPs, etc.

REQUIREMENTS:

1. BMPs are approved for installation after an extensive site plan review by a designated storm water engineer. All pertinent information pertaining to the BMPs are entered into the current BMP tracking database.
2. As part of the site plan approval process, a Declaration of Covenants for Storm and Surface Water Facility and System Maintenance (BMP Maintenance Agreement) should be signed and notarized by the owner or responsible party of the private property being developed to maintain the BMP after construction. That party will remain responsible for all maintenance until the property is sold; at which time the new owner is responsible for maintaining the BMP. A copy of the agreement is filed with the clerk of the court by the owner or responsible party. A copy of the agreement is also maintained in the site plan file at the Division.
3. Storm water management (SWM) facilities or BMPs are required to be installed in accordance with the approved plans, and manufacturers' specifications where applicable. The City of Norfolk Planning Department, Building Safety Bureau will inspect the installation of onsite stormwater piping and structures. The Department of Public Works, Environmental Storm Water Management



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENVIRONMENTAL STORM WATER MANAGEMENT STORM WATER BMP INSPECTIONS

staff will inspect the installation of BMPs. Additionally, they also inspect stormwater piping and structures within the City Right-of-Way and piping that ties into the City's MS4 system. During construction, environmental staff will have completed the following procedures:

- a. A pre-construction meeting will be scheduled to go over expectations. Pre-construction meetings will be documented.
 - b. Follow up inspections with the contractor will occur throughout the construction process to verify that the BMPs are installed in accordance with the approved plans. These inspections should take place before any backfilling occurs and should include pictures for documentation. If there is a tie-in to the city system, a storm water inspector will inspect the tie-in.
 - c. A construction record drawing ("As-built" submission) signed and sealed by a professional registered in Virginia will be reviewed by a storm water engineer or their designee to verify the SWM facilities have been installed per the approved plan.
 - d. A final inspection will be performed by the environmental staff to ensure that the BMP and contributing drainage areas are stabilized. The inspector will also ensure that the site is free of excessive litter or debris, sediment build up, or erosion, and no deviations from the approved construction record drawing.
 - e. Upon approval of the construction record drawing and the final inspection, the environmental staff will approve the release of the Certificate of Occupancy (if required) and approval to terminate bonds for stormwater improvements.
4. All privately-owned and city-owned BMP inspections are tracked in the current BMP tracking database. The database enables the Division to maintain inspection data and to ensure inspections are completed on a routine schedule.
 5. When an inspection is conducted, the following items are checked to ensure that the BMP will consistently perform its water quality improvement and/or runoff reduction functions.
 - a. *Sediment Buildup*: Sediment buildup can reduce the effectiveness of the BMP by blocking inlets and outlets, reducing infiltration rates, and reducing effectiveness of pretreatment practices.
 - b. *Erosion*: Erosion can lead to reduced volume of the BMP and/or structural failure. Erosion is a common problem around inlets and outlets of BMPs, and may also be caused by roots of woody vegetation and animal burrows.
 - c. *Debris and Litter Removal*: Regular removal of litter and debris is essential to ensure the BMP is working properly. The BMP must be free from debris and litter in or around the BMP structure.
 - d. *Vegetation*: Vegetation must be established and maintained to guard against erosion and sediment buildup, and to maintain designed pollutant removal rates where applicable. Excessive vegetation clippings must be removed from the BMP and disposed of properly.
 - e. *Deviation from the Construction Record Drawing*: Verify a property owner, tenant, or other responsible party has not modified a post-construction BMP without written approval from the City of Norfolk Department of Public Works storm water engineer, or their designee.



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- f. *Manufactured BMPs*: The owner or responsible party are required to maintain manufactured BMPs in accordance with the manufacturer's specifications, and to provide evidence of continued maintenance by copies of maintenance records and/or photographic proof.
 - g. *Other Maintenance Concerns*: Refer to the Virginia Department of Environmental Quality Stormwater Design Specifications for other BMP maintenance concerns.
6. The environmental staff will complete an inspection report and track inspections in the current BMP tracking database. The responsible party will either be sent an email or a letter that lists the BMP maintenance discrepancies and includes a copy of the inspection report, if necessary. The responsible party will have a specified time-period to complete the maintenance after the report has been sent. A re-inspection will occur after the allotted time-period to ensure all corrections have been made. If the inspector has had no contact from the property owner, if letters have been returned, or if the discrepancies have not been addressed a Notice of Violation (NOV) may be sent or issued. If no progress occurs after the NOV has been issued, further legal actions should be taken. The City also holds the right to conduct the corrections after proper warning, and then charge the responsible party for any financial obligations. If the BMP is working properly and does not appear to have any maintenance discrepancies, a note will be made in the file and no report will be sent to the responsible party.
7. Routine maintenance for any City-owned BMP is conducted by the Division which is submitted in a service request and put into the work management tracking system. The City-owned BMPs must also follow all the guidelines established above.
8. The Norfolk Public Schools BMPs are inspected by the environmental staff, however, the school board facilities manager is the main point of contact for any discrepancies regarding BMP maintenance at school facilities. The school board is responsible for maintaining the BMPs and if major work is required beyond the capabilities of facilities personnel, then they will hire a contractor.

Approved:

John M. White
Storm Water Engineer
Public Works, Division of Environmental Storm Water Management

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Tidewater Park Elementary	00-4306.1	CLVANLE - 2020-09-03 10:12:27 -- Drop inlets holding water due to blockage. Basin holding water due to sediment buildup. Remove trash throughout the swale. Remove trash and debris in parking lot.	09/03/2020	Yes	Detention Basin	1	12/30/2020	School
Willard Elementary School Parking Lot	03-136.1	CLVANLE - 2020-09-04 08:34:30 -- Remove trash and debris (leaf litter) along curb and inlet. Provide stabilization to bare and denuded areas.	09/03/2020	Yes	Infiltration Practices	1	10/14/2020	School
Norfolk Public Health Center	1522.1	CLVANLE - 2020-09-04 08:50:10 -- Remove trash, debris, and sediment buildup within the inlet.	09/03/2020	Yes	Infiltration Practices	0		Public
McKann Ave Street Expansion	06-0032.1	ADOAN - 2020-10-02 14:28:59 -- BMP was vectored on 9/14/2020. CLVANLE - 2020-09-09 15:02:42 -- Please cut overgrown vegetation surrounding Filterra causing heavy sediment accumulation. Remove accumulated sediment from inlet. Please cut back overgrown vegetation in Filterra. Please provide maintenance per manufacturer's specs.;	09/08/2020	No	Manufactured BMP Systems	1	11/13/2020	Public
McKann Ave Street Expansion	06-0032.2	CLVANLE - 2020-09-09 14:48:59 -- Please cut overgrown vegetation.	09/08/2020	No	Manufactured BMP Systems	1	11/13/2020	Public
MacArthur Mall Museum Expansion	11-0031.1	ADOAN - 2020-09-11 13:17:14 -- Replace tree in Filterra. Replace media in Filterra.	09/08/2020	Yes	Manufactured Treatment Device	1	11/13/2020	Public
Nautilus	91067.009.1		09/08/2020	Yes	Manufactured Treatment Device	1	11/13/2020	Public
Plume Ln. Parking Garage	1715.1	CLVANLE - 2020-09-09 13:12:29 -- C.VanLear & amp; A. Doan inspected and observed standing water. W'll place work order request for maintenance.	09/08/2020	Yes	Manufactured Treatment Device	0		Public
Downtown Pump Station (PS 149)	07-0088.1		09/09/2020	No	Manufactured Treatment Device	0		Public
MacArthur Mall Museum Expansion	11-0031.2		09/09/2020	No	Detention Basin	0		Public
Norfolk Multi-Modal Transportation Center	12-0044.1	ADOAN - 2020-09-15 12:59:58 -- Routine BMP maintenance will be conducted in October.	09/14/2020	Yes	Manufactured Treatment Device	1	11/13/2020	Public
Bus Transfer Station	13-0085.1		09/14/2020	No	Manufactured Treatment Device	1	11/13/2020	Public
Bus Transfer Station	13-0085.2	ADOAN - 2021-06-28 10:23:52 -- Filterra needs to be maintained.	09/14/2020	Yes	Manufactured Treatment Device	1	11/13/2020	Public
Bus Transfer Station	13-0085.3		09/14/2020	No	Manufactured Treatment Device	1	11/13/2020	Public
Lafayette Boulevard Streetscape Improvements	16-0025.1		09/14/2020	Yes	Manufactured Treatment Device	1	11/13/2020	Public
Harbor Park Picnic Area	16-0065.1	ADOAN - 2020-09-15 07:28:01 -- Remove trash and sediment from Filterra. Trim Vegetation and replace mulch.	09/14/2020	No	Manufactured Treatment Device	1	11/13/2020	Public
Norfolk Courts Rear Access	16-0105.1		09/14/2020	No	Infiltration 1	1	11/13/2020	Public
Cape Henry Filterra	SCHF.1	ADOAN - 2020-09-17 08:09:02 -- The Filterra is located at the Corner of Harrell and Cape Henry Avenue. The site address is listed as 2800 Cape Henry Avenue but there is no known address. The Filterra needs PM Maintenance for sediment and leaf removal.	09/14/2020	No	Manufactured Treatment Device	1	11/13/2020	Public
Slover Library	11-0027.1		09/15/2020	No	Manufactured Treatment Device	0		Public
Boush Street Garage	03-295.1		09/16/2020	No	Manufactured Treatment Device	0		Public
Grandy Village Community Center	08-0079.1		09/16/2020	Yes	Bioretention	2	11/24/2020	Public
Grandy Village Community Center	08-0079.2		09/16/2020	Yes	Bioretention	1	5/24/2021	Public
Grandy Village Community Center	08-0079.3		09/16/2020	Yes	Bioretention	1	5/20/2021	Public
Southside Aquatic Center	11-0020.1		09/16/2020	Yes	Detention Basin	1	9/19/2021	Public
City Hall North Garage Replacement	18-0056.1		09/16/2020	Yes	Detention Basin	0	11/13/2020	Public
Cedar Grove Parking Lot	166.1	ADOAN - 2020-12-14 11:54:01 -- WO requested. Remove debris, trash, and tree limbs throughout the basin and on top of overflow inlet.	09/16/2020	Yes	Permeable Pavement 1	0		Public
Pope Avenue Street Improvements	169.1	ADOAN - 2020-11-13 13:33:14 -- On 11-13-20, A. Doan re-inspected the inlet at 1740 Pope Avenue and trash and debris still present. Back on 9-16-20 a WO was never issued. On 11-13-2020, a WO was issued to KT Smith.	09/16/2020	Yes	Manufactured Treatment Device	1	12/9/2020	Public
Forest Lawn Cemetery	10-0069.1	CLVANLE - 2020-09-23 13:16:55 -- Maintain over grown vegetation.	09/23/2020	Yes	Infiltration Practices	1	2/4/2021	Public
WVEC Parking Lot Improvements	01-0055.1	ADOAN - 2020-09-25 15:21:03 -- Remove sediment and stones from cleanout. Refresh gravel throughout the infiltration basin. Remove dead vegetation.	09/25/2020	Yes	Infiltration Practices	2	3/10/2021	Private
Riverpark Condominiums	02-0075.1	ADOAN - 2020-09-29 08:03:03 -- Flush out sediment from underground filtration system.	09/29/2020	Yes	Manufactured Treatment Device	1	12/10/2020	Private
Harbor Heights	05-0073.1	ADOAN - 2020-09-29 08:19:00 -- Please maintain the Coritech Storm filter BMP in accordance with the manufacturer's specifications and provide a copy of the maintenance log.	09/29/2020	Yes	Manufactured Treatment Device	0		Private
McRae Commons Condo Units	05-0145.1	ADOAN - 2020-09-29 07:48:01 -- Remove accumulated sediment from basin. Remove overgrown vegetation. Remove dumped tree debris.  Locate and clean inlet within the BMP.	09/29/2020	Yes	Infiltration Practices	1	11/24/2020	Private
Widgeon Point	06-0110.1	ADOAN - 2020-09-30 15:06:24 -- Please maintain the Filterra Units in accordance with the manufacturer's specifications. Please provide a copy of the maintenance logs. Please clean drop inlet between the Filterras.	09/30/2020	Yes	Manufactured Treatment Device	1	3/2/2021	Private
Widgeon Point	06-0110.2	ADOAN - 2020-09-30 15:08:49 -- Please maintain the Filterra units in accordance with the manufacturer's specifications. Please provide a copy of the maintenance logs. Please clean inlet between the Filterras.	09/30/2020	Yes	Manufactured Treatment Device	1	3/2/2021	Private
Widgeon Point	06-0110.3	ADOAN - 2020-09-30 15:10:10 -- Please maintain the Filterra units in accordance with the manufacturer's specifications. Please provide a copy of the maintenance logs. Please remove debris from the concrete culvert.	09/30/2020	Yes	Manufactured Treatment Device	1	3/2/2021	Private
Widgeon Point	06-0110.4	ADOAN - 2020-09-30 15:12:07 -- Please maintain the Filterra units in accordance with the manufacturer's specifications. Please provide a copy of the maintenance logs. Please remove debris from the concrete culvert.	09/30/2020	Yes	Manufactured Treatment Device	1	3/2/2021	Private
Fresenius Medical Center Expansion	08-0050.1	ADOAN - 2020-10-01 10:24:04 -- Remove accumulated sediment, leaf litter, and trash from gutter. Note standing water during inspection due to rain event within 12 hours of inspection. See photos.	09/30/2020	Yes	Bioretention	1	1/12/2021	Private
Fresenius Medical Center Expansion	08-0050.2	ADOAN - 2020-10-01 10:30:35 -- Remove accumulated sediment, leaf litter and trash from gutter, inlet and basin. See photos.	09/30/2020	No	Bioretention	1	1/12/2021	Private
Fresenius Medical Center Expansion	08-0050.3	ADOAN - 2020-10-01 10:36:06 -- Remove asphalt pieces at inlet. Refresh uniformity of rocks in basin. Remove overgrown vegetation. Note standing water due to inspection occurring within 12 hours of a rain event. See photos.	09/30/2020	Yes	Bioretention	1	1/12/2021	Private
Promenade Pointe	10-0061.1	ADOAN - 2020-10-05 07:20:19 -- Remove leaf litter, trash, and replace mulch. Please maintain Filterras according to manufacturer's specifications, and provide maintenance logs.	09/30/2020	Yes	Manufactured Treatment Device	1	12/10/2020	Private
Promenade Pointe	10-0061.2	ADOAN - 2020-10-05 07:22:06 -- Remove leaf litter, trash, and replace mulch. Please maintain Filterras according to manufacturer's specifications, and provide maintenance logs.	09/30/2020	Yes	Manufactured Treatment Device	1	12/10/2020	Private
Givens Enterprise	GIVENS.1	ADOAN - 2020-10-01 07:39:34 -- Maintain the rock check dam per plans at the inlet. Remove accumulated sediment from inlet in the parking lot. Routine grass mowing maintenance needs to be done.	09/30/2020	Yes	Grass Channel	1	12/10/2020	Private
O'Reilly Auto Parts	1278.1	ADOAN - 2020-10-01 08:06:03 -- Clear and remove accumulated sediment and vegetation from inside the 3 slotted inlet grates. Clean the accumulated sediment from the infiltration trench and connecting structures.	09/30/2020	Yes	Infiltration Practices	2	1/27/2021	Private
Norfolk Collegiate Lower School	1478.1	ADOAN - 2020-10-01 09:55:00 -- Extended detention basin in good condition. Banks well vegetated, rip-rap forbsay stable, minimal debris in basin.	09/30/2020	No	Extended Detention Basin	0		Private
H.B. Hunter Parking Lot	1614.1	ADOAN - 2020-10-01 11:20:48 -- Remove trash, vegetation and debris at parking lot inlet. Flush clean out.	09/30/2020	Yes	Infiltration Practices	1	12/10/2020	Private
H.B. Hunter Parking Lot	1614.2	ADOAN - 2020-10-01 11:22:53 -- Remove sediment, trash, and debris from gutter.	09/30/2020	Yes	Infiltration Practices	1	12/10/2020	Private
H.B. Hunter Parking Lot	1614.3	ADOAN - 2020-10-01 11:24:43 -- Remove sediment and trash along gutter.	09/30/2020	Yes	Infiltration Practices	1	12/10/2020	Private
Rotunda Condominiums	05-0156.1	ADOAN - 2020-10-02 15:13:09 -- Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide a copy of the maintenance records.	10/01/2020	Yes	Manufactured Treatment Device	1	11/9/2020	Private
Rotunda Condominiums	05-0156.2	ADOAN - 2020-10-02 10:50:23 -- Please maintain the Filterra units in accordance with the manufacturer's specifications, and provide a copy of the maintenance records.	10/01/2020	Yes	Manufactured Treatment Device	1	11/9/2020	Private
Rotunda Condominiums	05-0156.3		10/01/2020	No	Manufactured Treatment Device	0		Private
Chrysler Museum Expansion and Renovation	11-0057.1	ADOAN - 2020-10-02 12:22:47 -- Maintain Filterra unit according to the manufacturer's specifications and provide maintenance logs. ; ADOAN - 2020-12-29 11:01:54 -- Followed with an email regarding status of Filterra maintenance.	10/01/2020	Yes	Manufactured Treatment Device	1	1/11/2021	Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Chrysler Museum Expansion and Renovation	11-0057.2	ADOAN - 2020-10-02 12:26:27 -- Maintain Filterra units according to manufacturer's specifications and provide maintenance logs.; ADOAN - 2020-12-29 11:02:45 -- Followed with an email regarding status of Filterra maintenance.	10/01/2020	Yes	Manufactured Treatment Device	1	1/11/2021	Private
Chrysler Museum - Gallery Project	1222.1	ADOAN - 2020-10-02 12:28:51 -- Site was in excellent condition. Reference Site #11-0057 .;	10/01/2020	No	Infiltration Practices	0		Private
E.V.M.S. Parking Addition	07-0060.1		10/05/2020	No	Grass Channel	0		Private
Front Street Apartments	14-0064.1	ADOAN - 2020-10-08 10:30:02 -- Remove trash and debris from Filterra. Maintain Filterra BMP according to the manufacturer's specifications. Replace dead vegetation. Provide maintenance logs.;	10/05/2020	Yes	Manufactured Treatment Device	1	12/10/2020	Private
Starbucks - The Corner Shops	16-0063.1	ADOAN - 2020-10-08 09:32:45 -- Remove leaf debris and dead vegetation from bio retention. Maintain according to specifications. Remove accumulated sediment from concrete swale.;	10/05/2020	Yes	Bioretention- Micro 1	1	6/24/2021	Private
Starbucks - The Corner Shops	16-0063.1	ADOAN - 2020-10-08 09:32:45 -- Remove leaf debris and dead vegetation from bio retention. Maintain according to specifications. Remove accumulated sediment from concrete swale.;	10/05/2020	No	Permeable Pavement 1	0		Private
YMCA Gym Addition	16-0117.1		10/05/2020	No	Manufactured Treatment Device	0		Private
YMCA Gym Addition	16-0117.2		10/05/2020	No	Manufactured Treatment Device	0		Private
Fremason St. Baptist Church	07-0007.1	ADOAN - 2020-10-07 08:59:10 -- Remove accumulated sediment and vegetation throughout the permeable pavers. Maintain according to manufacturer's specifications.;	10/06/2020	Yes	Permeable Pavement	1	12/15/2020	Private
The Rotunda Lofts parking lot addition	07-0021.1	ADOAN - 2020-10-07 07:23:43 -- Remove accumulated sediment and vegetation throughout the pavers. Repair areas that are sinking.;	10/06/2020	Yes	Permeable Pavement	1	1/21/2021	Private
The Va Arts Festival	08-0040.1	ADOAN - 2020-10-09 12:25:08 -- Remove standing water and debris. Maintain underground stormwater system according to manufacture's specifications. Please provide maintenance documentation. ; ADOAN - 2020-11-06 14:29:45 - Maintenance was performed on 11/5/2020. Maintenance records and photo documentation were received and placed in file. ;	10/06/2020	Yes	Manufactured Treatment Device	1	11/6/2020	Private
The Va Arts Festival	08-0040.2	ADOAN - 2020-10-09 12:24:04 -- Maintain Filterra according to manufacturer's specifications. Please provide maintenance documentation.; ADOAN - 2020-11-06 14:30:22 -- Maintenance was performed on 11/5/2020. Maintenance records and photo documentation were received and placed in file. ;	10/06/2020	Yes	Manufactured Treatment Device	1	11/6/2020	Private
Young Terrace - Site Accessibility	11-0046.1	ADOAN - 2020-11-12 14:21:58 -- Concrete pavers are in good condition.;	10/06/2020	No	Permeable Pavement	0		Private
71 Unit Multifamily	12-0083.1	ADOAN - 2020-10-07 08:51:51 -- Remove debris and sediment and standing water from units. Maintain units according to manufacturer's specification. Provide maintenance logs.;	10/06/2020	Yes	Manufactured Treatment Device	1	12/18/2020	Private
Chick-Fil-A (Store #03189)	13-0020.2	ADOAN - 2020-10-07 09:21:28 -- Units need to be cleaned. Maintenance required. ; ADOAN - 2020-10-07 09:34:53 -- Drop inlet next to Contech unit contains a lot of trash and debris. This inlet needs to be cleaned. ;	10/06/2020	Yes	Manufactured Treatment Device	1	12/18/2020	Private
Chick-Fil-A (Store #03189)	13-0020.3	ADOAN - 2020-10-07 09:38:54 -- Units need to be cleaned. Maintenance required. Provide maintenance records. ;	10/06/2020	No	Manufactured Treatment Device	1	12/18/2020	Private
Chick-Fil-A (Store #03189)	13-0020.4	ADOAN - 2020-10-07 08:41:51 -- Filterra needs required maintenance according to manufacturer's specifications. Remove debris, trash, and sediment. Replace mulch.;	10/06/2020	No	Manufactured BMP Systems	1	12/18/2020	Private
Norfolk Hotel and Conference Center	14-0047.1	ADOAN - 2020-10-07 08:46:05 -- Units are in good condition. ;	10/06/2020	No	Manufactured Treatment Device	0		Private
450 Boush St. Mixed Use Development	15-0002.1	ADOAN - 2020-10-07 08:41:52 -- Unit was in good condition. ;	10/06/2020	No	Manufactured Treatment Device	0		Private
1081 Military Hwy Retail Shops	15-0031.1	ADOAN - 2020-10-09 08:17:54 -- Remove trash and debris from Filterra. Maintain Filterra according to manufacturer's specifications. Provide maintenance logs.;	10/06/2020	Yes	Manufactured Treatment Device	1	12/21/2020	Private
Arts Apartments	16-0052.1	ADOAN - 2020-10-07 09:03:16 -- BMP in good condition. ;	10/06/2020	No	Detention Basin	0		Private
CHURCH PARKING LOT	12-0015.1	ADOAN - 2020-10-08 08:06:39 -- Detention basin needs to be cleaned out. Remove accumulated sediment, debris, leaf litter, and trash from basin. Basin should not be holding water. Remove debris from outfall. ;	10/07/2020	Yes	Extended Detention Basin	1	12/15/2020	Private
WAWA	12-0025.1	ADOAN - 2020-10-07 15:13:45 -- Remove blown trash throughout the basin. ;	10/07/2020	Yes	Detention Basin	1	12/22/2020	Private
WAWA	12-0025.2	ADOAN - 2020-10-07 15:18:57 -- R-tank system. Please maintain system according to manufacturer's specifications. Noted at time of inspection: vegetation and top soil was pushed back off the system. Provide maintenance logs.;	10/07/2020	Yes	Manufactured Treatment Device	1	12/22/2020	Private
WAWA	12-0025.3	ADOAN - 2020-10-07 15:23:27 -- R-Tank system. Maintain system according to manufacturer's specifications. ;	10/07/2020	Yes	Manufactured Treatment Device	1	12/22/2020	Private
WAWA	12-0025.4	ADOAN - 2020-10-07 15:15:44 -- Remove accumulated sediment and trash from Filterra. Maintain Filterra according to the manufacturer's specifications. Provide maintenance logs.;	10/07/2020	Yes	Manufactured Treatment Device	2	12/22/2020	Private
Chick-Fil-A (Store #03189)	13-0020.1	ADOAN - 2020-10-07 09:35:52 -- Units needs to be cleaned and maintained. Provide maintenance records. ;	10/07/2020	Yes	Manufactured Treatment Device	1	12/18/2020	Private
Priority Ford	18-0013.1	ADOAN - 2020-10-08 07:31:47 -- Remove standing water in stormwater chambers. Remove trash and debris along stormwater outfall. Replace dead vegetation. ;	10/07/2020	Yes	Manufactured Treatment Device	1	12/21/2020	Private
Villa Marina Apartments	18-0085.1	ADOAN - 2021-06-03 14:25:53 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.10	ADOAN - 2021-06-03 14:24:49 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.11	ADOAN - 2021-06-03 14:24:57 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.12	ADOAN - 2021-06-03 14:24:27 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.13	ADOAN - 2021-06-03 14:24:16 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.14	ADOAN - 2021-06-03 14:23:40 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.15	ADOAN - 2021-06-03 14:24:01 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.16	ADOAN - 2021-06-03 14:25:32 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.17	ADOAN - 2021-06-03 14:24:59 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.2	ADOAN - 2021-06-03 14:25:44 -- BMP well maintained. ;	10/07/2020	No	Permeable Pavement 1	0		Private
Villa Marina Apartments	18-0085.3	ADOAN - 2021-06-03 14:26:29 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Villa Marina Apartments	18-0085.5	ADOAN - 2021-06-03 14:26:41 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Villa Marina Apartments	18-0085.6	ADOAN - 2021-06-03 14:25:19 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Villa Marina Apartments	18-0085.7	ADOAN - 2021-06-03 14:26:18 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Villa Marina Apartments	18-0085.8	ADOAN - 2021-06-03 14:26:04 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Villa Marina Apartments	18-0085.9	ADOAN - 2021-06-03 14:25:09 -- BMP well maintained. ;	10/07/2020	No	Manufactured Treatment Device	0		Private
Blair Middle School	03-0090.1	ADOAN - 2020-10-13 07:59:30 -- Remove debris and accumulated sediment throughout the infiltration trench. Vector the inlets. ; ADOAN - 2020-12-15 15:27:08 -- Re-inspection 10-21-20. Trench drains still need to be cleaned. ;	10/12/2020	Yes	Infiltration Practices	0		School
Blair Middle School	03-0090.2	ADOAN - 2020-10-13 07:53:17 -- Overgrown vegetation needs to be cut back throughout the detention basin. Note: There was a cardboard tent (potential homeless) behind the overgrown trees in basin. Remove trash and debris throughout the basin. ;	10/12/2020	Yes	Detention Basin	1	10/21/2020	School
Ghent Elementary School Bus Loop	05-0086.1	ADOAN - 2020-10-13 08:06:32 -- Two drop inlets nearest Shirley Avenue need to be cleaned from sediment and debris. Also, one of the grates has a crack down the middle and needs to be replaced. ;	10/12/2020	Yes	Infiltration Practices	0		School
Palmetto St Drainage Improvement	11-0071.1	ADOAN - 2020-10-12 15:19:50 -- Site is located at the corner of Tait Terrace and Rush Street. Cut grass surrounding basin. Remove overgrown vegetation at the inlet/outfall. Remove trash. ;	10/12/2020	Yes	Detention Basin	1	12/21/2020	Public
Norview Landings	00-4343.1	ADOAN - 2020-10-14 10:54:43 -- Remove accumulated sediment from around the outfall. Refresh the VDOT stones around the inlet/outfall and spillway. Remove loose stones from inside the practice. ;	10/13/2020	Yes	Detention Basin	2	2/16/2021	Private
3608 Sewells Point Rd. Duplex	06-0128.1		10/13/2020	No	Infiltration Practices	0		Private
3608 Sewells Point Rd. Duplex	06-0128.2		10/13/2020	No	Infiltration Practices	0		Private
Checker Taxi Parking Lot	00-4278.1	ADOAN - 2020-12-09 09:13:18 -- BMP needs to have tree debris and leaves removed from BMP. ;	10/14/2020	Yes	Infiltration Practices	1	11/25/2020	Private
Laundromat, Shops, Offices	05-0009.1	ADOAN - 2020-10-14 10:49:00 -- Repair rain gutter disconnects that lead to infiltration practice. Remove trash from practice. ; ADOAN - 2020-11-30 07:27:07 -- Repairs were made. ;	10/14/2020	Yes	Infiltration Practices	1	11/25/2020	Private
Duplex 9610-9614	03-0105.1		10/15/2020	No	Grass Channel	0		Private
Duplex	03-0290.1		10/15/2020	No	Infiltration Practices	0		Private
Duplex	03-289.1		10/15/2020	No	Infiltration Practices	0		Private
Duplex	04-0008.1		10/15/2020	No	Infiltration Practices	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Duplex	04-0008.2		10/15/2020	No	Infiltration Practices	0		Private
Duplex	04-0012.1		10/15/2020	No	Infiltration Practices	0		Private
Duplex	04-0012.2		10/15/2020	No	Infiltration Practices	0		Private
Condo Lots A, B & C	04-0094.1	ADOAN - 2020-10-19 14:18:19 -- Remove accumulated sediment and leaf debris from infiltration grate and gutter pan.	10/15/2020	Yes	Infiltration Practices	2	1/21/2021	Private
Duplex	06-0009.1		10/15/2020	No	Bioretention	0		Private
Duplex	06-0009.2		10/15/2020	No	Bioretention	0		Private
17th Bay Street Duplexes	14-0092.1	ADOAN - 2020-10-20 09:04:08 -- 9601A 17th Bay Street: BMP is good.	10/15/2020	No	Dry Swale 2	0		Private
17th Bay Street Duplexes	14-0092.2	ADOAN - 2020-10-20 09:06:30 -- 9601B 17th Bay Street: BMP fair shape, needs maintenance.	10/15/2020	No	Dry Swale 2	0		Private
17th Bay Street Duplexes	14-0092.3	ADOAN - 2020-10-20 09:08:36 -- 9607A 17th Bay Street: BMP in fair condition, needs maintenance.	10/15/2020	No	Dry Swale 2	0		Private
17th Bay Street Duplexes	14-0092.4	ADOAN - 2020-10-20 09:10:37 -- 9607B 17th Bay Street: BMP in fair condition, needs maintenance.	10/15/2020	No	Rooftop or Impervious Surface Disconnect	0		Private
20th Bay Street Subdivision	16-0004.1		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.2		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.3		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.4		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.5		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.6		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.7		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.8		10/15/2020	No	Grass Channel	0		Private
20th Bay Street Subdivision	16-0004.9		10/15/2020	No	Rooftop or Impervious Surface Disconnect	0		Private
Central Business Park Pond Retrofit	16-0047.1	ADOAN - 2020-11-12 13:36:00 -- BMP was retrofitted September 2019. Reference file 99-3931, and S53. Remove trash at outfalls. Cut back vegetation.	10/15/2020	Yes	Wet Pond 1	1	12/11/2020	Public
Nonview High School	02-0010.1	ADOAN - 2020-10-20 11:19:51 -- Inlet along gutter pan of Middleton Place is clogged, remove debris and sediment. Vegetation around the pond needs to be cut back and maintained. Trash throughout the site and in the pond (light pole and grocery cart) need to be removed. Algae matting needs to be addressed. ADOAN - 2020-12-15 15:11:09 -- Re-inspection 11/6/20. Debris and trash removed from pond. BMP maintained.	10/16/2020	Yes	Wet Pond	1	11/6/2020	School
Nonview Community Center	06-0116.1		10/16/2020	No	Bioretention Basins	0		Public
Nonview Community Center	06-0116.2	ADOAN - 2020-10-20 10:42:20 -- Remove leaf debris and sediment from gutter pan. Remove accumulated leaves from the inlets. Remove trash throughout the BMP.	10/16/2020	Yes	Infiltration Practices	1	11/25/2020	Public
Nonview Middle School	92067.082.1	ADOAN - 2020-10-20 09:40:08 -- Outfall needs maintenance: remove accumulated sediment and replace stones. Remove trash from throughout the BMP. ADOAN - 2020-12-15 15:06:30 -- Re-inspection done on 10/30/20. Trash was removed and rocks were placed at outfall.	10/16/2020	Yes	Extended Detention Basin	1	10/30/2020	School
Nonview Middle School	92067.082.2	ADOAN - 2020-10-20 09:38:13 -- Outfalls need maintenance: remove accumulated sediment and replace stones. Tree limbs and debris need to be removed from the trash rack. Remove trash from throughout the BMP.	10/16/2020	Yes	Extended Detention Basin	1	12/30/2020	School
General Aviation Terminal Renovation	10-0076.1	ADOAN - 2020-10-22 08:15:07 -- Detention basin was good, free of trash and overgrown vegetation.	10/19/2020	No	Detention Basin	0		Private
General Aviation Terminal Renovation	10-0076.2	ADOAN - 2020-10-22 08:16:34 -- Filterra good. No trash or debris. Trees in good shape.	10/19/2020	No	Manufactured Treatment Device	0		Private
General Aviation Terminal Renovation	10-0076.3	ADOAN - 2020-10-22 08:15:55 -- Filterra good. No trash or debris. Trees in good shape.	10/19/2020	No	Manufactured Treatment Device	0		Private
General Aviation Terminal Renovation	10-0076.4	ADOAN - 2020-10-22 08:17:22 -- Filterra good. no trash or debris. trees in good shape.	10/19/2020	No	Manufactured Treatment Device	0		Private
General Aviation Terminal Renovation	10-0076.5	ADOAN - 2020-10-22 08:17:53 -- Filterra in good shape. no trash --or debris. Trees in good shape.	10/19/2020	No	Manufactured Treatment Device	0		Private
General Aviation Terminal Renovation	10-0076.6	ADOAN - 2020-10-22 08:14:22 -- Retention basin was clean and free of standing water.	10/19/2020	No	Manufactured Treatment Device	0		Private
14th Bay Street Residential	16-0037.1	ADOAN - 2020-12-29 08:50:23 -- Remove overgrown vegetation and connect rain gutter to bio retention basin.	10/19/2020	Yes	Bioretention- Urban	1	12/28/2020	Private
Bnai Israel Congregation	00-4301.1		10/21/2020	No	Infiltration Practices	0		Private
Bnai Israel Congregation	00-4301.2		10/21/2020	No	Infiltration Practices	0		Private
22nd St. Parking Lot	00-4301.3		10/21/2020	No	Manufactured Treatment Device	0		Private
Sherwood Forest Elementary	01-0198.1	ADOAN - 2020-10-22 07:57:48 -- Remove sediment and debris along two parking lot/cutout that leads to BMP.	10/21/2020	Yes	Infiltration Practices	1	12/21/2020	School
Sherwood Forest Elementary School	05-0087.1	ADOAN - 2020-10-22 07:50:10 -- Detention Basin looks good. Recently mowed. No trash.	10/21/2020	No	Detention Basin	0		School
Coleman Place Elementary School	06-0059.1	ADOAN - 2020-10-22 07:42:28 -- Retention pond looks good. No overgrown vegetation.  No trash.	10/21/2020	No	Wet Pond	0		School
Condos/Coffee Shop	07-0077.1		10/21/2020	No	Manufactured Treatment Device	0		Private
The Market at Ghent	07-0084.1		10/21/2020	No	Infiltration Practices	0		Private
Shirley Avenue Parking Lot	13-0049.1	ADOAN - 2020-10-22 07:17:56 -- BMP looks good.	10/21/2020	No	Manufactured Treatment Device	0		Private
Shirley Avenue Parking Lot	13-0049.2	ADOAN - 2020-10-22 07:14:37 -- BMP looks good.	10/21/2020	No	Manufactured Treatment Device	0		Private
Shirley Avenue Parking Lot	13-0049.3	ADOAN - 2020-10-22 07:19:17 -- Requested maintenance logs for U/S retention basin.	10/21/2020	No	Manufactured Treatment Device	0		Private
AAAA Self Storage Facility	05-0149.1	ADOAN - 2020-10-22 14:39:20 -- The infiltration practice is holding water. The system needs to be pumped/cleaned out.	10/22/2020	Yes	Infiltration Practices	1	11/19/2020	Private
Palace Station, LLC	06-0019.1	ADOAN - 2020-10-22 14:26:55 -- Remove trash and sediment debris from the infiltration practice.	10/22/2020	Yes	Manufactured Treatment Device	1	12/28/2020	Private
Harris Teeter Store 378	08-0072.1	ADOAN - 2020-10-22 14:33:52 -- Filterra needs maintenance. The tree has overgrown the Filterra and has displaced the steel grate. ADOAN - 2020-12-29 11:03:33 -- Followed up with Store manager on 12-29-20 (Arthur Cutlers). He never got notice from Corporate. He will take care of this. Gave him until 1-28-21.	10/22/2020	Yes	Manufactured Treatment Device	1	1/25/2021	Private
2nd Patrol Division	09-0030.1	ADOAN - 2020-10-22 15:01:04 -- Area around outfall needs attention. Remove overgrown vegetation. Fill in large rills created by erosion. See photos. ADOAN - 2020-10-22 15:03:02 -- Disregard earlier comment. Entered in error referencing another site.  Pavers need to be maintained. Remove grass and sediment accumulation throughout the pavers. Remove construction debris and tree that is growing within the pavers. Replace pavers once debris is removed. ADOAN - 2020-12-29 10:03:18 -- Spoke with Chris Jones. They have a WO into Whites Plumbing to repair pavers. Work should begin after the 1st of the year.	10/22/2020	Yes	Permeable Pavement	1	6/16/2021	Public
14th Bay Street Residential	16-0037.2	ADOAN - 2020-12-29 08:49:17 -- Remove overgrown vegetation and connect rain gutter to bio retention basin.	10/22/2020	Yes	Bioretention- Urban	1	12/28/2020	Private
14th Bay Street Residential	16-0037.3	ADOAN - 2020-12-29 08:50:01 -- Remove overgrown vegetation and connect rain gutter to bio retention basin.	10/22/2020	Yes	Bioretention- Urban	1	12/28/2020	Private
14th Bay Street Residential	16-0037.3	ADOAN - 2020-12-29 08:50:12 -- Remove overgrown vegetation and connect rain gutter to bio retention basin.	10/22/2020	Yes	Bioretention- Urban	1	12/28/2020	Private
Norfolk Commerce Pond #2	S10.1	ADOAN - 2020-10-28 09:12:10 -- BMP needs maintenance. Trees needs to be cut back.	10/22/2020	Yes	Wet Pond	1	1/8/2021	Public
Norfolk Commerce Pond #3	S11.1	ADOAN - 2020-10-22 15:06:30 -- Remove overgrown vegetation at outfall. Fill in rills created by erosion. See photos.	10/22/2020	Yes	Detention Basin	1	12/22/2020	Public
Norfolk Commerce Pond #1	S8.1	ADOAN - 2020-10-28 09:01:47 -- Retention basin well maintained.	10/22/2020	No	Wet Pond	0		Public
Harbor Walk	02-0275.1	ADOAN - 2020-10-29 07:39:17 -- Swale is maintained with mowing. The inlets grates are full of leaves and sediment. One grate has tree limb debris piled on top. Remove sediment, leaves and tree debris. ADOAN - 2021-01-19 10:08:04 -- A re-inspection was conducted on 1-6-21 with no corrections made. Also, please provide maintenance records for the CDS unit at the docks.	10/28/2020	Yes	Infiltration Practices	2	3/2/2021	Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Duplex	03-0006.1	ADOAN - 2020-10-29 08:11:22 -- BMP in excellent condition.	10/29/2020	No	Infiltration Practices	0		Private
Duplex Complex William Henry Taylors Tract	03-0026.1	ADOAN - 2020-10-30 12:25:35 -- Remove accumulated sediment and vegetation from concrete plume inlets that direct water to the swales located behind the properties. There are three inlets: 1 between 8123 and 8125, one between 8129 and 8131, and one between 8131 and 8133. The swales were not accessible.	10/28/2020	Yes	Infiltration Practices	1	12/15/2020	Private
Loft 21 & 22	03-0102.1	ADOAN - 2020-10-29 07:43:59 -- Pavers in good condition. No trash or debris on site.	10/28/2020	No	Permeable Pavement	0		Private
Duplex	03-0211.1	ADOAN - 2020-10-30 10:37:21 -- Remove accumulated sediment from infiltration trench.	10/28/2020	Yes	Infiltration Practices	1	12/15/2020	Private
Duplex	03-0310.1	ADOAN - 2020-10-29 08:14:02 -- Pavers in good condition.	10/28/2020	No	Permeable Pavement	0		Private
Shamrock Gardens	06-0051.1	ADOAN - 2020-10-29 07:15:46 -- BMP in good condition. Grass swale mowed and maintained.	10/28/2020	No	Infiltration Practices	0		Private
Shamrock Gardens	06-0052.1	ADOAN - 2020-10-29 07:16:22 -- BMP in good condition. Grass swale mowed and maintained.	10/28/2020	No	Infiltration Practices	0		Private
East Beach Marina	12-0036.1	ADOAN - 2020-10-29 08:25:36 -- Pavers and drains are in good condition.	10/28/2020	No	Infiltration Practices	0		Private
Bay Oaks Place Extension	01-0026.1	ADOAN - 2020-10-29 15:17:39 -- Pavers appeared to be in good condition. No sediment or trash in the drop inlets.	10/29/2020	No	Manufactured Treatment Device	0		Public
Condo (24 units)	05-0132.1	ADOAN - 2020-10-29 15:08:01 -- BMP appears to be in good condition. Filters were clean with no sediment or debris.	10/29/2020	No	Manufactured Treatment Device	0		Private
Norfolk Apostolic Church Parking Lot	06-0085.1	ADOAN - 2020-10-30 07:09:59 -- BMP in good condition. No trash or debris on site.	10/29/2020	No	Bioretention	0		Private
Townhomes	06-0129.1	ADOAN - 2020-10-30 08:04:17 -- BMP mowed. No trash or debris. Covered in pine needles during inspection.	10/29/2020	No	Detention Basin	0		Private
Townhomes	06-0129.2	ADOAN - 2020-10-30 08:07:27 -- BMP maintained. Area around drop inlet had been cleared and reseeded recently.	10/29/2020	No	Detention Basin	0		Private
O'Reilly Auto Parts	11-0015.1	ADOAN - 2020-10-29 15:14:27 -- BMP in good shape. All downspouts were connected. Maintained.	10/29/2020	No	Extended Detention Basin	0		Private
Parktown Clubhouse	14-0008.1	ADOAN - 2020-10-29 15:23:18 -- Filterra appears to be in good condition. No sediment or trash visible. ADOAN - 2020-12-29 14:30:26 -- Filterra maintenance records received 12/23/20.	10/29/2020	No	Manufactured Treatment Device	0		Private
Matrix Technical Solutions, Inc.	00-4283.1	ADOAN - 2020-11-09 09:37:09 -- Remove tree debris from grate inlet. Clean curb and gutter at inlet.	11/02/2020	Yes	Infiltration Practices	1	1/5/2021	Private
Mt. Gilead Baptist Church	00-4298.1	ADOAN - 2020-11-05 15:27:26 -- BMP in good condition. No trash or debris.	11/02/2020	No	Infiltration Practices	0		Private
Mt. Gilead Baptist Church	00-4298.2	ADOAN - 2020-11-05 15:27:59 -- BMP in good condition. No trash or debris.	11/02/2020	No	Infiltration Practices	0		Private
Mt. Gilead Church Addition	00-4540.1	ADOAN - 2020-11-06 07:03:48 -- BMP in good condition.	11/02/2020	No	Infiltration Practices	0		Private
Woodard Office Building	01-0192.1	ADOAN - 2020-11-05 09:37:21 -- Remove leaf debris from grates, cut back vegetation, remove tree debris and grass clippings at inlet. ADOAN - 2021-01-07 10:37:20 -- Re-inspection on January 4, 2021. Maintenance was not completed. Gathered additional information as to whom to send the report. Gave until 2/5/21 to repair.	11/02/2020	Yes	Manufactured Treatment Device	1	2/4/2021	Private
Woodard Office Building	01-0192.2	ADOAN - 2020-11-05 08:34:13 -- Remove leaf debris from grates, cut back vegetation, remove tree debris and grass clippings at inlet. ADOAN - 2021-01-07 10:33:39 -- Re-inspection on January 4, 2021. Maintenance was not completed. Gathered additional information as to whom to send the report. Gave until 2/5/21 to repair.	11/02/2020	Yes	Manufactured Treatment Device	1	2/4/2021	Private
Seaward Marine Services	02-0101.1	ADOAN - 2020-11-05 14:07:58 -- BMP needs maintenance. Remove accumulated sediment from all curb inlets and gutters throughout the BMP. Repair cave-in at one of the curb inlets. Remove vehicle equipment from embankment. ADOAN - 2020-11-05 14:28:21 -- Remove accumulated sediment at outfall. Refresh stones at outfall.	11/02/2020	Yes	Detention Basin	1	1/5/2021	Private
Piccadilly Mews	02-0193.1	ADOAN - 2020-11-12 11:46:14 -- Dry pond needs to be maintained. Remove accumulated sediment from the inlet, outfall, and bottom. Remove vegetative growth throughout the rocks at the outfalls. The dry pond should not be holding water.	11/02/2020	Yes	Detention Basin	1	5/6/2021	Private
Piccadilly Mews	02-0193.2	ADOAN - 2020-11-12 11:49:19 -- Access was not gained to all the residences to visually inspect the swale. It is the responsibility of the residents to maintain the swales. Please provide photo documentation of the swale.	11/02/2020	Yes	Grass Channel	1	11/20/2020	Private
Endtime United Church of Jesus Christ Apostolic	03-0312.2	ADOAN - 2020-11-06 08:07:57 -- BMP in good shape. Outfall contains a lot of trash. Remove trash.	11/02/2020	Yes	Infiltration Practices	1	1/11/2021	Private
Endtime United Church of Jesus Christ Apostolic	03-0312.1	ADOAN - 2020-11-06 08:11:03 -- BMP in good condition.	11/02/2020	No	Infiltration Practices	0		Private
Public Storage	04-0030.1	ADOAN - 2020-11-06 07:15:35 -- Remove accumulated sediment at inlets, outfalls, and along concrete swale. Refresh stones around outfalls. ADOAN - 2020-11-06 07:18:56 -- Remove piles of concrete debris along bank of basin.	11/02/2020	Yes	Extended Detention Basin	2	2/5/2021	Private
Norfolk Commerce Park	04-0066.1	ADOAN - 2020-11-05 13:39:32 -- Remove standing water from infiltration practice. Provide maintenance records. ADOAN - 2021-01-07 10:38:43 -- Re-inspection on January 4, 2021. Maintenance was not completed. Gathered additional information as to whom to send the report. Gave until 2/5/21 to repair.	11/02/2020	Yes	Manufactured Treatment Device	1	2/4/2021	Private
Office Warehouse	05-0195.1	ADOAN - 2020-11-05 08:49:17 -- Maintain BMP. Remove trash, gutter debris, pallets that are piled on inlet and embankment, and tree debris on inlet. ADOAN - 2020-11-05 08:52:08 -- Cut back overgrown vegetation.	11/02/2020	Yes	Extended Detention Basin	1	1/5/2021	Private
Rockefeller Apartments	16-0019.1	ADOAN - 2021-01-28 10:20:48 -- Letter report sent to request maintenance records.	11/02/2020	Yes	Manufactured Treatment Device	0		Private
Public Storage	04-0030.2	ADOAN - 2020-11-06 07:26:24 -- Remove accumulated sediment at inlets, outfalls, and along concrete swale. Repair downspout connections to the BMP.	11/04/2020	Yes	Extended Detention Basin	2	2/5/2021	Private
New Life Christian Center	07-0065.1	ADOAN - 2020-11-06 09:46:12 -- Remove accumulated sediment at the curb inlets and along gutter curb. Cut back overgrown vegetation along the swale.	11/04/2020	Yes	Bioretention	1	1/27/2021	Private
Brittany Apartments (6 units)	07-0125.1	ADOAN - 2020-11-06 10:05:21 -- BMP appears to be maintained. Grass is mowed.	11/04/2020	No	Infiltration Practices	0		Private
Meadowood Apartments	10-0059.1	ADOAN - 2020-11-09 10:01:26 -- Retention basin in good condition.	11/04/2020	No	Wet Pond	0		Private
Meadowood Apartments	10-0059.2	ADOAN - 2020-11-09 10:02:00 -- System in good condition. No trash or debris.	11/04/2020	No	Manufactured Treatment Device	0		Private
Park Crescent Apartments	11-0012.1	ADOAN - 2020-11-06 10:35:27 -- CONTECH unit needs to be maintained according to manufacturer's specifications. Remove trash and standing water from unit. Please provide maintenance logs.	11/04/2020	Yes	Manufactured Treatment Device	1	2/5/2021	Private
Park Crescent Apartments	11-0012.2	ADOAN - 2020-11-06 10:46:09 -- Maintain UG detention system. Pump out standing water and debris.	11/04/2020	Yes	Manufactured Treatment Device	1	2/5/2021	Private
Park Crescent Apartments	11-0012.3	ADOAN - 2020-11-06 10:50:20 -- Maintain UG detention system. Pump out standing water and debris.	11/04/2020	Yes	Manufactured Treatment Device	1	2/5/2021	Private
Park Crescent Apartments	11-0012.4	ADOAN - 2020-11-06 11:06:40 -- Maintain the CDS unit. Pump out trash and debris.	11/04/2020	Yes	Manufactured Treatment Device	1	2/5/2021	Private
Park Crescent Apartments	11-0012.5	ADOAN - 2020-11-06 11:10:46 -- Maintain CDS unit. Remove trash and debris.	11/04/2020	Yes	Manufactured Treatment Device	1	2/5/2021	Private
Sewells Point Mini Storage	11-0016.1	ADOAN - 2020-11-06 09:21:26 -- Filterra needs to be maintained. Replace dead tree that has been cut to stump and clean out debris in Filterra. Maintain Filterra according to manufacturer's specifications. ADOAN - 2021-01-06 08:51:34 -- On 1-5-21, I spoke with operations manager and a WO has been placed for repair. Follow-up after 2/5/21. AD.	11/04/2020	Yes	Manufactured Treatment Device	1	3/15/2021	Private
Element on Ghent	13-0000.1	ADOAN - 2020-11-06 08:56:22 -- BMP in good condition. Requested maintenance records.	11/04/2020	No	Manufactured Treatment Device	0		Private
Rally's	03-0047.1	ADOAN - 2020-11-16 15:04:29 -- Remove accumulated sediment at the curb inlets. Remove debris from outfall. BMP holding water.	11/16/2020	Yes	Infiltration Practices	1	12/15/2020	Private
Warehouse/ Office Building	04-0152.1	ADOAN - 2020-11-16 15:13:05 -- BMP mowed and maintained.	11/16/2020	No	Infiltration Practices	0		Private
Duplex	06-0045.1	ADOAN - 2020-11-17 15:09:38 -- BMP in good condition. Just maintained in 10/2020.	11/16/2020	No	Manufactured Treatment Device	0	4/16/2021	Public
Duplex	06-0045.2	ADOAN - 2020-11-17 15:11:08 -- Bio filtration basin in good condition.	11/16/2020	No	Bioretention	0		Public
Duplex	06-0045.3	ADOAN - 2020-11-17 15:10:21 -- BMP just maintained in October 2020. Dead tree removed. Waiting until spring to replace tree.	11/16/2020	Yes	Manufactured Treatment Device	0		Public
Dev Street and Texas Avenue Roadway Extension	07-0017.1	ADOAN - 2020-11-16 15:18:19 -- BMP in good condition. No trash or debris.	11/16/2020	No	Infiltration Practices	0		Public
Street Improvements for Aslan Homes	12-0065.1	ADOAN - 2020-11-16 15:26:57 -- BMP in good condition.	11/16/2020	No	Bioretention	0		Private
Street Improvements for Aslan Homes	12-0065.2	ADOAN - 2020-11-16 15:24:40 -- BMP maintained. Mowed, no trash or debris.	11/16/2020	No	Detention Basin	0		Private
Car Storage Lot	14-0017.1	ADOAN - 2020-11-17 07:10:56 -- BMP in compliance. Manager cleaned up accumulated sediment while I was there.	11/16/2020	No	Detention Basin	0		Private
CIRS Facility	16-0106.1	ADOAN - 2020-11-17 07:49:58 -- BMP in excellent condition. No trash or debris. Well maintained.	11/16/2020	No	Wet Pond 1	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
CIRS Facility	16-0106.2	ADOAN - 2020-11-17 07:50:36 -- BMP in excellent condition. Well maintained.	11/16/2020	No	Manufactured Treatment Device	0		Private
Shoshone Court	92067.022.1	ADOAN - 2020-11-17 09:00:57 -- BMP maintained.	11/16/2020	No	Infiltration Practices	0		Private
Bank Street Baptist Church Parking Lot	1111.1	ADOAN - 2020-11-17 14:42:53 -- Pavers need attention. Remove accumulated sediment and grass buildup. Maintenance required.	11/16/2020	Yes	Permeable Pavement	2	3/9/2021	Private
Rite Aid Regional Office	15161.1	ADOAN - 2020-11-17 08:08:32 -- BMP maintained.	11/16/2020	No	Infiltration Practices	0		Private
Parking Lot Addition	04-0115.1	ADOAN - 2020-11-18 10:27:18 -- BMP contains water and debris. BMP needs to be pumped out. Please provide maintenance records.	11/17/2020	No	Grass Channel	0		Private
Parking Lot Addition	04-0115.2	ADOAN - 2020-11-18 10:27:18 -- BMP contains water and debris. BMP needs to be pumped out. Please provide maintenance records.	11/17/2020	Yes	Manufactured Treatment Device	1	1/19/2021	Private
Parking Lot Addition	04-0115.3	ADOAN - 2020-11-18 10:30:34 -- BMP contains water and debris. BMP needs to be pumped out. Please provide maintenance records.	11/17/2020	Yes	Manufactured Treatment Device	1	1/19/2021	Private
Gifford Office	05-0023.2	ADOAN - 2020-11-18 11:06:00 -- BMP holding water and contains debris. Pump out required.	11/17/2020	Yes	Infiltration Practices	1	12/17/2020	Private
Gifford Office	05-0110.3	ADOAN - 2020-11-18 11:06:46 -- Please maintain the two CDS Connect units per the manufacturer's specifications and provide copies of the maintenance records.	11/17/2020	Yes	Manufactured Treatment Device	1	2/26/2021	Private
Duplex	05-0170.1	ADOAN - 2020-11-18 07:22:14 -- BMP mowed and clear of trash.	11/17/2020	No	Bioretention	0		Private
Duplex	05-0170.2	ADOAN - 2020-11-18 07:22:57 -- BMP maintained.	11/17/2020	No	Bioretention	0		Private
Duplex	05-0170.3	ADOAN - 2020-11-18 07:23:15 -- BMP mowed and free of trash. Inlet grate clear of trash and sediment.	11/17/2020	No	Bioretention	0		Private
Duplex	05-0170.4	ADOAN - 2020-11-18 07:23:52 -- BMP mowed and clear of trash.	11/17/2020	No	Bioretention	0		Private
Parktowne Apartments	05-0188.1	ADOAN - 2020-11-18 09:35:27 -- Grass swale mowed and maintained.	11/17/2020	No	Grass Channel	0		Private
Parktowne Apartments	05-0188.2	ADOAN - 2020-11-18 09:36:55 -- Grass swale mowed and maintained.	11/17/2020	No	Grass Channel	0		Private
Parktowne Apartments	05-0188.3	ADOAN - 2020-11-18 09:40:03 -- Filterra in good condition. However, the cleanout in the infiltration trench outfall from Filterra need to be pumped out. They are holding water and contain leaves and sediment. ; ADOAN - 2020-12-29 14:29:00 -- Filterra maintenance records received 12/23/20.	11/17/2020	No	Manufactured Treatment Device	0		Private
Parktowne Apartments	05-0188.4	ADOAN - 2020-11-18 09:33:37 -- BMP in good condition. ADOAN - 2020-12-29 14:28:32 -- Filterra maintenance records received 12/23/20.	11/17/2020	No	Manufactured Treatment Device	0		Private
Parktowne Apartments	05-0188.5	ADOAN - 2020-11-18 09:25:58 -- Swale mowed and maintained.	11/17/2020	No	Grass Channel	0		Private
Parktowne Apartments	05-0188.6	ADOAN - 2020-11-18 09:28:48 -- BMP in good condition. ADOAN - 2020-12-29 14:27:39 -- Filterra maintenance records received 12/23/20.	11/17/2020	No	Manufactured Treatment Device	0		Private
Tarrington Elementary	06-0142.1	ADOAN - 2020-11-18 08:08:03 -- BMP being maintained.	11/17/2020	No	Grass Channel	0		School
Little Creek Elementary Parking Lot	06-0143.1	ADOAN - 2020-11-18 13:07:35 -- BMP well maintained.	11/17/2020	No	Grass Channel	0		School
Tarrington Park Improvements	07-0031.1	ADOAN - 2020-11-18 08:01:07 -- BMP in good condition.	11/17/2020	No	Manufactured Treatment Device	0		Public
Dudake Expansion	17-0077.1	ADOAN - 2020-11-18 10:40:08 -- BMP in good condition.	11/17/2020	No	Wet Swale 1	0		Private
Dudake Expansion	17-0077.2	ADOAN - 2020-11-18 08:25:39 -- BMP was holding water at time of inspection, due to high tide.	11/17/2020	No	Wet Swale 1	0		Private
Lake Whitehurst Harvesting Facility	1125.1	ADOAN - 2020-11-18 08:25:39 -- BMP was holding water at time of inspection, due to high tide.	11/17/2020	No	Detention Basin	0		Public
Wash Land	06-0020.1	ADOAN - 2020-11-18 08:33:52 -- BMP being maintained.	11/18/2020	No	Extended Detention Basin	0		Private
Centum College	99-4224.1	ADOAN - 2020-11-19 08:41:29 -- Remove accumulated sediment from bottom of basin and outfall. Basin is holding water. Remove trash and overgrown vegetation throughout the basin.	11/18/2020	Yes	Detention Basin	1	1/7/2021	Private
Shell Station	1416.1	ADOAN - 2020-11-19 08:24:13 -- Remove accumulated leaf/trash debris from basin and outfall. Remove accumulated sediment/debris from gutters leading to basin. Remove concrete parking bollards and debris blocking the flow through gutters into the basin.	11/18/2020	Yes	Detention Basin	1	12/4/2020	Private
Duplex Lots 59 & 60	05-0048.1	ADOAN - 2020-11-24 07:31:36 -- BMP well maintained.	11/20/2020	No	Infiltration Practices	0		Private
Duplex Lots 61 & 62	05-0051.1	ADOAN - 2020-11-24 07:31:58 -- BMP well maintained.	11/20/2020	No	Infiltration Practices	0		Private
Little Creek Self Storage	05-0179.1	ADOAN - 2020-11-23 13:52:40 -- BMP needs maintenance. Remove overgrown vegetation, trash, and accumulated sediment in the gutter and BMP. BMP should be restored to the approved plans.	11/20/2020	Yes	Bioretention	1	2/22/2021	Private
Little Creek Self Storage	05-0179.2	ADOAN - 2020-11-23 13:54:57 -- BMP needs maintenance. Remove accumulated sediment from the gutter that has eroded off the banks. Remove sediment from the stone outfall. BMP should be restored according to the approved plans.	11/20/2020	Yes	Bioretention	1	2/22/2021	Private
Duplex	06-0046.1	ADOAN - 2020-11-24 09:36:16 -- BMP well maintained.	11/20/2020	No	Infiltration Practices	0		Private
Duplex	06-0047.1	ADOAN - 2020-11-24 09:34:14 -- BMP well maintained.	11/20/2020	No	Infiltration Practices	0		Private
Saint Clair's Law Firm Office Addition	06-0090.1	ADOAN - 2020-11-23 15:00:37 -- Remove trash and overgrown/dead vegetation within the BMP.	11/20/2020	Yes	Infiltration Practices	1	1/20/2021	Private
Roosevelt Family Medicine	06-0101.1	ADOAN - 2020-11-23 14:35:30 -- Remove trash and grass clipping from the grated outfall. Remove accumulated sediment and leaf debris at the curb cut.	11/20/2020	Yes	Detention Basin	1	1/20/2021	Private
Duplex Site Plan for Li Shen	12-0050.1	ADOAN - 2020-11-24 09:44:55 -- BMP in excellent condition.	11/20/2020	No	Permeable Pavement	0		Private
Pretty Lake Greens	13-0057.1	ADOAN - 2020-11-24 09:58:06 -- Common Plan of Development includes: 3112 Pretty Lake, 3118 Pretty Lake, 3122 Pretty Lake, 9537 12th Bay, and 9541 12th Bay. BMP in excellent condition, well maintained.	11/20/2020	No	Detention Basin	0		Private
Jack & Jill Ice Cream Co.	1188.1	ADOAN - 2020-11-24 10:13:28 -- Remove overgrown vegetation throughout the BMP.	11/20/2020	Yes	Infiltration Practices	1	12/21/2020	Private
Little Creek East Shopping Center	1297.1	ADOAN - 2020-11-23 15:22:10 -- Remove overgrown vegetation throughout the BMP. Remove trash at outfall, inlet, and throughout the BMP. Remove accumulated sediment in the storm at the outfall.; ADOAN - 2020-12-29 11:06:14 -- 12-28-20: drove by site and vegetation has been cut down. Trash and sediment still have to be removed.	11/20/2020	Yes	Detention Basin	1	1/20/2021	Private
Enterprise Rent-A-Car	1382.1	ADOAN - 2020-11-23 13:19:06 -- BMP infiltration appears to be choked with overgrown vegetation/debris/trash. Remove overgrown vegetation, debris, and trash. Re-establish BMP to the original plans.	11/20/2020	Yes	Infiltration Practices	1	1/20/2021	Private
Ruggoso Dunes	03-0138.1	CLVANLE - 2020-11-24 11:09:53 -- Permeable Pavers are in good condition. Minor amount of sediment/sand accumulation.	11/24/2020	No	Permeable Pavement	0		Private
2542 E Ocean View Ave	03-0304.1	CLVANLE - 2020-12-08 15:00:21 -- Small amount of sediment accumulation. Monitor in future inspections.	11/24/2020	No	Infiltration Practices	0		Private
Duplex	05-0116.1	CLVANLE - 2020-11-30 14:04:44 -- Bioretention was well vegetated and appears to be functioning well. Small amount of leaf litter present, but not obstructing inlet.	11/24/2020	No	Bioretention	0		Private
Norfolk Airport Garage	09-0020.1	CLVANLE - 2021-05-19 14:22:19 -- Inspection was completed by M.Bobadilla for the Airport's SW fee reduction. Inspection form is attached.	11/24/2020	No	Wet Pond	0		Private
Terminal and Councourse Improvements	12-0031.1	CLVANLE - 2021-05-19 14:26:47 -- Inspection was completed by M.Bobadilla for the Airport's SW fee reduction. Inspection form is attached.	11/24/2020	No	Wet Pond	0		Private
Jet Aircraft Ground Run-Up Enclosure	06-0048.1	CLVANLE - 2021-05-19 14:36:23 -- Inspection was completed by M.Bobadilla for the Airport's SW fee reduction. Inspection form is attached.	11/30/2020	No	Infiltration Practices	0		Private
Coastal Villas by the Bay	15-0025.3	ADOAN - 2020-12-02 07:30:43 -- BMP well maintained.	11/30/2020	No	Grass Channel	0		Private
Coastal Villas by the Bay	15-0025.1	ADOAN - 2020-12-02 07:30:03 -- BMP well maintained.	11/30/2020	No	Bioretention 2	0		Private
Coastal Villas by the Bay	15-0025.2	ADOAN - 2020-12-02 07:30:23 -- BMP well maintained.	11/30/2020	No	Grass Channel	0		Private
Coastal Services	17-0056.1	ADOAN - 2020-12-02 10:05:28 -- BMP is in poor condition. Remove the dead vegetation and replace. Remove the two Condo boxes that are stacked on the infiltration bed. Remove the framing for the proposed concrete pad. Replace the media/stones that had been removed during some site work. New media/stones will have to be installed according to the approved plan. The old media/stones cannot be placed back in the hole. There cannot be anything constructed or placed within the BMP that is not part of the approved plan. ; ADOAN - 2021-02-04 15:18:53 -- Re-visited the site on 2-4-21. Washed 57 stone has been delivered. The pipe in the infiltration practice has been fixed. The concrete patio frame has been removed. Still waiting on the containers to be moved and the gravel to be reinstalled. Gave an extension until March 5, 2021.	11/30/2020	Yes	Rooftop or Impervious Surface Disconnect	1	3/10/2021	Private
Camptostella Elementary	14-0073.1	ADOAN - 2020-12-04 14:27:22 -- BMP needs maintenance on the following items. Green algae was visible in the pond. Noticeable areas of erosion along the banks. Waterweeds choking the outfall pipes. Pine straw and debris from grated inlet.	12/04/2020	Yes	Wet Pond	1	2/4/2021	School
Meadow Lake	S15.1	ADOAN - 2020-12-04 15:17:18 -- WO placed by J. Shaffer on 10/19/20.	12/04/2020	Yes	Wet Pond	1	2/4/2021	Public

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Lake Scott Gypsum Plant Expansion	58.1	ADOAN - 2020-12-04 14:08:33 -- Wet pond well maintained.	12/04/2020	No	Wet Pond	0		Public
	05-0075.1	ADOAN - 2020-12-08 09:39:10 -- Maintained BMP according to approved plans. Remove all accumulated sediment at the outfalls and along the concrete culvert. Clean and refresh stones at outfall. Remove overgrown vegetation throughout the basin. ; ADOAN - 2021-01-19 09:35:05 -- Leslie Wilson (property Manager) notified me of the delay in getting a contractor out to complete the work. He has been updating me on the status. Gave an extension thru March 8, 2021. AD.	12/07/2020	Yes	Extended Detention Basin	1	3/5/2021	Private
New Hope United Church of Christ Oakleaf Forest	06-0096.1	ADOAN - 2020-12-08 09:03:34 -- BMP well maintained.	12/07/2020	No	Detention Basin	0		Private
	09-0024.1	ADOAN - 2020-12-09 12:09:06 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. Replace missing tree. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.10	ADOAN - 2020-12-09 11:51:06 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.11	ADOAN - 2020-12-09 11:58:03 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. Replace missing tree. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.12	ADOAN - 2020-12-09 11:55:02 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. Replace missing tree. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.13	ADOAN - 2020-12-09 11:53:02 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.14	ADOAN - 2020-12-09 11:26:38 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.15	ADOAN - 2020-12-09 11:30:44 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.16	ADOAN - 2020-12-09 11:28:52 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.17	ADOAN - 2020-12-09 11:34:30 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.18	ADOAN - 2020-12-09 11:36:43 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. Trim back the smaller tree. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.19	ADOAN - 2020-12-09 11:18:22 -- BMP needs to be maintained according to manufacturer's specifications. The tree needs be trimmed. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.2	ADOAN - 2020-12-09 12:06:12 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. Replace missing tree. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.20	ADOAN - 2020-12-09 11:21:18 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.21	ADOAN - 2020-12-09 11:15:07 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.22	ADOAN - 2020-12-09 11:12:42 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.23	ADOAN - 2020-12-09 11:08:15 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.24	ADOAN - 2020-12-09 11:04:09 -- BMP needs to be maintained according to manufacturer's specifications. The trees need to be trimmed back. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.3	ADOAN - 2021-01-25 13:32:18 -- January 19, 2021, Rick O'Neal notified me that the Filterras have been cleaned and the plywood replaced. The trees will be planted April. Rescheduled re-inspection from February to April.;	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private

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Oakleaf Forest	09-0024.4	ADOAN - 2020-12-09 12:23:19 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.5	ADOAN - 2020-12-09 11:45:20 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.6	ADOAN - 2020-12-09 11:47:23 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.7	ADOAN - 2020-12-09 11:41:56 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.8	ADOAN - 2020-12-09 11:39:54 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Oakleaf Forest	09-0024.9	ADOAN - 2020-12-09 11:49:16 -- BMP needs to be maintained according to manufacturer's specifications. The trees need be replaced as they are getting too large for the Filterra. I understand that the original steel grates on the Filterra have been replaced with wood, however, this needs to be maintained also, as most of the wood is in poor condition.	12/07/2020	Yes	Manufactured Treatment Device	1	4/19/2021	Private
The Banks at Berkley	14-0072.1	ADOAN - 2020-12-08 09:24:44 -- BMP needs to be maintained. Remove accumulated trash from the inlets throughout the site. Remove accumulated sediment from the cleanout ports. Remove overgrown vegetation that has encroached into the pavers.	12/07/2020	Yes	Manufactured Treatment Device	1	2/10/2021	Private
The Banks at Berkley	14-0072.2	ADOAN - 2020-12-08 09:10:30 -- BMP needs to be maintained. Remove accumulated trash throughout the inlets on site. Remove accumulated sediment from the cleanout ports.	12/07/2020	Yes	Manufactured Treatment Device	1	2/10/2021	Private
Saint Pauls COGIC	02-0007.1	ADOAN - 2020-12-10 08:12:40 -- Remove accumulated sediment from trench drain.	12/08/2020	Yes	Infiltration Practices	1	2/10/2021	Private
Saint Pauls COGIC	02-0007.2	ADOAN - 2020-12-10 08:16:31 -- Infiltration trench in good condition.	12/08/2020	No	Infiltration Practices	0		Private
Saint Pauls COGIC	02-0007.3	ADOAN - 2020-12-10 08:24:15 -- Remove accumulated sediment from trench drain along Vine Street.  Remove concrete material that was placed in the trench drain along Delevan Street. NOV issued.	12/08/2020	Yes	Infiltration Practices	2	5/11/2021	Private
Metropolitan Funeral Service	06-0134.1	ADOAN - 2020-12-08 09:46:05 -- BMP in good condition.	12/08/2020	No	Permeable Pavement	0		Private
St. Paul's Church Parking Lot Expansion	07-0038.1	ADOAN - 2020-12-10 08:29:11 -- BMP in good condition. Water puddling near BMP. However, rain event occurred within 24 hours of inspection.	12/08/2020	Yes	Bioretention	1	1/21/2021	Private
Berkley Basketball Court	09-0015.1	ADOAN - 2020-12-17 14:08:07 -- BMP maintained. No trash or debris.	12/08/2020	No		0		Public
Duplex	04-0148.1	CLVANLE - 2020-12-10 13:21:50 -- BMP is well vegetated with no erosion or standing water present.	12/09/2020	No	Infiltration Practices	0		Private
Duplex	06-0068.1	CLVANLE - 2020-12-10 11:11:28 -- Site appears to be well maintained in back of property. Adequate vegetation present.	12/09/2020	No	Infiltration Practices	0		Private
9536 6th Bay Duplex	14-0095.1	CLVANLE - 2020-12-10 12:51:56 -- Please correct erosion by rooftop disconnection located on the backside of the home near the downspout.	12/09/2020	Yes	Rooftop or Impervious Surface Disconnect	1	1/5/2021	Private
Metro Machine Parking Addition Phase II	10-0025.1	ADOAN - 2020-12-10 15:09:31 -- Filterra well maintained.	12/10/2020	No	Manufactured Treatment Device	0		Private
Bay Disposal Material Recovery Facility	14-0001.1	ADOAN - 2020-12-10 14:59:20 -- BMP being maintained.	12/10/2020	No	Detention Basin	0		Private
Metro Machine - Lot D Parking	14-0060.1	ADOAN - 2020-12-10 15:21:14 -- Basin well maintained.	12/10/2020	No	Detention Basin	0		Private
Clairmont Apartments	15-0006.1	ADOAN - 2020-12-10 14:51:30 -- BMP in excellent condition. Well maintained.	12/10/2020	No	Wet Pond 1	0		Private
Ford Motor Company Body Shop & Final Area Addition	14-067.1	ADOAN - 2020-12-11 09:00:41 -- BMP needs required maintenance. Remove overgrown vegetation. Remove accumulated sediment at outfalls and refresh stones around outfall.	12/10/2020	Yes	Detention Basin	1	2/4/2021	Private
Pretty Lake Townhouses	03-0303.1	ADOAN - 2020-12-14 10:45:39 -- BMP mowed and maintained.	12/11/2020	No	Extended Detention Basin	0		Private
Duplex	03-0308.1	ADOAN - 2020-12-14 10:32:48 -- BMP mowed and maintained.	12/11/2020	No	Detention Basin	0		Private
Duplex	03-0308.2	ADOAN - 2020-12-14 10:34:29 -- BMP mowed and maintained.	12/11/2020	No	Detention Basin	0		Private
Saint Pauls Church Addition	04-0135.1	ADOAN - 2020-12-14 10:16:27 -- BMP mowed and maintained.	12/11/2020	No	Street Curbcut	0		Private
McDonald's rebuild	07-0115.1	ADOAN - 2020-12-14 10:24:10 -- Remove debris and trash from inlet.	12/11/2020	Yes	Infiltration Practices	1	2/22/2021	Private
4206 Pretty Lake two family	06-0073.1	ADOAN - 2020-12-14 10:49:23 -- BMP maintained.	12/11/2020	No	Infiltration Practices	0		Private
Vinings Landing Marine Center	04-0026.1	ADOAN - 2020-12-16 13:15:43 -- Please maintain the 3 Stormceptor units (2 model #STC-1200 and 1 Model #STC-900) in accordance with the manufacturers specifications and provide copies of the maintenance records.	12/15/2020	Yes	Manufactured Treatment Device	1	1/29/2021	Private
Vinings Landing Marine Center	04-0026.2	ADOAN - 2020-12-16 13:16:18 -- Please maintain the 3 Stormceptor units (2 model #STC-1200 and 1 Model #STC-900) in accordance with the manufacturers specifications and provide copies of the maintenance records.	12/15/2020	Yes	Manufactured BMP Systems	1	1/29/2021	Private
Vinings Landing Marine Center	04-0026.3	ADOAN - 2020-12-16 13:16:29 -- Please maintain the 3 Stormceptor units (2 model #STC-1200 and 1 Model #STC-900) in accordance with the manufacturers specifications and provide copies of the maintenance records.	12/15/2020	Yes	Manufactured BMP Systems	1	1/29/2021	Private
Campostella Heights Seventh Day Adventist Church	05-0110.1	ADOAN - 2020-12-17 07:24:02 -- Contractor next door is putting in a driveway. Construction debris was placed on the BMP. Asked him to remove debris.	12/15/2020	No	Infiltration Practices	0		Private
Duplex	05-0124.1	ADOAN - 2020-12-16 09:25:08 -- BMP mowed and free of trash access.	12/15/2020	No	Infiltration Practices	0		Private
Duplex	08-0046.1	CLVANLE - 2020-12-16 11:01:08 -- Spoke with homeowner and addressed maintenance. Site is well maintained.	12/15/2020	No	Detention Basin	0		Private
Duplex	08-0099.1	ADOAN - 2020-12-16 09:18:31 -- BMP maintained.	12/15/2020	No	Grass Channel	0		Private
Sherwin Williams	12-0066.1	ADOAN - 2020-12-16 15:01:44 -- Please provide maintenance according to manufacturers specifications and provide maintenance records. ADOAN - 2021-03-01 08:17:51 -- Re-inspected the site on 2/25/21. Accessed the manhole into the system. The access nearest the street had visible erosion around the collar of the manhole. Repairs are needed.  A call is into the corporate office as to who is the local contact to get the report to and get these repairs done. ADOAN - 2021-03-01 09:23:25 -- During the inspection it was noted that sediment and standing water was noted within the system. Remove this sediment and standing water.	12/15/2020	Yes	Extended Detention Basin	0		Private
Bay Point Club House	20-067,013.1	ADOAN - 2020-12-16 08:04:02 -- BMP well maintained.	12/15/2020	No	Infiltration Practices	0		Private
Continuous Flow Intersection	1572.1	CLVANLE - 2020-12-16 12:15:45 -- Gate is locked, only able to access from street. Basin is overgrown. Will coordinate with Kyle for maintenance. CLVANLE - 2021-01-29 08:17:11 -- Re-inspection date moved. JW will speak with contractor about moving fence back on the property for maintenance vehicle access to area.	12/15/2020	Yes	Extended Detention Basin	1	3/15/2021	Public
Norfolk Botanical Gardens - Visitors Reception	1103.1	ADOAN - 2020-12-16 10:35:38 -- Remove overgrown vegetation throughout the basin. Remove overgrown vegetation around the outfall and make visible. Maintain rocks around outfall according to the approved plans.	12/15/2020	Yes	Wet Pond	1	5/4/2021	Public
Bay Oaks Place Extension NRHA	1212.1	ADOAN - 2020-12-17 08:23:41 -- Remove accumulated leaves, sediment, and debris from concrete culvert and drop inlet at 2318 and 2400 Bay Oaks Place.	12/15/2020	Yes	Infiltration Practices	1	2/16/2021	Public
Sarah Lee Baker Perennial Garden	1288.1	ADOAN - 2020-12-16 10:09:00 -- Area around BMP well maintained. Dry well box was not found but located the general area. Maintenance manager will attempt to find when trees are pruned in the spring.	12/15/2020	No	Infiltration Practices	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
New Life Christian Center	T446.1	ADOAN - 2020-12-17 09:29:10 -- Remove accumulated sediment from all inlets. Repair basin where the wall had collapsed. Replace cap on drain pipe. Remove trash and debris from basins.	12/15/2020	Yes	Detention Basin	2	4/21/2021	Private
Norfolk Botanical Gardens Production House	T466.1	ADOAN - 2020-12-16 10:29:13 --  BMP well maintained. Swale is mowed and free of trash.	12/15/2020	No	Grass Channel	0		Public
Bay Oaks Place	T509.1	ADOAN - 2020-12-16 09:51:23 -- BMP maintained.	12/15/2020	No	Infiltration Practices	0		Public
East Beach Marine	T543.1	ADOAN - 2020-12-16 09:11:39 -- BMP well maintained. No trash or debris.	12/15/2020	No	Infiltration Practices	0		Private
East Beach Marine	T543.2	ADOAN - 2020-12-16 09:12:04 -- BMP well maintained. No trash or debris.	12/15/2020	No	Infiltration Practices	0		Private
Lot E Bay Oaks Place	T571.1		12/15/2020	No	Infiltration Practices	0		Private
Fire Station	T574.1	ADOAN - 2020-12-17 07:38:18 -- Remove accumulated sediment at the outfall and along curb inlet and gutter. Requested W/O.	12/15/2020	Yes	Grass Channel	1	2/22/2021	Public
Bay Oaks Place (NRHA)	T58.1	ADOAN - 2020-12-17 08:33:27 -- See T212. Work Order requested for cleanout of concrete flume and inlet at 2318 and 2400 Bay Oaks Place.	12/15/2020	Yes	Infiltration Practices	1	2/16/2021	Public
Liberty Tax Service	T699.1		12/15/2020	No	Grass Channel	0		Private
First Va Bank of Tidewater	T589.1	CLVANLE - 2020-12-16 09:39:56 -- Please remove trash and debris from basin. Outfall is covered in leaf debris and vegetation, please remove.	12/16/2020	Yes	Wet Pond	3	5/25/2021	Private
Silver Lake-Duck Pond	S14.1	ADOAN - 2020-12-21 13:54:19 -- For both Duck Pond and Silver Lake. Remove leaf litter, sediment, and trash from concrete drainage culverts and gutter pan along Duck Pond Road. Remove trash from the shoreline and waters edge. Remove invasive water plants along shoreline.	12/21/2020	Yes	Wet Pond	1	2/4/2021	Public
Bay Oaks Park	T3-0046.1	CLVANLE - 2020-12-29 08:54:48 -- Please remove accumulated sediment and debris from inlet/outlet pipes in basin. Basin is holding water, but rain event was 24 hours prior. Monitor.	12/23/2020	Yes	Detention Basin	0		Public
Bay Oaks Park	T3-0046.2		12/23/2020	No	Detention Basin	0		Public
2714-2718 Pleasant Ave Duplex	T7-0015.1	CLVANLE - 2020-12-23 11:26:55 -- Provide stabilization for denuded area along bank. Replace riprap per plan on bank of BMP.	12/23/2020	Yes	Infiltration 2	2	3/23/2021	Private
8th Bay Street	T3-147.1	ADOAN - 2020-12-28 15:25:27 -- Remove accumulated sediment from the two manholes and drop inlet as part of the extended detention basin.	12/28/2020	Yes	Extended Detention Basin	1	2/9/2021	Private
14th Bay Street Residential	T6-0037.4		12/28/2020	No	Bioretention: Urban	0		Private
Woodlawn Memorial Gardens	T5-0038.1	ADOAN - 2021-01-12 09:14:37 -- BMP needs to be maintained. replace mulch and plants. Remove accumulated sediment due to grading activities that have impacted the BMP. All grading activities need to cease. May have to contact your Engineer regarding elevations that may have changed due to stockpiles being graded. Potentially increasing slope.	12/30/2020	Yes	Bioretention 1	0		Private
Woodlawn Memorial Gardens	T5-0038.4	ADOAN - 2021-01-12 09:22:59 -- BMP needs to be maintained. replace mulch and plants. Remove accumulated sediment due to grading activities that have impacted the BMP. All grading activities need to cease. May have to contact your Engineer regarding elevations that may have changed due to stockpiles being graded. Potentially increasing slope.	12/30/2020	Yes	Bioretention 1	0		Private
Woodlawn Memorial Gardens	T5-0038.5	ADOAN - 2021-01-12 09:25:59 -- BMP needs to be maintained. replace mulch and plants. Remove accumulated sediment due to grading activities that have impacted the BMP. All grading activities need to cease. May have to contact your Engineer regarding elevations that may have changed due to stockpiles being graded. Potentially increasing slope.	12/30/2020	Yes	Bioretention 1	0		Private
Royal Farms	T6-0115.1	ADOAN - 2020-12-30 14:49:17 -- Remove accumulated sediment at the curb cuts and into the stone area.  Remove accumulate sediment from the inlet. Repair the sinking area around outfall overflow.	12/30/2020	Yes	Detention Basin	1	3/25/2021	Private
Royal Farms	T6-0115.2	ADOAN - 2020-12-30 14:59:51 -- Remove trash throughout BMP.	12/30/2020	Yes	Detention Basin	1	3/23/2021	Private
Royal Farms	T6-0115.3	ADOAN - 2020-12-30 14:58:42 -- Remove accumulated sediment from curb inlet and area around stones. Remove accumulated sediment graded inlet and outfall. Remove trash.	12/30/2020	Yes	Detention Basin	1	3/23/2021	Private
Royal Farms	T6-0115.5	ADOAN - 2020-12-30 15:04:30 -- Remove accumulated sediment at the curb inlets and gutters.	12/30/2020	Yes	Detention Basin	1	3/23/2021	Private
Royal Farms	T6-0115.5	ADOAN - 2020-12-30 15:08:21 -- OWs-requested maintenance records.	12/30/2020	Yes	Detention Basin	1	3/25/2021	Private
E Princess Anne Road-Tidewater Tech parking	T6-0104.1	ADOAN - 2020-12-31 07:56:32 -- Filter in excellent condition. Requested Maintenance logs.	12/30/2020	No	Manufactured Treatment Device	0		Private
E Princess Anne Road-Tidewater Tech parking	T6-0104.2	ADOAN - 2020-12-31 07:58:04 -- Stormtank appears to be in excellent condition from the surface. Requested maintenance logs.	12/30/2020	No	Manufactured Treatment Device	0		Private
Woodlawn Memorial Gardens Funeral Home	T409.1	ADOAN - 2021-01-12 09:55:41 -- BMP needs to be maintained. Remove overgrown vegetation, trash and accumulated sediment throughout the BMP. Remove overgrown vegetation from the outfall/stones of the BMP.	12/30/2020	Yes	Detention Basin	1	3/19/2021	Private
Woodlawn Memorial Gardens Funeral Home	T409.2	ADOAN - 2021-01-12 10:00:57 -- Remove accumulated sediment along concrete culvert. Remove accumulated debris at inlet.	12/30/2020	Yes	Detention Basin	1	3/19/2021	Private
Jeff Robertson Park	T6-0014.1	CLVANLE - 2021-01-04 11:04:19 -- Clearcut vegetation around the banks. BMP is scheduled to be maintained 02/2021. Will re-inspect after.	12/31/2020	No	Stormwater Wetland	2	3/8/2021	Public
Roberts Road Pond Retrofit	T6-0055	CLVANLE - 2021-01-04 11:52:43 -- Please remove trash and debris from basin sides. Remove overgrown woody vegetation from banks.	12/31/2020	Yes	Wet Pond 2	1	2/4/2021	Public
Dune Street Wetland	T6-0075.1	CLVANLE - 2021-01-04 08:55:43 -- Clearcut woody vegetation growing on banks of BMP. Remove materials once cut. CLVANLE - 2021-01-04 10:15:29 -- Work order placed, WO#21-000316. CLVANLE - 2021-02-01 08:16:56 -- Reinspection date moved due to maintenance not performed. Will reinspect 4/1/2021.	12/31/2020	Yes	Stormwater Wetland 2	1	4/20/2021	Public
United Disposal Laydown Yard	T7-0064.1	ADOAN - 2021-01-07 10:45:27 -- Maintain swale. Remove overgrown weedy vegetation and trash throughout the swale.	01/04/2021	Yes	Infiltration Practices	1	1/19/2021	Private
Simms Road Street & Drainage Improvements	T4-0081.1	ADOAN - 2021-01-06 07:29:15 -- BMP being maintained. No trash or debris.	01/05/2021	No	Dry Swale 1	0		Private
Lots 5-12 Glenroe Ave. 3 SFR	T6-0016.1	ADOAN - 2021-01-14 10:41:18 -- Nutrient credits. BMP maintained.	01/05/2021	No	Detention Basin	0		Public
Stormwater Pump Station 12	T570.1	CLVANLE - 2021-01-07 08:31:23 -- Please remove accumulated sediment and litter from hydrodynamic separator. WO#21-000821 placed.	01/05/2021	Yes	Manufactured Treatment Device	1	1/22/2021	Private
Woodlawn Memorial Gardens	T5-0038.3	ADOAN - 2021-01-12 09:40:48 -- Maintain BMP. Replace vegetation according to approved plans.	01/08/2021	Yes	Bioretention 1	0		Private
Sentara Medical Group	T02-0048.1	ADOAN - 2021-01-13 08:28:40 -- Remove overgrown vegetation. Repair slopes of BMP (there appears to be undercutting of the slope). Remove vegetation and sediment from around outfall pipe. Remove sediment from overflow.	01/11/2021	Yes	Detention Basin	1	3/8/2021	Private
Building Addition at Circle South	T07-0127.1	ADOAN - 2021-01-13 08:53:30 -- Remove accumulated sediment from the underground detention basin.	01/11/2021	Yes	Manufactured Treatment Device	1	2/3/2021	Private
Building Addition at Circle South	T07-0127.2	ADOAN - 2021-01-13 08:45:54 -- Maintain Filterra according to manufacturer specifications. Trim tree. Provide Filterra maintenance records.	01/11/2021	Yes	Manufactured Treatment Device	1	2/3/2021	Private
Building Addition at Circle South	T07-0127.3	ADOAN - 2021-01-13 08:51:29 -- Maintain Filterra according to manufacturer specifications. Trim tree. Provide Filterra maintenance records.	01/11/2021	Yes	Manufactured Treatment Device	1	2/3/2021	Private
Woodlawn Memorial Gardens	T5-0038.2	ADOAN - 2021-01-12 09:37:57 -- Maintain BMP. Replace vegetation according to approved plans.	01/11/2021	Yes	Bioretention 1	0		Private
ABC Supply Company	T02-0103.1	ADOAN - 2021-01-12 15:11:40 -- Remove trash from outfall and overflow graded inlet. Remove accumulated sediment around stones and refresh outfall stones.	01/12/2021	Yes	Detention Basin	1	3/15/2021	Private
Woodfin Oil	T00-4244.1	ADOAN - 2021-01-14 08:37:00 -- Please provide maintenance records for the Stormceptor.	01/13/2021	Yes	Manufactured Treatment Device	1	3/15/2021	Private
Fairlawn Elementary School Parking Lot	T01-0114.1	ADOAN - 2021-01-14 07:27:08 -- BMP well maintained. Grass mowed, no trash.	01/13/2021	No	Grass Channel	0		School
AAA Parking Lot Expansion	T06-0157.1	ADOAN - 2021-01-14 08:08:45 -- Replace tree that is encroaching onto the steel grate in Filterra. Maintain Filterra according to manufacturers specifications.	01/13/2021	Yes	Manufactured Treatment Device	1	3/15/2021	Private
Warehouses	T05-0180.1	ADOAN - 2021-01-14 07:33:01 -- BMP being maintained.	01/13/2021	No	Extended Detention Basin	0		Private
Sentara Leigh Cancer Center	T7-0044.1	ADOAN - 2021-01-25 08:44:37 -- Site inspected for CO. BMP installed and in excellent condition. On line date 1/13/21.	01/13/2021	No	Manufactured Treatment Device	0		Private
Sentara Leigh Cancer Center	T7-0044.2	ADOAN - 2021-01-25 08:43:02 -- Site inspected for CO. BMP installed and in excellent condition. On line date 1/13/21.	01/13/2021	No	Manufactured Treatment Device	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
VAMAC Village Foods - Azalea Garden & Village Intersec	18-0039.1 91067.022.1	ADOAN - 2021-01-14 07:49:40 -- BMP well maintained. Mowed and no trash. ADOAN - 2021-01-13 14:44:08 -- Remove overgrown vegetation throughout the wet pond and along the outfall flume. The inlet pipe was not visible. Remove any and all obstructions to make the inlet pipe and riprap visible. Refer to approved plans. ; ADOAN - 2021-01-13 14:49:04 -- Remove accumulated sediment along the gutter pan leading to the curb inlet. Remove debris from the curb inlet. ; ADOAN - 2021-03-01 11:27:15 -- Spoke with Site manager on 3/1/21 and they are working on getting the site cleared. Gave an additional 30 days. ; ADOAN - 2021-04-09 13:23:38 -- 4/6/21: Met Bill Harmon on site. The BMP was cleared of overgrown vegetation. Additional items need to be addressed: 1. Remove accumulated debris at the fence line. 2. Remove tree and accumulated sediment from the BMP. 3. Remove trash from the inlet at the corner of the parking lot. 4. Remove accumulated sediment at the outfall to make outfall pipe visible.	01/13/2021 01/13/2021	No Yes	Dry Swale 2 Wet Pond	0 2		Private Private
HRT Park and Ride	01-0197.1	ADOAN - 2021-01-25 09:18:15 -- Orange algae throughout the pond. May need a treatment before algae blooms occur in spring/summer. Remove debris and sediment at the outfalls. Trim needs throughout the pond.	01/14/2021	Yes	Wet Pond	1	4/12/2021	Private
City Line Self Storage	07-0052.1	ADOAN - 2021-01-15 13:36:22 -- BMP well maintained. Note: Adjacent property (6539 E. VA Beach Boulevard) has been discharging into this private BMP.	01/14/2021	No	Extended Detention Basin	0		Private
Land & Coates	08-0096.1	ADOAN - 2021-01-15 13:51:16 -- Remove trash from the emergency spillway and inlet pipe. Remove trash and dead vegetation from within the basin. Remove accumulated sediment at the outfall.	01/14/2021	Yes	Detention Basin	1	3/11/2021	Private
Leigh Hall Assisted Living Building	13-0064.1	ADOAN - 2021-01-15 13:23:00 -- Maintain CDS unit according to manufacture specifications and provide maintenance logs.	01/14/2021	Yes	Manufactured Treatment Device	1	3/23/2021	Private
HRT Park and Ride Land "N" Sea	01-0197.2 04-0095.1	ADOAN - 2021-01-29 09:22:13 -- BMP in good condition. ADOAN - 2021-01-20 14:23:34 -- Remove landscape timbers that fall into the BMP. ; ADOAN - 2021-03-30 08:52:48 -- Re-inspected 3-29-21. Repairs not completed. Spoke with Rodney C. /Maintenance, and he stated that his crew never got the reports. I gave him a copy of the reports on site. He also contacted Manny Ortiz/Manager who was originally sent the reports. I gave an extension of 30 days.	01/19/2021 01/19/2021	No Yes	Detention Basin	0 2		Private Private
Land "N" Sea	04-0095.2	ADOAN - 2021-01-20 14:54:26 -- Remove accumulated sediment from curb cut and gutter. Remove accumulated sediment and debris from Filterra. Tree getting too large for Filterra. Maintain Filterra according to manufacture specifications. Provide maintenance records. ; ADOAN - 2021-03-30 08:52:25 -- Re-inspected 3-29-21. Repairs not completed. Spoke with Rodney C. /Maintenance, and he stated that his crew never got the reports. I gave him a copy of the reports on site. He also contacted Manny Ortiz/Manager who was originally sent the reports. I gave an extension of 30 days.	01/19/2021	Yes	Manufactured Treatment Device	1	5/3/2021	Private
Land "N" Sea	04-0095.3	ADOAN - 2021-01-20 14:47:15 -- Remove accumulated sediment from gutter and curb inlet. Tree too large, growing into the steel grate; remove and replace. Maintain Filterra according to manufacture specifications. Provide maintenance records. ; ADOAN - 2021-03-30 08:52:07 -- Re-inspected 3-29-21. Repairs not completed. Spoke with Rodney C. /Maintenance, and he stated that his crew never got the reports. I gave him a copy of the reports on site. He also contacted Manny Ortiz/Manager who was originally sent the reports. I gave an extension of 30 days.	01/19/2021	Yes	Manufactured Treatment Device	1	5/3/2021	Private
Land "N" Sea	04-0095.4	ADOAN - 2021-01-20 14:42:27 -- Remove accumulated sediment and leaf debris from gutter. Remove sediment and debris from grated inlet. Trim tree in Filterra. Maintain Filterra according to manufacture specifications. Provide Maintenance records. ; ADOAN - 2021-03-30 08:51:56 -- Re-inspected 3-29-21. Repairs not completed. Spoke with Rodney C. /Maintenance, and he stated that his crew never got the reports. I gave him a copy of the reports on site. He also contacted Manny Ortiz/Manager who was originally sent the reports. I gave an extension of 30 days.	01/19/2021	Yes	Manufactured Treatment Device	1	5/3/2021	Private
Land "N" Sea	04-0095.5	ADOAN - 2021-01-20 14:32:51 -- Remove accumulated sediment and leaf debris along the gutter pan and in the Filterra. Maintain Filterra according to manufacture specifications. Provide maintenance records. ; ADOAN - 2021-03-30 08:49:22 -- Re-inspected 3-29-21. Repairs not completed. Spoke with Rodney C. /Maintenance, and he stated that his crew never got the reports. I gave him a copy of the reports on site. He also contacted Manny Ortiz/Manager who was originally sent the reports. I gave an extension of 30 days.	01/19/2021	Yes	Manufactured Treatment Device	1	5/3/2021	Private
Land "N" Sea Leigh Medical Office Building	04-0095.6 07-0061.1	ADOAN - 2021-01-20 14:25:57 -- BMP swale mowed and maintained. No trash. ADOAN - 2021-01-21 08:17:55 -- Remove accumulated sediment from gutters and curb cuts into basin.	01/19/2021 01/19/2021	No Yes	Grass Channel Manufactured Treatment Device	0 0		Private Private
Leigh Medical Office Building	07-0061.2	ADOAN - 2021-01-21 08:33:31 -- Remove sediment and leaf litter along gutter, concrete culvert, and Filterra. Maintain Filterra according to manufacturer specifications. Provide maintenance records.	01/19/2021	Yes	Manufactured Treatment Device	1	2/3/2021	Private
Leigh Medical Office Building	07-0061.3	ADOAN - 2021-01-21 08:38:27 -- Maintain Filterra according to manufacturer specifications.	01/19/2021	Yes	Manufactured Treatment Device	1	2/3/2021	Private
Leigh Medical Office Building	07-0061.4	ADOAN - 2021-01-21 08:40:39 -- Trees within Filterra need to be trimmed. Maintain Filterra according to manufacturer specifications.	01/19/2021	Yes	Bioretention	1	2/3/2021	Private
Towing Operations Center	13-0061.1	ADOAN - 2021-01-20 13:06:03 -- Remove overgrown weedy and woody vegetation within the basin and along the slope. Bring back to original site plan.	01/19/2021	Yes	Bioretention	1	6/10/2021	Public
Salvation Army Parking Lot	17-0080.1	ADOAN - 2021-01-21 10:56:21 -- Remove accumulated sediment from the outfall and stones around the outfall.	01/19/2021	Yes	Wet Pond 1	2	4/23/2021	Private
Virginia Wesleyan College - Physical Plant	92067.053.1	ADOAN - 2021-01-26 07:40:00 -- Remove accumulated sediment, debris, and woody vegetation from the BMP. Re-establish BMP to its original state.	01/25/2021	Yes	Extended Detention Basin	1	2/12/2021	Private
Virginia Wesleyan College - Physical Plant	92067.053.2	ADOAN - 2021-01-26 07:42:29 -- Remove accumulated sediment, debris, and woody vegetation from the BMP. Re-establish BMP to its original state.	01/25/2021	Yes	Extended Detention Basin	1	2/12/2021	Private
Bauer Compressors - Building Expansion	05-0128.1	ADOAN - 2021-01-26 08:22:17 -- Cut overgrown vegetation throughout the retention basin and drainage swale along the northern and southwestern portions of the building. Remove sediment and oily debris along the gutter pan leading to curb inlet and basin outfall. Remove trash and debris from basin and swale.	01/27/2021	Yes	Wet Pond	2	6/14/2021	Private
Bauer Compressors Expansion	12-0085.1	ADOAN - 2021-01-27 15:28:15 -- Please maintain Filterra according to manufacture specifications and provide a copy of the maintenance records.	01/27/2021	Yes	Manufactured Treatment Device	2	6/11/2021	Private
Bauer Compressors Expansion	12-0085.2	ADOAN - 2021-01-28 09:03:26 -- Maintain Catch chamber according to manufacturer specification and provide maintenance records.	01/27/2021	Yes	Manufactured Treatment Device	2	6/11/2021	Private
Bauer Compressors Expansion	12-0085.3	ADOAN - 2021-01-28 08:06:35 -- Maintain the underground chamber system according to manufacturer specifications and provide maintenance records.	01/27/2021	Yes	Manufactured Treatment Device	2	6/11/2021	Private
Bauer Compressors - Bldg 4 Expansion	15-0017.1	ADOAN - 2021-01-27 15:17:10 -- Remove accumulated sediment from gutter and asphalt area and around the inlet (stones) of the infiltration area. See photo documentation.	01/27/2021	Yes	Infiltration 1	2	6/11/2021	Private
BAE Systems Parking Lot Improvements	11-0072.1	ADOAN - 2021-02-03 08:46:25 -- Site Manager sent photos and maintenance logs. BMPs are good.	02/02/2021	No	Manufactured Treatment Device	0		Private
BAE Systems Parking Lot Improvements	11-0072.2	ADOAN - 2021-02-03 09:33:29 -- Site Manager sent photos and maintenance logs. BMPs are good.	02/02/2021	No	Manufactured BMP Systems	0		Private
BAE Systems Parking Lot Improvements	11-0072.3	ADOAN - 2021-02-03 09:33:40 -- Site Manager sent photos and maintenance logs. BMPs are good.	02/02/2021	No	Manufactured BMP Systems	0		Private
Ingliside Elementary School Gymnasium	11-0034.1	ADOAN - 2021-02-10 07:26:36 -- Remove accumulated sediment and trash in the outfall pipes. Clear dead vegetation and accumulated sediment from throughout the rocks. Stabilize the bare soil areas to prevent sediment from entering the basin.	02/04/2021	Yes	Detention Basin	1	2/17/2021	School
Forest Lawn Mausoleum	14-0045.1		02/04/2021	No	Detention Basin	0		Public
Virginia Paving Co.	99-4218.2	ADOAN - 2021-02-10 08:07:32 -- Remove overgrown woody vegetation. Clear vegetation and accumulated sediment around outfall. Must be able to see outfall. ; ADOAN - 2021-02-10 08:14:10 -- PM scheduled for March.	02/04/2021	Yes	Detention Basin	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Norfolk Public Schools Transportation Operations	T107.1	ADOAN - 2021-02-09 15:03:54 -- Remove accumulated sediment and trash. Cut back woody vegetation within the BMP. Cut back trees along the curb and gutter. Remove trash from the outfall grate. Repair eroded embankment. See photo documentation.	02/04/2021	Yes	Detention Basin	1	4/21/2021	School
Premium Outlets Boulevard	15-0043.1	ADOAN - 2021-02-08 14:27:16 -- All 4 Filterras need to be maintained according to manufacturer specifications. A tree is missing in one Filterra and all had accumulated sediment and trash.	02/05/2021	Yes	Manufactured Treatment Device	0		Public
Premium Outlets Boulevard	15-0043.2	ADOAN - 2021-02-08 14:53:18 -- 6 Filterras need to be maintained according to manufacturer specifications. All 6 Filterras contained trash and accumulated sediment. Some trees were missing and others needed to be trimmed. One Filterra was completely filled with water (checked).	02/05/2021	Yes	Manufactured Treatment Device	0		Public
Norfolk Premium Outlets	15-0045.1	ADOAN - 2021-02-12 07:07:13 -- Maintain overgrown vegetation along the banks of the wet pond. The aerator was not working. Clear all outfalls so they are visible.; ADOAN - 2021-04-26 13:14:12 -- WO procured. Extension given until 6/25/21.	02/05/2021	Yes	Wet Pond 1	1	6/10/2021	Private
Norfolk Premium Outlets	15-0045.2	ADOAN - 2021-02-12 07:16:39 -- Maintain overgrown vegetation along the banks of the wet pond. Make sure all outfalls are cleared and visible.; ADOAN - 2021-04-26 13:15:58 -- WO procured. Extension given until 6/25/21.	02/05/2021	Yes	Wet Pond 1	1	6/10/2021	Private
Norfolk Premium Outlets	15-0045.3	ADOAN - 2021-02-12 07:10:23 -- Maintain overgrown vegetation along the banks of the wet pond. Make sure that all outfalls are cleared and visible.; ADOAN - 2021-04-26 13:15:01 -- WO procured. Extension until 6/25/21.	02/05/2021	Yes	Wet Pond 1	1	6/10/2021	Private
Kennebecck Ave Azalea Garden Rd Drainage	16-0060.1	ADOAN - 2021-02-08 07:32:02 -- First inspection since installation in 2018. Remove accumulated trash and sediment from the three units.	02/05/2021	Yes	Manufactured Treatment Device	1	2/12/2021	Public
Norfolk Premium Outlets	15-0045.4	ADOAN - 2021-02-11 12:04:57 -- Remove overgrown vegetation in the bio retention area. Make sure outfalls are cleaned and visible.	02/08/2021	Yes	Bioretention 2	1	4/22/2021	Public
IKEA	17-0014.2	ADOAN - 2021-02-19 08:44:57 -- Maintain the stormchamber system according to manufacturer specifications. Some ports had trash and sediment, and one had gravel present. The outfall had some visible erosion due to roof drains. Repair area with some stones to dissipate the water as it leaves the roof drain. There were also areas of cave in around the outfall that need repair.	02/08/2021	Yes	Manufactured Treatment Device	1	4/26/2021	Private
Street Improvements - Ernies Way	06-0107.1	ADOAN - 2021-02-09 13:33:34 -- WO requested to remove accumulated sediment along curb and gutter and into the BMP. ADOAN - 2021-02-09 13:41:32 -- PM is scheduled for 6/2021 and at that time plantings will be installed after initial clean up.	02/09/2021	Yes	Bioretention Basins	1	5/3/2021	Public
Street Improvements - Ernies Way	06-0107.2	ADOAN - 2021-02-09 13:39:01 -- WO requested to remove accumulated sediment along curb and gutter, the curb cut, and the ditch. Ditch has filled in considerably. PM is scheduled for 6/2021 and will request that the check dam be reinstalled after initial clean up.	02/09/2021	Yes	Grass Channel	1	5/3/2021	Public
Checkered Flag Honda Expansion	17-0039.1	ADOAN - 2021-02-10 08:44:17 -- Remove debris and trash from CDS unit. Maintain according to manufacturer specifications. Provide maintenance records.	02/09/2021	Yes	Manufactured Treatment Device	1	3/11/2021	Private
Checkered Flag Honda Expansion	17-0039.2	ADOAN - 2021-02-10 08:49:05 -- Maintain LUG detention system according to manufacturer specifications. Please provide maintenance records.	02/09/2021	Yes	Manufactured Treatment Device	1	3/11/2021	Private
Bay Disposal	02-0012.1	ADOAN - 2021-02-11 09:18:50 -- The BMP is heavily overgrown. Outfall pipe could not be seen. Remove woody vegetation along the embankment and throughout the BMP. Remove accumulated sediment throughout the BMP. The outfall needs to be cleared and visible.	02/10/2021	Yes	Extended Detention Basin	1	6/8/2021	Private
ARTFX Building Addition	17-0073.1	ADOAN - 2021-04-28 07:07:20 -- Met with Operations Manager and discussed what needs to be done. Gave a 30 day extension. ADOAN - 2021-05-18 14:49:14 -- Met with Ron and JR to discuss status of BMP. They just procured a contract and will begin work within the week. Gave a 30 day extension.	02/10/2021	No	Bioretention 1	0		Private
ARTFX Building Addition	17-0073.2	ADOAN - 2021-02-19 09:27:48 -- Bio-retention in excellent condition. Trash has been removed and addition riprap placed.	02/10/2021	No	Wet Swale 1	0		Private
ARTFX Building Addition	17-0073.3	ADOAN - 2021-02-19 09:18:23 -- 1st inspection after construction. Bio-retention has been maintained. Sod has been placed on eroded areas and trash and debris have been removed from the outfalls.	02/10/2021	No	Bioretention 1	0		Private
Allied Systems	T178.1	ADOAN - 2021-02-11 08:16:46 -- BMP well maintained.	02/10/2021	No	Extended Detention Basin	0		Private
Social Security Building	06-0016.1	ADOAN - 2021-02-16 10:30:05 -- Remove trash, leaf debris, and overgrown woody vegetation. Rocks around outfalls need to be visible and free of sediment and debris. Note that Landscapers have been blowing the leaf debris into the basin. This continued practice will choke the BMP and its functionality will be diminished. Leaf debris should be removed off site.	02/11/2021	Yes	Infiltration Practices	2	6/4/2021	Private
La Quinta Hotel	06-0030.1	ADOAN - 2021-02-17 14:20:42 -- Remove accumulated sediment from the inlet and refresh stones. Remove trash from the outfall area. Remove the fire pit that has been built inside the basin.	02/11/2021	Yes	Detention Basin	1	3/19/2021	Private
John's Brothers Inc. Parking Lot and Wash Building	BROTHERS.1	ADOAN - 2021-02-16 10:56:55 -- Keep an eye on cars are parked and tire tracks visible along the swale.	02/11/2021	No	Grass Channel	0		Private
Lake Taylor Hospital additions	09-0033.1	ADOAN - 2021-02-12 13:34:36 -- BMP well maintained.	02/12/2021	No	Wet Pond	0		Private
Lake Taylor Hospital additions	09-0033.2	ADOAN - 2021-02-12 13:36:20 -- BMP well maintained.	02/12/2021	No	Detention Basin	0		Private
GE Mobile	10-0045.1	ADOAN - 2021-02-17 14:58:01 -- Received an email from the site and they do not discharge into the city stormdrain other than rain water. All onsite water other than rain water is treated and discharged to sanitary or HRSD.	02/12/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
Lake Taylor Hospital Parking Lot Addition	11-0007.1	ADOAN - 2021-02-12 13:46:17 -- Remove leaf debris and sediment clogging the parking lot inlet grates. Remove accumulated sediment from the inlets. Inspection was conducted during a rain event and the parking lot in the area of the drains was holding a significant amount of water.	02/12/2021	Yes	Extended Detention Basin	2	5/14/2021	Private
Lowery Road Pedestrian Improvements	15-0028.1	ADOAN - 2021-02-16 09:35:16 -- Maintain Filterra according to manufacturer specifications. Remove trash, leaf debris, and replace tree that is missing. WO requested.	02/12/2021	Yes	Manufactured Treatment Device	1	4/15/2021	Public
Lowery Road Pedestrian Improvements	15-0028.2	ADOAN - 2021-02-16 09:46:48 -- Maintain Filterra according to manufacturer specifications. Remove trash and sediment. PM scheduled for 4/2021.	02/12/2021	Yes	Manufactured Treatment Device	1	4/15/2021	Public
Home Depot, Broad Creek Crossing	T548.1	ADOAN - 2021-02-12 12:38:51 -- BMP well maintained.	02/12/2021	No	Wet Pond	0		Private
Savannah Suites	04-0111.1	ADOAN - 2021-02-18 11:29:42 -- Maintain Filterra according to the manufacturer specifications. Please provide maintenance records.	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Savannah Suites	04-0111.2	ADOAN - 2021-02-18 11:33:38 -- Maintain Filterra according to the manufacturer specifications. Please provide maintenance records.	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Savannah Suites	04-0111.3	ADOAN - 2021-02-18 11:35:45 -- Maintain Filterra according to the manufacturer specifications. Please provide maintenance records.	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Savannah Suites	04-0111.4	ADOAN - 2021-02-18 11:38:01 -- Maintain Filterra according to the manufacturer specifications. Please provide maintenance records.	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Savannah Suites	04-0111.5	ADOAN - 2021-02-18 11:40:02 -- Remove accumulated sediment and trash from outfalls and basin.	02/16/2021	Yes	Detention Basin	0		Private
Water's Edge	05-0113.1	ADOAN - 2021-02-18 10:27:36 -- Maintain BMP. Several trees are missing as noted on the approved plan.	02/16/2021	Yes	Bioretention	1	4/19/2021	Private
Water's Edge	05-0113.2	ADOAN - 2021-02-18 10:33:53 -- Maintain BMP. Make sure the outfall is clear of sediment and vegetation so it is visible for inspection. Make sure the cleanout ports are free of debris. Remove accumulated sediment and debris from the parking area to allow water to flow.	02/16/2021	Yes	Bioretention	1	4/19/2021	Private
Water's Edge	05-0113.3	ADOAN - 2021-02-18 10:43:50 -- Maintain BMP. Make sure the outfall is clear of sediment and vegetation so it is visible for inspection. Make sure the cleanout ports are free of debris. Remove accumulated sediment and debris from the parking area to allow water to flow.	02/16/2021	Yes	Bioretention	1	4/19/2021	Private
Police Training Center Track	06-0071.1	ADOAN - 2021-02-18 15:05:23 -- Grass swales are maintained.	02/16/2021	No	Grass Channel	0		Public
Police Training Center Track	06-0071.2	ADOAN - 2021-02-18 15:02:13 -- Remove phragmites from basin sides and bottom.; ADOAN - 2021-02-19 07:26:54 -- PM scheduled for June. Will re-inspect then.	02/16/2021	Yes	Extended Detention Basin	1	6/4/2021	Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Cornick Place Condominiums	06-0086.1	ADOAN - 2021-02-18 14:24:17 -- BMP well maintained.	02/16/2021	No	Detention Basin	0		Private
Cornick Place Condominiums	06-0086.2	ADOAN - 2021-02-18 14:27:19 -- BMP well maintained.	02/16/2021	No	Detention Basin	0		Private
Cornick Place Condominiums	06-0086.3	ADOAN - 2021-02-18 14:03:58 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: tree is too large for Filtrra.	02/16/2021	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Cornick Place Condominiums	06-0086.4	ADOAN - 2021-02-18 14:06:55 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: tree is too large for Filtrra.	02/16/2021	Yes	Manufactured Treatment Device	1	4/19/2021	Private
Cornick Place Condominiums	06-0086.5	ADOAN - 2021-02-18 14:25:49 -- BMP well maintained.	02/16/2021	No	Grass Channel	0		Private
Cornick Place Condominiums	06-0086.6	ADOAN - 2021-02-18 14:28:52 -- BMP well maintained.	02/16/2021	No	Grass Channel	0		Private
Candlewood Suites	07-0098.1	ADOAN - 2021-02-18 12:47:25 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:23:22 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.2	ADOAN - 2021-02-18 12:50:48 -- Maintain Filtrra according to manufactura specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:24:15 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.3	ADOAN - 2021-02-18 12:52:41 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:24:25 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.4	ADOAN - 2021-02-18 12:55:54 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:24:35 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.5	ADOAN - 2021-02-18 13:00:36 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:24:43 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.6	ADOAN - 2021-02-18 13:02:18 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:24:54 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.7	ADOAN - 2021-02-18 13:05:37 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:25:06 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.8	ADOAN - 2021-02-18 13:09:11 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:25:15 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
Candlewood Suites	07-0098.9	ADOAN - 2021-02-18 13:16:38 -- Maintain Filtrra according to manufacturer specifications. Please provide maintenance records. Note: trees are too large fir the Filtrra and they are encroaching into the steel grates. ; ADOAN - 2021-06-29 11:25:26 -- 6/28/2021 Filtrra trees have been removed. Waiting on timeframe of replanting trees.;	02/16/2021	Yes	Manufactured Treatment Device	0		Private
NPD 2nd Precinct Training Center	1276.1	ADOAN - 2021-02-18 15:19:27 -- The outfall pipe located at northwest corner of the pond is damaged and needs repair. Remove overgrown vegetation from outfalls. ;	02/16/2021	Yes	Wet Pond	1	5/5/2021	Public
Calvary Presbyterian	03-317.1	ADOAN - 2021-02-19 08:10:16 -- Remove Conex boxes from on top of the infiltration swale. ;	02/17/2021	Yes	Grass Channel	0		Private
Norfolk Police Department Firearms Range	07-0009.1	ADOAN - 2021-02-19 07:11:11 -- BMP in good condition.	02/17/2021	No	Infiltration Practices	0		Public
Single Family Condominium	07-0062.1	ADOAN - 2021-02-18 07:56:21 -- BMP in good condition.	02/17/2021	No	Infiltration Practices	0		Private
Cook Out Restaurant	12-0003.1	ADOAN - 2021-02-19 08:19:46 -- Maintain Filtrra according to manufacturer specifications. Remove accumulated sediment from gutter near Filtrra. Please provide maintenance records.	02/17/2021	Yes	Manufactured Treatment Device	1	4/22/2021	Private
Jehovah's Witnesses Parking Lot Improvements	14-0097.1	ADOAN - 2021-02-17 15:25:41 -- BMP is well maintained. ;	02/17/2021	No	Grass Channel	0		Private
Jehovah's Witnesses Parking Lot Improvements	14-0097.2	ADOAN - 2021-02-17 15:27:21 -- BMP is well maintained. ;	02/17/2021	No	Grass Channel	0		Private
Metro Towing Company, Inc.	14-0094.1	ADOAN - 2021-02-17 15:14:19 -- BMP appears to be in good condition. The site is a towing company and towed cars are parked on the BMP with a few areas of staining. ;	02/17/2021	No	Permeable Pavement 1	0		Private
Saesoon Presb. Church	1119.1	ADOAN - 2021-02-18 07:13:29 -- BMP is maintained.	02/17/2021	No	Detention Basin	0		Private
Saesoon Presb. Church	1119.2	ADOAN - 2021-02-18 07:11:19 -- BMP is maintained.	02/17/2021	No	Detention Basin	0		Private
Elm Court Development	1153.1	ADOAN - 2021-05-26 07:18:27 -- 915 and 911 Elm Court maintain BMP.	02/17/2021	No	Detention Basin	0		Private
Elm Court Development	1153.2	ADOAN - 2021-05-21 07:40:50 -- BMP in good condition. standing water, but it had rained for several days. ;	02/17/2021	No	Infiltration Practices	0		Public
Savannah Suites	04-0111.6	ADOAN - 2021-02-18 12:22:58 -- Maintain the U/G Nylogast storage system according to manufacturer specifications. Please provide maintenance records. ;	02/18/2021	Yes	Manufactured Treatment Device	0		Private
9560 10th Bay St-Duplex	18-0025.1	ADOAN - 2021-02-22 13:18:37 -- Initial Inspection after CO obtained on 2/11/2021. BMP in excellent condition. ;	02/22/2021	No	Infiltration 1	0		Private
Lamberts Point Townhouses	10-0091.1	ADOAN - 2021-02-23 14:47:53 -- BMP is maintained.	02/23/2021	No	Permeable Pavement	0		Private
Lamberts Point Townhouses	10-0091.2	ADOAN - 2021-02-23 15:03:03 -- Filtrra will be put on a PM schedule for October.	02/23/2021	No	Manufactured Treatment Device	0		Public
5764 E Virginia Beach Blvd-Discount Tire	18-0080.1	ADOAN - 2021-02-24 09:07:47 -- Remove trash and debris from the concrete wet pond and around the outfall. ;	02/23/2021	Yes	Wet Pond 1	0	4/23/2021	Private
5764 E Virginia Beach Blvd-Discount Tire	18-0080.2	ADOAN - 2021-02-24 09:12:51 -- Remove trash from curb inlet outfall. Maintain CDS unit according to manufacturer specifications. Please provide maintenance records for the unit. ;	02/23/2021	Yes	Manufactured Treatment Device	1	4/23/2021	Private
Applebee's - Janaf Shopping Center	1764.1	ADOAN - 2021-02-24 09:44:13 -- BMP needs to be maintained. Remove trash and debris from inside and around embankment of BMP. Remove accumulated sediment and leaf litter from curb inlet. Remove overgrown vegetation from around outfalls and inside the entire BMP.	02/23/2021	Yes	Detention Basin	2	6/4/2021	Private
Pizzeria Uno	1770.1	ADOAN - 2021-02-24 10:19:45 -- Cut back vegetation and remove trash throughout the detention basin. Clear areas around outfall. ;	02/23/2021	Yes	Wet Pond	1	4/6/2021	Private
Calvary Presbyterian Church	06-0091.1	ADOAN - 2021-02-24 07:16:08 -- BMP in good condition and maintained.	02/24/2021	No	Grass Channel	0		Private
IKEA	17-0014.1	ADOAN - 2021-02-26 14:12:21 -- Maintain the underground stormchamber system according to the manufacturer specifications. Remove accumulated sediment and trash from the system. The outfall appears to be in good condition. ;	02/26/2021	Yes	Manufactured Treatment Device	1	4/26/2021	Private
River Oaks Office Addition	03-163.1	ADOAN - 2021-03-02 14:25:36 -- Remove accumulated sediment and leaf litter at the end of the concrete culvert. Clear debris from stone filter bed and refresh stones. ;	03/02/2021	Yes	Grass Channel	1	4/28/2021	Private
Retail Shops	03-316.1	ADOAN - 2021-03-02 13:53:55 -- The Contech stormfilter needs to be maintained. Please provide maintenance and forward results. Repair the sink hole in the swale at end of building. Remove accumulated sediment from swale and along the asphalt edge of the road to get the standing water to flow into the swale. ;	03/02/2021	Yes	Manufactured Treatment Device	1	4/12/2021	Private
Lowe's	99-4257.1	ADOAN - 2021-03-03 12:50:51 -- Remove overgrown vegetation, trash, and sediment from the concrete culvert. Cutback overgrown vegetation, remove trash, and accumulated sediment at the outfalls of the wet pond. Remove any accumulated sediment along the gutters and curb inlets in the parking lot leading to the pond. ;	03/02/2021	Yes	Wet Pond	1	5/3/2021	Private
Ted Lanning Corporation	1210.1	ADOAN - 2021-03-02 13:32:10 -- BMP well maintained.	03/02/2021	No	Detention Basin	0		Private
Electrical Equipment Company	1214.1	ADOAN - 2021-03-02 14:44:16 -- Remove accumulated sediment from curb cut. Repair eroded area at the curb cut leading into the retention basin. ;	03/02/2021	Yes	Wet Pond	0	5/3/2021	Private
Norfolk Tent Company	1729.1	ADOAN - 2021-03-02 13:41:18 -- Remove sediment in pipe and at outfall. ;	03/02/2021	Yes	Detention Basin	2	6/2/2021	Private
Autumn Care	1723.1	ADOAN - 2021-03-02 14:12:29 -- Remove accumulated trash, leaf litter, and sediment from the curb gutter, curb inlet and the outfall into the detention basin. ;	03/02/2021	Yes	Detention Basin	1	4/28/2021	Private
US General Services Admin	11-0014.1	ADOAN - 2021-03-04 08:41:47 -- BMP maintained. No trash visible. ;	03/03/2021	No	Extended Detention Basin	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Popular Hall Trail	16-0049.1	ADOAN - 2021-03-04 08:25:22 -- BMP well maintained.	03/03/2021	No	Compost Amendment	0		Public
Fairlawn Recreation Center Addition	T414.1	ADOAN - 2021-03-04 09:00:03 -- PM scheduled for 6/2021. Remove overgrown phragmites and cattails.	03/03/2021	Yes	Detention Basin	1	6/28/2021	Public
Moores Bridges WTP Chemical Feed System	17-0090.1	ADOAN - 2021-03-08 08:56:53 -- The hydrodynamic separator needs to be cleaned and maintained. The seal around the lid needs repair. Please provide maintenance records.	03/04/2021	Yes	Manufactured Treatment Device	1	4/8/2021	Public
Moores Bridges WTP Chemical Feed System	17-0090.2	ADOAN - 2021-03-08 08:13:18 -- The BMP is heavily overgrown. Cut back woody vegetation and phragmites. At the time of the inspection it was noted that a white slurry substance (later determined to be Lime slurry) was present in at least three drainage inlets and at the mouth of the detention basin. This material needs to be removed immediately.	03/04/2021	Yes	Detention Basin	1	4/8/2021	Public
Safe Place Mini Storage	T333.1	ADOAN - 2021-03-09 13:57:52 -- BMP well maintained.	03/04/2021	No	Infiltration Practices	0		Private
Dale's Train Station	T425	ADOAN - 2021-03-09 07:59:13 -- BMP well maintained.	03/04/2021	No	Detention Basin	0		Private
St. Mary's Home for Disabled Children	01-0203.1	ADOAN - 2021-03-16 11:17:05 -- Maintain overgrown vegetation and remove trash throughout the pond. Remove trash from curb inlet located in parking lot leading to pond.	03/05/2021	Yes	Wet Pond	1	3/18/2021	Private
Strip Mall - JANAF	T379.1	ADOAN - 2021-03-08 10:20:25 -- Remove accumulated sediment from gutter/curb along the detention basin. Remove trash and tree debris from the embankment and throughout the basin.	03/05/2021	Yes	Detention Basin	1	5/18/2021	Private
East Coast Brake Rebuilders	T447.1	ADOAN - 2021-03-08 09:22:34 -- BMP maintained.	03/05/2021	No	Detention Basin	0		Private
L. Fisherman & Son Inc. Flooring Installation	T449.1	ADOAN - 2021-03-05 14:43:03 -- Swale is mowed and maintained.	03/05/2021	No	Grass Channel	0		Private
Beekman Street & Cape Henry Avenue	T527.1	ADOAN - 2021-03-05 14:35:02 -- BMP is well maintained. Grass mowed and maintained.	03/05/2021	No	Infiltration Practices	0		Private
Kramer Tire	T577.1	ADOAN - 2021-03-08 11:16:44 -- Remove accumulated sediment from the gutter/curb cuts along the basin. Remove piles of dirt that were placed in the basin along the curb cuts. Dirt from cleaning the gutter and curb cuts cannot be placed back into the basin. Remove any obstruction from the four PVC outfall pipes.	03/05/2021	Yes	Detention Basin	1	4/21/2021	Private
Amelia Building at Koger Center	T591.1	ADOAN - 2021-03-05 14:53:06 -- BMP maintained. Water clear and no trash.	03/05/2021	No	Wet Pond	0		Private
Cox Communications	T747.1	CLVANLE - 2021-03-08 11:11:54 -- Underground Infiltration Trench (DI in parking lot) - small amount of sediment in DI, approximately less than 1" monitor during next inspection. No standing water present, appears to be functioning adequately.	03/05/2021	No	Infiltration Practices	0		Private
Popeye's Chicken and Biscuits	T766.1	ADOAN - 2021-03-08 09:57:11 -- Remove accumulated sediment and trash at inlet and throughout detention basin.	03/05/2021	Yes	Detention Basin	1	6/16/2021	Private
Valley Self Storage	13-0010.1	ADOAN - 2021-03-10 07:29:02 -- Remove overgrown vegetation throughout the basin. Remove inlet protection on drop inlets. Repair cave in at drop inlet nearest the detention basin. Re-establish rocks at the rain gutter, disconnect to reduce erosion.	03/08/2021	Yes	Detention Basin	2	6/4/2021	Private
7-Eleven	13-0031.1	ADOAN - 2021-03-10 09:30:38 -- Maintain correct hydrodynamic separator unit according to manufacturer specifications. Please provide maintenance records. - ADOAN - 2021-05-18 14:51:49 -- Spoke with manager on 5/18/21. She said the work was done and she will send a copy of the invoice.	03/08/2021	Yes	Manufactured Treatment Device	1	6/9/2021	Private
Booker T. Washington High School & Lake Taylor H	T315.1	ADOAN - 2021-03-11 09:05:59 -- Maintain stormceptor according to manufacturer specifications. Please provide maintenance records.	03/08/2021	Yes	Manufactured Treatment Device	0		School
CVS E Va Bch Blvd. and Newton	10-0071.1	ADOAN - 2021-03-10 11:42:33 -- Remove accumulated sediment and trash from gutter and filters. Maintain Filters according to manufacturer specifications. Please provide a copy if the maintenance records.	03/09/2021	Yes	Manufactured Treatment Device	1	5/3/2021	Private
Pointe at Pickett Farm	12-0063.1	ADOAN - 2021-03-09 13:51:25 -- BMP well maintained.	03/09/2021	No	Wet Pond	0		Private
Norfolk Juvenile Detention Center Pond	14-0079.1	ADOAN - 2021-03-09 13:12:46 -- BMP is well maintained.	03/09/2021	No	Wet Pond 1	0		Public
East Coast Appliance	16-0030.1	ADOAN - 2021-03-09 13:46:46 -- BMP well maintained.	03/09/2021	No	Permeable Pavement 1	0		Private
Valley Self Storage Additional Buildings	17-0012.1	ADOAN - 2021-03-09 14:21:58 -- BMP well maintained.	03/09/2021	No	Infiltration Practices	0		Private
Valley Self Storage Additional Buildings	17-0012.2	ADOAN - 2021-03-09 14:23:34 -- BMP well maintained.	03/09/2021	No	Infiltration Practices	0		Private
Apple Retail Properties	17-0030.1	ADOAN - 2021-03-10 10:18:13 -- BMP in good condition. Maintained.	03/09/2021	No	Wet Pond 1	0		Private
Riverside Commerce Center I	T719.1	CLVANLE - 2021-03-09 14:34:00 -- Please remove trash from basin sides and properly dispose of trash.; CLVANLE - 2021-03-12 14:34:55 -- Please address structural deficiency of outlet control structure that is leaning towards BMP.	03/09/2021	Yes	Wet Pond	0		Private
Glad Tidings Church	T731.1	CLVANLE - 2021-03-15 14:17:12 -- Please remove accumulated sediment/leaf debris from drop inlets on swale. Reattach and secure drop inlet logs.	03/09/2021	Yes	Infiltration Practices	1	6/23/2021	Private
Excel Paving Corporation	T770.1	ADOAN - 2021-03-09 13:59:49 -- BMP is maintained. No trash visible.	03/09/2021	No	Detention Basin	0		Private
Triewater Gymnastics Parking Lot	T1-0056.1	ADOAN - 2021-03-10 14:52:04 -- BMP maintained.	03/10/2021	No	Infiltration Practices	0		Private
Booker T. Washington High School & Lake Taylor H	T315.2	ADOAN - 2021-03-11 09:10:48 -- Maintain stormceptor according to manufacturer specifications. Please provide maintenance records.	03/10/2021	Yes	Manufactured Treatment Device	1	5/20/2021	Private
Costco Gas Station	T644	ADOAN - 2021-03-11 08:22:19 -- Remove accumulated sediment and trash at the inlet. Maintain unit according to manufacturer specifications. Please provide maintenance records.	03/10/2021	Yes	Manufactured Treatment Device	1	5/20/2021	Private
Target Expansion	07-0103.1	CLVANLE - 2021-03-11 14:00:39 -- Please maintain Filters per manufacturers specifications and provide maintenance records. Please remove accumulated sediment from inlet. Please remove any trash or debris.	03/11/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
Target Expansion	07-0103.2	CLVANLE - 2021-03-11 13:53:33 -- Please maintain Filters per manufacturers specifications and provide maintenance records. Please remove accumulated sediment from inlet. Please remove any trash or debris.	03/11/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
Laundromat	07-0110.1	ADOAN - 2021-03-11 13:51:20 -- BMP well maintained.	03/11/2021	No	Detention Basin	0		Private
Laundromat	07-0110.2	ADOAN - 2021-03-11 13:53:08 -- BMP is maintained. Grass is mowed and no trash visible.	03/11/2021	No	Detention Basin	0		Private
United Disposal	12-0081.1	ADOAN - 2021-03-11 14:39:03 -- Maintenance required. Please provide maintenance records. Spoke with Scott Sprull, and stated he maintains the BMP monthly. High traffic area, hard to maintain. He is working with DEQ to come up with a better solution.	03/11/2021	Yes	Manufactured Treatment Device	0		Private
Norfolk Academy Football Field	15-0044.1	ADOAN - 2021-03-12 08:17:59 -- BMP well maintained.	03/11/2021	No	Permeable Pavement 1	0		Private
Norfolk Academy Football Field	15-0044.2	ADOAN - 2021-03-12 09:17:44 -- BMP well maintained.	03/11/2021	No	Infiltration 1	0		Private
Norfolk Academy Football Stadium	15-0059.1	ADOAN - 2021-03-11 14:24:34 -- Urban bio-retention well maintained.	03/11/2021	No	Bioretention - Urban	0		Private
Norfolk Academy Football Stadium	15-0059.2	ADOAN - 2021-03-11 14:26:49 -- permeable pavement well maintained.	03/11/2021	No	Permeable Pavement 1	0		Private
Norfolk Academy Football Stadium	15-0059.3	ADOAN - 2021-03-11 14:29:35 -- grass swale well maintained.	03/11/2021	No	Grass Channel	0		Private
Norfolk Academy Football Stadium	15-0059.4	ADOAN - 2021-03-11 14:31:21 -- Compost amended soils well maintained.	03/11/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
20 Riverside Building, Canby & Drive Aisle	16-0066.1	ADOAN - 2021-03-11 14:17:54 -- Permeable pavement well maintained.	03/11/2021	No	Permeable Pavement	0		Private
Glenrock SFR	T173.1	ADOAN - 2021-03-11 14:07:06 -- Swales are well maintained.	03/11/2021	No	Other Retrofit, Runoff Reduction	0		Private
Shiloh Baptist Church Parking Lot	T173.1	CLVANLE - 2021-03-15 13:24:59 -- Please remove accumulated sediment from curb cuts.; CLVANLE - 2021-03-15 13:26:54 -- Please remove leaf debris from basin bottom and provide adequate stabilization for denuded areas.	03/11/2021	Yes	Detention Basin	1	6/15/2021	Private
Shiloh Baptist Church Parking Lot	T173.2	CLVANLE - 2021-03-15 13:30:37 -- Please remove accumulated sediment from curb cuts.	03/11/2021	Yes	Detention Basin	1	6/15/2021	Private
Shiloh Baptist Church Parking Lot	T173.3	CLVANLE - 2021-03-15 13:03:55 -- Please remove accumulated sediment from curb cuts.Please provide stabilization to denuded areas on basin bottom.	03/11/2021	Yes	Detention Basin	1	6/15/2021	Private
Shiloh Baptist Church Parking Lot	T173.4	CLVANLE - 2021-03-15 13:16:50 -- Please remove accumulated sediment and leaf debris from curb cuts.	03/11/2021	Yes	Detention Basin	1	6/15/2021	Private
Shiloh Baptist Church Parking Lot	T173.5	CLVANLE - 2021-03-15 12:02:03 -- Please remove accumulated sediment and vegetation from concrete flume.Remove accumulated sediment from curb cut inlets.Remove leaf debris from outlet pipe in BMP.Remove steel grate from outlet pipe in BMP that poses a safety risk.	03/11/2021	Yes	Detention Basin	1	6/15/2021	Private
Target Store	T286.1	CLVANLE - 2021-03-11 13:22:16 -- Remove litter and debris on banks of BMP. Remove what appears to be a tarp near the northernmost inlet.	03/11/2021	Yes	Wet Pond	1	5/11/2021	Private
Signature Printing	T317.1	ADOAN - 2021-03-11 13:45:57 -- BMP ok.	03/11/2021	No	Infiltration Practices	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Multi-Family Housing Unit	08-0023.1	ADOAN - 2021-03-15 14:29:33 -- BMP maintained. Grass mowed and no trash.	03/15/2021	No	Bioretention	0		Private
Multi-Family Housing Unit	08-0023.2	ADOAN - 2021-03-15 14:30:07 -- BMP maintained. Grass mowed and no trash.	03/15/2021	No	Grass Channel	0		Private
Pilgrino Independent Baptist Church	09-0065.1	ADOAN - 2021-03-15 13:21:34 -- Grass swale maintained.	03/15/2021	No	Grass Channel	0		Private
Pilgrino Independent Baptist Church	09-0065.2	ADOAN - 2021-03-15 13:23:33 -- BMP maintained.	03/15/2021	No	Infiltration Practices	0		Private
New Horizon Outreach Ministries	16-0066.1	ADOAN - 2021-03-15 12:50:00 -- BMP well maintained. Grass mowed, no standing water, and no trash visible.	03/15/2021	No	Compost Amendment	0		Private
U-Haul Center	17-0081.1	ADOAN - 2021-03-16 10:04:07 -- Rain gutter disconnection needed. Downspouts need to be re-connected to the infiltration system.	03/15/2021	Yes	Infiltration Practices	0	5/17/2021	Private
Todd Marine Electrical Supply	17660.1	ADOAN - 2021-03-15 14:31:10 -- BMP maintained. Grass mowed and no trash.	03/15/2021	No	Detention Basin	0		Private
Todd Marine Electrical Supply	17660.2	ADOAN - 2021-03-15 14:31:44 -- BMP maintained. grass mowed and no trash.	03/15/2021	No	Detention Basin	0		Private
Todd Marine Electrical Supply	17660.3	ADOAN - 2021-03-15 14:32:11 -- BMP maintained. Grass mowed and no trash.	03/15/2021	No	Detention Basin	0		Private
FBI Building - Riverside Corporate Center	1791.1	CLVANLE - 2021-03-17 14:11:20 -- Basin appears to be well maintained. Monitor sediment accumulation on basin bottom next inspection.	03/17/2021	No	Detention Basin	0		Private
FBI Building - Riverside Corporate Center	1791.2	CLVANLE - 2021-03-17 14:22:23 -- Rework rip rap near inlet and remove accumulated sediment. ; CLVANLE - 2021-03-17 14:32:27 -- Collar is broken and will require replacement in the future.	03/17/2021	Yes	Wet Pond	0		Private
Willoughby Bluff Condos	17643.1	MW/HITE02 - 2021-03-23 15:07:59 -- No issues, all of the trenches are functioning. They are all under landscaping.	03/23/2021	No	Infiltration Practices	0		Private
Calix Pizza	1676.1	MW/HITE02 - 2021-03-23 14:32:42 -- Please stabilize the swale. Please re-install check dams on either end of the swale per the plan. Please consider moving the grease trap away from the swale so that leakage does not impact the BMP. Please remove trash.	03/23/2021	Yes	Grass Channel	2	6/8/2021	Private
Piedmont Hawthorne Aviation Hanger	01-0111.1	ADOAN - 2021-03-25 09:23:53 -- Remove garden that has been installed in the BMP.	03/24/2021	Yes	Infiltration Practices	0	4/1/2021	Private
Piedmont Hawthorne Aviation Hanger	01-0111.3	ADOAN - 2021-03-25 09:31:18 -- Trench drain and OWS in good condition. Maintenance records provided. Maintenance completed on 5/23/2020.	03/24/2021	No	Manufactured Treatment Device	0		Private
Piedmont Aviation Hanger - International Airport Landmark Aviation	17481.1	ADOAN - 2021-03-25 09:37:08 -- Remove noxious vegetation at the outfall.	03/24/2021	Yes	Extended Detention Basin	0	4/1/2021	Private
4605-4625 E PRINCESS ANNE STORMWATER RETROFIT	18-0103.1	ADOAN - 2021-03-25 08:41:40 -- BMP maintained. Grass mowed, no standing water, and no trash visible.	03/24/2021	No	Extended Detention Basin	0		Private
4605-4625 E PRINCESS ANNE STORMWATER RETROFIT	18-0103.2	ADOAN - 2021-03-26 11:47:45 -- Remove accumulated sediment from the concrete swales and gutter leading to the basin. Remove trash from throughout the basin.	03/25/2021	Yes	Other Retrofit- Runoff Reduction	1	4/27/2021	Public
4605-4625 E PRINCESS ANNE STORMWATER RETROFIT	18-0103.3	ADOAN - 2021-03-26 11:44:11 -- Remove trash from throughout the basin. Remove accumulated sediment from the concrete swales leading to the basin.	03/25/2021	Yes	Other Retrofit- Runoff Reduction	1	5/7/2021	Public
4605-4625 E PRINCESS ANNE STORMWATER RETROFIT	18-0103.3	ADOAN - 2021-03-26 11:20:01 -- Remove accumulated sediment from gutter and curb cuts. These areas should be free of sediment and debris so that water can flow with ease from parking area and gutter into the retention area.	03/25/2021	Yes	Other Retrofit- Runoff Reduction	1	4/23/2021	Private
Duplex Dudley Avenue - Lot "F"	1756.1	CLVANLE - 2021-03-25 13:12:38 -- Please remove leaf litter and tree debris from the BMP along 709.	03/25/2021	Yes	Infiltration Practices	1	5/25/2021	Private
BB&T	17616.1	CLVANLE - 2021-03-25 13:16:28 -- Please remove and dispose of properly the accumulated sediment and debris from drop inlet.	03/25/2021	Yes	Infiltration Practices	2	6/28/2021	Private
Contel Cellular Tower	17150.1	MW/HITE02 - 2021-03-31 13:56:07 -- Please remove litter and debris. Could not locate observation well.	03/31/2021	Yes	Infiltration Practices	1	6/2/2021	Public
Zap Tax	17257.1	MW/HITE02 - 2021-03-31 14:06:17 -- Please do not park vehicles on the BMP. Please refresh stone in BMP per the plan specifications. ; CLVANLE - 2021-05-26 07:20:51 -- Email from Mr. Walters on 5/25/2021 requesting additional time for work to be completed. Extended reinspection to 6/30/2021.	03/31/2021	Yes	Infiltration Practices	1	6/28/2021	Private
Cottage Place Subdivision	17341.1	CLVANLE - 2021-04-02 13:30:13 -- Infiltration basin with DI overflow structures at ends and curb-cut inlets.Please remove accumulated debris and sediment from curb cuts.	03/31/2021	Yes	Infiltration Practices	1	6/2/2021	Public
8570 Chesapeake Blvd. (18 unit apartments)	17275.1	MW/HITE02 - 2021-04-01 07:17:23 -- Please clear accumulated sediment and debris from the drop inlet structure in the parking lot that takes drainage to BMP.	04/01/2021	Yes	Infiltration Practices	1	6/2/2021	Private
8570 Chesapeake Blvd. (18 unit apartments)	17275.2	MW/HITE02 - 2021-04-01 07:19:46 -- Please clear accumulated sediment and debris from the drop inlet structure in the parking lot that takes drainage to BMP.	04/01/2021	Yes	Infiltration Practices	1	6/2/2021	Private
Mariner's Watch Apartments -Phase 1	17627.1	MW/HITE02 - 2021-04-01 07:39:22 -- Please clear accumulated sediment and debris from inlets and infiltration pipe.	04/01/2021	Yes	Infiltration Practices	1	6/2/2021	Private
Mariner's Watch Apartments -Phase 1	17627.2	MW/HITE02 - 2021-04-01 07:55:24 -- Please clear accumulated sediment and debris from inlets and infiltration pipe.	04/01/2021	Yes	Infiltration Practices	1	6/2/2021	Private
Mariner's Watch Apartments -Phase 1	17627.3	MW/HITE02 - 2021-04-01 07:56:30 -- Please clear accumulated sediment and debris from inlets and infiltration pipe.	04/01/2021	Yes	Infiltration Practices	1	6/2/2021	Private
Priestlow Library	05-0105.1	ADOAN - 2021-04-02 15:02:32 -- Remove accumulated sediment from gutters and curb cuts/culverts. Remove trash and leaf debris from inlets. One inlet near entrance of building was completely filled with trash and leaves. Repair cave-in along back side of building. ;	04/02/2021	Yes	Infiltration Practices	1	6/4/2021	Public
Beach Maintenance Blvd. NRHA	01067.030.1	ADOAN - 2021-04-02 13:10:11 -- BMP in good condition.	04/02/2021	No	Infiltration Practices	0		Public
Nash Warehouse	05-0165.1	ADOAN - 2021-04-09 11:03:46 -- Please provide maintenance records for the Bay Savers.	04/06/2021	Yes	Manufactured Treatment Device	1	6/7/2021	Private
Nash Warehouse	05-0165.2	ADOAN - 2021-04-09 11:04:21 -- Please provide maintenance records for the Bay Savers.	04/06/2021	Yes	Manufactured Treatment Device	1	6/7/2021	Private
Nash Warehouse	05-0165.3	ADOAN - 2021-04-09 10:58:36 -- Remove accumulated sediment from curb cuts and along parking area. Remove accumulated sediment from stones at curb cuts and refresh stones. Remove accumulated sediment leading to outfall and refresh with stone. ;	04/06/2021	Yes	Detention Basin	1	5/13/2021	Private
CON Small Brick Building	11-0044.1	ADOAN - 2021-04-09 08:26:05 -- BMP maintained.	04/06/2021	No	Infiltration Practices	0		Public
Carlton Homes LLC ROW Improvements	15-0001.1	ADOAN - 2021-04-09 10:07:35 -- BMP well maintained.	04/06/2021	No	Infiltration 1	0		Public
Carlton Homes LLC ROW Improvements	15-0001.2	ADOAN - 2021-04-09 10:09:03 -- BMP well maintained.	04/06/2021	No	Infiltration 1	0		Public
Carlton Homes LLC ROW Improvements	15-0001.3	ADOAN - 2021-04-09 10:12:58 -- Cutback overgrown vegetation throughout the BMP.	04/06/2021	Yes	Infiltration 1	1	6/17/2021	Public
Sunset Dr. at Chesapeake Blvd Drainage	15-0046.1	ADOAN - 2021-04-09 15:01:37 -- VVO requested for pump out.	04/06/2021	Yes	Manufactured Treatment Device	1	5/12/2021	Public
Sunset Dr. at Chesapeake Blvd Drainage	1505.1	ADOAN - 2021-04-09 08:03:42 -- Cut back overgrown vegetation. Remove accumulated sediment from curb cuts and gutter. Remove leaf debris from outfall pipes into drop inlet. ;	04/06/2021	Yes	Infiltration Practices	1	6/10/2021	Public
Bayview Estates Subdivision	00-4449.1	CLVANLE - 2021-04-07 11:15:59 -- Please remove accumulated sediment from the inlet and re-work the rip rap. Please remove debris from BMP and clear off the outlet control structure. Please address overgrown vegetation.	04/07/2021	Yes	Detention Basin	1	6/8/2021	Private
1009 W. Ocean View Duplex	17-0076.1	MW/HITE02 - 2021-04-07 15:15:07 -- Infiltration practices appear to be functioning. Observation wells are dry. Contractor is being contacted to clean out DIs and remove donuts.	04/07/2021	No	Infiltration Practices	0		Private
1009 W. Ocean View Duplex	17-0076.2	MW/HITE02 - 2021-04-07 15:16:31 -- Infiltration practices appear to be functioning. Observation wells are dry. Contractor is being contacted to clean out DIs and remove donuts.	04/07/2021	No	Infiltration Practices	0		Private
941 Hillside Ave Subdivision	18-0014.1	CLVANLE - 2021-04-07 11:04:11 -- BMPs appear to be well maintained. Spoke with homeowner.	04/07/2021	No	Bioretention 2	0		Private
941 Hillside Ave Subdivision	18-0014.2	CLVANLE - 2021-04-07 10:57:45 -- Overall looks to be functioning. Vegetation seems to be struggling in BMP 3.	04/07/2021	No	Bioretention 2	0		Private
941 Hillside Ave Subdivision	18-0014.3	CLVANLE - 2021-04-07 11:10:11 -- BMP appears well maintained.	04/07/2021	No	Bioretention 2	0		Private
941 Hillside Ave Subdivision	18-0014.4	CLVANLE - 2021-04-07 11:07:41 -- BMP appears well maintained. Grass being re-established in front of BMP after work in the ROW.	04/07/2021	No	Bioretention 2	0		Private
Pineview Station Apartments	18-0019.1	CLVANLE - 2021-04-07 10:53:55 -- CO issued in Oct., systems maintained prior to CO. Minor sediment accumulation but seems to be functioning.	04/07/2021	No	Manufactured Treatment Device	0		Private
Duplex	09-0040.1	MW/HITE02 - 2021-04-08 14:29:21 -- Infiltration area is dry. BMP behind 1505 E Ocean View Ave.	04/08/2021	No	Infiltration Practices	0		Private
Duplex	09-0040.2	MW/HITE02 - 2021-04-08 14:27:05 -- Infiltration area is dry. Behind 1505 E Ocean View Ave.	04/08/2021	No	Infiltration Practices	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Hammett Avenue BMP	12-0026.1	MV/HITE02 - 2021-04-08 15:33:21 -- Please cut any woody vegetation, remove trash and debris, cut grass, and ensure side slopes are stabilized.	04/08/2021	Yes	Detention Basin	1	6/8/2021	Private
Ocean View Avenue Duplex	13-0040.1	MV/HITE02 - 2021-04-08 15:14:23 -- Basin in front of 1400 A in between fence and W. Ocean View Ave. Detention Basin looks well maintained. Minor erosion around sewer line and minimal leaf debris in DI.	04/08/2021	No	Detention Basin	0		Private
Dollar General Store	15-0035.1	MV/HITE02 - 2021-04-08 14:43:24 -- Please maintain the Contech system according to the manufacturer's specifications and provide a copy of the maintenance record.	04/08/2021	Yes	Manufactured Treatment Device	0		Private
8802 Chesapeake Blvd - 3 SFR	17-0072.1	MV/HITE02 - 2021-04-08 08:09:07 -- BMP appears well maintained.	04/08/2021	No	Bioretention 2	0		Private
8802 Chesapeake Blvd - 3 SFR	17-0072.2	MV/HITE02 - 2021-04-08 08:06:58 -- Appears well maintained. Pipe around the observation well.	04/08/2021	No	Bioretention 2	0		Private
8802 Chesapeake Blvd - 3 SFR	17-0072.3	MV/HITE02 - 2021-04-08 08:07:35 -- Missing observation well. Please return BMP to design specs. MV/HITE02 - 2021-04-28 15:02:20 -- Resident uncovered observation well and sent an email. Re-inspected early.	04/08/2021	Yes	Bioretention 2	1	4/19/2021	Private
EVMS Ed. & Admin. Bldg	18-0006.1	ADOAN - 2021-04-12 08:58:11 -- Co issued. First after construction inspection. BMP excellent.	04/08/2021	No	Bioretention 1	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.1	MV/HITE02 - 2021-04-08 07:46:49 -- BMP well maintained.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.2	MV/HITE02 - 2021-04-08 07:43:04 -- BMP well maintained.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.3	MV/HITE02 - 2021-04-08 07:40:01 -- BMP appears to be in good working order.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.4	MV/HITE02 - 2021-04-08 07:28:40 -- BMP well maintained. Left homeowner a warning for grass clippings in gutter.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.5	MV/HITE02 - 2021-04-08 07:32:52 -- BMP is functioning. Homeowner complained about the depression in his yard.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1101 E Lilecester Avenue-3 lot SF subdivision	18-0029.6	MV/HITE02 - 2021-04-08 07:36:05 -- BMP functioning well. Spoke with homeowner.	04/08/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
First Church of God	07-0047.1	MV/HITE02 - 2021-04-09 10:30:22 -- Please remove accumulated sediment and debris from the concrete swale and inlet pipe. Please refresh rip rap.	04/09/2021	Yes	Infiltration Practices	1	6/28/2021	Private
First Church of God	07-0047.2	MV/HITE02 - 2021-04-09 10:35:10 -- Please remove accumulated sediment around the curb cut swale and refresh rip rap.	04/09/2021	Yes	Infiltration Practices	1	6/28/2021	Private
Broad Creek Villas	08-0042.1	MV/HITE02 - 2021-04-09 07:14:57 -- Please re-establish vegetation in the BMP. Please refresh the rip rap and clear accumulated sediment in and around the outfall.	04/09/2021	Yes	Extended Detention Basin	1	6/9/2021	Private
Broad Creek Villas	08-0042.2	MV/HITE02 - 2021-04-09 07:27:20 -- Please remove accumulated sediment in gutter and curb cuts. Please pick up any litter in the BMP. Please remove accumulated sediment and debris from drop inlet.	04/09/2021	Yes	Extended Detention Basin	1	6/9/2021	Private
Subdivision Plan for Bullock Park	11-0023.1	MV/HITE02 - 2021-04-09 08:32:19 -- Please maintain vegetation. Please remove litter and debris from BMP. Please remove accumulated sediment and refresh rip rap near the inlet pipe. Please remove debris and vegetation from the drop inlet.	04/09/2021	Yes	Extended Detention Basin	1	6/2/2021	Private
1855 Kingston Ave. Duplex	16-0097.1	MV/HITE02 - 2021-04-09 15:21:09 -- Appears to be functioning. Minimal debris in DI. Did observe water in observation well, but it was at least 4' down.	04/09/2021	No	Infiltration 2	0		Private
1855 Kingston Ave. Duplex	16-0097.2	MV/HITE02 - 2021-04-09 15:18:13 -- Observation well was dry, appeared to be functioning. Spoke to resident but could not access the other side due to locked gate they do not have a key to.	04/09/2021	No	Infiltration 1	0		Private
1718 EOY Duplex	18-0009.1	MV/HITE02 - 2021-04-09 10:12:15 -- Well maintained, no issues.	04/09/2021	No	Bioretention 2	0		Private
1718 EOY Duplex	18-0009.2	MV/HITE02 - 2021-04-09 10:12:55 -- Well maintained, no issues. Property owner wants to do some planting but plans to check in first.	04/09/2021	No	Detention Basin	0		Private
Duplex - 3 Story	01-0078.1	MV/HITE02 - 2021-04-12 14:54:37 -- 2 small infiltration basins, barely noticeable, well vegetated.	04/12/2021	No	Infiltration Practices	0		Private
Duplex	01-0165.1	MV/HITE02 - 2021-04-12 14:42:04 -- Observation wells were dry. Minor litter from next door seems to blow into it.	04/12/2021	No	Infiltration Practices	0		Private
Duplex	01-0165.2	MV/HITE02 - 2021-04-12 14:39:23 -- Observation wells were dry, appears to be functioning. Mini risen garden planted on top of BMP does not seem to impact.	04/12/2021	No	Infiltration Practices	0		Private
Duplex	03-139.1	MV/HITE02 - 2021-04-12 15:05:44 -- BMP is functioning, is maintained.	04/12/2021	No	Infiltration Practices	0		Private
Duplex	03-139.2	MV/HITE02 - 2021-04-12 15:06:38 -- BMP is functioning.	04/12/2021	No	Infiltration Practices	0		Private
Northside Middle School Parking Lot	07-0014.1	ADOAN - 2021-04-14 09:40:24 -- Remove trash and sediment from overflow inlet. Stabilize slope on the upper edge of inlet. Remove sediment and debris from gutter.	04/12/2021	Yes	Bioretention	1	5/19/2021	School
Ocean View Elementary School	14-0085.1	ADOAN - 2021-04-14 09:17:45 -- Cutback overgrown vegetation (Phragmites and cattails). Remove overgrown vegetation around the outfall. Make a clear path for flow.	04/12/2021	Yes	Wet Pond	1	4/28/2021	School
Lake Modoc	16-0054.1	ADOAN - 2021-04-12 15:02:00 -- Lake looks great. One of the fountains is not working. WO requested.	04/12/2021	Yes	Wet Pond 2	1	6/10/2021	Public
1921 Parkview Avenue	16-0076.1	MV/HITE02 - 2021-04-12 07:19:03 -- Appears to be functioning. Very minor amount of trash in BMP.	04/12/2021	No	Bioretention 2	0		Private
1921 Parkview Avenue	16-0076.2	MV/HITE02 - 2021-04-12 07:20:14 -- Appears to be functioning. Very minor amount of trash in BMP.	04/12/2021	No	Bioretention 2	0		Private
1921 Parkview Avenue	16-0076.3	MV/HITE02 - 2021-04-12 07:20:25 -- Appears to be functioning. Very minor amount of trash in BMP.	04/12/2021	No	Bioretention 2	0		Private
1424, 1426 & 1428 W Ocean View Ave.	16-0102.1	MV/HITE02 - 2021-04-12 14:28:27 -- BMP is well maintained.	04/12/2021	No	Bioretention 1	0		Private
1424, 1426 & 1428 W Ocean View Ave.	16-0102.2	MV/HITE02 - 2021-04-12 14:29:26 -- BMP is well maintained.	04/12/2021	No	Infiltration 1	0		Private
3 SFR - 1100 Virginia Ave	17-0043.1	MV/HITE02 - 2021-04-12 07:47:25 -- All 4 are well maintained.	04/12/2021	No	Bioretention 1	0		Private
3 SFR - 1100 Virginia Ave	17-0043.2	MV/HITE02 - 2021-04-12 07:58:32 -- All 3 are well maintained, the BMP in the back of 1104 has heavier vegetation.	04/12/2021	No	Bioretention 2	0		Private
3 SFR - 1100 Virginia Ave	17-0043.3	MV/HITE02 - 2021-04-12 07:33:37 -- Functioning well. Minor sediment accumulation, not choked.	04/12/2021	No	Permeable Pavement 1	0		Private
3 SFR - 1100 Virginia Ave	17-0043.4	MV/HITE02 - 2021-04-12 07:51:07 -- Appear to be functioning, there is minor sediment accumulation but they're not choked.	04/12/2021	No	Permeable Pavement 2	0		Private
Bayview Elementary School Addition / Renovation	1517.1	ADOAN - 2021-04-14 09:09:13 -- BMP well maintained.	04/12/2021	No	Infiltration Practices	0		School
Duplex	01-0173.1	MV/HITE02 - 2021-04-13 07:17:35 -- BMP is maintained, piling appears to be on the outer edge of the BMP.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	01-0173.2	MV/HITE02 - 2021-04-13 07:19:19 -- BMP is functioning, appears to be well maintained.	04/13/2021	No	Infiltration Practices	0		Private
Townhouses	03-0193.1	MV/HITE02 - 2021-04-13 07:54:15 -- Please clear out sediment and debris from drop inlet grates and underground infiltration BMP.	04/13/2021	Yes	Infiltration Practices	1	6/14/2021	Private
Townhouses	03-0193.2	MV/HITE02 - 2021-04-13 07:52:54 -- Could not access infiltration trench in backyards. Please clear out sediment and debris from drop inlet grates and underground infiltration BMP.	04/13/2021	Yes	Infiltration Practices	1	6/14/2021	Private
Duplex	03-0315.1	MV/HITE02 - 2021-04-13 11:54:28 -- Adjacent area is somewhat denuded from apparent parking. BMP appears to be functioning and downspouts are connected.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-0315.2	MV/HITE02 - 2021-04-13 11:59:18 -- Please do not park on BMP. Otherwise BMP appears to be functioning.	04/13/2021	Yes	Infiltration Practices	0		Private
Duplex	03-0315.3	MV/HITE02 - 2021-04-13 12:02:37 -- BMP is maintained, appears to be functioning.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-0323.1	MV/HITE02 - 2021-04-13 09:56:54 -- BMP is well maintained.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-0323.2	MV/HITE02 - 2021-04-13 09:57:48 -- BMP is well maintained, spoke to resident.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-0325.1	MV/HITE02 - 2021-04-13 10:29:03 -- Could only access one side of the yard to see the BMP. It appears there were planters at one time but only the frames remain.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-0325.2	MV/HITE02 - 2021-04-13 10:26:20 -- Please do not park on BMP. BMP appears well maintained otherwise.	04/13/2021	Yes	Infiltration Practices	0		Private
Duplex	03-0325.3	MV/HITE02 - 2021-04-13 10:27:57 -- BMP is well maintained.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-287.1	MV/HITE02 - 2021-04-13 07:31:13 -- Infiltration along the driveway, grassy.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-287.2	MV/HITE02 - 2021-04-13 07:34:34 -- Infiltration along side of the driveway, grassy.	04/13/2021	No	Infiltration Practices	0		Private
Duplex	03-287.3	MV/HITE02 - 2021-04-13 07:29:04 -- Infiltration along the back across the backyard. Grassy and sandy.	04/13/2021	No	Infiltration Practices	0		Private
Norfolk Academy Leadership Center	15-0052.1	ADOAN - 2021-04-15 07:35:39 -- BMP well maintained.	04/13/2021	No	Bioretention- Urban	0		Private
Norfolk Academy Lower School Addition	16-0031.1	ADOAN - 2021-04-15 08:10:45 -- Remove cinder block (construction material) from grated inlet.	04/13/2021	Yes	Bioretention- Urban	1	6/11/2021	Private
Norfolk Academy Lower School Addition	16-0031.2	ADOAN - 2021-04-15 08:15:17 -- Remove leaf debris from trench drains.	04/13/2021	Yes	Rooftop or Impervious Surface Disconnect	1	6/11/2021	Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Norfolk Academy Lower School Addition	16-0031.3	ADOAN - 2021-04-15 08:21:03 -- BMP well maintained.	04/13/2021	No	Bicretention 1	0		Private
Norfolk Academy Lower School Addition	16-0031.4	ADOAN - 2021-04-15 08:23:49 -- BMP well maintained.	04/13/2021	No	Dry Swale 1	0		Private
Norfolk Academy Refectory	16-0033.1	ADOAN - 2021-04-15 07:44:54 -- BMP well maintained.	04/13/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
Norfolk Academy	1746.1	ADOAN - 2021-04-15 07:09:16 -- Trash and Debris have been removed. BMP has been maintained.	04/13/2021	No	Wet Pond	0		Private
Condos	03-0148.1	MVWHITE02 - 2021-04-14 13:43:15 -- Please remove leaf and mulch debris from the drop inlet in your planting bed. Otherwise BMP is functioning well.	04/14/2021	Yes	Infiltration Practices	1	6/14/2021	Private
Fentress Court Subdivision	05-0175.1	MVWHITE02 - 2021-04-14 14:28:54 -- Please remove accumulated sediment from the curb cut inlet. Please maintain vegetation and refresh rip rap behind check dam. Please stabilize swale where it has been eroded.	04/14/2021	Yes	Grass Channel	1	6/14/2021	Private
Sandollar Duplex	06-0104.1	MVWHITE02 - 2021-04-14 15:13:40 -- 2 infiltration basins, front is under the vegetation. Could not access part of the back because the gate was blocked.	04/14/2021	No	Infiltration Practices	0		Private
Duplex	08-0046.2	CLVANLE - 2021-04-19 14:19:09 -- Infiltration trench under gravel driveway. Good condition.	04/14/2021	No	Infiltration Practices	0		
Apartments	01-0223.1	MVWHITE02 - 2021-04-15 08:23:21 -- BMP has a minor amount of accumulated sediment in one of the DIs.	04/15/2021	No	Infiltration Practices	0		Private
Walgreens	01-0224.1	MVWHITE02 - 2021-04-15 08:51:39 -- Manhole is marked by blue glove, could not access due to overgrowth. Please maintain the Stormceptor in accordance with the manufacturer's specifications, and provide a copy of the maintenance record.	04/15/2021	Yes	Manufactured Treatment Device	0		Private
Duplex	03-0272.1	MVWHITE02 - 2021-04-15 07:37:25 -- BMP is well maintained and well vegetated.	04/15/2021	No	Infiltration Practices	0		Private
Duplex	03-0272.2	MVWHITE02 - 2021-04-15 07:39:11 -- BMP is vegetated in the front, sandy in the back.	04/15/2021	No	Infiltration Practices	0		Private
Apartment / Garage	03-0273.1	MVWHITE02 - 2021-04-15 08:24:58 -- BMP is well maintained.	04/15/2021	No	Infiltration Practices	0		Private
Duplex	06-0095.1	MVWHITE02 - 2021-04-15 07:06:30 -- Please refresh the DIs.	04/15/2021	No	Bicretention	0		Private
Duplex	06-0014.1	MVWHITE02 - 2021-04-15 07:25:59 -- BMP is well maintained, very little ponding depth.	04/15/2021	No	Bicretention	0		Private
Duplex	06-0014.2	MVWHITE02 - 2021-04-15 07:28:33 -- BMP is well maintained, very little ponding depth.	04/15/2021	No	Bicretention	0		Private
Duplex Lot 'C'	06-0015.1	MVWHITE02 - 2021-04-15 07:14:15 -- BMP is well maintained. The homeowner was having water damage repaired so could not look in observation wells.	04/15/2021	No	Infiltration Practices	0		Private
7-Eleven	15-0049.1	MVWHITE02 - 2021-04-15 10:27:06 -- Observation well was dry, catch basin was free of debris. BMP appears well maintained. MVWHITE02 - 2021-04-15 10:34:10 -- Please maintain the Modular Wetland System in accordance with the manufacturer's specifications and provide copies of the maintenance reports.	04/15/2021	Yes	Manufactured Treatment Device	0		Private
7-Eleven	15-0049.2	MVWHITE02 - 2021-04-15 10:17:19 -- Please maintain the underground storage system in accordance with the manufacturer's specifications and provide a copy of the maintenance record.	04/15/2021	Yes	Manufactured Treatment Device	0		Private
7-Eleven	15-0049.3	MVWHITE02 - 2021-04-15 10:39:47 -- Please maintain the Modular Wetland System in accordance with the manufacturer's	04/15/2021	Yes	Manufactured Treatment Device	0		Private
7-Eleven	15-0049.4	MVWHITE02 - 2021-04-15 10:30:03 -- Please inspect and maintain the Oil Water Separator in accordance with the manufacturer's specifications. Please provide a copy of maintenance records.	04/15/2021	Yes	Manufactured Treatment Device	0		Private
Norfolk Academy STEAM Addition	16-0078.1	ADOAN - 2021-04-15 07:56:00 -- Remove stones and mulch from inlet. Refresh stones around inlet.	04/15/2021	No	Rooftop or Impervious Surface Disconnect	1	6/11/2021	Private
1st View St. - 3 SFR	17-0028.1	MVWHITE02 - 2021-04-15 08:05:47 -- BMPs are well maintained.	04/15/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1st View St. - 3 SFR	17-0028.2	MVWHITE02 - 2021-04-15 08:06:40 -- BMPs are well maintained. Spoke to homeowner, he is building a deck but it does not encroach on the BMP.	04/15/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
1st View St. - 3 SFR	17-0028.3	MVWHITE02 - 2021-04-15 08:06:14 -- BMP is well maintained. Could not access backyard.	04/15/2021	No	Rooftop or Impervious Surface Disconnect	0		Private
Combined Operations Facility Improvements	19-0001.1	ADOAN - 2021-04-15 14:11:21 -- Hydrodynamic Separator inspected for CO. Unit in good condition, very little sediment, no need for pumping at this time.	04/15/2021	No	Manufactured Treatment Device	0		Public
Merrimac Landing Apartments (off site parking)	175.1	MVWHITE02 - 2021-04-15 14:07:25 -- Looks ok, some very minor sediment accumulation in the curb cut.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.2	MVWHITE02 - 2021-04-15 13:51:39 -- Observation well was dry, area is nearly indistinguishable.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.3	MVWHITE02 - 2021-04-15 13:32:42 -- OK, one spot is a little bare. Minor sediment accumulation in curb cut.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.4	MVWHITE02 - 2021-04-15 13:50:54 -- BMP is dry, observation well was full of sediment.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.5	MVWHITE02 - 2021-04-15 13:06:34 -- OK, observation wells are dry.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.6	MVWHITE02 - 2021-04-15 13:21:06 -- A couple of denuded patches.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.7	MVWHITE02 - 2021-04-15 14:45:47 -- Looks good, could not open observation well cap.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.8	MVWHITE02 - 2021-04-15 14:44:48 -- Dry, could not locate the observation well.	04/15/2021	No	Infiltration Practices	0		Private
Merrimac Landing Apartments (off site parking)	175.9	MVWHITE02 - 2021-04-15 14:23:28 -- BMP is functioning well, minor leaf debris in DI.	04/15/2021	No	Infiltration Practices	0		Private
Duplex	04-0013.1	MVWHITE02 - 2021-04-16 13:28:58 -- Found both DIs, inlet and outlet were very clean. Spoke to homeowner.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 5 blk 3	05-0061.1	MVWHITE02 - 2021-04-16 09:37:17 -- BMP is well maintained. Dry, no observation well.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 5 blk 3	05-0061.2	MVWHITE02 - 2021-04-16 09:37:54 -- Could not access because of fence. Looks to be dry and functioning, there is an observation well.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 6 blk3	05-0062.1	MVWHITE02 - 2021-04-16 09:42:40 -- Well maintained, no observation well.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 6 blk3	05-0062.2	MVWHITE02 - 2021-04-16 09:43:53 -- Could not access because of fence, looked to be well maintained.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 7 blk 3	05-0063.1	MVWHITE02 - 2021-04-16 09:45:30 -- Well maintained and dry.	04/16/2021	No	Infiltration Practices	0		Private
Duplex - Lot 7 blk 3	05-0063.2	MVWHITE02 - 2021-04-16 09:44:42 -- Could not access due to fence, could not get a picture. Looked okay through the fence.	04/16/2021	No	Infiltration Practices	0		Private
Duplex	05-0090.1	MVWHITE02 - 2021-04-16 09:32:26 -- BMP appeared to be functioning, could not access but visually appeared fine. Did not see observation wells.	04/16/2021	No	Infiltration Practices	0		Private
Duplex	05-0090.2	MVWHITE02 - 2021-04-16 09:29:53 -- BMP is maintained, no observation wells. Spoke to homeowner.	04/16/2021	No	Infiltration Practices	0		Private
Duplex	06-0056.1	MVWHITE02 - 2021-04-16 14:01:14 -- UG infiltration trench with sump. Looks to be functioning well.	04/16/2021	No	Infiltration Practices	0		Private
Duplex	06-0056.2	MVWHITE02 - 2021-04-16 13:58:54 -- Could not open the observation well because of cement from sidewalk, spoke to homeowner. UG infiltration with sumps.	04/16/2021	No	Infiltration Practices	0		Private
Sunshine Villas	17-0016.1	MVWHITE02 - 2021-04-16 14:12:08 -- BMP is well maintained.	04/16/2021	No	Bicretention; Micro 1	0		Private
Duplex - Willoughby	04-0062.1	MVWHITE02 - 2021-04-19 10:20:48 -- Please refresh the VDOT #1 stone according to the plan specifications.	04/19/2021	Yes	Infiltration Practices	0		Private
Annetta M. Lane Apartments	1100.1	MVWHITE02 - 2021-04-19 14:58:06 -- Please remove stones and sediment from the inlet pipe. Please remove stones from the drop inlet spillway structure. MVWHITE02 - 2021-04-28 15:07:12 -- Re-inspected early. Anthony Barnes, maintenance supervisor, called.	04/19/2021	Yes	Detention Basin	1	4/28/2021	Private
Parking Lot	1792.1	MVWHITE02 - 2021-04-19 15:19:13 -- Please clear vegetation and debris from the infiltration trench.	04/19/2021	Yes	Infiltration Practices	1	5/3/2021	Private
Macedonia Christian Church	1116.1	MVWHITE02 - 2021-04-20 07:23:32 -- Please clear accumulated debris and sediment from the parking lot to allow flow. Please clear vegetation around the outlet. Please remove any trash and debris from the BMP.	04/20/2021	Yes	Detention Basin	1	6/23/2021	Private
Union Chapel A.M.E. Church	1738.1	MVWHITE02 - 2021-04-20 09:32:21 -- Please remove accumulated sediment from curb-cut inlets. Please remove vegetation and debris from the stone of the BMP.	04/20/2021	Yes	Infiltration Practices	1	6/22/2021	Private
Union Chapel A.M.E. Church	1738.2	MVWHITE02 - 2021-04-20 09:33:21 -- Please remove accumulated sediment from curb-cut inlets. Please remove vegetation and debris from the stone of the BMP.	04/20/2021	Yes	Infiltration Practices	1	6/22/2021	Private
Union Chapel A.M.E. Church	1738.3	MVWHITE02 - 2021-04-20 09:33:30 -- Please remove accumulated sediment from curb-cut inlets. Please remove vegetation and debris from the stone of the BMP.	04/20/2021	Yes	Infiltration Practices	1	6/22/2021	Private
Faith Deliverance Christian Center	02-0244.1	MVWHITE02 - 2021-04-21 13:51:15 -- Please clear the accumulated sediment from the area around the inlet. Please clear accumulated sediment in the concrete swale. Please address the accumulated sediment and vegetation around the outfall. Please address the depressed area in front of the outlet structure.	04/21/2021	Yes	Detention Basin	1	6/15/2021	Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Auxiliary Systems	T309.1	MW/HITE02 - 2021-04-21 15:08:09 -- Please remove equipment and materials from swale. Please remove accumulated sediment from the trench drain. Please restore swale along Church St.	04/21/2021	Yes	Grass Channel	1	6/22/2021	Private
Covenant Presbyterian Church	T448.1	MW/HITE02 - 2021-04-21 14:23:11 -- Please clear accumulated sediment from around the curb-cut inlet and from the outlet pipe.	04/21/2021	Yes	Detention Basin	1	6/22/2021	Private
Covenant Presbyterian Church	T448.2	MW/HITE02 - 2021-04-21 14:23:38 -- Please clear accumulated sediment from the curb-cut inlet and the rip rap. Please clear accumulated sediment and debris from the outlet pipe.	04/21/2021	Yes	Detention Basin	1	6/22/2021	Private
Barry's Performance Car Shop	T93.1	MW/HITE02 - 2021-04-21 13:36:15 -- Seem to be functioning, not holding water. Minor vegetation does not seem to impede.	04/21/2021	No	Infiltration Practices	0		Private
Barry's Performance Car Shop	T93.2	MW/HITE02 - 2021-04-21 13:37:07 -- Seem to be functioning, not holding water. Minor vegetation does not seem to impede.	04/21/2021	No	Infiltration Practices	0		Private
Head of His Commem Church	00-4896.1	MW/HITE02 - 2021-04-22 08:53:13 -- Minor sediment accumulation.	04/22/2021	No	Infiltration Practices	0		Private
Conley Warehouse and Office	02-0121.1	MW/HITE02 - 2021-04-22 08:07:49 -- Property owner said he would move trash cans. Otherwise OK, watch vegetation growth.	04/22/2021	No	Detention Basin	0		Private
Gethsemane Community Fellowship Church	03-0065.1	MW/HITE02 - 2021-04-22 09:48:17 -- Basin is holding water, but it had rained recently.	04/22/2021	No	Infiltration Practices	0		Private
Gethsemane Community Fellowship Church	03-0065.2	MW/HITE02 - 2021-04-22 09:59:21 -- BMP is well maintained, could not open observation wells.	04/22/2021	No	Infiltration Practices	0		Private
Church Street Executive Office Park	04-0112.1	MW/HITE02 - 2021-04-22 08:53:01 -- Please remove trash and debris from the BMP and from the outlets and inlets. Please remove woody vegetation and clear/thin overgrowth on banks and around inlets/outlets (including cattails).	04/22/2021	Yes	Wet Pond	1	6/8/2021	Private
Gethsemane Baptist Church Bldg Addition	12-0064.1	MW/HITE02 - 2021-04-22 10:08:22 -- MWS looks good, broke up the treatment train to 1 and 2. Observation Well was dry.	04/22/2021	No	Manufactured Treatment Device	0		Private
901 Ballentine Boulevard Parking Lot	15-0019.1	MW/HITE02 - 2021-04-22 15:21:47 -- Please pick up trash. Please remove accumulated debris and sediment from drop inlet. Please remove accumulated sediment from curb-cut inlets.	04/22/2021	Yes	Bioretention 1	1	6/23/2021	Private
901 Ballentine Boulevard Parking Lot	15-0019.2	MW/HITE02 - 2021-04-22 15:25:54 -- Please remove accumulated debris and sediment from drop inlet. Please remove accumulated sediment from the curb-cut inlets.	04/22/2021	Yes	Bioretention 1	1	6/23/2021	Private
Food Bank Paving Addition	15-0048.1	MW/HITE02 - 2021-04-22 14:56:28 -- Please remove debris from the BMP. Please spread rocks to act as dissipation so that they are not blocking the pipe completely.	04/22/2021	Yes	Bioretention 1	1	6/23/2021	Private
Food Bank Paving Addition	15-0048.2	MW/HITE02 - 2021-04-22 14:55:50 -- Please remove debris from the BMP.	04/22/2021	Yes	Detention Basin	1	6/23/2021	Private
HRT Transfer Military Circle	HRT Transfer Military Circle.1	MW/HITE02 - 2021-04-22 14:25:14 -- Appears well maintained. Some cigarettes and litter, but there would be more if no one maintained.	04/22/2021	No	Permeable Pavement	0		Private
Moran Towing of Virginia, Inc.	T450.1	MW/HITE02 - 2021-04-22 08:17:45 -- Please clear accumulated sediment and refresh stone at the end of the concrete swale.	04/22/2021	Yes	Grass Channel	1	5/6/2021	Private
Calvert Square Community Center Improvements	T540.1	MW/HITE02 - 2021-04-22 14:35:30 -- Well maintained, pipe still draining into it direct from building.	04/22/2021	No	Infiltration Practices	0		Private
Calvert Square Site Improvements	T683.1	MW/HITE02 - 2021-04-22 14:41:37 -- Both Dis were dry and clear.	04/22/2021	No	Infiltration Practices	0		Private
Arcot Equipment Co.	T769.1	MW/HITE02 - 2021-04-22 07:14:33 -- Please provide a maintenance record from a certified inspector or documentation showing that the unit has been cleaned out in the last year for your Oil Water Separator.	04/22/2021	Yes	Manufactured Treatment Device	0		Private
Arcot Equipment Co.	T769.2	MW/HITE02 - 2021-04-22 07:31:28 -- Grass swale is well maintained.	04/22/2021	No	Grass Channel	0		Private
NRHA CMD Facility	T99.1	MW/HITE02 - 2021-04-22 07:46:01 -- Please clear accumulated sediment from the inlet pipes. Please address the eroded area under the main pipe. Please restore rip rap at the end of the concrete swale. MW/HITE02 - 2021-04-28 15:03:53 -- Received pictures from Rick O'Neal confirming work was done 4/28.	04/22/2021	Yes	Infiltration Practices	1	4/28/2021	Public
Solid Rock Church parking	10-0034.1	MW/HITE02 - 2021-04-23 12:52:23 -- Grassy, maintained. Minor neighborhood trash. Neighbor commented the lot floods fairly often and drains slowly.	04/23/2021	No	Infiltration Practices	0		Private
Solid Rock Church parking	10-0034.2	MW/HITE02 - 2021-04-23 12:53:49 -- Grassy, maintained. Minor neighborhood trash. Neighbor commented the lot floods fairly often and drains slowly.	04/23/2021	No	Infiltration Practices	0		Private
3350 E. Princess Anne Rd. Walmart-Wawa	13-0074.1	MW/HITE02 - 2021-04-23 13:09:07 -- Please clear accumulated sediment from curb-cut inlets. Please pick up trash and debris.	04/23/2021	Yes	Bioretention	1	6/23/2021	Private
3350 E. Princess Anne Rd. Walmart-Wawa	13-0074.2	MW/HITE02 - 2021-04-23 13:07:52 -- Please clear accumulated sediment from curb-cut inlets. Please pick up trash and debris. Please restore swales from curb-cuts to BMP.	04/23/2021	Yes	Bioretention	1	6/23/2021	Private
Mixed Use Development Church St.	14-0080.1	MW/HITE02 - 2021-04-23 12:37:26 -- Well maintained, vegetated.	04/23/2021	No	Detention Basin	0		Private
Mixed Use Development Church St.	14-0080.2	MW/HITE02 - 2021-04-23 12:38:36 -- Well maintained, no issues.	04/23/2021	No	Permeable Pavement 1	0		Private
901 Ballentine Boulevard Parking Lot	15-0019.3	MW/HITE02 - 2021-04-23 07:23:08 -- Please pick up trash. Please remove accumulated sediment from curb-cut inlets.	04/23/2021	Yes	Bioretention 2	1	6/23/2021	Private
901 Ballentine Boulevard Parking Lot	15-0019.4	MW/HITE02 - 2021-04-23 07:19:15 -- Please remove accumulated sediment from the curb-cut inlets.	04/23/2021	Yes	Bioretention 1	1	6/23/2021	Private
Church Street Station Studios	15-0022.1	MW/HITE02 - 2021-04-23 09:08:03 -- Roof drain Filterra- Please maintain the Filterra units in accordance with the manufacturer's specifications and provide a copy of the maintenance records. Please remove trash and debris from within the Filterra. Please remove wood from the trunk of the tree and assess the tree's health.	04/23/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
Church Street Station Studios	15-0022.2	MW/HITE02 - 2021-04-23 07:50:33 -- Please maintain the Filterra unit in accordance with the manufacturer's specifications and provide a copy of the maintenance record. Please remove trash and debris from within the Filterra. Please remove accumulated trash, debris, and sediment from the inlet.	04/23/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
THR Park	04-0036.1	MW/HITE02 - 2021-04-26 09:41:23 -- U/G infiltration is well maintained.	04/26/2021	No	Infiltration Practices	0		Private
THR Park	04-0036.2	MW/HITE02 - 2021-04-26 09:47:07 -- Filterra is well maintained.	04/26/2021	No	Manufactured Treatment Device	0		Private
Family Dollar	04-0140.1	MW/HITE02 - 2021-04-26 08:26:45 -- Remove accumulated sediment, trash, and debris from within the detention basin and from the parking lot. Remove overgrown vegetation from the BMP.	04/26/2021	Yes	Detention Basin	1	5/20/2021	Private
Tanner's Landing	05-0097.1	MW/HITE02 - 2021-04-26 15:08:44 -- Please maintain the Filterra units in accordance with the manufacturer's specifications and provide copies of the maintenance records.	04/26/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
Tanner's Landing	05-0097.2	MW/HITE02 - 2021-04-26 15:06:44 -- Please maintain the Filterra units in accordance with the manufacturer's specifications and provide copies of the maintenance records.	04/26/2021	Yes	Manufactured Treatment Device	1	5/11/2021	Private
Duplex	06-0073.1	MW/HITE02 - 2021-04-26 14:42:13 -- BMP is well maintained.	04/26/2021	No	Extended Detention Basin	0		Private
Guterman Iron Works	08-0075.1	MW/HITE02 - 2021-04-26 14:30:58 -- Received maintenance records 4/26.	04/26/2021	No	Manufactured Treatment Device	0		Private
YMCA Family Center on Granby Street	12-0024.1	MW/HITE02 - 2021-04-26 07:32:42 -- Please maintain the Filterra units in accordance with the manufacturer's recommendations, and please provide a copy of the maintenance records.	04/26/2021	Yes	Manufactured Treatment Device	0		Private
YMCA Family Center on Granby Street	12-0024.2	MW/HITE02 - 2021-04-26 07:33:50 -- Please maintain the Filterra units in accordance with the manufacturer's recommendations, and please provide a copy of the maintenance records.	04/26/2021	Yes	Manufactured Treatment Device	0		Private
Roper Home Parking Lot	15-0008.1	MW/HITE02 - 2021-04-26 08:00:36 -- Please maintain the vegetation growing in your permeable pavers.	04/26/2021	Yes	Permeable Pavement 2	1	6/28/2021	Private
Warehouse extension	05-0016.1	MW/HITE02 - 2021-04-27 09:11:59 -- Please cut back overgrown vegetation in the pond. Remove vegetation from around inlet pipe and outlet control structure. Remove accumulated sediment from inlet pipe. Please address cut catch basin.	04/27/2021	Yes	Detention Basin	1	6/30/2021	Private
Huntersville II Townhomes	06-0123.1	MW/HITE02 - 2021-04-27 14:04:00 -- 4 areas of porous concrete driveways along the back alley. No issues.	04/27/2021	No	Permeable Pavement	0		Private
St. Mary's Mausoleum	07-0002.1	MW/HITE02 - 2021-04-27 14:11:12 -- OK, not very distinguishable, well covered.	04/27/2021	No	Detention Basin	0		Private
River House Apartments	07-0073.1	MW/HITE02 - 2021-04-27 08:40:02 -- Please maintain Filterra units according to the manufacturer's specifications and provide maintenance logs. Trees are too large.	04/27/2021	Yes	Manufactured Treatment Device	1	6/28/2021	Private
River House Apartments	07-0073.2	MW/HITE02 - 2021-04-27 08:38:55 -- Please maintain Filterra units according to the manufacturer's specifications and provide maintenance logs. Trees are too large.	04/27/2021	Yes	Manufactured Treatment Device	1	6/28/2021	Private
Uncle Bob's Self Storage Expansion	08-0007.1	MW/HITE02 - 2021-04-27 07:19:40 -- Please maintain the Filterra unit in accordance with the manufacturer's specifications and please provide copies of the maintenance logs.	04/27/2021	Yes	Manufactured Treatment Device	1	6/25/2021	Private

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Fayton-Sutherland Bldg	08-0089.3	MW/HITE02 - 2021-04-27 14:33:19 -- DI mostly clear of debris and sediment, OK	04/27/2021	No	Manufactured Treatment Device	0		Private
Mission College Clubhouse	09-0014.1	MW/HITE02 - 2021-04-27 13:50:19 -- BMP is well maintained.	04/27/2021	No	Detention Basin	0		Private
2800 Church Street	14-0053.1	ADOAN - 2021-04-27 13:17:09 -- 1st inspection since installation. BMP in good condition.	04/27/2021	No	Bioretention 2	0		Private
Vulcan Construction Materials, L.P.	06-0121.1	MW/HITE02 - 2021-04-28 07:55:13 -- OK, water cloudy as expected with high sediment load.	04/28/2021	No	Detention Basin	0		Private
Vulcan Construction Materials, L.P.	06-0121.2	MW/HITE02 - 2021-04-28 07:50:45 -- OK, holding water, minor vegetation.	04/28/2021	No	Detention Basin	0		Private
Vulcan Construction Materials, L.P.	06-0121.3	MW/HITE02 - 2021-04-28 08:06:20 -- OK, keep an eye on sediment from wash station.	04/28/2021	No	Wet Pond	0		Private
Colley Avenue Self Storage	18-0048.1	MW/HITE02 - 2021-04-29 15:13:26 -- Please remove the donuts and witch hats (E&MPS control measures) from the structures in the BMP.	04/29/2021	Yes	Infiltration Practices	1	6/28/2021	Private
9500 Shore Drive-East Beach Veterinary Clinic	17-0002.1	MW/HITE02 - 2021-04-30 07:29:25 -- Please carefully remove plastic fabric (witch hats) from the grates and remove the accumulated debris and sediment.	04/30/2021	Yes	Infiltration 1	1	5/13/2021	Private
3 SFR Columbia Avenue	17-0068.2	MW/HITE02 - 2021-04-30 10:18:01 -- BMP is well maintained.	04/30/2021	No	Detention Basin	0		Private
3 SFR Columbia Avenue	17-0068.3	MW/HITE02 - 2021-04-30 10:16:16 -- BMP is well maintained, spoke with homeowner.	04/30/2021	No	Detention Basin	0		Private
9544 14th Bay Street Duplex	17-0074.1	MW/HITE02 - 2021-04-30 10:02:15 -- Everything seems to be functioning, could not open gates to get to back/side yard.	04/30/2021	No	Cisterns and Rain Barrels	0		Private
Mt Gilead Church parking addition	18-0032.2	MW/HITE02 - 2021-05-03 14:56:03 -- R-rank system farther from church. Inspection ports and OIs dry and clear.	05/03/2021	No	Manufactured Treatment Device	0		Private
Mt Gilead Church parking addition	18-0032.3	MW/HITE02 - 2021-05-03 14:57:06 -- R-rank system closer to church. Inspection ports and OIs dry and clear.	05/03/2021	No	Manufactured Treatment Device	0		Private
Jerusalem Apostolic Christian Church	11-0042.1	MW/HITE02 - 2021-05-04 14:34:44 -- Please maintain the Stormfilter BMP in accordance with the manufacturer's specifications and provide a copy of the maintenance record.	05/04/2021	Yes	Manufactured Treatment Device	0		Private
Granby Townhomes	16-0011.1	MW/HITE02 - 2021-05-04 10:18:10 -- Please remove plastic fabric and sediment from the inlet grates. ; MW/HITE02 - 2021-05-04 10:25:55 -- Please make sure grate is properly placed over the pipe.	05/04/2021	Yes	Bioretention 1	0		Private
Granby Townhomes	16-0011.2	MW/HITE02 - 2021-05-04 10:40:03 -- Please remove plastic fabric and sediment from the inlet grates. Please restore front bioretention to plans.	05/04/2021	Yes	Bioretention 1	0		Private
Granby Townhomes	16-0011.3	MW/HITE02 - 2021-05-04 10:31:46 -- Please remove plastic fabric and sediment from the inlet grates.	05/04/2021	Yes	Bioretention 1	0		Private
Granby Townhomes	16-0011.4	MW/HITE02 - 2021-05-04 10:09:25 -- Please remove plastic fabric and sediment from the inlet grates.	05/04/2021	Yes	Bioretention 1	0		Private
4013 Colley Mixed Use	16-0109.1	MW/HITE02 - 2021-05-04 08:04:17 -- BMP is well maintained, permeable pavement looks good. Observation wells are dry, front one has a cracked cap.	05/04/2021	No	Permeable Pavement 2	0		Private
North Shore Gardens Fitness Center	18-0003.1	MW/HITE02 - 2021-05-04 08:19:38 -- BMP is well maintained, infiltration is clear and dry.	05/04/2021	No	Permeable Pavement 1	0		Private
North Shore Gardens Fitness Center	18-0003.2	MW/HITE02 - 2021-05-04 08:18:04 -- BMP is well maintained. Could not access the majority of it because of pool gate.	05/04/2021	No	Permeable Pavement 1	0		Private
Kempsville Behavioral Health Addition	18-0049.1	MW/HITE02 - 2021-05-04 14:09:21 -- Please fill hole with the appropriate amended soil per the plans.	05/04/2021	Yes	Bioretention 2	0		Private
Kempsville Behavioral Health Addition	18-0049.2	MW/HITE02 - 2021-05-04 13:55:56 -- BMP is well maintained.	05/04/2021	No	Detention Basin	0		Private
Sentara Norfolk parking expansion	18-0076.1	MW/HITE02 - 2021-05-04 07:38:44 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement 2	0		Private
Sentara Norfolk parking expansion	18-0076.3	MW/HITE02 - 2021-05-04 07:38:54 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement 1	0		Private
Sentara Norfolk parking expansion	18-0076.4	MW/HITE02 - 2021-05-04 07:38:20 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement 1	0		Private
Sentara Norfolk parking expansion	18-0076.5	MW/HITE02 - 2021-05-04 07:38:30 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement 1	0		Private
Sentara Norfolk parking expansion	18-0076.6	MW/HITE02 - 2021-05-04 07:37:16 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement 2	0		Private
Sentara Norfolk parking expansion	18-0076.7	MW/HITE02 - 2021-05-04 07:39:04 -- Busy parking lot for emergency patients. BMP is well maintained.	05/04/2021	No	Permeable Pavement	0		Private
9 Lot Townhouse Subdivision	11-0073.1	MW/HITE02 - 2021-05-06 14:24:46 -- Please address the area where the embankment has sloughed. Please pick up any trash and debris.	05/06/2021	Yes	Infiltration Practices	0		Private
W. 29th St Parking Lot	11-0076.1	MW/HITE02 - 2021-05-06 14:02:28 -- Previous concrete, well maintained.	05/06/2021	No	Permeable Pavement	0		Private
Greenway Stormwater Park	12-0053.1	ADOAN - 2021-05-06 13:33:12 -- BMP well established and maintained.	05/06/2021	No	Wet Pond	0		Private
Captain's Landing	15-0038.1	ADOAN - 2021-05-06 13:20:48 -- BMP in good condition. Well maintained.	05/06/2021	No	Infiltration 1	0		Private
Captain's Landing	15-0039.2	ADOAN - 2021-05-13 09:05:07 -- BMP maintained and in good condition.	05/06/2021	No	Infiltration 2	0		Private
McCoy Duplex	16-0018.1	MW/HITE02 - 2021-05-06 14:48:05 -- Well maintained.	05/06/2021	No	Infiltration 1	0		Private
Barraud Park	07-0086.1	MW/HITE02 - 2021-05-07 10:40:31 -- Please remove accumulated sediment along the curb lines and curb cut inlet.	05/07/2021	Yes	Infiltration Practices	0		Public
Rebuild and Convenience Store Addition - BP77-11	12-0013.1	MW/HITE02 - 2021-05-07 08:30:13 -- Please clean up trash from the timber-walled infiltration basin and associated catch basins. Please clear accumulated sediment and debris from inlet pipes. Please clean out the basins and pipes for the infiltration catch basins in the front (off Virginia Beach Blvd).	05/07/2021	Yes	Infiltration Practices	0		Private
Barraud Park Pump Station #153	14-0002.1	MW/HITE02 - 2021-05-07 11:04:26 -- Swales are well maintained.	05/07/2021	No	Dry Swale	0		Public
Barraud Park Pump Station #153	14-0002.2	MW/HITE02 - 2021-05-07 11:09:39 -- BMP is well maintained.	05/07/2021	No	Permeable Pavement	0		Public
Madden's Watch 7 Lot Subdivision	15-0016.1	MW/HITE02 - 2021-05-07 12:57:29 -- BMP is well maintained.	05/07/2021	No	Infiltration 1	0		Private
Madden's Watch 7 Lot Subdivision	15-0016.6	MW/HITE02 - 2021-05-07 14:29:00 -- Fence partially over BMP.	05/07/2021	No	Infiltration 1	0		Private
Madden's Watch 7 Lot Subdivision	15-0016.5	MW/HITE02 - 2021-05-07 14:05:12 -- BMP is well maintained.	05/07/2021	No	Infiltration 1	0		Private
Madden's Watch 7 Lot Subdivision	15-0016.6	MW/HITE02 - 2021-05-07 13:41:37 -- BMP is well maintained. MW/HITE02 - 2021-05-07 13:43:45 -- Surrounding area to the left is partially denuded.	05/07/2021	No	Infiltration 1	0		Private
Templar Boulevard Ditch Restoration	16-0046.1	MW/HITE02 - 2021-05-07 14:49:14 -- Justin has a work order out for veg. maintenance by the BMP crew based on citizen complaint. No other issues found.	05/07/2021	No	Other Retrofit- Stormwater Treatment	0		Public
Lindenwood Barraud Park Shoreline Restoration	16-0092.1	ADOAN - 2021-05-20 07:16:41 -- Shoreline is 95% finished. Some debris left from construction needs to be removed. Plants establishing well. ADOAN - 2021-06-22 08:31:57 -- 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? yes 4.Is the low marsh well vegetated and thriving? yes 5.Is the high marsh well vegetated and thriving? yes 6.Is the buffer zone well vegetated and thriving? yes 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? no 10.Are passive water access sites in good condition? n/a	05/07/2021	No	Shoreline Management	0		Public
Home 2 Suites	17-0069.1	ADOAN - 2021-07-06 14:15:39 -- 5/7/2021: BMP was inspected for final CO and initial inspection. U/G detention system needed to be cleaned and vacuoted. All work was completed.	05/07/2021	No	Manufactured Treatment Device	0		Private
Grandy Village, Phase 1	01-0222.1	ADOAN - 2021-05-12 13:37:52 -- Vortechnic units being vacuoted on 5/12/21. These units are on a 6 month maintenance schedule. May need to go quarterly based on trash content.	05/10/2021	Yes	Manufactured Treatment Device	0		Public
Grandy Village-Phase V Site Improvements	12-0028.1	ADOAN - 2021-05-12 15:13:58 -- Maintain overgrown vegetation throughout the basin and around the four outfalls. Remove accumulated sediment at the outfalls. Make sure water has a clear path for flow. Remove trash throughout the basin.	05/10/2021	Yes	Extended Detention Basin	1	5/26/2021	Public
Booker T. Washington Field House	14-0010.1	MW/HITE02 - 2021-05-10 14:21:12 -- Please remove donut from the drop inlet. There is some erosion from downspouts.	05/10/2021	No		0		School
Filterra	ColPIPR1.1	MW/HITE02 - 2021-05-10 13:37:43 -- On PM for Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Fillerra	CoPIFI1.2	MW/HITE02 - 2021-05-10 13:40:33 -- Tree is encroaching on grate, needs to be replaced. PM in Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public
Fillerra	CoPIFI2.1	MW/HITE02 - 2021-05-10 13:23:25 -- Impacted by Job Stuart School construction, on PM for Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public
Fillerra	CoPIFI3.1	MW/HITE02 - 2021-05-10 13:29:42 -- Impacted by Stuart School construction, PM for Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public
Fillerra	CoPIFI4.1	MW/HITE02 - 2021-05-10 13:20:00 -- Minor trash and leaf debris. On PM schedule for Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public
Fillerra	CoPIFI5.1	MW/HITE02 - 2021-05-10 13:14:23 -- Minor trash and leaf debris. On PM schedule for Oct.	05/10/2021	No	Manufactured Treatment Device	0		Public
Grandy Village Roadway	04-0119.1	ADOAN - 2021-05-12 15:25:44 -- Active construction underway around the area of the swale. We will reinspect after construction complete.	05/11/2021	No	Grass Channel	0		Public
Shorewood Shores-Phase I	05-0082.1	CLVANLE - 2021-05-14 10:58:12 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary. Please replace tree.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores-Phase I	05-0082.2	CLVANLE - 2021-05-14 10:40:11 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores-Phase I	05-0082.3	CLVANLE - 2021-05-14 10:34:07 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores-Phase I	05-0082.4	CLVANLE - 2021-05-14 10:23:58 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary; CLVANLE - 2021-05-14 10:25:27 -- Tree will need to be replaced.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores-Phase I	05-0082.5	CLVANLE - 2021-05-14 10:08:47 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores-Phase I	05-0082.6	CLVANLE - 2021-06-15 09:21:51 -- Please maintain Fillerra's. Replace mulch, remove trash and debris, replace rock in inlet if necessary.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.1	CLVANLE - 2021-05-21 09:54:00 -- Fillerra was maintained 03/2021 by BMP crew. There is sediment accumulation in the inlet. Please remove accumulation from inlet and rocks. Replace rocks if necessary; CLVANLE - 2021-05-21 10:01:01 -- Please ignore previous comment. BMP was scheduled for maintenance 03/2021, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.2	CLVANLE - 2021-05-21 10:07:44 -- BMP was scheduled for maintenance 03/2021, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.3	CLVANLE - 2021-05-21 10:19:10 -- BMP was scheduled for maintenance 03/2021, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.4	CLVANLE - 2021-05-21 10:43:18 -- Fillerra was scheduled for maintenance 03/2021, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.5	CLVANLE - 2021-05-21 10:49:32 -- Fillerra was scheduled to be maintained 03/2021 by BMP crew, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Shorewood Shores Phase II	06-0044.6	CLVANLE - 2021-05-21 10:49:32 -- Fillerra was scheduled to be maintained 03/2021 by BMP crew, and was not completed. Will follow up with BMP crew.	05/11/2021	Yes	Manufactured Treatment Device	0		Public
Little Creek Retail Shops	06-0062.1	MW/HITE02 - 2021-05-11 14:49:26 -- Please maintain the Fillerra unit in accordance with the manufacturer's specifications and provide a copy of the maintenance records. Please remove concrete chunks and replace with appropriate stone.	05/11/2021	Yes	Manufactured Treatment Device	0		Private
Chesterfield Heights WW Pump Station	10-0042.1	ADOAN - 2021-05-12 08:00:06 -- BMP in good condition.	05/11/2021	No	Bio-retention	0		Public
Grandy Village Phase VI	16-0034.1	ADOAN - 2021-05-12 13:30:39 -- BMP newly constructed. BMP is maintained.	05/11/2021	No	Wet Pond	0		Public
Norfolk Botanical Garden NATO Tower Renovations	17-0053.1	ADOAN - 2021-05-12 08:29:55 -- Site is well maintained.	05/11/2021	No	Permeable Pavement	0		Public
847-925 Ingleside Road Stormwater Retrofits	18-0101.1	ADOAN - 2021-05-19 08:52:17 -- BMP private and well maintained.	05/11/2021	No	Compost Amendment	0		Private
847-925 Ingleside Road Stormwater Retrofits	18-0101.2	ADOAN - 2021-05-19 08:59:09 -- BMP maintained.	05/11/2021	No	Other Retrofit- Runoff Reduction	0		Public
847-925 Ingleside Road Stormwater Retrofits	18-0101.3	ADOAN - 2021-05-19 10:02:56 -- BMP maintained.	05/11/2021	No	Vegetated Filter Strip	0		Public
847-925 Ingleside Road Stormwater Retrofits	18-0101.4	ADOAN - 2021-05-19 10:07:56 -- Minor amount of trash. BMP in good shape.	05/11/2021	No	Other Retrofit- Runoff Reduction	0		Public
Lake Liberty	91067.029.1	ADOAN - 2021-05-12 07:49:39 -- Wet Pond maintained. PM was completed in March.	05/11/2021	No	Wet Pond	0		Public
Central Brampton	1599.1	ADOAN - 2021-05-24 12:18:57 -- Aerator was fixed on 5-19-21.	05/11/2021	No	Wet Pond	0		Public
Titusstown Recreation Center	00-4462.1	MW/HITE02 - 2021-05-12 15:20:40 -- Vegetation is overgrown and needs to be maintained.	05/12/2021	Yes	Extended Detention Basin	0		Public
Pump Station 34 Replacement	10-0036.1	MW/HITE02 - 2021-05-12 13:44:26 -- Swale is nearly indistinguishable.	05/12/2021	No	Grass Channel	0		Public
5th-7th Bay Redevelopment	16-0013.3	ADOAN - 2021-05-21 08:34:38 -- 1st inspection site installation. BMP in good condition.	05/12/2021	No	Infiltration 2	0		Public
5th-7th Bay Redevelopment	16-0013.4	ADOAN - 2021-05-21 08:36:41 -- 1st inspection since installation. BMP in good condition.	05/12/2021	No	Infiltration 2	0		Public
Sewells Point GC Entrance	1871.1	MW/HITE02 - 2021-05-12 10:57:04 -- BMP is well maintained.	05/12/2021	No	Detention Basin	0		Public
Sewells Point GC Entrance	1871.2	MW/HITE02 - 2021-05-12 10:55:39 -- BMP is well maintained.	05/12/2021	No	Detention Basin	0		Public
Norfolk Fitness and Wellness Center	1217.1	MW/HITE02 - 2021-05-12 13:51:51 -- On PM for July. Clear sediment from inlet pipe and maintain vegetation.	05/12/2021	Yes	Detention Basin	0		Public
Parking Lot	11-0032.1	MW/HITE02 - 2021-05-13 07:31:58 -- Please remove sediment and debris from curb lines.	05/13/2021	Yes	Infiltration Practices	0		Public
Gethsemane Baptist Church Bldg Addition	12-0064.2	MW/HITE02 - 2021-05-13 08:29:58 -- Please remove filter fabric from below the drop inlet grate in front of the detention basin.	05/13/2021	No	Detention Basin	0		Public
Bruce's Park Pump Station #152	13-0009.1	ADOAN - 2021-05-14 11:52:05 -- BMP well maintained.	05/13/2021	No	Dry Swale 1	0		Public
Norchester Pump Station No. 116 Replacement	13-0023.1	ADOAN - 2021-05-14 12:02:37 -- BMP well maintained.	05/13/2021	No	Grass Channel	0		Public
Norchester Pump Station No. 116 Replacement	13-0023.2	ADOAN - 2021-05-14 12:04:06 -- BMP well maintained.	05/13/2021	No	Grass Channel	0		Public
Maiden's Watch 7 Lot Subdivision	15-0016.2	MW/HITE02 - 2021-05-13 13:46:12 -- Please restore BMP (infiltration basin and swale) to meet the approved site plans.	05/13/2021	Yes	Infiltration 1	0		Private
Maiden's Watch 7 Lot Subdivision	15-0016.3	MW/HITE02 - 2021-05-13 13:44:12 -- Please restore BMP (infiltration basin and swale) to meet the approved site plans.	05/13/2021	Yes	Infiltration 1	0		Private
Anne Outten Pond Retrofit	16-0014.1	ADOAN - 2021-05-14 14:16:23 -- Both aeration fountains are not working.  Note: This site has an ongoing illicit discharge of Sanitary Sewer Surcharge with a fish kill. Monitoring closely. DEQ reported. 	05/13/2021	Yes	Wet Pond 2	0		Public
Wendy's Store #895	16-0044.1	MW/HITE02 - 2021-05-13 10:45:28 -- Not built. Straight to NOV. Have been in communication with Randy from Delight Restaurant Group and the general manager Andrea Roulhac.	05/13/2021	Yes	Manufactured Treatment Device	0		Private
Broad Creek Library	16-0057.1	ADOAN - 2021-05-14 13:41:42 -- Repair cave inversion at the grated overflow inlet.	05/13/2021	Yes	Dry Swale 2	0		Public
Broad Creek Library	16-0057.2	ADOAN - 2021-05-14 13:45:36 -- Remove accumulated sediment and debris throughout the pipar, curb cuts/concrete culverts, outfall pipes and inlet grates. Curb inlet leading to the BMP is filled with leaves and debris. Please remove debris.	05/13/2021	Yes	Bio-retention 1	0		Public
Broad Creek Library	16-0057.3	ADOAN - 2021-05-14 13:51:32 -- BMP in good condition. Well maintained.	05/13/2021	No	Grass Channel	0		Public
Parker Ave. Drainage Improvements	18-0073.1	MW/HITE02 - 2021-05-13 14:11:16 -- Putting in work order.	05/13/2021	Yes	Manufactured Treatment Device	0		Public
5th-7th Bay Redevelopment	16-0013.2	ADOAN - 2021-05-21 08:31:39 -- 1st inspection after installation. BMP in good condition.	05/14/2021	No	Infiltration 2	0		Public
5th-7th Bay Redevelopment	16-0013.5	ADOAN - 2021-05-21 08:41:26 -- Bubbler along East Ocean View Avenue need to be cleaned out and some of the caps replaced. The infiltration inlet between 2505 and 2509 needs to be cleaned-holding water and sediment. Please check with homeowner at 2513 who has a sprinkler system running through the infiltration trench. The sprinkler system cannot be in the infiltration trench.	05/14/2021	Yes	Infiltration 2	0		Public
5th-7th Bay Redevelopment	16-0013.6	ADOAN - 2021-05-21 08:52:46 -- This system could not be accessed. Please access and maintain. Please provide maintenance records of cleaning.	05/14/2021	Yes	Manufactured Treatment Device	0		Public
BAYLOR PARKING	18-0093.1	ADOAN - 2021-05-14 12:51:22 -- BMP in excellent condition.	05/14/2021	No	Manufactured Treatment Device	0		Private
Jacox Elementary School Bus Loop	05-0086.1	ADOAN - 2021-05-17 11:45:57 -- Remove accumulated sediment from curb cuts and concrete culverts. remove trash and sediment from trench under sidewalk.	05/17/2021	Yes	Infiltration Practices	1	5/24/2021	School
Jacox Elementary School Bus Loop	05-0086.2	ADOAN - 2021-05-17 11:50:12 -- Remove accumulated sediment from curb cuts and concrete culverts. Remove trash and sediment from trench under sidewalk.	05/17/2021	Yes	Infiltration Practices	1	5/24/2021	School

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Riverpoint Condos	05-0176.1	MW/HITE02 - 2021-05-17 15:15:25 -- BMP is well maintained, minor sediment in a couple drop inlets.	05/17/2021	No	Infiltration Practices	0		Private
Third Police Precinct Parking Lot Addition	05-0200.1	ADOAN - 2021-05-17 11:29:59 -- Remove overgrown vegetation. Remove trash throughout the basin. Partial mowing has been done.; ADOAN - 2021-05-17 14:31:31 -- On the schedule for PM in July 2021.	05/17/2021	Yes	Extended Detention Basin	1	6/29/2021	Public
SHOREWOOD COVE- BUILDING ADDITION	20-0018.1	ADOAN - 2021-05-17 13:19:11 -- BMP is well maintained.	05/17/2021	No	Infiltration Practices	0		Public
Greek Orthodox Church	186.1	MW/HITE02 - 2021-05-17 15:25:07 -- BMP is well maintained.	05/17/2021	No	Grass Channel	0		Private
Norfolk Collegiate Middle School	03-0042.1	MW/HITE02 - 2021-05-18 13:26:11 -- Please clear the accumulated sediment and debris from the parking lot and curb-cut inlet. Restore the grade near the inlet so that water flows into the BMP and re-stabilize. Please address the hole in the middle right of the basin. Please maintain the weeds and vegetation growing in the BMP.	05/18/2021	Yes	Infiltration Practices	0		Private
Norfolk Collegiate Middle School	03-0042.2	MW/HITE02 - 2021-05-18 13:22:06 -- BMP is well maintained.	05/18/2021	No	Infiltration Practices	0		Private
Norfolk Christian School	05-0153.1	MW/HITE02 - 2021-05-18 14:33:21 -- BMP is well maintained.	05/18/2021	No	Detention Basin	0		Private
Chesterfield Elementary Parking Lot	06-0094.1	ADOAN - 2021-05-18 14:14:51 -- Site and surrounding area is an active construction site (Ohio Creek Project). The contractor installed a drop inlet into the existing BMP. We will continue investigating to determine the future status of the BMP. The curb inlets at the parking area are filled with gravel due to the installation of check dams at the inlets. Inlets to be cleaned by contractor.	05/18/2021	No	Infiltration Practices	0	10/19/20	School
Blessed Sacrament Church addition	10-0004.1	MW/HITE02 - 2021-05-18 07:41:46 -- OK, watch a couple areas that are starting to become denuded. Water about 2' down in observation wells.	05/18/2021	No	Bioswale	0		Private
Fire Arts Center - Norfolk Collegiate	11-0002.1	MW/HITE02 - 2021-05-18 13:13:50 -- Previous pavers are maintained.	05/18/2021	No	Permeable Pavement	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.2	MW/HITE02 - 2021-05-18 12:47:06 -- Please maintain the Filterna unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.	05/18/2021	Yes	Manufactured Treatment Device	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.1	MW/HITE02 - 2021-05-18 12:33:10 -- BMP is well maintained.	05/18/2021	No	Detention Basin	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.3	MW/HITE02 - 2021-05-18 12:47:45 -- Please maintain the Filterna unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.	05/18/2021	Yes	Manufactured Treatment Device	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.4	MW/HITE02 - 2021-05-18 12:47:17 -- Please maintain the Filterna unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.	05/18/2021	Yes	Manufactured Treatment Device	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.5	MW/HITE02 - 2021-05-18 12:45:37 -- Please maintain the Filterna unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.	05/18/2021	Yes	Manufactured Treatment Device	0		Private
Suburban Park Redevelopment of Wards Corner	12-0039.6	MW/HITE02 - 2021-05-18 12:47:34 -- Please maintain the Filterna unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.	05/18/2021	Yes	Manufactured Treatment Device	0		Private
Norfolk Christian Soccer Field	15-0058.1	MW/HITE02 - 2021-05-18 14:25:11 -- BMP is well maintained.	05/19/2021	No	Grass Channel	0		Private
Greek Orthodox Church	91067.012.1	MW/HITE02 - 2021-05-18 07:16:25 -- Please clean out the drop inlets in the parking lot. Please remove accumulated sediment and debris from the parking lot in front of the basin. Please maintain the vegetation in the basin.	05/19/2021	Yes	Infiltration Practices	0		Private
The Anchorage-South Hampton Roads Support Housing	1158.1	MW/HITE02 - 2021-05-18 13:52:23 -- Please remove trash and debris from within and around the detention basin. Please clear vegetation and debris off of the outlet structure. Please address the pipe in front of the inlet pipe to the BMP.	05/18/2021	Yes	Detention Basin	0		Private
711	1161.1	MW/HITE02 - 2021-05-18 07:58:59 -- Please uncover and clean out the accumulated sediment and debris from the trench drains.	05/18/2021	Yes	Infiltration Practices	0		Private
HRT Station Wards Corner	1402.1	MW/HITE02 - 2021-05-18 08:43:09 -- Please remove accumulated sediment from curb inlets. Please remove woody vegetation from basin bottom and sides. Please re-stabilize portions of the swales that have been eroded and denuded. Please remove the accumulated sediment, debris, and trash and maintain the vegetation around the outfalls into the basin.	05/18/2021	Yes	Detention Basin	0		Private
Langley Federal Credit Union	1455.1	MW/HITE02 - 2021-05-18 08:16:25 -- Please clear the mulch, debris, and sediment from the inlet grates and infiltration pipes.	05/18/2021	Yes	Infiltration Practices	0		Private
Combined McKann Ave. Facility	1650.2	CLV/NLE - 2021-05-21 09:30:36 -- Please vacout out grit chamber to remove accumulated sediment.	05/18/2021	Yes	Manufactured BMP Systems	0		Public
Combined McKann Ave. Facility	1650.3	CLV/NLE - 2021-05-21 09:22:50 -- Please vacout out grit chamber to remove accumulated sediment.	05/18/2021	Yes	Manufactured BMP Systems	0		Public
Duplex	03-0096.1	MW/HITE02 - 2021-05-20 14:47:17 -- BMP is well maintained.	05/20/2021	No	Infiltration Practices	0		Private
The Ballentine Expansion	14-0074.1	MW/HITE02 - 2021-05-20 15:20:27 -- BMP is holding water, please vacuum out.	05/20/2021	Yes	Manufactured Treatment Device	0		Private
Parkdale Day School	91067.032.1	MW/HITE02 - 2021-05-20 12:39:05 -- OK, property owner is preparing to sell and may restore.	05/20/2021	No	Infiltration Practices	0		Private
Ballentine Home	99-4189.1	MW/HITE02 - 2021-05-20 15:20:58 -- BMP is holding water, please vacuum out.	05/20/2021	Yes	Infiltration Practices	0		Private
Townhouses	1291.1	MW/HITE02 - 2021-05-20 14:40:13 -- Downspouts connected to UIG infiltration trenches. OK.	05/20/2021	No	Infiltration Practices	0		Private
Tabernacle Church	1537.1	MW/HITE02 - 2021-05-20 13:51:29 -- Please maintain vegetation in the basin. Please clear the areas around the inlet pipes so that they are visible. Please make sure both pipes in the outlet control structure are visible on both sides. Please place rip rap by the inlet pipes to create dissipation where the water is pulling. There is something blocking the flow of water from the catch basin in the parking lot to the BMP. Please address this.	05/20/2021	Yes	Extended Detention Basin	1	5/28/2021	Private
Infinite Day School	00-4467.1	MW/HITE02 - 2021-05-21 14:22:11 -- Grass swale appears to be functioning and well maintained.	05/21/2021	No	Infiltration Practices	0		Private
First Baptist Church of Bolling Brook	01-0057.1	MW/HITE02 - 2021-05-21 14:39:41 -- DI is dry and mostly free of sediment.	05/21/2021	No	Infiltration Practices	0		Private
Senior Housing Development	02-0158.1	MW/HITE02 - 2021-05-21 07:43:02 -- Please address the sinkhole on the right side (looking at it from the building) of the basin. Please address any trash in the basin and any vegetation growing through the bulkhead.	05/21/2021	Yes	Wet Pond	0		Private
Duplex	06-0069.1	MW/HITE02 - 2021-05-21 12:32:31 -- BMP is well maintained.	05/21/2021	No	Infiltration Practices	0		Private
Duplex	06-0069.2	MW/HITE02 - 2021-05-21 12:32:04 -- BMP is well maintained.	05/21/2021	No	Infiltration Practices	0		Private
Duplex	06-0070.1	MW/HITE02 - 2021-05-21 12:32:42 -- BMP is well maintained. Spoke with resident, bmp is functioning as intended.	05/21/2021	No	Infiltration Practices	0		Private
Duplex	06-0070.2	MW/HITE02 - 2021-05-21 12:33:10 -- BMP is well maintained.	05/21/2021	No	Infiltration Practices	0		Private
Medical Center	06-0052.1	MW/HITE02 - 2021-05-21 14:29:53 -- BMPs are behind locked gates in back of buildings. Appeared to be functioning and maintained.	05/21/2021	No	Bioswale	0		Private
Grantham Square	06-0117.1	MW/HITE02 - 2021-05-21 14:55:51 -- Very minimal sediment.	05/21/2021	No	Permeable Pavement	0		Private
Grantham Square	06-0117.2	MW/HITE02 - 2021-05-21 15:04:13 -- Downspouts connected to uig infiltration trench. OK.	05/21/2021	No	Infiltration Practices	0		Private
Ray and Joan Kroc Center	11-0065.2	ADOAN - 2021-06-03 07:51:08 -- Remove accumulated sediment and leaf debris from pervious concrete gutters and inlets throughout the site.	05/21/2021	Yes	Permeable Pavement	0		Private
Lake Taylor Field House	14-0008.1	ADOAN - 2021-05-24 08:27:59 -- BMP well maintained.	05/21/2021	No	Rooftop or Impervious Surface Disconnect	0		Public
Lake Taylor Field House	14-0009.2	ADOAN - 2021-05-24 08:30:03 -- BMP well maintained.	05/21/2021	No	Rooftop or Impervious Surface Disconnect	0		Public
Archers Green Apartments	91067.006.1	MW/HITE02 - 2021-05-21 13:22:05 -- Please clear sediment and debris out of the infiltration pipes and adjacent stormwater structures.	05/21/2021	Yes	Infiltration Practices	0		Private
Christopher Court	92067.043.1	ADOAN - 2021-05-24 08:35:47 -- BMP in good condition.	05/21/2021	No	Detention Basin	0		Public
Ballentine Elementary School Lake	52.1	ADOAN - 2021-05-24 08:06:30 -- Pond in good condition. Pond elevation is down due to lack of rainfall. Small dead fish line the banks due to the rise in salinity due to lack of rainfall.	05/21/2021	No	Wet Pond	0		Public
New Hope Christian Community Church	1343.1	MW/HITE02 - 2021-05-21 12:45:44 -- BMP is well maintained.	05/21/2021	No	Infiltration Practices	0		Private
New Hope Christian Community Church	1343.2	MW/HITE02 - 2021-05-21 12:46:24 -- BMP is well maintained.	05/21/2021	No	Infiltration Practices	0		Private
Mount Pleasant Baptist Church Parking Lot	1593.1	MW/HITE02 - 2021-05-21 13:55:52 -- Please remove accumulated trash, debris, and sediment from the basin, inlet draining into the basin, drop inlet in the parking lot, and the inlet pipe into the basin from the parking lot.	05/21/2021	Yes	Detention Basin	1	6/7/2021	Private
Walmart @ Tidewater	05-0074.1	MW/HITE02 - 2021-05-24 07:45:05 -- Could not enter due to fence, appeared to be maintained and functioning.	05/24/2021	No	Wet Pond	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Trail of the Tiger Exhibit	07-0126.1	MV/HITE02 - 2021-05-24 13:03:49 -- Please maintain the Stormfilter in accordance with the manufacturer's specifications and provide maintenance records. There are a few inches of accumulated sediment and the filter media may need to be replaced depending on the manufacturer's maintenance specifications. ; MV/HITE02 - 2021-05-24 15:23:26 -- Sediment was about a foot and the cartridges will need to be replaced. ;	05/24/2021	Yes	Manufactured Treatment Device	0		Public
Parking Lot	08-0103.1	ADOAN - 2021-05-24 12:43:27 -- Repair curb it next to curb inlet. ; WO requested. ;	05/24/2021	Yes	Infiltration Practices	0		Public
Parking Lot	08-0103.2	ADOAN - 2021-05-24 12:50:53 -- Remove accumulated sediment from gutters in parking area and around curb inlets. ;	05/24/2021	No	Infiltration Practices	0		Public
Parking Lot	08-0103.3	ADOAN - 2021-05-24 12:53:27 -- Remove accumulated sediment and leaf litter from gutters in parking area and around curb inlets. ; WO requested. ;	05/24/2021	No	Infiltration Practices	0		Public
Ray and Joan Kroc Center	11-0085.1	ADOAN - 2021-05-24 12:22:36 -- BMP well maintained. PM maintenance was completed in March 2021. ;	05/24/2021	No	Wet Pond	0		Public
Parkdale Channel Improvements	15-0011.1	ADOAN - 2021-05-24 13:59:31 -- Conservation Management Area. Do Not Mow or Clear Vegetation. ;	05/24/2021	No	Stream Restoration	0		Public
Watermark at Talbot Park - Ph. I	15-0036.1	MV/HITE02 - 2021-05-24 08:04:51 -- Please clean mulch out of overflow drop inlet structure. Please remove accumulated sediment from curb and gutter, curb cuts, and the stone dissipation paths at the curb cuts. ;	05/24/2021	Yes	Bioretention 1	0		Private
Watermark at Talbot Park - Ph. I	15-0036.2	MV/HITE02 - 2021-05-24 08:14:56 -- Please remove accumulated sediment from curb and gutter, curb cuts, and the stone dissipation paths at the curb cuts. ;	05/24/2021	Yes	Bioretention 1	0		Private
Watermark at Talbot Park - Ph. I	15-0036.3	MV/HITE02 - 2021-05-24 08:10:48 -- Please clean mulch out of overflow drop inlet structure. Please remove accumulated sediment from curb and gutter, curb cuts, and the stone dissipation paths at the curb cuts. ;	05/24/2021	Yes	Bioretention 1	0		Private
Virginia Zoo Exhibit Building Renovation	17-0019.1	MV/HITE02 - 2021-05-24 12:32:14 -- BMP is functioning, observation wells are dry. Mark Schwartz is going to address where downspout has caused erosion across the road. ;	05/24/2021	No	Bioretention 1	0		Public
Norfolk Cruise Terminal	05-0060.1	MV/HITE02 - 2021-05-25 09:47:07 -- Will be maintained in August based on PM. ;	05/25/2021	No	Manufactured Treatment Device	0		Public
Norfolk Cruise Terminal	05-0060.2	MV/HITE02 - 2021-05-25 09:42:08 -- OK. PM scheduled for August. ;	05/25/2021	No	Manufactured Treatment Device	0		Public
Walmart @ Tidewater	05-0074.2	MV/HITE02 - 2021-05-25 14:14:09 -- Please maintain the Vortechics unit according to the manufacturer's specifications and provide a maintenance record. ;	05/25/2021	Yes	Manufactured Treatment Device	0		Private
Walmart @ Tidewater	05-0074.3	MV/HITE02 - 2021-05-25 14:20:34 -- Please maintain the Vortechics unit according to the manufacturer's specifications and provide a maintenance record. ;	05/25/2021	Yes	Manufactured Treatment Device	0		Private
Consolidated Courts Complex	10-0060.1	MV/HITE02 - 2021-05-25 10:43:08 -- Dis are holding water, please clean out the Dis and underdrain. Please remove and replace any dead vegetation. ;	05/25/2021	Yes	Bioretention	0		Public
Consolidated Courts Complex	10-0060.2	MV/HITE02 - 2021-05-25 10:50:16 -- Please clear debris and sediment from the Dis. ;	05/25/2021	Yes	Bioretention	0		Public
Consolidated Courts Complex	10-0060.3	MV/HITE02 - 2021-05-25 10:56:49 -- Remove any accumulated sediment and debris from the drop inlets. Maintain any overgrown vegetation. ;	05/25/2021	Yes	Bioretention	0		Public
Consolidated Courts Complex	10-0060.4	MV/HITE02 - 2021-05-25 10:35:47 -- Catch is on PM for September, annual maintenance appears to be sufficient at this time. ;	05/25/2021	No	Manufactured Treatment Device	0		Public
Zoo-Animal Wellness Center	11-0082.1	MV/HITE02 - 2021-05-25 08:26:14 -- OK, minor sediment accumulation in parking lot and at curb-cut inlets. ;	05/25/2021	No	Detention Basin	0		Public
Zoo-Animal Wellness Center	11-0082.2	MV/HITE02 - 2021-05-25 08:29:59 -- OK, minorly denuded. ;	05/25/2021	No	Detention Basin	0		Public
Zoo-Animal Wellness Center	11-0082.3	MV/HITE02 - 2021-05-25 08:46:16 -- OK, DI was clean. ;	05/25/2021	No	Detention Basin	0		Public
Zoo-Animal Wellness Center	11-0082.4	MV/HITE02 - 2021-05-25 08:48:58 -- Replaced with wet pond, reference previous inspections. ;	05/25/2021	No	Detention Basin	0		Public
Virginia Zoological Park, Phase I	1473.1	MV/HITE02 - 2021-05-25 07:59:58 -- Could not open more than one door on sand filter shell. Per maintenance recommendations it needs to be pumped out. Schedule time to meet on site and see if the vector truck can get in there. ;	05/25/2021	Yes	Sand Filter	0		Public
Norfolk Yacht and Country Club	00-4333.1	MV/HITE02 - 2021-05-26 13:37:47 -- Please inspect and maintain the Vortech unit in accordance with the manufacturer's specifications and provide a copy of the maintenance records. ;	05/26/2021	Yes	Manufactured Treatment Device	1	6/8/2021	Private
Jack Rabbit Self-Storage	06-0115.1	MV/HITE02 - 2021-05-26 14:15:29 -- Please maintain the Stormceptor in accordance with the manufacturer's specifications and provide a copy of the inspection and maintenance record. ;	05/26/2021	Yes	Manufactured Treatment Device	0		Private
Jack Rabbit Self-Storage	06-0115.2	MV/HITE02 - 2021-05-26 14:20:25 -- Swale is ok, keep an eye on vegetation next time. ;	05/26/2021	No	Grass Channel	0		Private
Commerce Bank	06-0146.1	MV/HITE02 - 2021-05-26 15:21:23 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance record. Tree is overgrown and growing into the grate, it needs to be replaced. Please remove accumulated debris and sediment from inlet. ;	05/26/2021	Yes	Manufactured Treatment Device	0		Private
Southwind Apartments	08-0001.1	MV/HITE02 - 2021-05-26 13:05:51 -- Minor trash, spoke with manager who said they were planning to skim the pond as soon as the water level goes up a little. ;	05/26/2021	No	Wet Pond	0		Private
Dunkin Donuts	15-0051.1	MV/HITE02 - 2021-05-26 13:14:30 -- Please remove trash and accumulated sediment from the curb cut inlets. Please clean out the outlet control structure and remove mulch from the top of it. Please re-establish grass in the denuded areas of the basin. ; MV/HITE02 - 2021-05-26 13:16:07 -- Please remove trash from the basin and surrounding areas. ;	05/26/2021	Yes	Bioretention 1	0		Private
Commonwealth Building Materials	1285.1	MV/HITE02 - 2021-05-26 08:03:05 -- Please replace hay bales around the perimeter per the approved plans. Please refresh stone and remove accumulated sediment and debris. ;	05/26/2021	Yes	Infiltration Practices	0		Private
Wawa Food Market	05-0046.1	MV/HITE02 - 2021-05-27 10:56:44 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records. ;	05/27/2021	Yes	Manufactured Treatment Device	0		Private
Wawa Food Market	05-0046.2	MV/HITE02 - 2021-05-27 10:59:32 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a maintenance record. The tree is growing into the grate and needs to be replaced. Please remove all trash and debris from the unit and the inlet. ;	05/27/2021	Yes	Manufactured Treatment Device	0		Private
Wawa Food Market	05-0046.3	MV/HITE02 - 2021-05-27 07:29:20 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a maintenance record. The tree is missing and needs to be replaced. Please remove all trash and debris from the unit and the inlet. ;	05/27/2021	Yes	Manufactured Treatment Device	0		Private
Knitting Mill Creek Living Shoreline	13-0050.1	ADOAN - 2021-06-10 08:07:44 -- 1.Is there considerable erosion between the low marsh and riprap? no ; 2.Is there a large amount of accumulated sediment on the riprap? no ; 3.Is there considerable erosion along the high marsh or buffer edge? yes ; 4.Is the low marsh well vegetated and thriving? yes ; 5.Is the high marsh well vegetated and thriving? yes ; 6.Is the buffer zone well vegetated and thriving? yes ; 7.Is there a noticeable presence of aquatic life in the shoreline? yes ; 8.Is there a large amount of wreck accumulation that may hinder plant survival? no ; 9.Is there a considerable amount of litter and debris present? no ; 10.Are passive water access sites in good condition? n/a ;	05/27/2021	Yes	Shoreline Management	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Beach Avenue Living Shoreline	16-0093.1	ADOAN - 2021-06-09 15:26:11 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? no 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? no The kayak area needs some additional gravel for stabilization.	05/27/2021	No	Shoreline Management	0		Public
Beach Avenue Living Shoreline	16-0093.2	ADOAN - 2021-06-10 07:48:20 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? yes 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? n/a	05/27/2021	Yes	Shoreline Management	0		Public
North Shore Road Living Shoreline	17-0023.1	ADOAN - 2021-06-22 08:09:07 -- 1. Is there considerable erosion between the low marsh and riprap? yes 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? yes 4. Is the low marsh well vegetated and thriving? no 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? yes 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? n/a	05/27/2021	Yes	Shoreline Management	0		Public
LaValette Living Shoreline	S100.1	ADOAN - 2021-06-10 07:55:49 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes  7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? no 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? yes	05/27/2021	No	Shoreline Management	0		Public
LaValette Living Shoreline	S100.2	ADOAN - 2021-06-10 07:59:23 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? yes 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? yes	05/27/2021	Yes	Shoreline Management	0		Public
LaValette Living Shoreline	S100.3	ADOAN - 2021-06-10 08:02:26 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes  8. Is there a large amount of wrack accumulation that may hinder plant survival? no 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? yes	05/27/2021	No	Forest Buffer More Than 35ft Wide	0		Public
Malloy Country Club	01-0019.1	MWWHITE02 - 2021-05-28 14:32:18 -- DI was clear of sediment.	05/28/2021	No	Infiltration Practices	0		Private
Ghent Arms	03-0169.1	MWWHITE02 - 2021-05-28 14:15:21 -- BMP is well maintained.	05/28/2021	No	Infiltration Practices	0		Private
Westover Commons	03-110.1	MWWHITE02 - 2021-05-28 13:56:57 -- Minor sediment accumulation in yard basin, other DIs were clear.	05/28/2021	No	Infiltration Practices	0		Private
Cricket Inn	08-0026.1	MWWHITE02 - 2021-05-28 14:57:01 -- Some accumulation of liner sediment in spots.	05/28/2021	No	Permeable Pavement	0		Private
Dunkin Donuts	08-0055.1	MWWHITE02 - 2021-05-28 15:10:44 -- Please remove accumulated sediment from curb cut inlets and the curb line. Please remove all accumulated trash and debris and dispose of it lawfully. Please remove accumulated sediment and debris from within and on top of the outlet control structure.	05/28/2021	Yes	Bioretention	0		Private
Partree Apartments	13-0026.1	MWWHITE02 - 2021-05-28 07:43:18 -- Holding some water but no sediment, did not see any observation ports. ; MWWHITE02 - 2021-05-28 13:44:23 -- Could not open manhole because the car was parked on it. No sediment in drop inlet or pipe from best I could see. ;	05/28/2021	No	Manufactured Treatment Device	0		Private
Sam's Club	14-0049.1	MWWHITE02 - 2021-05-28 08:42:50 -- Please maintain the Stormceptor in accordance with the manufacturer's specifications and please provide a copy of the maintenance log. ;	05/28/2021	Yes	Manufactured Treatment Device	0		Private
Sam's Club	14-0049.2	MWWHITE02 - 2021-05-28 08:31:40 -- Please maintain the Oil-Water Separator in accordance with the manufacturer's specifications and please provide a copy of the maintenance log. ;	05/28/2021	Yes	Manufactured Treatment Device	0		Private
Partree Site Improvements	15-0021.1	MWWHITE02 - 2021-05-28 07:48:44 -- Previous pavers appear well maintained.	05/28/2021	No	Permeable Pavement 1	0		Private
EVMS Parking Garage Addition	09-0050.1	MWWHITE02 - 2021-06-01 15:01:52 -- Please maintain the Filterra unit in accordance with the manufacturer's specifications and provide a copy of the maintenance records. ;	06/01/2021	Yes	Manufactured Treatment Device	0		Private
Crossroads Elementary Rebuild	10-0031.1	ADOAN - 2021-06-02 14:01:02 -- BMP well maintained.	06/01/2021	No	Permeable Pavement	0		School

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Crossroads Elementary Rebuild	10-0031.2	ADOAN - 2021-06-02 14:00:46 -- BMP well maintained.	06/01/2021	No	Cisterns and Rain Barrels	0		School
Granby High School Renovations	T345.1	ADOAN - 2021-06-02 13:23:49 -- BMP well maintained.	06/01/2021	No	Infiltration Practices	0		School
Granby High School Renovations	T345.2	ADOAN - 2021-06-02 13:24:13 -- Remove leaf litter from BMP. Locate and clear drop inlet with the BMP.	06/01/2021	Yes	Infiltration Practices	0		School
Granby High School Renovations	T345.3	ADOAN - 2021-06-02 13:25:24 -- Remove accumulated sediment and leaf litter throughout the BMP. Located and clear sediment and leaf litter from drop inlet.	06/01/2021	Yes	Infiltration Practices	0		School
Granby High School Renovations	T345.4	ADOAN - 2021-06-02 13:23:32 -- BMP well maintained.	06/01/2021	No	Infiltration Practices	0		School
Ronald McDonald House	01-0031.1	MVWHITE02 - 2021-06-02 10:33:17 -- Please clear accumulated sediment from the inlet pipe and from the curb cut inlet.	06/02/2021	Yes	Bioretention	1	6/17/2021	Private
EVMS Parking Lot	01-0176.1	MVHITE02 - 2021-06-02 14:11:31 -- Minor debris in the middle DI. Parking lot in front of EVMS parking structure.	06/02/2021	No	Infiltration Practices	0		Private
Sentara Parking Garage Expansion	07-0042.1	MVHITE02 - 2021-06-02 15:00:21 -- BMP is well maintained.	06/02/2021	No	Grass Channel	0		Private
Sentara Parking Garage Expansion	07-0042.2	MVHITE02 - 2021-06-02 14:57:35 -- BMP is well maintained.	06/02/2021	No	Grass Channel	0		Private
Sentara Parking Garage Expansion	07-0042.3	MVHITE02 - 2021-06-02 14:54:00 -- Swale is present and well maintained.	06/02/2021	No	Grass Channel	0		Private
EVMS roadway widening	07-0090.1	MVHITE02 - 2021-06-02 14:41:29 -- Curb cuts are clear and BMP is well maintained. Keep an eye on the DI, it is somewhat covered by rocks and mulch but did not appear to have much sediment in it.	06/02/2021	No	Bioretention	0		Private
Ghent Village	14-0096.1	MVHITE02 - 2021-06-02 10:18:18 -- Swale hard to distinguish, dry.	06/02/2021	No	Grass Channel	0		Private
Hillcrest Townhouses	T474.1	MVHITE02 - 2021-06-02 09:56:15 -- Infiltration trenches in the backyards, OK.	06/02/2021	No	Infiltration Practices	0		Private
WHRO building addition	00-4523.1	MVHITE02 - 2021-06-03 13:15:52 -- Enclosed within security fence, appears to be functioning and free of debris.	06/03/2021	No	Infiltration Practices	0		Private
University Pizza Parking	02-0265.1	MVHITE02 - 2021-06-03 13:03:26 -- Grass swale is hard to distinguish.	06/03/2021	No	Grass Channel	0		Private
Verizon Virginia, Inc.	02-0283.1	MVHITE02 - 2021-06-03 12:57:41 -- Infiltration basins are well maintained.	06/03/2021	No	Infiltration Practices	0		Private
Buena Silverstream & Service Center	04-0481.1	ADOAN - 2021-06-07 09:39:12 -- MOWS periodic preventive maintenance in May 2021.	06/03/2021	No	Manufactured Treatment Device	0		Private
Miller Gas Station	04-0067.1	MVHITE02 - 2021-06-03 13:25:57 -- Please maintain the Filtrus unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/03/2021	Yes	Manufactured Treatment Device	0	6/15/2021	Private
FOR Kids Residence	04-0120.1	MVHITE02 - 2021-06-03 13:55:21 -- Railroad timbers at walkway serving as check dam. Swale not very defined.	06/03/2021	No	Infiltration Practices	0		Private
Duplex	04-0125.1	MVHITE02 - 2021-06-03 14:41:59 -- Please remove vegetation growing into the BMP. Please address any areas of erosion and clear any accumulated sediment.	06/03/2021	Yes	Infiltration Practices	0		Private
Townhouses	06-0003.1	MVHITE02 - 2021-06-03 13:47:15 -- It rained day of the inspection, appears to be functioning well.	06/03/2021	No	Extended Detention Basin	0		Private
Cullifer Construction Company	T282.1	MVHITE02 - 2021-06-03 12:49:51 -- Underground infiltration basin appeared to be functioning.	06/03/2021	No	Infiltration Practices	0	1/0/1900	Private
Mazzika Restaurant	T4.1	MVHITE02 - 2021-06-03 15:17:08 -- Please clear accumulated sediment and debris from curb-cut inlets.	06/03/2021	Yes	Infiltration Practices	0		Private
Teagle and Little	00-4352.1	MVHITE02 - 2021-06-04 15:25:58 -- Basin is functioning. The portion on the backside is nearly indistinguishable.	06/04/2021	No	Detention Basin	0		Private
CHKD Parking Lot	05-0169.1	MVHITE02 - 2021-06-04 15:20:20 -- BMP has been paved over. Please restore BMP.	06/04/2021	Yes	Permeable Pavement	0		Private
AAAA Self Storage	01-0166.1	MVHITE02 - 2021-06-07 08:53:25 -- Please maintain the vegetation in the BMP. Please remove any accumulated trash and debris.	06/07/2021	Yes	Detention Basin	0		Private
Affordable Towing and Recovery	02-0117.1	MVHITE02 - 2021-06-07 13:12:15 -- Basin full of water after two days of rain. Rain ended ~30 minutes before inspection.	06/07/2021	No	Detention Basin	0		Private
MHI Building Addition and Bulkhead	06-0144.1	MVHITE02 - 2021-06-07 08:23:15 -- Please maintain the Baysaver unit per the manufacturer's specifications and provide a copy of the maintenance record.	06/07/2021	Yes	Manufactured Treatment Device	0		Private
Buxemore's	T705.1	MVHITE02 - 2021-06-07 07:20:18 -- Please maintain the Vortechunits unit per the manufacturer's specifications and provide a copy of the maintenance records.	06/07/2021	Yes	Manufactured Treatment Device	0		Private
Turbo Wash Dry Cleaners	T755.1	MVHITE02 - 2021-06-07 07:13:16 -- Denuded in spots but dry after a day of rain.	06/07/2021	No	Infiltration Practices	0		Private
Shell	00-4243.1	MVHITE02 - 2021-06-08 10:39:49 -- Please remove overgrown vegetation from within the basin. Please remove trash and debris. Please remove accumulated sediment from inlet and outlet pipes and the drop inlet.	06/08/2021	Yes	Detention Basin	0		Private
VIT Office Building	05-0112.1	MVHITE02 - 2021-06-08 14:13:59 -- BMP is well maintained.	06/08/2021	No	Wet Pond	0		Private
Park Place Central	T566.1	MVHITE02 - 2021-06-08 10:27:57 -- BMP is well maintained. About 3.5 ft of water in observation well following rain this week.	06/08/2021	No	Detention Basin	0		Private
First Baptist Church of Lamberts Point	T698.1	MVHITE02 - 2021-06-08 10:17:24 -- Roughly 1 to 2 inches of water in the drop inlets, minimal sediment.	06/08/2021	No	Infiltration Practices	0		Private
Islamic Center	10-0050.1	MVHITE02 - 2021-06-09 15:25:03 -- Appears to be functioning. Pipe coming from the street is not on the plans.	06/09/2021	No	Bioretention	0		Private
Village Point Senior Housing	00-4322.3	MVHITE02 - 2021-06-10 08:47:34 -- Please clear accumulated sediment and debris from the drop inlet structures and underground infiltration pipes.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Point Senior Housing	00-4332.1	MVHITE02 - 2021-06-10 08:42:23 -- Please clear accumulated sediment and debris from the drop inlet structures and underground infiltration pipes.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Point Senior Housing	00-4332.2	MVHITE02 - 2021-06-10 08:50:31 -- Please clear accumulated sediment and debris from the drop inlet structures and underground infiltration pipes.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Point Senior Housing	00-4332.4	MVHITE02 - 2021-06-10 08:49:50 -- Please clear accumulated sediment and debris from the drop inlet structures and underground infiltration pipes.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Point Senior Housing	00-4332.5	MVHITE02 - 2021-06-10 08:57:24 -- Please clear accumulated sediment and debris from the drop inlet structures and underground infiltration pipes.	06/10/2021	Yes	Infiltration Practices	0		Private
Building Addition - Baker and Company	03-0267.1	MVHITE02 - 2021-06-10 07:18:06 -- Please remove vegetation from inlet pipe discharging into the BMP. Please remove vegetation from the outlet structure. Please maintain the vegetation.	06/10/2021	Yes	Extended Detention Basin	0		Private
Boling Square Apartments Phase I	03-0280.1	MVHITE02 - 2021-06-10 10:14:26 -- Please remove any obstructions from the curb cut inlets.	06/10/2021	Yes	Bioretention	0		Private
Boling Square Apartments Phase I	03-0280.2	MVHITE02 - 2021-06-10 10:21:21 -- BMP is well maintained.	06/10/2021	No	Bioretention	0		Private
Boling Square Apartments Phase I	03-0280.3	MVHITE02 - 2021-06-10 10:23:15 -- BMP is well maintained.	06/10/2021	No	Grass Channel	0		Private
Duplex	04-0072.1	MVHITE02 - 2021-06-10 15:12:47 -- BMP has been maintained and the kitty litter? was cleaned up.	06/10/2021	No	Bioretention	0		Private
Townhomes	04-0132.1	MVHITE02 - 2021-06-10 14:47:25 -- BMP is well maintained.	06/10/2021	No	Infiltration Practices	0		Private
Townhomes	04-0132.2	MVHITE02 - 2021-06-10 14:50:32 -- Watch for sediment accumulation in the future. No evidence of ponding after rain yesterday.	06/10/2021	No	Permeable Pavement	0		Private
Village Garden Senior Housing	08-0056.1	MVHITE02 - 2021-06-10 09:28:10 -- Please clear accumulated sediment from the drop inlet.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Garden Senior Housing	08-0056.2	MVHITE02 - 2021-06-10 09:29:35 -- Please address erosion in the bottom of the basin where you can see the filter fabric.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Garden Senior Housing	08-0056.3	MVHITE02 - 2021-06-10 09:24:25 -- Please clean out infiltration trench and drop inlets.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Garden Senior Housing	08-0056.4	MVHITE02 - 2021-06-10 09:21:33 -- Please clean out infiltration trench and drop inlets.	06/10/2021	Yes	Infiltration Practices	0		Private
Village Garden Senior Housing	08-0056.5	MVHITE02 - 2021-06-10 09:12:12 -- Please clean out infiltration trench and drop inlets. Please also clean out the drop inlets in the parking lot that are holding water.	06/10/2021	Yes	Bioretention	0		Private
Faxon-Sutherland Bldg	08-0089.1	MVHITE02 - 2021-06-10 15:24:34 -- BMP has been maintained.	06/10/2021	No	Extended Detention Basin	0		Private
Faxon-Sutherland Bldg	08-0089.2	MVHITE02 - 2021-06-10 15:27:47 -- BMP has been maintained.	06/10/2021	No	Infiltration Practices	0		Private
Duplex Lot X	08-0091.1	MVHITE02 - 2021-06-10 14:36:45 -- BMP is well maintained.	06/10/2021	No	Bioretention	0		Private
Duplex Lot X	08-0091.2	MVHITE02 - 2021-06-10 14:37:00 -- BMP is well maintained.	06/10/2021	No	Bioretention	0		Private
Global Friendship House	11-0074.1	MVHITE02 - 2021-06-10 08:10:54 -- Bottom of basin was still a little wet from last rain a couple days prior. Keep an eye out for basin holding water during next inspection.	06/10/2021	No	Detention Basin	0		Private
Kilom Avenue Eatery	12-0016.1	MVHITE02 - 2021-06-10 07:36:27 -- Infiltration trench, OK.	06/10/2021	No	Infiltration Practices	0		Private
Baldino Builders	12-0033.1	MVHITE02 - 2021-06-10 15:03:10 -- BMP is well maintained.	06/10/2021	No	Bioretention	0		Private
Boling Square Phase 2	13-0090.1	MVHITE02 - 2021-06-10 10:02:05 -- Minor sediment accumulation near curb cuts.	06/10/2021	No	Bioretention	0		Private
7-11 Colley Avenue	16-0020.1	MVHITE02 - 2021-06-10 07:48:54 -- Please maintain the Oil-Water Separator according to the manufacturer's specifications and provide a copy of the maintenance record.	06/10/2021	Yes	Manufactured Treatment Device	0		Private
Claremont Commons	04-0045.1	MVHITE02 - 2021-06-11 14:34:45 -- Could not open observation well.	06/11/2021	No	Infiltration Practices	0		Private

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Claremont Commons	04-0045.2	MW/HITE02 - 2021-06-11 14:28:53 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records. Please clear accumulated sediment and debris from the pipe and the drop inlet on Redgate Ave.;	06/11/2021	Yes	Manufactured Treatment Device	0		Private
Taco Bell	05-0123.1	MW/HITE02 - 2021-06-11 15:04:17 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance record. The tree is growing into the grate and will have to be replaced.;	06/11/2021	Yes	Manufactured Treatment Device	0		Private
Taco Bell	05-0123.2	MW/HITE02 - 2021-06-11 15:06:49 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance record. The tree is growing into the grate and will have to be replaced.;	06/11/2021	Yes	Manufactured Treatment Device	0		Private
Taco Bell	05-0123.3	MW/HITE02 - 2021-06-11 15:07:05 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance record. The tree is growing into the grate and will have to be replaced.;	06/11/2021	Yes	Manufactured Treatment Device	0		Private
Duplex	07-0074.1	MW/HITE02 - 2021-06-11 14:15:05 -- BMP is well maintained.;	06/11/2021	No	Grass Channel	0		Private
Floor Busters	08-0047.1	MW/HITE02 - 2021-06-11 13:04:27 -- Gravel swale covered by dumpsters, materials, and debris. Please address this.;	06/11/2021	Yes	Grass Channel	0		Private
Floor Busters	08-0047.2	MW/HITE02 - 2021-06-11 13:05:29 -- Gravel swale and filter strip covered by materials and debris. Please address this.;	06/11/2021	Yes	Vegetated Filter Strip	0		Private
Mount Hermon Baptist Church Parking Addition	09-0058.1	MW/HITE02 - 2021-06-11 12:30:51 -- Please clear accumulated sediment from the curb cut inlet and curb line. Please remove accumulated debris and sediment from the drop inlet.;	06/11/2021	Yes	Extended Detention Basin	0		Private
Mount Hermon Baptist Church Parking Addition	09-0058.2	MW/HITE02 - 2021-06-11 12:35:38 -- Please clear accumulated sediment from the curb cut inlet.;	06/11/2021	Yes	Detention Basin	0		Private
Mount Hermon Baptist Church Parking Addition	09-0058.3	MW/HITE02 - 2021-06-11 12:37:40 -- Please clear accumulated sediment and debris from the parking lot. Holding water from rain last night. Structures downstream were blocked.;	06/11/2021	Yes	Detention Basin	0		Private
Heritage Bank & Trust	1457.1	MW/HITE02 - 2021-06-11 13:42:07 -- OK.;	06/11/2021	No	Infiltration Practices	0		Private
Heritage Bank & Trust	1457.2	MW/HITE02 - 2021-06-11 13:49:29 -- Please regrade the infiltration basin to ensure positive drainage from the parking lot's curb cut inlet into the infiltration basin. Please remove the pipe from the curb. It is against city code to convey water across the sidewalk.;	06/11/2021	Yes	Infiltration Practices	0		Private
First Presbyterian Church	06-0125.1	MW/HITE02 - 2021-06-14 07:25:30 -- Previous pavers in good condition and appear to be functioning well.;	06/14/2021	No	Permeable Pavement	0		Private
First Presbyterian Church	06-0125.2	MW/HITE02 - 2021-06-14 07:31:48 -- Please maintain the Filterra unit in accordance with the manufacturer's specifications and provide a copy of the maintenance records.;	06/14/2021	Yes	Manufactured Treatment Device	0		Private
BP Gas Station	1106.1	MW/HITE02 - 2021-06-14 10:47:02 -- Please clear accumulated sediment and debris from the curb cut inlet, the drop inlet, and the underground infiltration trench.;	06/14/2021	Yes	Infiltration Practices	0		Private
Grand Furniture	10-0052.1	CL/VANLE - 2021-06-15 09:34:29 -- Please remove excessive litter and debris from retention basin, not only along the embankments, but all of the debris that has settled on the basin bottom. Please devise a way to keep trash from getting into the basin (litter from this site has been found on adjacent properties). Please remove excessive leaf litter that is along edge of basin. There appears to be a clog in the inlet pipe into the pond, please have this vectored out to remove sediment accumulation and allow the pipes to function as designed. Please have the pond surveyed to provide elevations to ensure basin's function is per approved plans.;	06/15/2021	Yes	Wei Pond	0		Private
Mixed Use Building	12-0082.1	MW/HITE02 - 2021-06-15 12:34:26 -- Could not gain access. Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.;	06/15/2021	Yes	Manufactured Treatment Device	0		Private
NRHA Broad Creek Ph. 5	14-0022.1	MW/HITE02 - 2021-06-15 14:37:46 -- Please remove overgrown vegetation near the inlets/outlets. Please maintain overgrown vegetation as part of routine maintenance and remove any cat tails. Please remove all trash and debris from within and around the basin.;	06/15/2021	Yes	Extended Detention Basin	0		Public
Duplex	1776.1	MW/HITE02 - 2021-06-15 13:42:58 -- OK, area is dry.;	06/15/2021	No	Infiltration Practices	0		Private
Duplex	1776.2	MW/HITE02 - 2021-06-15 13:42:35 -- OK, area is dry.;	06/15/2021	No	Infiltration Practices	0		Private
1400 Sewells Point Rd- Site Improvement	20-0037.1	MW/HITE02 - 2021-06-16 07:53:04 -- Hydrodynamic separator closer to E Princess Anne Rd, near the fence.;	06/16/2021	No	Manufactured Treatment Device	0		Private
1400 Sewells Point Rd- Site Improvement	20-0037.2	MW/HITE02 - 2021-06-16 07:56:00 -- Hydrodynamic separator closer to the warehouse.;	06/16/2021	No	Manufactured Treatment Device	0		Private
1400 Sewells Point Rd- Site Improvement	20-0037.3	MW/HITE02 - 2021-06-16 07:57:57 -- Underground detention under the parking lot near E Princess Anne Rd.;	06/16/2021	No	Manufactured Treatment Device	0		Private
1400 Sewells Point Rd- Site Improvement	20-0037.4	MW/HITE02 - 2021-06-16 07:56:55 -- Underground detention under parking lot. Parking lot adjacent to the warehouse.;	06/16/2021	No	Manufactured Treatment Device	0		Private
Norfolk General New Pavilion & Parking	03-0327.2	MW/HITE02 - 2021-06-17 11:54:11 -- Please maintain overgrown vegetation and remove woody vegetation from within the basin. Please remove accumulated trash and debris and dispose of it lawfully. Please clear vegetation and debris from the inlets and outlets of the basin.;	06/17/2021	Yes	Bioretention	0		Private
Norfolk General New Pavilion & Parking	03-0327.4	MW/HITE02 - 2021-06-17 12:02:31 -- Please maintain the Stormceptor unit according to the manufacturer's specifications and provide a copy of the maintenance log.;	06/17/2021	Yes	Manufactured Treatment Device	0		Private
The Beauty Parlor	08-0078.1	MW/HITE02 - 2021-06-17 11:03:50 -- Please maintain the Flo Guard unit in accordance with the manufacturer's specifications and provide copies of the maintenance records.;	06/17/2021	Yes	Manufactured Treatment Device	0		Private
St. Paul's Place Condo	04-0055.1	MW/HITE02 - 2021-06-21 08:20:58 -- A couple of the drop inlets had a minor amount of sediment. A contractor had poured grout slurry down one of the inlets. NOV was issued and it was cleaned up by MDM Septic the same day.;	06/21/2021	No	Infiltration Practices	0		Private
St. Paul's Apartments	16-0098.1	MW/HITE02 - 2021-06-21 07:38:41 -- Urban park pervious pavers. OK.;	06/21/2021	No	Permeable Pavement 1	0		Private
St. Paul's Apartments	16-0098.2	MW/HITE02 - 2021-06-21 07:42:34 -- Dry and well maintained.;	06/21/2021	No	Permeable Pavement 1	0		Private
St. Paul's Apartments	16-0098.3	MW/HITE02 - 2021-06-21 07:47:35 -- Perv. were dry.;	06/21/2021	No	Manufactured Treatment Device	0		Private
St. Paul's Apartments	16-0098.4	MW/HITE02 - 2021-06-21 07:49:52 -- Maintenance ports dry with no sediment.;	06/21/2021	No	Manufactured Treatment Device	0		Private
North Shore Road Living Shoreline	17-0023.2	ADDOAN - 2021-06-22 08:17:28 -- 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? yes 4.Is the low marsh well vegetated and thriving? yes 5.Is the high marsh well vegetated and thriving? yes 6.Is the buffer zone well vegetated and thriving? yes 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? no 10.Are passive water access sites in good condition? n/a;	06/21/2021	Yes	Shoreline Management	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Hermitage Living Shoreline	17-0063.1	ADOAN - 2021-06-22 07:42:23 -- Shoreline needs to be replanted. 1.Is there considerable erosion between the low marsh and riprap? NO 2.Is there a large amount of accumulated sediment on the riprap? NO 3.Is there considerable erosion along the high marsh or buffer edge? yes 4.Is the low marsh well vegetated and thriving? no 5.Is the high marsh well vegetated and thriving? no 6.Is the buffer zone well vegetated and thriving? no 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? no 10.Are passive water access sites in good condition? n/a	06/21/2021	Yes	Shoreline Management	0		Private
Hermitage Living Shoreline	17-0063.2	ADOAN - 2021-06-22 07:48:58 -- Shoreline needs to be replanted. 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? no 4.Is the low marsh well vegetated and thriving? no 5.Is the high marsh well vegetated and thriving? no 6.Is the buffer zone well vegetated and thriving? no 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? no 10.Are passive water access sites in good condition? n/a	06/21/2021	Yes	Shoreline Management	0		
Norfolk General New Pavilion & Parking	03-0327.1	MW/HITE02 - 2021-06-22 12:24:20 -- Please maintain overgrown vegetation and remove woody vegetation from within the basin. Please remove accumulated trash and debris and dispose of it lawfully. Please clear vegetation and debris from the inlets and outlets of the basin.	06/22/2021	Yes	Bioretention	0		Private
Norfolk General New Pavilion & Parking	03-0327.3	MW/HITE02 - 2021-06-22 12:12:30 -- Please maintain the Stormceptor according to the manufacturer's specifications and provide a copy of the maintenance log.	06/22/2021	Yes	Manufactured Treatment Device	0		Private
EG Middleton Office Addition	06-0023.1	MW/HITE02 - 2021-06-22 08:08:41 -- Please keep vehicles, trailers, and materials off of the BMP.	06/22/2021	Yes	Infiltration Practices	0		Private
HRT Bus Maint. Facility	09-0029.1	MW/HITE02 - 2021-06-22 15:07:09 -- BMP is well maintained.	06/22/2021	No	Bioretention	0		Private
HRT Bus Maint. Facility	09-0029.2	MW/HITE02 - 2021-06-22 15:07:30 -- BMP is well maintained, observation well was dry.	06/22/2021	No	Bioretention	0		Private
HRT Bus Maint. Facility	09-0029.3	MW/HITE02 - 2021-06-22 15:06:38 -- BMP is well maintained, observation well was dry.	06/22/2021	No	Bioretention	0		Private
HRT Bus Maint. Facility	09-0029.4	MW/HITE02 - 2021-06-22 15:06:15 -- BMP is well maintained, observation well was dry. Minor erosion occurring.	06/22/2021	No	Bioretention	0		Private
HRT Bus Maint. Facility	09-0029.5	MW/HITE02 - 2021-06-22 15:06:05 -- BMP is well maintained, observation well was dry.	06/22/2021	No	Bioretention	0		Private
HRT Bus Maint. Facility	09-0029.6	MW/HITE02 - 2021-06-22 15:05:34 -- BMP is well maintained, observation well was dry.	06/22/2021	No	Bioretention	0		Private
Christ the King Catholic School	03-0034.1	MW/HITE02 - 2021-06-23 15:18:15 -- Holding water. Holding more than usual after yesterday's rain. Minor debris present.	06/23/2021	No	Infiltration Practices	0		Private
Christ the King Catholic School	03-0034.2	MW/HITE02 - 2021-06-23 15:08:15 -- BMP is well maintained.	06/23/2021	No	Infiltration Practices	0		Private
AAAA Self Storage	04-0023.1	ADOAN - 2021-06-24 07:36:36 -- Filterras were maintained by Stevens Maintenance on 6-22-21.	06/23/2021	No	Manufactured Treatment Device	0		Private
AAAA Self Storage	04-0023.2	ADOAN - 2021-06-24 07:39:04 -- Filterras were maintained by Stevens Maintenance on 6-22-21. This tree was replaced.; ADOAN - 2021-06-24 07:44:47 -- Tree was not replaced at this location.	06/23/2021	No	Manufactured Treatment Device	0		Private
AAAA Self Storage	04-0023.3	ADOAN - 2021-06-24 07:42:11 -- Filterras were maintained by Stevens Maintenance on 6-22-21.; ADOAN - 2021-06-24 07:45:16 -- Tree was replaced at this location.	06/23/2021	No	Manufactured Treatment Device	0		Private
AAAA Self Storage	04-0023.4	ADOAN - 2021-06-24 07:45:46 -- Filterras were maintained by Stevens Maintenance on 6-22-21.	06/23/2021	No	Manufactured Treatment Device	0		Private
AAAA Self Storage	04-0023.5	ADOAN - 2021-06-24 07:48:05 -- Filterras have been maintained by Stevens Maintenance on 6-22-21.	06/23/2021	No	Manufactured Treatment Device	0		Private
AAAA Self Storage	04-0023.6	ADOAN - 2021-06-24 07:51:02 -- Filterras have been maintained by Steven Maintenance on 6-22-21.	06/23/2021	No	Manufactured Treatment Device	0		Private
Colley Bay Living Shoreline	11-0048.1	ADOAN - 2021-06-28 09:31:12 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? no 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? n/a	06/23/2021	No	Shoreline Management	0		Public
Colley Bay Living Shoreline	11-0048.2	ADOAN - 2021-06-28 09:25:09 -- 1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes 7. Is there a noticeable presence of aquatic life in the shoreline? no 8. Is there a large amount of wrack accumulation that may hinder plant survival? no 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? n/a	06/23/2021	No	Shoreline Management	0		Public
Villa Circle Living Shoreline	16-0099.1	ADOAN - 2021-06-28 07:30:38 -- Shoreline wracking, some areas of washout, dead trees along buffer,  1. Is there considerable erosion between the low marsh and riprap? no 2. Is there a large amount of accumulated sediment on the riprap? no 3. Is there considerable erosion along the high marsh or buffer edge? no 4. Is the low marsh well vegetated and thriving? yes 5. Is the high marsh well vegetated and thriving? yes 6. Is the buffer zone well vegetated and thriving? yes, a few dead trees 7. Is there a noticeable presence of aquatic life in the shoreline? yes 8. Is there a large amount of wrack accumulation that may hinder plant survival? yes 9. Is there a considerable amount of litter and debris present? no 10. Are passive water access sites in good condition? yes	06/23/2021	Yes	Shoreline Management	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
Villa Circle Living Shoreline	16-0099.2	ADOAN - 2021-06-28 07:45:26 -- wracking present with trash, lower shoulder along zoo is bear behind coir log. 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? no 4.Is the low marsh well vegetated and thriving? yes 5.Is the high marsh well vegetated and thriving? yes 6.Is the buffer zone well vegetated and thriving? yes 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? yes 10.Are passive water access sites in good condition? yes	06/23/2021	Yes	Shoreline Management	0		Public
Haven Creek Pathway	S102.1	MW/HITE02 - 2021-06-23 07:37:49 --  1.Is there considerable erosion between the low marsh and riprap? No 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? No 4.Is the low marsh well vegetated and thriving? Yes 5.Is the high marsh well vegetated and thriving? Yes 6.Is the buffer zone well vegetated and thriving? Appears to be phragmites in some of the buffer zones that back up onto private property. 7.Is there a noticeable presence of aquatic life in the shoreline? Yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? Minor wrack accumulation, exasperated by debris that appears intentionally laid to gain access to the water. 9.Is there a considerable amount of litter and debris present? Minor debris, no noticeable litter 10.Are passive water access sites in good condition? No passive water access sites in this shoreline, raised pathway. 	06/23/2021	No	Shoreline Management	0		Public
Volunteer Project Coley Bay Living Shoreline	V1.1	ADOAN - 2021-06-28 07:59:44 -- It appears that volunteer work has not been done. Concrete debris along buffer. 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? no 4.Is the low marsh well vegetated and thriving? yes 5.Is the high marsh well vegetated and thriving? no 6.Is the buffer zone well vegetated and thriving? yes 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? yes 9.Is there a considerable amount of litter and debris present? yes 10.Are passive water access sites in good condition? no	06/23/2021	Yes	Shoreline Management	0		
Red Cross Parking Lot	07-0104.1	MW/HITE02 - 2021-06-24 09:46:53 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/24/2021	Yes	Manufactured Treatment Device	0		Private
Red Cross Parking Lot	07-0104.2	MW/HITE02 - 2021-06-24 09:46:14 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/24/2021	Yes	Manufactured Treatment Device	0		Private
Red Cross Parking Lot	07-0104.3	MW/HITE02 - 2021-06-24 09:42:07 -- Please maintain the Contech system in accordance with the manufacturer's specifications and provide copies of the maintenance logs.	06/24/2021	Yes	Manufactured Treatment Device	0		Private
Myrtle Park Imprints-Richmond Cres-Living Shoreline	12-0042.1	MW/HITE02 - 2021-06-24 10:23:33 -- 1.Is there considerable erosion between the low marsh and riprap? There is some erosion in a couple of areas 2.Is there a large amount of accumulated sediment on the riprap? There is some accumulated sediment 3.Is there considerable erosion along the high marsh or buffer edge? No 4.Is the low marsh well vegetated and thriving? There are areas that are struggling 5.Is the high marsh well vegetated and thriving? Yes 6.Is the buffer zone well vegetated and thriving? Yes 7.Is there a noticeable presence of aquatic life in the shoreline? Yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? Yes, certain areas have a high amount of wrack accumulation. 9.Is there a considerable amount of litter and debris present? No 10.Are passive water access sites in good condition? Yes	06/24/2021	No	Shoreline Management	0		Public
Milton Point at Kimball Terrace Shipyard	15-0046.1	MW/HITE02 - 2021-06-24 15:12:35 -- Access is limited because of ongoing construction, will inspect at a later date when construction has ceased.	06/24/2021	No	Dry Swale 1	0		Private
Milton Point at Kimball Terrace Shipyard	15-0046.2	MW/HITE02 - 2021-06-24 15:14:45 -- Access is limited because of ongoing construction, will inspect at a later date when construction has ceased.	06/24/2021	No	Dry Swale 1	0		Private
Milton Point at Kimball Terrace Shipyard	15-0046.3	MW/HITE02 - 2021-06-24 15:15:48 -- Access is limited due to ongoing construction, will inspect at a later date.	06/24/2021	No	Dry Swale 1	0		Private
Baylor Warehouse Building Addition	17-0045.1	ADOAN - 2021-06-25 07:12:28 -- BMP well maintained. Had maintenance remove inlet protection that was left from construction.	06/24/2021	No	Detention Basin	0		Private
Trader Square	04-0136.1	MW/HITE02 - 2021-06-25 11:09:31 -- Please maintain the Vortechincs units per the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Trader Square	04-0136.2	MW/HITE02 - 2021-06-25 11:11:04 -- Please maintain the Vortechincs units per the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Fort Norfolk Plaza	08-0038.1	MW/HITE02 - 2021-06-25 07:56:58 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Fort Norfolk Plaza	08-0038.2	MW/HITE02 - 2021-06-25 07:52:10 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Fort Norfolk Plaza	08-0038.3	MW/HITE02 - 2021-06-25 08:00:23 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Fort Norfolk Plaza	08-0038.4	MW/HITE02 - 2021-06-25 08:23:08 -- Please maintain the Filterra unit according to the manufacturer's specifications and provide a copy of the maintenance records.	06/25/2021	Yes	Manufactured Treatment Device	0		Private
Apartmente Parking Lot	17436.1	MW/HITE02 - 2021-06-25 11:33:50 -- OK.	06/25/2021	No	Infiltration Practices	0		Private
Harbor Park- Deck Addition	08-0094.1	MW/HITE02 - 2021-06-28 07:15:02 -- The unit was maintained and the filter was replaced.	06/28/2021	No	Manufactured Treatment Device	0		Private
Wells Fargo	09-0038.4	ADOAN - 2021-06-28 15:01:37 -- Units are on a PM schedule for August 2021.	06/28/2021	Yes	Manufactured Treatment Device	0		Public

Site	SWMF ID#	Comments/Inspection Notes	Inspection Date	Maintenance Required	DCR Classification	Number of Reinspections	Last Reinspection	Owner Type
LAKE TAYLOR	17-0004.1	ADOAN - 2021-07-12 07:55:36 -- 1.Is there considerable erosion between the low marsh and riprap? no 2.Is there a large amount of accumulated sediment on the riprap? no 3.Is there considerable erosion along the high marsh or buffer edge? no 4.Is the low marsh well vegetated and thriving? no 5.Is the high marsh well vegetated and thriving? yes 6.Is the buffer zone well vegetated and thriving? yes 7.Is there a noticeable presence of aquatic life in the shoreline? yes 8.Is there a large amount of wrack accumulation that may hinder plant survival? no 9.Is there a considerable amount of litter and debris present? no 10.Are passive water access sites in good condition? n/a Wetland vegetation did not survive. Maintain pathway along bridge and spillway across from Lake Taylor Hospital. Water Lilies growing on some parts of the lake. Opposite side of spillway, monitor phragmites. Keeping on on debris @ weir (logs, etc.)	06/29/2021	No	Wet Pond 2	0		Public
USAA Recreation Area	T36.1	MW/HITE02 - 2021-06-29 15:00:52 -- BMP is in good condition.	06/29/2021	No	Extended Detention Basin	0		Private
Capitol Group Mail Center	08-0086.1	MW/HITE02 - 2021-06-30 14:27:31 -- BMP is well maintained.	06/30/2021	No	Detention Basin	0		Private
Humboldt Street Parking Lot	11-0086.1	MW/HITE02 - 2021-06-30 14:08:23 -- BMP is well maintained.	06/30/2021	No	Manufactured Treatment Device	0		Private
Filipino Christian Church	12-0014.1	MW/HITE02 - 2021-06-30 15:11:09 -- Please address holes in the basin. Please make sure the inlet and outlet are clear and flow is unobstructed. Please remove trash and debris from the outlet control structure.	06/30/2021	Yes	Detention Basin	0		Private
Waterview 5 Lot Subdivision	13-0004.1	MW/HITE02 - 2021-06-30 12:56:48 -- Swales are not present and need to be restored. Please restore the three swales called out in the site plans.	06/30/2021	Yes	Grass Channel	0		Private
Lafayette Park Basin	S101.1		06/30/2021	Yes		0		Public

UPDATED SWMF INFO - FACILITIES BROUGHT ONLINE FY17

Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	DISCHARGES TO MS4?	IMPAIRED WATER SEGMENT DISCHARGES TO	DATE OF LAST INSPECTION
Lot 25 8033 Ransom Road	8033	RANSOM ROAD	0.23	0.07	08-0062.1	Private	Bioretention Basins	0.15	-76.1949	36.92095073	Yes	05/23/2017	CB26	N	Little Creek & Harbor	5/22/2017
Larchmont Elementary School	1145	BOLLING AVENUE	20.4	4.9	14-0084.1	School	Retention Basin	7.34	-76.2996	36.89018058	N/A	06/02/2017	JL56	N	Lafayette River (Upper)	6/1/2017
Mixed Use Development Church St.	1402	CHURCH STREET	0.64	0.29	14-0080.1	Private	Detention Basin	0.3	-76.2787	36.86050826	No	09/27/2016	JL54	Y	Elizabeth River Main Stem (Upper)	9/26/2016
Mixed Use Development Church St.	1402	CHURCH STREET	0.64	0.29	14-0080.2	Private	Permeable Pavement 1	0.3	-76.2787	36.86046308	No	09/27/2016	JL54	Y	Elizabeth River Main Stem (Upper)	9/26/2016
The Banks at Berkley	701	SOUTH MAIN STREET	2.648	1.477	14-0072.1	Private	Infiltration 2	1.31	-76.285	36.83259913	Yes	03/31/2017	JL53	Y	E. Branch Elizabeth River (Lower)	5/12/2017
The Banks at Berkley	701	SOUTH MAIN STREET	2.648	1.477	14-0072.2	Private	Infiltration 2	1.1	-76.2847	36.8328086	Yes	03/31/2017	JL53	Y	E. Branch Elizabeth River (Lower)	5/12/2017
NRHA Broad Creek Ph. 5	2800	GARY AVENUE	17.44	9.02	14-0022.1	Private	Extended Detention Basin	1.34	-76.2552	36.85827913	Yes	10/28/2016	JL56	Y	Lafayette River (Upper)	2/28/2017
Metro Towing Company, Inc.	5870	CURLEW DRIVE	0.89	0.79	14-0094.1	Private	Permeable Pavement 1	0.3	-76.2036	36.84203786	Yes	03/20/2017	JL54	Y	Broad Creek E. Branch Elizabeth River	3/20/2017
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.1	Private	Dry Swale 2	0.14	-76.1981	36.92965414	Yes	04/19/2017	CB26	Y	Little Creek & Harbor	4/18/2017
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.2	Private	Dry Swale 2	0.032	-76.1981	36.92965414	Yes	04/19/2017	CB26	Y	Little Creek & Harbor	4/18/2017
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.3	Private	Dry Swale 2	0.031	-76.1981	36.92965414	Yes	04/19/2017	CB26	Y	Little Creek & Harbor	4/18/2017
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.4	Private	Rooftop (Impervious Surface) Disconnection	0.02	-76.1981	36.92965414	Yes	04/19/2017	CB26	Y	Little Creek & Harbor	4/18/2017
Watermark at Talbot Park - Ph. I	7201	NEWPORT AVENUE	5.61	4.16	15-0036.1	Private	Bioretention 1	0.97	-76.2807	36.91008039	Yes	12/09/2016	JL56	Y	Lafayette River (Upper)	6/2/2017
Watermark at Talbot Park - Ph. I	7201	NEWPORT AVENUE	5.61	4.16	15-0036.2	Private	Bioretention 1	0.51	-76.2807	36.91008039	Yes	12/09/2016	JL56	Y	Lafayette River (Upper)	6/2/2017
Watermark at Talbot Park - Ph. I	7201	NEWPORT AVENUE	5.61	4.16	15-0036.3	Private	Bioretention 1	0.19	-76.2807	36.91008039	Yes	12/09/2016	JL56	Y	Lafayette River (Upper)	6/2/2017
Roper Home Parking Lot	1127	E. 40TH STREET	0.615	0.08	15-0008.1	Private	Permeable Pavement 2	0.12	-76.2804	36.88308749	Yes	02/22/2017	JL56	Y	Lafayette River (Upper)	2/22/2017
Clairmont Apartments	1050	BERKLEY AVENUE EX	9.29	4.24	15-0006	Private	Retention Basin	8.16	-76.2706	36.82730399	Yes	05/31/2017	JL54	Y	Unsegmented Estuaries in EBEMH	5/31/2017
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.4	Private	Grass Channel	0.09	-76.194	36.93011919	Yes	12/16/2016	CB26	Y	Little Creek & Harbor	12/16/2016
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.5	Private	Grass Channel	0.1	-76.194	36.93011919	Yes	01/24/2017	CB26	Y	Little Creek & Harbor	1/24/2017
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.6	Private	Grass Channel	0.09	-76.194	36.93011919	Yes	01/24/2017	CB26	Y	Little Creek & Harbor	1/24/2017
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.7	Private	Grass Channel	0.09	-76.194	36.93011919	Yes	11/16/2016	CB26	Y	Little Creek & Harbor	11/16/2016
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.8	Private	Grass Channel	0.15	-76.194	36.93011919	Yes	10/25/2016	CB26	Y	Little Creek & Harbor	10/25/2016
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.1	Private	Dry Swale 1	1.2	-76.2622	36.84267071	Yes	01/13/2017	JL54	N	E. Branch Elizabeth River (Lower)	1/12/2017
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.2	Private	Dry Swale 1	1.44	-76.2609	36.84234286	Yes	01/13/2017	JL54	N	E. Branch Elizabeth River (Lower)	1/12/2017
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.3	Private	Dry Swale 1	0.4	-76.2612	36.8429257	Yes	01/13/2017	JL54	N	E. Branch Elizabeth River (Lower)	1/12/2017
Partrea Site Improvements	701	EASY STREET	0.6	0.36	15-0021.1	Private	Permeable Pavement 1	0.14	-76.2547	36.90804337	Yes	05/17/2017	JL56	Y	Lafayette River (Upper)	5/16/2017
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.1	Private	Bioretention Urban	0.13	-76.1927	36.87493863	Yes	06/28/2017	JL54	Y	Broad Creek E. Branch Elizabeth River	6/15/2017
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.2	Private	Permeable Pavement 1	0.13	-76.1927	36.87499021	Yes	06/28/2017	JL54	Y	Broad Creek E. Branch Elizabeth River	6/15/2017
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.3	Private	Grass Channel	0.21	-76.1926	36.87485063	Yes	06/28/2017	JL54	Y	Broad Creek E. Branch Elizabeth River	6/15/2017
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.4	Private	Rooftop (Impervious Surface) Disconnection	0.14	-76.193	36.87477781	Yes	06/28/2017	JL54	Y	Broad Creek E. Branch Elizabeth River	6/15/2017
Norfolk Christian Soccer Field	255	THOLE STREET	2.96	0.25	15-0058.1	Private	Grass Channel	0.8	-76.2726	36.90469989	Yes	05/12/2017	JL56	N	Lafayette River (Upper)	5/12/2017

UPDATED SWMF INFO - FACILITIES BROUGHT ONLINE FY18																		
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	DISCHARGES TO MS4?	IMPAIRED WATER SEGMENT DISCHARGES TO	DATE OF LAST INSPECTION		
13th Bay Street Duplex	9538	13TH BAY STREET	0.2	0.11	17-0081.1	Private	Other SWMF	0.2	-76.2029368	36.92936193	N/A	06/11/2018	CB26	Y	Little Creek & Harbor	3/12/2018		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.1	Private	Grass Channel	0.08	-76.1939513	36.93011919	Yes	09/27/2017	CB26	Y	Little Creek & Harbor	11/2/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.2	Private	Grass Channel	0.09	-76.1939513	36.93011919	Yes	08/10/2017	CB26	Y	Little Creek & Harbor	12/12/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.3	Private	Grass Channel	0.09	-76.1939513	36.93011919	Yes	08/11/2017	CB26	Y	Little Creek & Harbor	12/11/2017		
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.9	Private	Rooftop (Impervious Surface) Disconnection	0.12	-76.1939513	36.93011919	Yes	09/27/2017	CB26	Y	Little Creek & Harbor	3/22/2018		
9535 6th Bay Duplex	9536	16TH BAY STREET	0.26	0.01	14-0095.1	Private	Rooftop (Impervious Surface) Disconnection	0.17	-76.2114715	36.93121982	No	01/25/2018	CB26	Y	Little Creek & Harbor	3/22/2018		
7th Bay St. Duplex	9565	7TH BAY STREET	0.17	0.103	17-0083.1	Private	Other SWMF	0.17	-76.2098428	36.93185682	N/A	05/04/2018	CB26	Y	Little Creek & Harbor	12/12/2017		
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.1	Private	Wet Pond 1	4.32	-76.2503849	36.91189902	Yes	03/05/2018	CB26	Y	Lafayette River - Upper	1/25/2018		
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.2	Private	Manufactured BMP Systems	4.32	-76.2504761	36.91164426	Yes	03/05/2018	CB26	Y	Lafayette River - Upper	10/20/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.1	Private	Bioretention 1	0.1245	-76.2490707	36.85035176	Yes	09/26/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	4/6/2018		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.2	Private	Bioretention 1	0.0872	-76.2492423	36.85022298	Yes	09/26/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	9/28/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.3	Private	Bioretention 2	0.1669	-76.2487059	36.85030025	Yes	09/26/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	8/10/2017		
901 Ballentine Boulevard Parking Lot	901	BALLENTINE BOULEVARD	0.78	0.45	15-0019.4	Private	Bioretention 1	0.2188	-76.2489526	36.85007703	Yes	09/26/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	8/11/2017		
Oaks at Elmhurst	4820	BEAMON ROAD	1.37	0.57	14-0070.1	Private	Other SWMF	1.44	-76.2318938	36.87983847	No	10/16/2017	4J56	Y	Lafayette River - Upper	9/27/2017		
Oaks at Elmhurst	4820	BEAMON ROAD	1.37	0.57	14-0070.2	Private	Grassed Swale	0.81	-76.2320655	36.8801874	No	10/16/2017	4J56	Y	Lafayette River - Upper	7/16/2018		
450 Boush St. Mixed Use Development	450	BOUSH STREET	0.74	0.74	15-0002.1	Private	Detention Basin	0.71	-76.2302801	36.8527939	No	10/20/2017	4J54	Y	Elizabeth River Mainstem - Upper	9/26/2017		
Rockefeller Apartments	252	BOUSH STREET	0.23	0.22	16-0019.1	Private	Manufactured BMP Systems	0.2	-76.2320718	36.84929492	Yes	02/07/2018	4J56	Y	Elizabeth River Mainstem - Upper	9/26/2017		
Church Street Station Studios	2000	CHURCH STREET	0.22	0.26	15-0022.1	Private	Manufactured BMP Systems	0.32	-76.2783226	36.8662805	N/A	12/12/2017	4J56	Y	Lafayette River - Upper	9/26/2017		
Church Street Station Studios	2000	CHURCH STREET	0.22	0.26	15-0022.2	Private	Manufactured BMP Systems	0.11	-76.2774619	36.86565736	N/A	12/12/2017	4J56	Y	Lafayette River - Upper	9/26/2017		
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.29	0.26	16-0063.1	Private	Bioretention Urban	0.05	-76.2813539	36.86845041	Yes	01/10/2018	4J56	Y	Elizabeth River Mainstem - Upper	10/16/2017		
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.39	0.29	16-0063.2	Private	Permeable Pavement 1	0.01	-76.2918975	36.86854752	Yes	01/10/2018	4J56	Y	Elizabeth River Mainstem - Upper	10/16/2017		
2101 E 22nd St. - 36 Apts.	210	E 22ND STREET	0.7	0.46	16-0036.1	Private	Other SWMF	0.66	-76.2825875	36.86779634	N/A	09/26/2017	4J56	Y	Elizabeth River Mainstem - Upper	12/12/2017		
Norfolk Courts Near Access	811	E CITY HALL AVENUE	2.89	2.58	15-0105.1	Public	Infiltration 1	0.087	-76.2846207	36.84575775	No	11/20/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	12/12/2017		
Captain's Landing	929	E OCEAN VIEW AVENUE	3.57	2.06	15-0399.1	Private	Infiltration 1	3.59	-76.2411689	36.94701224	Yes	04/23/2018	CB26	Y	Chesapeake Bay Beaches	4/23/2018		
McCoy Duplex	2040	E OCEAN VIEW AVENUE	0.2669	0.0945	16-0018.1	Private	Infiltration 1	0.1854	-76.21171738	36.93690573	Yes	03/07/2018	CB26	Y	Chesapeake Bay Beaches	3/5/2018		
Front Street Apartments	519	FRONT STREET	1.4	0.95	14-0064.1	Private	Manufactured BMP Systems	0.47	-76.3003438	36.85363725	Yes	06/13/2018	4J56	Y	Elizabeth River Mainstem - Upper	3/5/2018		
Granby Townhomes	3239-3245	GRANBY STREET	0.236	0.137	16-0011.1	Private	Bioretention 1	0.24	-76.2821584	36.87688372	Yes	08/28/2017	4J56	Y	Lafayette River - Upper	2/7/2018		
Dunkin Donuts	8410	HAMPTON BOULEVARD	0.33	0.27	15-0051	Private	Bioretention Basins	0.34	-76.3176655	36.9294483	Yes	12/27/2017	4J57	Y	James River at Hampton Roads Harbor	3/22/2018		
Barrard Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.1	Public	Dry Swale 1	0.15	-76.2540095	36.86468618	N/A	03/26/2018	4J56	Y	Lafayette River - Upper	7/6/2018		
Barrard Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.2	Public	Permeable Pavement 1	0.08	-76.2645041	36.86474687	N/A	03/26/2018	4J56	Y	Lafayette River - Upper	9/28/2017		
United Disposal Laydown Yard	5835	HARGROVE STREET	0.411	0.324	17-0064.2	Private	Other SWMF	0.41	-76.2051413	36.84398592	N/A	12/19/2017	4J54	Y	Unsegmented estuaries in EBEMH	12/14/2017		
Herbert St Subdivision	3214	HERBERT STREET	0.68	0.33	Herbert St	Private	Grass Channel	0.34	-76.2296032	36.88278558	No	09/28/2017	4J56	Y	Lafayette River - Upper	3/21/2018		
Jehovah's Witnesses Parking Lot Improvements	959	INGLESIDE ROAD	0.6837	0.3992	14-0057.1	Private	Grassed Swale	0.18	-76.2384733	36.85176649	No	08/15/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	3/21/2018		
Jehovah's Witnesses Parking Lot Improvements	959	INGLESIDE ROAD	0.6837	0.3992	14-0057.2	Private	Grassed Swale	0.15	-76.2386369	36.85189701	No	08/15/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	1/31/2018		
Dollar General	1540	INTERNATIONAL BOULEVARD	1.44	0.8	17-0010.1	Private	Other SWMF	0.8	-76.2268566	36.89868628	No	11/30/2017	CB26	Y	Lake Whitehurst (PWS)	5/8/2018		
Chartway Federal Credit Union	132	KEMPSVILLE ROAD	1.01	0.64	16-0035.1	Private	Infiltration 1	0.46	-76.1876105	36.84259315	Yes	11/16/2017	4J54	Y	Unsegmented estuaries in EBEMH	6/13/2018		
Chartway Federal Credit Union	132	KEMPSVILLE ROAD	1.01	0.64	16-0035.2	Private	Infiltration 2	0.394	-76.1873048	36.84248994	Yes	11/16/2017	4J54	Y	Unsegmented estuaries in EBEMH	6/13/2018		
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.1	Private	General Infiltration Practices	0.11	-76.2289727	36.87078454	Yes	09/20/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	6/13/2018		
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.2	Private	Other SWMF	0.791	-76.2289727	36.87078454	Yes	09/20/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	12/28/2017		
Lafayette Boulevard Streetscape Improvements	2115	LAFAYETTE BOULEVARD	1.51	1	16-0025.1	Public	Manufactured BMP Systems	0.27	-76.26104	36.87693019	N/A	03/22/2018	4J56	Y	Lafayette River - Upper	12/28/2017		
Metro Machine - Lot D Parking	200	LUGON STREET	0.95	0.68	14-0060.1	Private	Detention Basin	0.96	-76.2887048	36.83764426	Yes	12/12/2017	4J53	Y	Southern Branch Elizabeth R. - Lower	12/15/2017		
Reeves Avenue Substation Improvements	1724	LOVITT AVENUE	1.39	1.39	17-0035.1	Private	Other SWMF	1.39	-76.2732845	36.84209085	N/A	11/03/2017	4J54	Y	Eastern Branch Elizabeth R. - Lower	12/20/2017		
Ocean View Elementary School	9501	MASON CREEK ROAD	25.8	5.03	14-0085.1	School	Wet Pond 1	5.4	-76.2604593	36.95501876	N/A	08/31/2017	4J57	Y	Chesapeake Bay Beaches	4/10/2018		
JANAF Wawa	1146	N MILITARY HIGHWAY	1.85	1.62	16-0010.1	Private	Manufactured BMP Systems	1.93	-76.2039954	36.86051958	Yes	09/18/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	4/10/2018		
JANAF Wawa	1146	N MILITARY HIGHWAY	1.85	1.62	16-0010.2	Private	Manufactured BMP Systems	1.37	-76.2094437	36.86066526	Yes	09/18/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	4/10/2018		
JANAF Wawa	1146	N MILITARY HIGHWAY	1.85	1.62	16-0010.3	Private	Other SWMF	0.5	-76.2097763	36.86103552	Yes	09/18/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	3/7/2018		
1081 Military Hwy Retail Shops	1081	N MILITARY HIGHWAY	0.825	0.65	15-0031.1	Private	Manufactured BMP Systems	0.2	-76.2109752	36.85842429	Yes	06/07/2018	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	2/6/2018		
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.1	Public	Dry Swale 2	0.57	-76.2558486	36.85802862	N/A	06/13/2018	4J56	Y	Lafayette River - Upper	2/6/2018		
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.2	Public	Bioretention 1	0.96	-76.2557494	36.85737304	N/A	06/13/2018	4J56	Y	Lafayette River - Upper	3/5/2018		
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.3	Public	Grassed Swale	0.44	-76.2557815	36.85682364	N/A	06/13/2018	4J56	Y	Lafayette River - Upper	3/5/2018		
Norchester Pump Station No. 116 Replacement	935	NORCHESTER STREET	0.142	0.083	13-0023.1	Public	Grassed Swale	0.024	-76.255296	36.85007	Yes	03/22/2018	4J54	Y	Eastern Branch Elizabeth R. - Lower	3/5/2018		
Norchester Pump Station No. 116 Replacement	935	NORCHESTER STREET	0.142	0.083	13-0023.2	Public	Grassed Swale	0.048	-76.2552786	36.84989197	Yes	03/22/2018	4J54	Y	Eastern Branch Elizabeth R. - Lower	3/5/2018		
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.1	Private	Retention Basin	19.38	-76.1978887	36.8832248	No	09/26/2017	CB26	Y	Lake Wright	3/5/2018		
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.2	Private	Retention Basin	24.4	-76.2019979	36.87950889	Yes	09/26/2017	CB26	Y	Lake Wright	3/5/2018		
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.3	Private	Retention Basin	4.55	-76.1974274	36.88268416	Yes	09/26/2017	CB26	Y	Lake Wright	3/26/2018		
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.4	Public	Bioretention 2	1.22	-76.2033605	36.88032417	N/A	09/26/2017	CB26	Y	Lake Wright	3/26/2018		
Premium Outlets Boulevard	5992	NORTHAMPTON BOULEVARD	6.36	1.92	15-0043.1	Public	Manufactured BMP Systems	0.73	-76.1931681	36.87763799	N/A	09/25/2017	4J54	Y	Lake Wright	6/13/2018		
Premium Outlets Boulevard	5992	NORTHAMPTON BOULEVARD	6.36	1.92	15-0043.2	Public	Manufactured BMP Systems	1.19	-76.1949705	36.88041857	N/A	09/25/2017	4J54	Y	Lake Wright	11/30/2017		
1921 Parkway Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.1	Private	Bioretention 2	0.12	-76.2223773	36.93591375	Yes	08/10/2017	CB26	Y	Little Creek & Harbor	9/18/2017		
1921 Parkway Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.2	Private	Bioretention 2	0.11	-76.2225007	36.93597439	Yes	08/10/2017	CB26	Y	Little Creek & Harbor	9/18/2017		
1921 Parkway Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.3	Private	Bioretention 2	0.11	-76.2226589	36.9360229	Yes	08/10/2017	CB26	Y	Little Creek & Harbor	9/18/2017		
2617 Pleasant Ave Duplex	2617	PLEASANT AVENUE	0.23	0.13	17-0036.1	Private	Other SWMF	0.18	-76.2097672	36.93225417	N/A	12/19/2017	CB26	Y	Little Creek & Harbor	3/15/2018		
Popular Hall Trail	092	POPLAR HALL CIRCLE	0.92	0.42	16-0049.1	Public	Other SWMF	0.92	-76.2120723	36.84888221	N/A	12/15/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	3/15/2018		
East Coast Appliance	5671	Raby Road	0.91	0.73	16-0030	Private	Permeable Pavement 1	0.68	-76.211462	36.86046633	Yes	12/14/2017	4J54	Y	Broad Creek, Eastern Br. Elizabeth R.	9/26/2017		
Lot 24 8037 Ransom Road	8037	RANSOM ROAD	0.23	0.07	08-0063.1	Private	Bioretention Basins	0.16	-76.1944556	36.920417	Yes	12/11/2017	CB26	Y	Little Creek & Harbor	11/16/2017		
Colonna's Shipyard New Spotico Creek Facility	151	South Main Street	6.74	2.68	15-0062.1	Private	Manufactured BMP Systems	0.7	-76.2813994									

UPDATED SWMF INFO - FACILITIES BROUGHT ONLINE FY19																			
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	Discharges to MS4?	Impaired Water Segment Discharges to?	Date of Last Inspection			
Gethsemane Community Fellowship Baptist Church Bldg Addition	1317	E BRAMBLETON AVENUE	0.27	0.177	12-0064.1	Private	Constructed Stormwater Wetland	0.27	-76.2727	36.84693559	Yes	07/09/2018	IL54	Y	Eastern Branch Elizabeth R. - Lower	7/9/2018			
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	0.173	0.47	15-0038.1	Private	Bioretention 1	1.11	-76.1834	36.84978602	Yes	10/29/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/29/2018			
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.2	Private	Bioretention 1	1.32	-76.1825	36.84978605	Yes	10/29/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/29/2018			
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.3	Private	Bioretention 1	1.52	-76.1834	36.85140916	Yes	10/29/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/29/2018			
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.4	Private	Bioretention 1	1.15	-76.1841	36.85082537	Yes	10/29/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/29/2018			
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.5	Private	Bioretention 1	1.6	-76.1844	36.85157228	Yes	10/29/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/29/2018			
Food Bank Paving Addition	800	TIDEWATER DRIVE	0.37	0.19	15-0048.1	Private	Bioretention 1	0.13	-76.2737	36.85224276	Yes	07/19/2018	IL54	Y	Unsegregated estuaries in EBEMH	7/19/2018			
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.1	Private	Bioretention Urban	0.12	-76.2022	36.92936079	Yes	04/22/2019	CB26	Y	Little Creek & Harbor	4/22/2019			
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.2	Private	Bioretention Basins	0.03	-76.2022	36.92936254	Yes	04/22/2019	CB26	Y	Little Creek & Harbor	4/22/2019			
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.3	Private	Bioretention Urban	0.03	-76.2022	36.92938827	Yes	04/22/2019	CB26	Y	Little Creek & Harbor	4/22/2019			
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.3	Private	Bioretention Urban	0.03	-76.2022	36.92938827	Yes	04/22/2019	CB26	Y	Little Creek & Harbor	4/22/2019			
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.4	Private	Bioretention Urban	0.03	-76.2023	36.92938507	Yes	04/22/2019	CB26	Y	Little Creek & Harbor	4/22/2019			
ODU Barry Art Museum	1075	43RD STREET	0.97	0.75	16-0094.1	Private	Retention 1	0.2	-76.3019	36.88317331	Yes	08/15/2018	IL56	Y	Lafayette River - Upper	8/15/2018			
ODU Barry Art Museum	1075	43RD STREET	0.97	0.75	16-0094.2	Private	Wet Pond 1	0.44	-76.3018	36.88284721	Yes	08/15/2018	IL56	Y	Lafayette River - Upper	8/15/2018			
Virginia Zoo Exhibit Building Renovation	3500	GRANBY STREET	0.24	0.1	17-0019.1	Public	Bioretention Basins	0.19	-76.2755	36.87649099	Yes	02/04/2019	IL56	Y	Lafayette River - Upper	2/4/2019			
Sunshine Villas	1218	W OCEAN VIEW AVENUE	0.334	0.3	17-0016.1	Private	Bioretention Basins	0.03	-76.2852	36.96803587	Yes	11/02/2018	CB26	Y	10th View Beach	11/2/2018			
Arts Apartments	1123	W VIRGINIA BEACH BOULEVARD	0.676	0.56	16-0052.1	Private	Detention Basin	0.2015	-76.289	36.85715967	Yes	04/15/2019	IL56	Y	Elizabeth River Mainstem - Upper	4/5/2019			
KEA	6000	NORTHAMPTON BOULEVARD	18.871	15.41	17-0014.1	Private	Infiltration 2	15.22	-76.2019	36.87536368	Yes	04/04/2019	CB26	Y	Lake Wright	4/4/2019			
KEA	6000	NORTHAMPTON BOULEVARD	18.871	15.41	17-0014.2	Private	Infiltration 2	10.82	-76.2009	36.87595979	Yes	04/04/2019	CB26	Y	Lake Wright	4/4/2019			
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.1	Private	Detention Basin	1.26	-76.2191	36.85711243	Yes	12/28/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	12/27/2018			
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.2	Private	Detention Basin	0.87	-76.2198	36.85645078	Yes	12/28/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	12/27/2018			
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.3	Private	Detention Basin	0.87	-76.2206	36.85651755	Yes	12/28/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	12/27/2018			
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.4	Private	Other SWMF	13.5	-76.2206	36.85651755	Yes	12/28/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	NA - Credit Purchase			
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.1	Private	Permeable Pavement 1	0.08	-76.2851	36.8522047	Yes	04/02/2019	IL56	Y	Eastern Branch Elizabeth R. - Lower	4/2/2019			
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.2	Private	Permeable Pavement 1	0.05	-76.2842	36.8523079	Yes	04/02/2019	IL56	Y	Eastern Branch Elizabeth R. - Lower	4/2/2019			
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.3	Private	Infiltration 1	0.59	-76.2842	36.8523079	Yes	04/02/2019	IL56	Y	Eastern Branch Elizabeth R. - Lower	4/2/2019			
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.4	Private	Infiltration 1	1.14	-76.2829	36.85195642	Yes	04/02/2019	IL56	Y	Eastern Branch Elizabeth R. - Lower	4/2/2019			
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.5	Private	Other SWMF	15.52	-76.2832	36.8518534	Yes	04/02/2019	IL56	Y	Eastern Branch Elizabeth R. - Lower	NA - Credit Purchase			
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.1	Public	Infiltration 1	0.08	-76.2405	36.94458878	N/A	11/02/2018	CB26	Y	Chesapeake Bay Beaches	11/2/2018			
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.2	Public	Infiltration 1	0.11	-76.2407	36.94469186	N/A	11/02/2018	CB26	Y	Chesapeake Bay Beaches	11/2/2018			
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.3	Public	Infiltration 1	0.14	-76.2408	36.94471914	N/A	11/02/2018	CB26	Y	Chesapeake Bay Beaches	11/2/2018			
Food Bank Paving Addition	800	TIDEWATER DRIVE	0.37	0.19	15-0048.2	Private	Detention Basin	0.29	-76.2737	36.85218283	Yes	07/19/2018	IL54	Y	Eastern Branch Elizabeth R. - Lower	7/19/2018			
Harbor Park Picnic Area	150	PARK AVENUE	0.3	0.22	16-0065.1	Public	Manufactured BMP Systems	0.46	-76.2775	36.84278267	Yes	02/14/2019	IL54	Y	Eastern Branch Elizabeth R. - Lower	2/14/2019			
Checked Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.1	Private	Manufactured BMP Systems	0.98	-76.1816	36.85345186	Yes	10/15/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/15/2018			
Checked Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.2	Private	Manufactured BMP Systems	2.6	-76.1819	36.85292998	Yes	10/15/2018	IL54	Y	Unsegregated estuaries in EBEMH	10/15/2018			
Checked Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.3	Private	Other SWMF	2.6	-76.182	36.8537622	Yes	10/15/2018	IL54	Y	Unsegregated estuaries in EBEMH	NA - Credit Purchase			
1424, 1426, & 1428 W Ocean View Ave.	1426	W OCEAN VIEW AVENUE	0.82	0.33	16-0102.1	Private	Infiltration 1	0.38	-76.2922	36.96733302	Yes	05/01/2019	CB26	Y	13th View Beach	5/1/2019			
Valley Self Storage Additional Buildings	1117	WALLEY DRIVE	0.97	0.84	17-0012.1	Private	Infiltration 1	0.41	-76.212	36.86004452	Yes	11/26/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	11/26/2018			
Valley Self Storage Additional Buildings	1117	WALLEY DRIVE	0.97	0.84	17-0012.2	Private	Infiltration 1	0.36	-76.2118	36.86032463	Yes	11/26/2018	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	11/26/2018			
1855 Kingston Ave. Duplex	1855	KINGSTON AVENUE	0.168	0.0804	16-0097.1	Private	Infiltration 2	0.12	-76.2294	36.93759818	Yes	06/07/2019	CB26	Y	Chesapeake Bay Beaches	6/6/2019			
1855 Kingston Ave. Duplex	1855	KINGSTON AVENUE	0.168	0.0804	16-0097.2	Private	Infiltration 2	0.05	-76.2241	36.93728732	Yes	06/07/2019	CB26	Y	Chesapeake Bay Beaches	6/6/2019			
3 SFR - 1100 Virginia Ave.	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.1	Private	Bioretention 1	0.1605	-76.2404	36.94448989	Yes	08/20/2018	CB26	Y	Chesapeake Bay Beaches	8/20/2018			
3 SFR - 1100 Virginia Ave.	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.2	Private	Bioretention 2	0.1278	-76.2404	36.94448989	Yes	08/20/2018	CB26	Y	Chesapeake Bay Beaches	8/20/2018			
3 SFR - 1100 Virginia Ave.	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.3	Private	Permeable Pavement 1	0.0248	-76.2404	36.94448989	Yes	08/20/2018	CB26	Y	Chesapeake Bay Beaches	8/20/2018			
3 SFR - 1100 Virginia Ave.	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.4	Private	Permeable Pavement 2	0.0373	-76.2404	36.94448989	Yes	08/20/2018	CB26	Y	Chesapeake Bay Beaches	8/20/2018			
2607 Colonial Ave.	2607	COLONIAL AVENUE	1.3738	1.132	17-0052.1	Private	Other SWMF	1.2	-76.2904	36.87369305	Yes	02/11/2019	IL56	Y	Lafayette River - Upper	2/11/2019			
2607 Colonial Ave.	2607	COLONIAL AVENUE	1.3738	1.132	17-0052.2	Private	Other SWMF	0.37	-76.2904	36.87369305	N/A	02/11/2019	IL56	Y	Lafayette River - Upper	NA - Credit Purchase			
Cook Out	720	E LITTLE CREEK ROAD	0.67	0.49	17-0021.1	Private	Manufactured BMP Systems	0.28	-76.2531	36.91618339	Yes	01/11/2019	IL57	Y	Lafayette River - Upper	1/9/2019			
Cook Out	720	E LITTLE CREEK ROAD	0.67	0.49	17-0021.2	Private	Other SWMF	0.28	-76.253	36.91608635	Yes	01/11/2019	IL57	Y	Lafayette River - Upper	1/9/2019			
Didlake Expansion	8131	SHORE DRIVE	0.91	0.63	17-0077.1	Private	Wet Swale 1	0.465	-76.1929	36.9223026	Yes	01/18/2019	CB26	Y	Little Creek & Harbor	1/18/2019			
Didlake Expansion	8131	SHORE DRIVE	0.91	0.63	17-0077.2	Private	Wet Swale 1	0.316	-76.1927	36.92191985	Yes	01/18/2019	CB26	Y	Little Creek & Harbor	1/18/2019			
3 SFR Columbia Avenue	1636	COLUMBIA AVENUE	0.35	0.155	17-0068.3	Private	Detention Basin	0.115	-76.2657	36.88172631	Yes	06/14/2019	IL56	Y	Lafayette River - Upper	6/13/2019			
8802 Chesapeake Blvd - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.1	Private	Bioretention 2	0.06	-76.2445	36.93708223	Yes	03/14/2019	IL57	Y	Unsegregated rivers in G15R - HR Area	11/27/2018			
8802 Chesapeake Blvd - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.2	Private	Bioretention 2	0.06	-76.2442	36.93710649	Yes	11/27/2018	IL57	Y	Unsegregated rivers in G15R - HR Area	11/27/2018			
8802 Chesapeake Blvd - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.3	Private	Bioretention 2	0.06	-76.2441	36.93713074	Yes	02/13/2019	IL57	Y	Unsegregated rivers in G15R - HR Area	11/27/2018			
13th Bay Street Duplex	9538	13TH BAY STREET	0.2	0.11	17-0081.1	Private	Other SWMF	0.2	-76.2029	36.92936193	N/A	11/06/2018	CB26	N	Little Creek & Harbor	NA - Credit Purchase			
Salvation Army Parking Lot	5525	RABY ROAD	5.79	2.28	17-0080.1	Private	Wet Pond 1	13.32	-76.218	36.85644364	Yes	05/30/2019	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	5/30/2019			
Salvation Army Parking Lot	5525	RABY ROAD	5.79	2.28	17-0080.2	Private	Other SWMF	0.99	-76.2186	36.85644669	N/A	05/30/2019	IL54	Y	Broad Creek, Eastern Br. Elizabeth R.	NA - Credit Purchase			
General Aviation CBP Facility	8101	BURTON STATION ROAD	11.51	0.63	18-0002.1	Private	Other SWMF	1.51	-76.1985	36.88637369	N/A	07/30/2018	CB26	Y	Lake Whitehurst (PWS)	NA - Credit Purchase			
2714-2718 Pleasant Ave Duplex	2714	PLEASANT AVENUE	0.2	0.11	17-0015	Private	Infiltration 1	0.15	-76.2084	36.93212635	Yes	4/18/2019	CB26	Y	Little Creek & Harbor	4/18/2019			
Maker's Craft Brewery	735	E 23RD STREET	1.32	0.78	18-0034.1	Private	Other SWMF	1.32	-76.2786	36.8682365	N/A	10/12/2018	IL56	Y	Lafayette River - Upper	NA - Credit Purchase			
Granby St and Bayview Blvd Intersection Improvements	1105	W BAYVIEW BOULEVARD	0.13	0.08	18-0031.1	Private	Other SWMF	0.15	-76.2646	36.93409919	N/A	10/18/2018	IL57	Y	Unsegregated rivers in G15R - HR Area	NA - Credit Purchase			
Chenman Project	3229	W 24TH STREET	1.01	0.9	18-0036.1	Private	Other SWMF	0.86	-76.294	36.87224279	N/A	10/24/2018	IL56	Y	Knitting Mill Creek	NA - Credit Purchase			
Global Friendship House	1241	43RD STREET	0.577	0.333	11-0074.1	Private	Detention Basin	0.577	-76.3048	36.88308777	No	12/28/2018	IL56	Y	Lafayette River - Upper	12/28/2018			
20 Rivanna Building Canopy & Drive Aisle	6315	NORTH CENTER DRIVE	0.18	0.124	18-0066.1	Private	Permeable Pavement 1	0.08	-76.1903	36.84755361	Yes	05/02/2019	IL54	Y	Unsegregated estuaries in EBEMH	5/2/2019			
VB Blvd Improvements at Newtown Rd	6602	E VIRGINIA BEACH BOULEVARD	1.57	1.4	18-0010.3	Public	Other SWMF	1.57	-76.1809	36.85462184	N/A	12/12/2018	IL54	Y	Unsegregated estuaries in EB				

UPDATED SWMF INFO - FACILITIES BROUGHT ONLINE FY2020																
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	Discharges to MS4?	Impaired Water Segment Discharges to?	Date of Last Inspection
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.3	Private	Grass Channel	0.27	76.19242	36.91891579	Yes	08/15/2019	CB26	Y	Little Creek & Harbor	08/15/2019
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.1	Private	Bioretention 2	0.77	76.19242	36.91891579	Yes	08/19/2019	CB26	Y	Little Creek & Harbor	08/19/2019
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.2	Private	Grass Channel	0.33	76.19242	36.91891579	Yes	08/15/2019	CB26	Y	Little Creek & Harbor	08/15/2019
4013 Colley Mixed Use	4013	COLLEY AVENUE	0.39	0.25	16-0109.1	Private	Permeable Pavement 1	0.19	76.29525	36.88200088	Yes	11/25/2019	IL56	Y	Knitting Mill Creek	11/25/2019
4013 Colley Mixed Use	4013	COLLEY AVENUE	0.39	0.25	16-0109.2	Private	Other SWMF	0.39	76.29525	36.88200088	Yes	11/25/2019	IL56	Y	Knitting Mill Creek	11/25/2019
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.1	Private	Rooftop (Impervious Surface) Disconnection	0.07	76.26477	36.94782749	Yes	12/10/2019	IL57	Y	Willoughby Bay (Less Beach Areas)	12/10/2019
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.2	Private	Rooftop (Impervious Surface) Disconnection	0.07	76.26463	36.94788789	Yes	12/10/2019	IL57	Y	Willoughby Bay (Less Beach Areas)	12/10/2019
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.3	Private	Rooftop (Impervious Surface) Disconnection	0.07	76.26451	36.94795719	Yes	12/10/2019	IL57	Y	Willoughby Bay (Less Beach Areas)	12/10/2019
Coastal Services	805	FORD DRIVE	1.4	1.23	17-0056.1	Private	Rooftop (Impervious Surface) Disconnection	0.19	76.25318	36.83234789	Yes	01/06/2020	IL54	Y	Steamboat Creek	01/06/2020
3 SFR Columbia Avenue	1636	COLUMBIA AVENUE	0.35	0.155	17-0068.2	Private	Detention Basin	0.117	76.26591	36.88166827	Yes	08/15/2019	IL56	Y	Lafayette River - Upper	08/15/2019
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.1	Private	Detention Basin	0.83	76.18052	36.8489149	Yes	12/11/2019	IL54	Y	Unsegmented Estuary in Eastern Branch Elizabeth River	12/11/2019
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.2	Private	Manufactured BMP Systems	0.19	76.18037	36.84912738	Yes	12/11/2019	IL54	Y	Unsegmented Estuary in Eastern Branch Elizabeth River	12/11/2019
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.3	Private	Other SWMF	2.58	76.18065	36.84918202	N/A	12/11/2019	IL54	Y	Unsegmented Estuary in Eastern Branch Elizabeth River	12/11/2019
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.1	Private	Bioretention 2	0.1	76.22663	36.93986306	Yes	10/10/2019	CB26	Y	Ocean View Beaches	10/10/2019
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.2	Private	Detention Basin	0.1	76.22655	36.93982723	Yes	10/10/2019	CB26	Y	Ocean View Beaches	10/10/2019
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.3	Private	Other SWMF	0.23	76.22648	36.94007253	N/A	10/10/2019	CB26	Y	Ocean View Beaches	10/10/2019
Priority Ford	3340	N MILITARY HIGHWAY	5.71	5.2	18-0013.1	Private	Manufactured BMP Systems	2.58	76.21688	36.88742892	Yes	06/01/2020	CB26	Y	Lake Whitehurst (PWS)	06/01/2020
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.1	Private	Bioretention 2	0.14	76.24181	36.94668646	Yes	09/17/2019	CB26	Y	Chesapeake Bay Beaches	09/17/2019
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.2	Private	Bioretention 2	0.12	76.24172	36.94654792	Yes	09/17/2019	CB26	Y	Chesapeake Bay Beaches	09/17/2019
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.3	Private	Bioretention 2	0.12	76.24174	36.94639201	Yes	09/17/2019	CB26	Y	Chesapeake Bay Beaches	09/17/2019
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.4	Private	Bioretention 2	0.14	76.2418	36.94626207	Yes	09/17/2019	CB26	Y	Chesapeake Bay Beaches	09/17/2019
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.1	Private	Rooftop (Impervious Surface) Disconnection	0.05	12143078	35.10524.65	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.2	Private	Rooftop (Impervious Surface) Disconnection	0.05	12143078	35.10524.65	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.3	Private	Rooftop (Impervious Surface) Disconnection	0.05	12143045	35.10527.44	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.4	Private	Rooftop (Impervious Surface) Disconnection	0.05	12143009	35.10516.89	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.5	Private	Rooftop (Impervious Surface) Disconnection	0.05	12142997	35.10520.43	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.6	Private	Rooftop (Impervious Surface) Disconnection	0.05	12142950	35.10517.98	Yes	06/08/2020	CB26	Y	Willoughby Bay (Less Beach Areas)	06/08/2020
VAMAC	5846	CURLEW DRIVE	0.625	0.38	18-0039.1	Private	Dry Swale 2	0.33	76.20473	36.84200121	Yes	12/11/2019	IL54	Y	Unsegmented Estuary in Eastern Branch Elizabeth River	12/11/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.1	Private	Permeable Pavement 2	0	12125167	34.80688.479	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.2	Private	Permeable Pavement 2	0	12125230	34.80654.816	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.3	Private	Permeable Pavement 1	0.01	12125173	34.80640.661	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.4	Private	Permeable Pavement 1	0.02	12125173	34.80640.661	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.5	Private	Permeable Pavement 1	0.03	12125173	34.80640.661	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.6	Private	Permeable Pavement 2	0.11	76.30414	36.8621	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.7	Private	Permeable Pavement 2	0.32	76.30414	36.8621	Yes	12/03/2019	IL56	Y	Elizabeth River Main Stem - Middle	12/03/2019
5764 E Virginia Beach Blvd-Discount Tire	5764	E VIRGINIA BEACH BOULEVARD	1.08	0.83	18-0080.1	Private	Wet Pond 1	0.08	76.12251	36.51222.22	Yes	06/09/2020	IL54	Y	Broad Creek, Eastern Branch Elizabeth River	06/09/2020
5764 E Virginia Beach Blvd-Discount Tire	5764	E VIRGINIA BEACH BOULEVARD	1.08	0.83	18-0080.2	Private	Other SWMF	0	76.12267	36.51211.47	Yes	06/09/2020	IL54	Y	Broad Creek, Eastern Branch Elizabeth River	06/09/2020
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.1	Private	Permeable Pavement 1	0.57	76.19144	36.92287748	Yes	06/01/2020	CB26	Y	Little Creek & Harbor	06/01/2020
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.2	Private	Permeable Pavement 1	0.16	76.19125	36.92241431	Yes	06/01/2020	CB26	Y	Little Creek & Harbor	06/01/2020
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.3	Private	Manufactured BMP Systems	0.26	76.19131	36.92284317	Yes	06/01/2020	CB26	Y	Little Creek & Harbor	06/01/2020
1050 N Military HWY-Aldi	1050	N MILITARY HIGHWAY	2.25	1.66	18-0092.1	Private	Other SWMF	1.1	76.1234	36.513	Yes	12/16/2019	IL56	Y	Broad Creek, Eastern Branch Elizabeth River	12/16/2019
Christ & St Luke's Episcopal Church-Outdoor Improvements	560	W OLNEY ROAD	0.52	0.26	18-0095.2	Private	Other SWMF	0	76.17517	36.513635	Yes	11/22/2019	IL54	Y	Elizabeth River Main Stem - Upper	11/22/2019
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.1	Private	Manufactured BMP Systems	1.03	76.14064	36.5156.5	Yes	10/15/2019	IL54	Y	Broad Creek, Eastern Branch Elizabeth River	10/15/2019
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.2	Private	Manufactured BMP Systems	0	76.14064	36.5156.5	Yes	10/15/2019	IL54	Y	Broad Creek, Eastern Branch Elizabeth River	10/15/2019
2330 Bowdens Ferry Road-IP Configuration	2330	BOWDENS FERRY ROAD	4.47	2.12	19-0035.1	Private	Other SWMF	0	76.30447	36.87554	Yes	11/08/2019	IL56	Y	Elizabeth River Main Stem - Middle	11/08/2019
West 38th Street Apartments	1045	38TH STREET	2.21	1.72	19-0071.2	Private	Other SWMF	0	1212629	34.87089.38	Yes	03/03/2020	IL54	Y	Lafayette River - Upper	03/03/2020
Hermitage Living Shoreline	7637	NORTH SHORE ROAD	1.11	0	17-0063.1	Public	Shoreline Management	1.11	76.31368	36.911676	NA	7/2/2019	IL56	Y	Lafayette River - Lower	5/12/2020
North Shore Road Living Shoreline	7612	North Shore Road	1.04	0	17-0023.1	Public	Shoreline Management	1.04	76.31089	36.913477	NA	7/2/2019	IL56	Y	Lafayette River - Lower	5/12/2020
Central Business Park Pond Retrofit	910	Denison Ave	3.34	0	16-0047.1	Public	Wet Pond 2	19.6	76.25097	36.908594	NA	11/14/2019	IL56	Y	Lafayette River - Upper	11/14/2019
Roberts Road Pond Retrofit	1398	Roberts Rd	25.79	0	16-0055.1	Public	Wet Pond 2	57.6	76.2584	36.858567	NA	11/14/2019	IL56	Y	Lafayette River - Upper	11/14/2019
Lake Taylor Retrofit	1380	Kempsville Road	143	0	17-0004.1	Public	Wet Pond 2	1465.9	76.20235	36.86785	NA	6/19/2020	IL54	Y	Broad Creek, Eastern Branch Elizabeth River	6/19/2020
Villa Circle Living Shoreline	2618	Villa Circle	1.55	0	16-0099.1	Public	Shoreline Management	1.55	76.27384	36.873853	NA	5/1/2020	IL56	Y	Lafayette River - Upper	5/1/2020
Ingleside Road Ditch Retrofit	925	Ingleside Road	0.8	0.008	18-0101.1	Public	Other SWMF	1.1	76.23657	36.849354	NA	6/1/2020	IL54	Y	Unsegmented Estuary in Eastern Branch Elizabeth River	6/1/2020

Site Title	Location	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	HUC	Discharges to MS4?	Impaired Water Segment Discharges to?	Date of Last Inspection
Norfolk Fire Training Facility	115 Thole Street	0.72	0.50	19-0082.2	Public	Credit Purchase	0.00	-76.27507525	36.90613	Yes	7/10/2020	IL56	Yes	Lafayette River - Upper	N/A
1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	8.27	5.84	20-0037.5	Private	Credit Purchase	0.00	-76.22854106	36.86789704	N/A	7/20/2020	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	N/A
2800 Church Street	2800 CHURCH STREET	0.59	0.34	14-0053.1	Private	Bioretention 2	0.59	-76.2803514	36.87209764	No	7/30/2020	IL56	Yes	Lafayette River - Upper	4/27/2021
LAKE TAYLOR	1380 KEMPSVILLE ROAD	43.00	0.00	17-0004.1	Public	Wet Pond 2	1,465.90	-76.20453235	36.86871876	N/A	8/1/2020	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	6/29/2021
Colley Avenue Self Storage	2300 COLLEY AVENUE	1.70	1.28	18-0048.1	Private	Infiltration Practices	1.27	-76.29521891	36.87240096	Yes	8/6/2020	IL56	Yes	Lafayette River - Upper	6/28/2021
Poplar Hall & Va Beach Blvd Sidewalk Improvments	Virginia Beach Blvd	0.34	0.24	20-0043.1	Public	Credit Offset	0.00	-76.20468695	36.85571331	N/A	9/1/2020	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	N/A
Poplar Hall & Va Beach Blvd Sidewalk Improvments	Poplar Hall Drive	0.34	0.24	20-0043.2	Public	Credit Offset	0.00	-76.20280504	36.85437809	N/A	9/1/2020	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	N/A
Restaurant at Bay Point Marina	9500 30th Bay Street	1.52	1.24	19-0016.1	Private	Manufactured BMP Systems	0.77	-76.1812449	36.92370418	Yes	9/8/2020	CB26	Yes	Little Creek & Harbor	9/21/2020
Lyon Shipyard Building Addition	1818 BROWN AVENUE	0.95	0.95	18-0064.1	Private	Manufactured Treatment Device	0.30	-76.27141403	36.84205624	Yes	9/9/2020	IL54	Yes	Eastern Branch, Elizabeth River- Lower Middle	7/23/2021
9 Lot Townhouse Subdivision	8210 Tidewater Drive	1.23	0.53	11-0073.1	Private	Infiltration	0.53	-76.20150757	36.86967719	Yes	9/10/2020	IL57	Yes	Willoughby Bay	N/A
Lake Taylor Middle School-Parking Lot & Access Dr	1380 Kempsville Road	2.98	2.47	20-0029.1	Public	Credit Purchase	0.00	-76.28726533	36.86033306	Yes	9/10/2020	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	N/A
Frank Spicer Building Parking Lot	119 E Princess Anne Road	0.44	0.37	20-0026.3	Private	Credit Purchase	0.00	-76.21208521	36.83879315	Yes	11/17/2020	IL56	Yes	Elizabeth River Mainstem - Upper	N/A
VIRGINIA EYE CONSULTANTS	200 Corporate Blvd	0.59	0.49	20-0075.5	Private	Credit Purchase	0.00	-76.2116927	36.87428575	Yes	11/17/2020	IL54	Yes	Unsegmented estuaries in EBEMH	3/15/2021
Continuous Flow Intersection	1469 N MILITARY HIGHWAY	31.05	24.96	572.1	Public	Extended Detention Basin	14.48	-76.19374536	36.87819621	N/A	12/15/2020	CB26	Yes	Broad Creek, Eastern Br. Elizabeth R.	3/9/2021
Apple Retail Properties	6290 NORTHAMPTON BOULEVARD	8.10	5.99	17-0030.1	Private	Wet Pond 1	7.88	-76.18975959	36.85301155	Yes	12/17/2020	CB26	Yes	Lake Wright	5/4/2021
Kempsville Behavioral Health Additions	860 KEMPSVILLE ROAD	0.93	0.37	18-0049.2	Private	Detention Basin	0.10	-76.18975959	36.85301155	Yes	1/7/2021	IL54	Yes	Unsegmented estuaries in EBEMH	5/4/2021
Kempsville Behavioral Health Additions	860 KEMPSVILLE ROAD	0.93	0.37	18-0049.1	Private	Bioretention 2	0.46	-76.24554454	36.94893666	Yes	1/7/2021	IL54	Yes	Unsegmented estuaries in EBEMH	4/7/2021
Pinewell Station Apartments	719 E OCEAN VIEW AVENUE	6.72	3.50	18-0019.1	Private	Manufactured Treatment Device	1.59	-76.24526808	36.94886077	Yes	1/8/2021	CB26	Yes	Ches Bay Beaches	1/0/1900
Pinewell Station Apartments	719 E OCEAN VIEW AVENUE	6.72	3.50	18-0019.2	Private	Credit Purchase	0.00	-76.19161605	36.85434966	N/A	1/8/2021	CB26	Yes	Ches Bay Beaches	1/13/2021
Sentara Leigh Cancer Center	6241 E VIRGINIA BEACH BOULEVARD	7.45	6.26	17-0044.1	Private	Manufactured Treatment Device	1.46	-76.19161605	36.85434966	Yes	1/13/2021	IL54	Yes	Unsegmented estuaries in EBEMH	1/13/2021
Sentara Leigh Cancer Center	6241 E VIRGINIA BEACH BOULEVARD	7.45	6.26	17-0044.2	Private	Manufactured Treatment Device	2.51	-76.24862119	36.85735946	Yes	1/13/2021	IL54	Yes	Unsegmented estuaries in EBEMH	4/15/2021
Combined Operations Facility Improvements	1316 BALLENTINE BOULEVARD	1.04	0.89	19-0001.1	Public	Manufactured Treatment Device	0.03	-76.18864038	36.92535293	Yes	1/15/2021	IL56	Yes	Lafayette River - Upper	N/A
Pretty Lake Apartments & Yacht Club	4521-4621 Pretty Lake Ave	6.96	3.28	18-0043.6	Private	Credit Purchase	0.00	-76.18850232	36.92534821	Yes	1/20/2021	CB26	Yes	Little Creek & Harbor	N/A
OASIS WATERLINE	4521 and 4621 Pretty Lake Ave	0.07	0.06	20-0078.1	Private	Credit Purchase	0.00	-76.25582379	36.90995563	N/A	1/20/2021	CB26	Yes	Little Creek & Harbor	N/A
Green Clean	7442 Tidewater Drive	1.36	0.91	20-0059.1	Private	Credit Purchase	0.00	-76.20600343	36.93097094	Yes	1/27/2021	IL56	Yes	Lafayette River - Upper	2/22/2021
9560 10th Bay St-Duplex	9560 10TH BAY STREET	0.19	0.09	18-0025.1	Private	Infiltration 1	0.07	-76.27476848	36.83585324	No	2/11/2021	CB26	Yes	Little Creek & Harbor	N/A
Building 7 Expansion at Colonna's Shipyard	400 E. Indian River Road	0.86	0.49	20-0084.1	Private	Credit Purchase	0.00	-76.23831707	36.86510569	Yes	2/16/2021	IL53	Yes	Eastern Branch, Elizabeth R. - Upper	2/10/2021
ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.3	Private	Bioretention 1	1.48	-76.23823894	36.86512891	Yes	2/18/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	2/10/2021
ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.2	Private	Wet Swale 1	1.01	-76.23823894	36.86512891	Yes	2/18/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	2/10/2021
ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.1	Private	Bioretention 1	3.12	-76.20209335	36.87276562	Yes	2/18/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/8/2021
Moores Bridges WTP Chemical Feed System	6040 WATER WORKS ROAD	36.89	5.34	17-0090.2	Public	Detention Basin	5.00	-76.20195378	36.87279396	N/A	3/4/2021	CB26	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/8/2021
Moores Bridges WTP Chemical Feed System	6040 WATER WORKS ROAD	36.89	5.34	17-0090.1	Public	Manufactured Treatment Device	5.00	-76.19316614	36.87351961	N/A	3/4/2021	CB26	Yes	Broad Creek, Eastern Br. Elizabeth R.	3/11/2021
Norfolk Academy Football Field	1585 WESLEYAN DRIVE	4.16	2.30	15-0044.1	Private	Permeable Pavement 1	2.30	-76.19316614	36.87351961	Yes	3/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	3/11/2021
Norfolk Academy Football Field	1585 WESLEYAN DRIVE	4.16	2.30	15-0044.2	Private	Infiltration 1	2.30	-76.24302579	36.92916818	Yes	3/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/12/2021
Sunset Dr. at Chesapeake Blvd Drainage	1011 SUNSET DRIVE	2.25	2.25	16-0048.1	Public	Manufactured Treatment Device	2.25	-76.30013638	36.8792696	N/A	4/6/2021	CB26	Yes	Little Creek & Harbor	N/A
WEST 38TH STREET APARTMENTS CIVIL SITE PLANS	1045 38TH Street	2.49	1.51	21-0092.2	Private	Credit Purchase	0.00	-76.27851831	36.96661394	Yes	4/6/2021	IL56	Yes	Lafayette River - Upper	4/7/2021
1009 W. Ocean View Duplex	1009 W OCEAN VIEW AVENUE	0.17	0.11	17-0076.1	Private	Infiltration Practices	0.09	-76.19792471	36.92841649	Yes	4/7/2021	IL57	Yes	Willoughby Bay - Beach Area	N/A
1009 W. Ocean View Duplex	1009 W OCEAN VIEW AVENUE	0.17	0.11	17-0076.2	Private	Infiltration Practices	0.09	-76.30232548	36.85934195	Yes	4/7/2021	IL57	Yes	Willoughby Bay - Beach Area	4/8/2021
9542 17th Bay Street Lots 13 & 14	2542 17th Bay Street	0.20	0.18	20-0085.4	Private	Credit Purchase	0.00	-76.27932969	36.86614622	Yes	4/7/2021	CB26	Yes	Little Creek & Harbor	N/A
EVMS Ed. & Admin. Bldg	315 COLLEY AVENUE	2.39	1.54	18-0006.1	Private	Bioretention 1	0.54	-76.19368112	36.87353878	Yes	4/8/2021	IL56	Yes	Elizabeth River Mainstem - Upper	4/13/2021
1855 CHURCH STREET MIXED USE DEVELOPMENT	3801 Church Street	0.39	0.34	20-0069.1	Private	Credit Purchase	0.00	-76.19310981	36.87244181	N/A	4/12/2021	IL56	Yes	Elizabeth River Mainstem - Upper	6/11/2021
Norfolk Academy Leadership Center	1585 WESLEYAN DRIVE	0.75	0.44	15-0052.1	Private	Bioretention- Urban	0.23	-76.19310981	36.87244181	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	6/11/2021
Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	2.60	1.37	16-0031.1	Private	Bioretention- Urban	0.19	-76.19303471	36.87194416	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/13/2021
Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	2.60	1.37	16-0031.2	Private	Rooftop or Impervious Surface Disconnect	0.20	-76.1932171	36.87184706	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/13/2021
Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	2.60	1.37	16-0031.3	Private	Bioretention 1	0.48	-76.19368381	36.87312802	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/13/2021
Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	2.60	1.37	16-0031.4	Private	Dry Swale 1	0.23	-76.19416392	36.87264070	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	4/15/2021
Norfolk Academy Refectory	1585 WESLEYAN DRIVE	0.25	0.14	16-0033.1	Private	Rooftop or Impervious Surface Disconnect	0.07	-76.24258174	36.90565817	Yes	4/13/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/3/2021
Norfolk Academy STEAM Addition	1585 Wesleyan Drive	0.07	0.02	16-0078.1	Private	Rooftop or Impervious Surface Disconnect	0.02	-76.24252039	36.90558659	Yes	4/15/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/3/2021
Mt Gilead Church parking addition	1057 Kennedy Street	0.80	0.61	18-0032.3	Private	Manufactured Treatment Device	0.80	-76.21802123	36.91398395	Yes	5/3/2021	IL56	Yes	Lafayette River - Upper	8/12/2021
Mt Gilead Church parking addition	1057 Kennedy Street	0.80	0.61	18-0032.2	Private	Manufactured Treatment Device	0.80	-76.21802152	36.91453121	Yes	5/3/2021	IL56	Yes	Lafayette River - Upper	8/12/2021
Grandy Village Phase VI	619 WILEY DRIVE	12.69	5.26	16-0034.1	Public	Wet Pond	7.71	-76.21819989	36.91450638	N/A	5/10/2021	IL54	Yes	Elizabeth River, Eastern Branch	8/12/2021
Norfolk Botanical Garden- NATO Tower Renovations	6700 Azalea Garden Road	0.81	0.21	17-0053.1	Private	Permeable Pavement	0.45	-76.21778468	36.91442308	N/A	5/11/2021	CB26	Yes	Lake Whitehurst (PWS)	8/12/2021
847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	0.80	0.00	18-0101.1	Public	Compost Amendment	0.87	-76.24796319	36.84134504	No	5/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/11/2021
847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	0.80	0.00	18-0101.2	Public	Other Retrofit- Runoff Reduction	0.87	-76.19848402	36.90345288	N/A	5/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/11/2021
847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	0.80	0.00	18-0101.4	Public	Other Retrofit- Runoff Reduction	0.87	-76.23516495	36.84642762	No	5/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/11/2021
847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	0.80	0.00	18-0101.3	Public	Vegetated Filter Strip	0.87	-76.23470402	36.84681317	Yes	5/11/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	5/11/2021
5th-7th Bay Redevelopment	2512 Pleasant Ave	11.16	5.71	16-0013.3	Private	Infiltration 2	1.56	-76.23470402	36.84681317	Yes	5/12/2021	CB26	Yes	Little Creek & Harbor	5/11/2021
5th-7th Bay Redevelopment	2512 Pleasant Ave	11.16	5.71	16-0013.4	Private	Infiltration 2	1.21	-76.23470402	36.84681317	Yes	5/12/2021	CB26	Yes	Little Creek & Harbor	5/11/2021
Parker Ave. Drainage Improvements	1455 38TH STREET	2.88	2.02	18-0073.1	Public	Manufactured Treatment Device	2.88	-76.21067023	36.93256662	N/A	5/13/2021	IL56	Yes	Elizabeth River Mainstem - Middle	5/12/2021
Woodland Avenue Baptist Church	2736 Woodland Ave	0.43	0.28	12-0048.1	Private	Infiltration	0.15	-76.2107294	36.93307166	No	5/14/2021	IL54	Yes	Elizabeth River, Eastern Branch	5/12/2021
5th-7th Bay Redevelopment	2512 Pleasant Ave	11.16	5.71	16-0013.2	Private	Infiltration 2	1.58	-76.30980287	36.87922885	Yes	5/14/2021	CB26	Yes	Little Creek & Harbor	5/13/2021
5th-7th Bay Redevelopment	2512 Pleasant Ave	11.16	5.71	16-0013.5	Private	Infiltration 2	0.66	-76.21139442	36.93327481	Yes	5/14/2021	CB26	Yes	Little Creek & Harbor	5/14/2021
5th-7th Bay Redevelopment	2512 Pleasant Ave	11.16	5.71	16-0013.6	Private	Manufactured Treatment Device	1.36	-76.20957052	36.93401159	Yes	5/14/2021	CB26	Yes	Little Creek & Harbor	5/14/2021
BAYLOR PARKING	118 W 26th Street	1.08	1.00	18-0093.1	Private	Manufactured Treatment Device	0.21	-76.21129787	36.93366594	Yes	5/14/2021	IL56	Yes	Lafayette River - Upper	5/14/2021
SHOREWOOD COVE- BUILDING ADDITION	295 Corporate Blvd	7.03	0.02	20-0018.1	Public	Infiltration Practices	0.61	-76.28475397	36.87108524	Yes	5/17/2021	IL56	Yes	Eastern Branch, Elizabeth R. - Upper	5/14/2021
THE FUSION MULTI-FAMILY DEVELOPMENT	225 W Olney Road	2.19	2.08	21-0005.3	Private	Credit Purchase	0.00	-76.21205093	36.83407056	Yes	5/19/2021	IL56	Yes	Elizabeth River Mainstem - Upper	5/17/2021
1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	8.27	5.84	20-0037.1	Private	Manufactured Treatment Device	2.94	-76.29176165	36.85593901	Yes	6/8/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	N/A
1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	8.27	5.84	20-0037.2	Private	Manufactured Treatment Device	1.58	-76.22750972	36.86811784	Yes	6/8/2021	IL54	Yes	Broad Creek, Eastern Br. Elizabeth R.	6/16/2021
1400 Sewells Point Rd- Site Improvement	1400 Sewells Point	8.27	5.84	20-0037											

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Virginia Wesleyan College - Physical Plant	1584	Wesleyan Drive	6.83	0.29	92067.053.1	Private	Extended Detention Basin	6.83	-76.19211137	36.87064762	Yes	02/25/1991	Active	IL54	
Virginia Wesleyan College - Physical Plant	1584	Wesleyan Drive	6.83	0.29	92067.053.2	Private	Extended Detention Basin	4.33	-76.19096875	36.87075491	Yes	02/25/1991	Active	IL54	
Greek Orthodox Church	7220	Granby Street	0.24	0.09	91067.012.1	Private	General Infiltration Practices	0.24	-76.27294645	36.9075702	Yes	07/16/1991	Active	IL56	
Sarah Lee Baker Perennial Garden	6700	Azalea Garden Road	0	0	522.1	Private	General Infiltration Practices	0	-76.20085888	36.90247063	No	08/26/1991	Active	CB26	
9533 7th Bay Street	9533	7th Bay Street	0.17	0.05	91067.008.1	Private	General Infiltration Practices	0.172	-76.2104845	36.93070059	Yes	09/16/1991	Active	CB26	
Beach Maintenance Blvd, NRHA	700	Ocean View Avenue	1.31	0.11	5161	Public	General Infiltration Practices	1.31	-76.24429793	36.95030464	No	01/01/1992	Active	CB26	
Nauticus	1	WATERSIDE DRIVE	0	0	529.1	Public	Manufactured BMP Systems	1.65	-76.23930614	36.84714879	No	01/01/1992	Active	IL56	
Calvary Revival Church Addition	5833	Poplar Hall Drive	3.95	3.49	05-0146.5	Private	General Infiltration Practices	1.41	-76.20619297	36.84804957	Yes	01/01/1992	Active	IL54	
Archers Green Apartments	261	Suburban Parkway	2.88	1.12	91067.006.2	Private	General Infiltration Practices	1.2	-76.26781404	36.91015561	Yes	02/13/1992	Active	IL56	
Archers Green Apartments	261	Suburban Parkway	2.88	1.12	91067.006.1	Private	General Infiltration Practices	2.49	-76.26764764	36.91059995	Yes	02/13/1992	Active	IL56	
Parkdale Day School	7419	Parkdale Drive	0.6	0.1	91067.032.1	Private	General Infiltration Practices	0.46	-76.26651049	36.91132442	Yes	06/29/1992	Active	IL56	
Shoshone Court	4553	Shoshone Court	0.75	0.75	92067.022.1	Private	General Infiltration Practices	8.93	-76.237822	36.879089	No	07/02/1992	Active	IL56	
Azalea Super Service	5828	Curlew Drive	0	0	92067.087.1	Private	General Infiltration Practices	0	-76.20549291	36.84163163	No	12/16/1992	Active	IL54	
Bay Point Club House	9511	BAY FRONT DRIVE	0.89	0.69	92067.013.1	Private	General Infiltration Practices	0.89	-76.18166149	36.92442682	Yes	12/17/1992	Active	CB26	
Division of Streets & Bridges	2205	McKann Avenue	3.52	3.04	528.1	Public	General Infiltration Practices	3.74	-76.25417501	36.8601263	Yes	01/01/1993	Active	IL56	
Lake Liberty, NRHA	3000	LAKEBRIDGE DRIVE	0	0	512.1	Public	Retention Basin	195	-76.24935116	36.84829066	No	01/01/1993	Active	IL54	
Virginia Zoological Park, Phase I	3500	Granby Street	12.79	5.19	1473.1	Public	General Intermittent Sand Filter Practices	6.52	-76.27678685	36.87716769	No	01/04/1993	Active	IL56	
Mazzika Restaurant	4800	Colley Avenue	0.4132	0.39	174.1	Private	General Infiltration Practices	0.129	-76.2947965	36.88743791	Yes	06/16/1993	Active	IL56	
Norview Middle School	6325	Sewells Point Road	16	4.65	NPS01.1	School	Extended Detention Basin	10.04	-76.24306798	36.89442308	Yes	08/31/1993	Active	IL56	
Norview Middle School	6325	Sewells Point Road	16	4.65	NPS01.2	School	Extended Detention Basin	5.96	-76.24065399	36.89356075	Yes	08/31/1993	Active	IL56	
Village Foods - Azalea Garden & Village Intersec	1187	AZALEA GARDEN ROAD	5.34	4.4	91067.022.1	Private	Retention Basin	5.34	-76.234721	36.85843	No	12/15/1993	Active	IL54	
Cedar Grove Parking Lot	207	E Princess Anne Road	0	0	533.1	Public	Detention Basin	10.36	-76.28655783	36.86019606	No	01/01/1994	Active	IL56	
FBI Building - Riverside Corporate Center	150	CORPORATE BOULEVARD	4.04	2.56	1791.1	Private	Detention Basin	1.92	-76.21246666	36.8392854	No	02/14/1994	Active	IL54	
FBI Building - Riverside Corporate Center	150	CORPORATE BOULEVARD	4.04	2.56	1791.2	Private	Retention Basin	1.92	-76.21345639	36.84002169	No	02/14/1994	Active	IL54	
Raytheon	2555	Ellsmere Avenue	1.57	1.12	92067.076.1	Private	Detention Basin	1.177	-76.22064203	36.87676383	Yes	04/15/1994	Active	IL56	
Barry's Performance Car Shop	2131	Cromwell Road	0.57	0.14	1793.1	Private	General Infiltration Practices	0.57	-76.24874756	36.86173904	Yes	06/09/1994	Active	IL54	
Barry's Performance Car Shop	2131	Cromwell Road	0.57	0.14	1793.2	Private	General Infiltration Practices	0.121	-76.24848738	36.86175835	Yes	06/09/1994	Active	IL54	
Davita Dialysis Center	962	Norfolk Square	1.73	1.47	1122.1	Private	General Infiltration Practices	1.734	-76.23450711	36.85383514	Yes	07/25/1994	Active	IL54	
Lake Whitehurst Harvesting Facility	7601	Leafwood Drive	0.43	0.24	519.1	Private	Detention Basin	0.43	-76.20882958	36.90694287	No	09/07/1994	Active	CB26	
Dr. Hamlin Parking Lot	1806	Hampton Boulevard	0.2991	0.25	1761.1	Private	Detention Basin	0.2991	-76.30091786	36.87058003	Yes	09/08/1994	Active	IL56	
Annetta M. Lane Apartments	2734	Gate House Road	0.81	0.53	1100.1	Private	Detention Basin	0.53	-76.25648975	36.84997593	Yes	09/13/1994	Active	IL54	
BJ's Wholesale Warehouse	5820	E VIRGINIA BEACH BOULEVARD	11.2	10.34	1121.1	Private	Retention Basin	12.385	-76.20571285	36.85811329	Yes	09/19/1994	Active	IL54	
Norfolk Botanical Gardens - Visitors Reception	6700	Azalea Garden Road	10.86	4.01	518.1	Public	Retention Basin	10.86	-76.19856675	36.9025854	No	09/22/1994	Active	CB26	
BP Gas Station	3210	Chesapeake Boulevard	0.56	0.47	1106.1	Private	General Infiltration Practices	0.423	-76.25247315	36.87503769	Yes	09/27/1994	Active	IL56	
Thrifty Car Rental	3579	N Military Highway	1.83	1.75	1142.1	Private	Detention Basin	1.83	-76.22258529	36.89236485	Yes	11/04/1994	Active	CB26	
Greek Orthodox Church	7220	Granby Street	0.46	0.33	1786.1	Private	Grassed Swale	0.144	-76.27336621	36.90856427	No	11/06/1994	Active	IL56	
NRHA CMD Facility	910	Ballentine Boulevard	0.12	0.12	1799.1	Private	General Infiltration Practices	0.12	-76.2451306	36.84932022	Yes	11/06/1994	Active	IL54	
Norfolk Public Schools Transportation Operations	5555	Raby Road	9.95	8.06	NPS02.1	School	Detention Basin	9.95	-76.21695814	36.85729723	No	11/07/1994	Active	IL54	
Helena Townhouses	1601	Helena Avenue	0.44	0.18	1474.1	Private	General Infiltration Practices	0.221	-76.3048996	36.91003443	Yes	11/17/1994	Active	IL56	
Contel Cellular Tower	424	W Government Avenue	0.24	0.07	1150.1	Private	General Infiltration Practices	0.24	-76.26332134	36.9563285	Yes	11/102/1994	Active	IL57	
Warehouse	1141	Lance Road	0.5	0.34	1146.1	Private	Grassed Swale	0.006	-76.21576337	36.86147182	Yes	11/23/1994	Active	IL54	
Duplex Dudley Avenue - Lot "F"	709	Dudley Avenue	0.28	0.07	156.1	Private	General Infiltration Practices	0.28	-76.24699205	36.94275246	Yes	12/21/1994	Active	CB26	
Bay Oaks Place (NRHA)	2301	Bay Oaks Place	1.14	0.91	158.1	Public	General Infiltration Practices	0.89	-76.21233791	36.93506831	Yes	12/29/1994	Active	CB26	
Gospel Church of Deliverance	711	Comstock Street	1.45	0.53	91067.003.1	Private	Detention Basin	1.451	-76.23708196	36.84291794	Yes	01/01/1995	Active	IL54	
Anne Outten Pond	1401	Anne Street	99.43	58.95	51.1	Public	Retention Basin	99.4	-76.27993226	36.86072076	N/A	01/01/1995	Active	IL56	
Silver Lake/Duck Pond	517	Duck Pond Road	0	0	514.1	Public	Retention Basin	74.35	-76.22019177	36.848867	No	01/01/1995	Active	IL54	
Meadow Lake	5442	Bayberry Drive	0	0	515.1	Public	Retention Basin	193.1	-76.22117222	36.85139707	No	01/01/1995	Active	IL54	
Ballentine Elementary School Lake	3000	Dana Street	0	0	52.1	Public	Retention Basin	179.83	-76.25348463	36.86486819	N/A	01/01/1995	Active	IL56	
Lake Modoc	925	E Balview Avenue	0	0	56.1	Public	Retention Basin	81.31	-76.24341619	36.94620794	N/A	01/01/1995	Active	CB26	
Lake Scott	5906	McGinnis Circle	0	0	58.1	Public	Retention Basin	15.89	-76.20504462	36.83335344	No	01/01/1995	Active	IL54	
The Anchorage-South Hampton Roads Support Housing	112	Cromwell Parkway	4.58	2.09	1158.1	Private	Detention Basin	0.508	-76.27173811	36.91279668	Yes	01/01/1995	Active	IL56	
Applebee's - Janaf Shopping Center	5750	E VIRGINIA BEACH BOULEVARD	1.44	1	1764	Private	Detention Basin	0.91	-76.20775787	36.85724227	No	01/01/1995	Active	CB26	
9501 8th Bay Street	9501	8th Bay Street	0.35	0.04	1109.1	Private	Vegetated Filter Strip	0	-76.20953077	36.92956893	No	01/05/1995	Active	CB26	
Saason Presb. Church	5135	Stannart Street	2.8	0.7	1119.1	Private	Detention Basin	1.4	-76.22522727	36.85409784	Yes	02/02/1995	Active	IL54	
Saason Presb. Church	5135	Stannart Street	2.8	0.7	1119.2	Private	Detention Basin	1.4	-76.22577664	36.85424642	Yes	02/02/1995	Active	IL54	
Autumn Care	1401	Halstead Avenue	4.63	2.4	123.1	Private	Detention Basin	4.63	-76.22488797	36.8671371	Yes	02/03/1995	Active	IL54	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.1	Private	General Infiltration Practices	0.143	-76.27181858	36.94301185	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.3	Private	General Infiltration Practices	0.143	-76.27021462	36.94210292	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.2	Private	General Infiltration Practices	0.143	-76.27204455	36.94157663	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.8	Private	General Infiltration Practices	0.143	-76.27289683	36.93906518	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.9	Private	General Infiltration Practices	0.143	-76.27462685	36.9416806	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.4	Private	General Infiltration Practices	0.143	-76.27069876	36.94061729	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.7	Private	General Infiltration Practices	0.143	-76.27188027	36.93910698	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.5	Private	General Infiltration Practices	0.143	-76.27133042	36.94213829	Yes	02/03/1995	Active	IL57	
Merrimac Landing Apartments (off site parking)	8807	Monitor Way	3.26	1.29	175.6	Private	General Infiltration Practices	0.143	-76.27204455	36.94157663	Yes	02/03/1995	Active	IL57	
Macedonia Christian Church	1426	Marshall Avenue	0.51	0.31	1116.1	Private	Detention Basin	0.212	-76.26340717	36.85913697	Yes	02/21/1995	Active	IL56	
Allied Systems	2224	Springfield Avenue	2.47	1.81	1178.1	Private	Extended Detention Basin	0.42	-76.25377387	36.8327058	Yes	03/16/1995	Active	IL54	
Bay Oaks Place Extension NRHA	5214	Bay Oaks Place	0.26	0.23	1121.2	Public	General Infiltration Practices	0.23	-76.21197493	36.93525085	No	04/29/1995	Active	CB26	
Contel Cellular Tower	416	W 24th Street	0.181	0.041	1170.1	Public	General Infiltration Practices	0.181	-76.2895967	36.8713233	Swale	05/04/1995	Active	IL56	
Coven Building Addition	9325	Croft Street	0.86	0.64	1255.1	Private	Grassed Swale	0.86	-76.22174444	36.88474602	Yes	05/24/1995	Active	CB26	
Norfolk Tent Company	936	Poplar Hall Drive	1.12	0.55	1123.1	Private	Detention Basin	0.72	-76.19777194	36.85367718	Yes	06/22/1995	Active	IL54	
Electrical Equipment Company	9798	Village Avenue	2.82	1.23	1123.2	Private	Detention Basin	2.82	-76.2370652	36.86089673	Yes	06/27/1995	Active	IL54	
Norfolk Fitness and Wellness Center	7300	Newport Avenue	0.99	0.53	1121.7	Public	Detention Basin	0.99	-76.27662639	36.91192315	Yes	07/28/1995	Active	IL56	
711	774	W Little Creek Road	0.73	0.48	1161.1	Public	Detention Basin	0.73	-76.27862629	36.91641735	Yes	08/22/1995	Active	IL57	
Pretty Lake Estates - Lot 11	9520	8th Bay Street	0.17	0.05	1123.1	Private	General Infiltration Practices	0	-76.28075025	36.93016335	Yes	11/01/1995	Active	CB26	
Pretty Lake Estates - Lot 11	9520	8th Bay Street	0.17	0.05	1123.1	Private	Detention Basin	0	-76.28075025	36.93016335	Yes	11/01/1995	Active	CB26	
Robin Hood Road Parking Lot	9798	Robin Hood Road	0.78	0.72	1123.1	Private	Detention Basin	0.78	-76.2160474	36.88085452	No	11/05/1995	Active	IL54	
Super K-Mart	9798	Robin Hood Road	0.78	0.72	1123.1	Private	Detention Basin	24.68	-76.2160474	36.88085452	Yes	11/05/1995	Active	CB26	
Magnolia Cove Regional BMP	5644	N Military Highway	24.68	18.75	MAGC01.1	Public	Detention Basin	24.68	-76.23806511	36.89537976	Yes	11/25/1995	Active	CB26	
Ted Lansing Corporation	5644	N Military Highway	24.68	18.75	MAGC01.1	Public	Detention Basin	24.68	-76.2						

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Pizzeria Uno	5700	E Virginia Beach Boulevard	2.05	1.73	T70.1	Private	Retention Basin	1.8	-76.20826364	36.85720334	Yes	01/01/1996	Active	IL54	
NPD 2nd Precinct Training Center	2500	N Military Highway	8	4.4	S45.1	Public	Retention Basin	6.15	-76.20952964	36.8801441	No	01/04/1996	Active	CB26	
8570 Chesapeake Blvd. (18 unit apartments)	8570	Chesapeake Boulevard	0.76	0.49	T275.1	Private	General Infiltration Practices	0.38	-76.24395043	36.93238366	Yes	01/10/1996	Active	CB26	
8570 Chesapeake Blvd. (18 unit apartments)	8570	Chesapeake Boulevard	0.76	0.49	T275.2	Private	General Infiltration Practices	0.38	-76.24340728	36.9324244	Yes	01/10/1996	Active	CB26	
Union Chapel A.M.E. Church	1200	Saint Julian Avenue	0.65	0.5	T38.1	Private	General Infiltration Practices	0.217	-76.26660168	36.86084737	Yes	01/25/1996	Active	IL56	
Union Chapel A.M.E. Church	1200	Saint Julian Avenue	0.65	0.5	T38.2	Private	General Infiltration Practices	0.217	-76.26681358	36.86084308	Yes	01/25/1996	Active	IL56	
Union Chapel A.M.E. Church	1200	Saint Julian Avenue	0.65	0.5	T38.3	Private	General Infiltration Practices	0.217	-76.26702279	36.86128087	Yes	01/25/1996	Active	IL56	
O' Reilly Auto Parts	3212	Tidewater Drive	0.97	0.97	T278.1	Private	General Infiltration Practices	0.94	-76.26276499	36.87817947	Yes	02/16/1996	Active	IL56	
Target Store	1245	N Military Highway	21.6	16.35	T286.1	Private	Retention Basin	17.1	-76.21405721	36.86569079	No	03/04/1996	Active	IL54	
Auxiliary Systems	2401	Church Street	2.23	1.92	T309.1	Private	Grassed Swale	1.56	-76.27986789	36.86756412	Yes	03/18/1996	Active	IL56	
Cullifer Construction Company	864	W 40th Street	0.12	0.08	T282.1	Private	General Infiltration Practices	0.12	-76.29775822	36.88145927	Yes	03/19/1996	Active	IL56	
U-Haul Center	5609	Raby Road	0.06	0.06	T293.1	Private	General Infiltration Practices	0.06	-76.21427178	36.85820128	Yes	03/26/1996	Active	IL54	
Signature Printing	889	Poplar Hall Drive	0.62	0.04	T317.1	Private	General Infiltration Practices	0.62	-76.19878739	36.85427382	No	03/27/1996	Active	IL54	
Signature Printing	889	Poplar Hall Drive	0.62	0.04	T317.2	Private	Grassed Swale	0.31	-76.19871631	36.85428348	No	03/27/1996	Active	IL54	
Department of Homeland Security Building	5280	Henneman Drive	2.51	1.26	T284.1	Private	Detention Basin	2.51	-76.22339129	36.87582299	Yes	03/28/1996	Active	IL54	
Elm Court Development	915	Elm Court	5.47	1.69	T153.1	Private	Detention Basin	5.47	-76.23534842	36.84860964	Yes	04/12/1996	Active	IL54	
New Hope Christian Community Church	3241	Brest Avenue	0.54	0.17	T343.1	Private	General Infiltration Practices	0.54	-76.25768065	36.87796212	Yes	07/10/1996	Active	IL56	
New Hope Christian Community Church	3241	Brest Avenue	0.54	0.17	T343.2	Private	General Infiltration Practices	0.54	-76.25731051	36.87755018	Yes	07/10/1996	Active	IL56	
Piedmont Aviation Hanger - International Airport	6170	Miller Store Road	0.55	0.55	T281.1	Private	Extended Detention Basin	0.55	-76.20219829	36.88625828	No	07/24/1996	Active	CB26	
Safe Place Mini Storage	6137	Miller Store Road	1.32	1.14	T333.1	Private	General Infiltration Practices	0.86	-76.20340347	36.88269289	Yes	08/21/1996	Active	CB26	
Manteo Street and West Princess Road Townhouses	636	W Princess Anne Road	0.0434	0.038	T370.1	Private	General Infiltration Practices	0.0434	-76.29671752	36.86499659	Yes	08/21/1996	Active	IL56	
Townhouses	7922	Van Patten Road	0.05	0.03	T291.1	Private	General Infiltration Practices	0.05	-76.25512509	36.91773583	Yes	08/26/1996	Active	IL56	
Strip Mall - JANAF	5950	E VIRGINIA BEACH BOULEVARD	1.76	1.12	T379.1	Private	Detention Basin	1.12	-76.20065689	36.85626548	Yes	09/11/1996	Active	IL54	
Lake Taylor High School Stadium	1384	Kempsville Road	35.54	2.87	NPS04.1	School	Manufactured BMP Systems	0.71	-76.20019823	36.86834091	Yes	10/29/1996	Active	IL54	
Little Creek East Shopping Center	3857	E Little Creek Road	1.66	1.33	T297.1	Private	Detention Basin	1.66	-76.19668186	36.91776654	Yes	12/11/1996	Active	CB26	
Shiloh Baptist Church Parking Lot	745	Park Avenue	2.32	1.91	T173.2	Private	Detention Basin	2.32	-76.27003585	36.84843528	Yes	01/01/1997	Active	IL54	
Granby Municipal Building Parking Lot	400	Granby Street	0.42	0.08	S20.1	Public	General Infiltration Practices	0.42	-76.203244	36.882996	N/A	01/01/1997	Active	IL56	
Zap Tax	325	E Bayview Boulevard	0.57	0.21	T257.1	Private	General Infiltration Practices	0.21	-76.25541151	36.93247157	Yes	01/01/1997	Active	CB26	
Booker T. Washington High School	1111	Park Avenue	12.38	2.03	NPS03.1	School	Manufactured BMP Systems	0.34	-76.27079129	36.85457429	Yes	01/01/1997	Active	IL54	
Woodlawn Memorial Gardens Funeral Home	6329	E VIRGINIA BEACH BOULEVARD	2.91	1.68	T409.1	Private	Detention Basin	1.955	-76.18737996	36.85363854	Yes	01/01/1997	Active	IL54	
Woodlawn Memorial Gardens Funeral Home	6329	E VIRGINIA BEACH BOULEVARD	2.91	1.68	T409.2	Private	Detention Basin	1.955	-76.1875791	36.85321923	Yes	01/01/1997	Active	IL54	
Shiloh Baptist Church Parking Lot	745	Park Avenue	2.32	1.91	T173.1	Private	Detention Basin	1.16	-76.2701261	36.84834363	Yes	01/01/1997	Active	IL54	
Commonwealth Building Materials	401	Naval Base Road	0.69	0.69	T285.1	Private	General Infiltration Practices	0.69	-76.26191586	36.90984892	Yes	01/02/1997	Active	IL57	
Chrysler Museum - Gallery Project	245	W Olney Road	0.16	0.16	T222.1	Private	General Infiltration Practices	0.16	-76.29289538	36.85681704	Yes	02/25/1997	Active	IL56	
Dairy Queen/Zero Subs	1520	Colley Avenue	0.32	0.19	T367.1	Private	General Infiltration Practices	0.162	-76.29730403	36.86836451	No	03/31/1997	Active	IL56	
Dairy Queen/Zero Subs	1520	Colley Avenue	0.32	0.19	T367.2	Private	General Infiltration Practices	0.162	-76.29748598	36.86839134	No	03/31/1997	Active	IL56	
John's Brothers Inc. Parking Lot and Wash Building	1384	Ingleside Road	3.7	2.53	BROTHERS.1	Private	Grassed Swale	0.29	-76.242615	36.863043	No	04/17/1997	Active	IL54	
Heritage Bank & Trust	4815	Colley Avenue	0.41	0.29	T457.1	Private	General Infiltration Practices	0.083	-76.29555345	36.8878181	Yes	04/25/1997	Active	IL56	
Heritage Bank & Trust	4815	Colley Avenue	0.41	0.29	T457.2	Private	General Infiltration Practices	0.083	-76.29541129	36.88782024	Yes	04/25/1997	Active	IL56	
Condo	9630	13th Bay Street	0.28	0.2	T349.1	Private	General Infiltration Practices	0.254	-76.20218642	36.93164237	Yes	05/14/1997	Active	CB26	
Doctor's Office	1902	Omohundro Avenue	0.63	0.53	T430.1	Private	General Infiltration Practices	0.63	-76.28657609	36.86631631	Yes	06/12/1997	Active	IL56	
Heco Slings Corporation Building Addition	4570	Progress Road	1.29	0.73	HECO.1	Private	Detention Basin	0.84	-76.23081297	36.86633777	Yes	07/24/1997	Active	IL54	
East Coast Brake Rebuilders	5812	Curlew Drive	1.5	0.88	T447.1	Private	Detention Basin	1.25	-76.20626941	36.84177223	No	07/25/1997	Active	IL54	
L. Fisherman & Son Inc. Flooring Installation	5875	ADDERLEY STREET	0.64	0.44	T449.1	Private	Grassed Swale	0.432	-76.20319158	36.8428294	Yes	10/28/1997	Active	IL54	
Pretty Lake Estates - Lot 14	9532	8th Bay Street	0.17	0.05	T237.1	Private	Bioretention Basins	0	-76.2085798	36.93055139	No	11/03/1997	Active	CB26	
Winn Nursery	1201	E LIBERTY STREET	0.81	0.36	T330.1	Private	Detention Basin	0.81	-76.2771669	36.8247578	Yes	01/01/1998	Active	IL54	
Shell Station	2750	N MILITARY HIGHWAY	0.93	0.74	T416.1	Private	Detention Basin	0.89	-76.21549219	36.88511502	Yes	01/01/1998	Active	CB26	
Ford Motor Company Body Shop & Final Area Addition	2424	Ford Drive	0.5	0.5	T487.1	Private	Detention Basin	0.5	-76.25258446	36.831014	No	01/01/1998	Active	IL54	
Covenant Presbyterian Church	913	Covenant Street	0.56	0.56	T448.1	Private	Detention Basin	0.35	-76.26416087	36.85133347	Yes	03/20/1998	Active	IL54	
Covenant Presbyterian Church	913	Covenant Street	0.56	0.56	T448.2	Private	Detention Basin	0.27	-76.26415014	36.8510845	Yes	03/20/1998	Active	IL54	
New Life Christian Center	3909	Pleasant Avenue	0.97	0.62	T446.1	Private	Detention Basin	0.98	-76.19491696	36.92838498	Yes	05/07/1998	Active	CB26	
Amelia Building at Koger Center	885	Kempsville Road	10.71	88	T591.1	Private	Retention Basin	9.7	-76.19494915	36.85362137	Yes	06/11/1998	Active	IL54	
Kramer Tire	1371	Azalea Garden Road	3.1	2.47	T577.1	Private	Detention Basin	1.11	-76.23598695	36.86512427	Yes	09/17/1998	Active	IL54	
Central Brambleton	1231	Booth Street	0	0	S30.1	Public	Retention Basin	57.02	-76.27105415	36.85174984	N/A	12/03/1998	Active	IL54	
Home Depot, Broad Creek Crossing	1261	N Military Highway	23.92	14.52	T548.1	Private	Retention Basin	22.7	-76.21490479	36.86674656	Yes	12/18/1998	Active	IL54	
USAA Recreation Area	5800	Northampton Boulevard	1.37	0	T36.1	Private	Extended Detention Basin	1.37	-76.203693	36.878807	No	01/01/1999	Active	CB26	
Burning Bush Worship Center	405	Pendleton Street	0.41	0.28	T364.1	Private	General Infiltration Practices	0.223	-76.28357603	36.83562177	Yes	01/01/1999	Active	IL56	
Dale's Train Station	5880	Poplar Hall Drive	1.32	1.15	T400	Private	Detention Basin	1.32	-76.20300114	36.8496851	Yes	01/01/1999	Active	IL54	
Fairlawn Recreation Center Addition	1014	KEMPSVILLE ROAD	3.5	1.21	S23.1	Public	Detention Basin	3.5	-76.19402647	36.85604657	No	01/01/1999	Active	IL54	
Apartment's Parking Lot	1601	Kingston Avenue	0.34	0.15	T435.1	Private	General Infiltration Practices	0.096	-76.22929215	36.9395529	Yes	01/01/1999	Active	CB26	
Moran Towing of Virginia, Inc.	1901	Brown Avenue	0.03	0.03	T450.1	Private	Grassed Swale	0.09	-76.272058	36.84213977	Yes	01/01/1999	Active	IL54	
Langley Federal Credit Union	7420	GRANBY STREET	0.15	0.07	T455.1	Private	General Infiltration Practices	0.15	-76.272902	36.913163	Yes	01/01/1999	Active	IL56	
Norfolk Botanical Gardens Production House	6700	Azalea Garden Road	1.62	0.3	S24.1	Public	Grassed Swale	0.22	-76.198636	36.90720726	Yes	01/01/1999	Active	CB26	
Norfolk Collegiate Lower School	5429	Tidewater Drive	8.81	2.8	T478.1	Private	Extended Detention Basin	3.61	-76.26154304	36.88805408	Yes	01/01/1999	Active	IL56	
Bayview Recreation Center	1434	E Bayview Boulevard	3	0.8	S25.1	Public	General Infiltration Practices	1.44	-76.23507	36.935659	No	01/01/1999	Active	CB26	
Norfolk Juvenile Detention Center	1310	CHILD CARE COURT	28.83	5.04	S26.1	Public	Wet Pond 1	75.97	-76.20866865	36.86733881	N/A	01/01/1999	Active	IL54	
Bayview Elementary School Addition / Renovation	1434	E Bayview Boulevard	0.66	0.43	NPS05.1	School	General Infiltration Practices	2.88	-76.23629877	36.93620261	No	01/01/1999	Active	CB26	
Norfolk Public Health Center	855	W Brambleton Avenue	3.64	1.06	S27.1	Public	General Infiltration Practices	3.64	-76.25102878	36.8617894	No	01/01/1999	Active	IL56	
Calvert Square Community Center Improvements	900	Barnall Road	12.5	10.55	T540.1	Public	General Infiltration Practices	0.545	-76.27639711	36.85387034	No	01/01/1999	Active	IL56	
Fire Station	7924	Cornwall Road	0.8	0.83	S21.1	Public	Grassed Swale	0.051	-76.19890627	36.91857153	Swale	01/01/1999	Active	CB26	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.1	Private	General Infiltration Practices	0.92	-76.25192311	36.87306793	Yes	01/01/1999	Active	IL56	
Combined McKann Ave. Facility	2709	McKann Avenue	1.97	1.92	T631.2	Private	Detention Basin	1.427	-76.25192311	36.8617894	Yes	01/01/1999	Active	IL56	
Calvert Square Site Improvements	900	Barnall Road	12.2	14.01	T631.1	Public	Detention Basin	0.14	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.2	Private	General Infiltration Practices	0.051	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.3	Private	General Infiltration Practices	0.057	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.4	Private	General Infiltration Practices	0.057	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.5	Private	General Infiltration Practices	0.057	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.6	Private	General Infiltration Practices	0.057	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.7	Private	General Infiltration Practices	0.057	-76.27661762	36.85356374	Yes	01/01/1999	Active	IL56	
H.B. Hunter Parking Lot	2814	Cornwall Road	1.97	1.32	T631.8	Private	General Infiltration Practices	0.057	-76.27661762						

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Mount Pleasant Baptist Church Parking Lot	944	Baltimore Street	0.25	0.18	T593.1	Private	Detention Basin	0.265	-76.29166156	36.91694737	Yes	07/13/1999	Active	IL57	
Costco Gas Station	850	Glenrock Road	1.51	1.29	T644	Private	Manufactured BMP Systems	1.24	-76.19978517	36.85074109	Yes	12/02/1999	Active	IL54	
United Way	2515	Walmer Avenue	1.55	1.02	T598.1	Private	Detention Basin	1.29	-76.22481555	36.87738926	Yes	12/13/1999	Active	IL54	
Lake Wright Executive Center	5701	Lake Wright Drive	43	35	98-3611.1	Private	Retention Basin	26.2	-76.20904684	36.87736351	No	01/01/2000	Active	CB26	
Windstream	1319	Ingleisle Road	0.61	0.45	99-4087.1	Private	Detention Basin	0.5	-76.24395311	36.85945888	No	01/01/2000	Active	IL54	
Jack & Jill Ice Cream Co.	7816	N Military Highway	0.884	0.748	T188.1	Private	General Infiltration Practices	0.884	-76.23697668	36.91450051	Yes	01/01/2000	Active	CB26	
HRT Station Wards Corner	7725	Granby Street	3.25	2.15	T402.1	Private	Detention Basin	0.083	-76.27396345	36.91830908	Yes	01/01/2000	Active	IL56	
Beekman Street & Cape Henry Avenue	1557	Beekman Street	1.3	0.05	T527.1	Private	General Infiltration Practices	0.163	-76.22304261	36.87385974	No	01/01/2000	Active	IL54	
Lot E Bay Oaks Place		E Ocean View Avenue	0.17	0.06	T571.1	Private	General Infiltration Practices	0.04	-76.21246826	36.9355258	No	01/01/2000	Active	CB26	
Calz Pizza	728	E Bayview Boulevard	0.46	0.39	T678.1	Private	Grassed Swale	0.24	-76.24499917	36.93412136	Yes	01/01/2000	Active	CB26	
Plume Ln. Parking Garage	545	E PLUME STREET	0.87	0.9	S35.1	Public	Manufactured BMP Systems	0.87	-76.28668472	36.84631421	No	01/01/2000	Active	IL54	
Glad Tidings Church	301	S NEWTOWN ROAD	10	2.63	T731.1	Private	General Infiltration Practices	0.384	-76.1943993	36.83456267	Yes	01/01/2000	Active	IL54	
Alameda Business Center	2500	Alameda Avenue	6.59	0.26	T744.1	Private	Grassed Swale	6.59	-76.21353418	36.88026211	Yes	01/01/2000	Active	IL54	
Cox Communications	4573	Village Avenue	0.08	0.06	T747.1	Private	General Infiltration Practices	0.075	-76.23086929	36.86266074	Yes	01/01/2000	Active	IL54	
Consolidated McKann Ave Facility	2233	McKann Avenue	1.12	0.9	S36.1	Public	Manufactured BMP Systems	4.22	-76.2545988	36.86174226	No	01/01/2000	Active	IL56	
Lake Wright Executive Center	5701	Lake Wright Drive	43	35	98-3611.2	Private	Retention Basin	12.25	-76.20966911	36.87934598	No	01/01/2000	Active	CB26	
Lake Wright Executive Center	5701	Lake Wright Drive	43	35	98-3611.3	Private	Retention Basin	5.32	-76.20436907	36.87814449	No	01/01/2000	Active	CB26	
Calvary Revival Church Addition	5833	Poplar Hall Drive	3.95	3.49	05-0146.4	Private	Retention Basin	2.5	-76.205657	36.848839	Yes	01/01/2000	Active	IL54	
Popeye's Chicken and Biscuits	5850	E VIRGINIA BEACH BOULEVARD	0.95	0.67	T766.1	Private	Detention Basin	0.297	-76.20397747	36.856141	No	02/25/2000	Active	IL54	
Turbo Wash Dry Cleaners	4311	Colley Avenue	0.23	0.12	T755.1	Private	General Infiltration Practices	0.133	-76.29505829	36.88424156	Yes	02/28/2000	Active	IL56	
Granby High School Renovations	7101	Granby Street	21.7	9.22	NPS05.1	School	General Infiltration Practices	4.85	-76.27946019	36.90699194	Yes	02/29/2000	Active	IL56	
Duplex	6400	Chesapeake Boulevard	0.13	0.06	T612.1	Private	General Infiltration Practices	0.131	-76.23843312	36.8967097	Yes	02/29/2000	Active	CB26	
Granby High School Renovations	7101	Granby Street	21.7	9.22	NPS05.2	School	General Infiltration Practices	0.11	-76.27700865	36.90823184	Yes	02/29/2000	Active	IL56	
Granby High School Renovations	7101	Granby Street	21.7	9.22	NPS05.3	School	General Infiltration Practices	1.26	-76.27996445	36.90670052	Yes	02/29/2000	Active	IL56	
Granby High School Renovations	7101	Granby Street	21.7	9.22	NPS05.4	School	General Infiltration Practices	5.19	-76.27654731	36.908086	Yes	02/29/2000	Active	IL56	
Bank Street Baptist Church Parking Lot	7036	Chesapeake Boulevard	1.65	0.93	T111.1	Private	General Infiltration Practices	1.65	-76.23933971	36.90747905	Yes	03/01/2000	Active	CB26	
BB&T	131	W Ocean View Avenue	0.53	0.41	T616.1	Private	General Infiltration Practices	0.4	-76.25257831	36.9550718	Yes	03/06/2000	Active	CB26	
Centura College	7020	N Military Highway	2.52	1.29	99-4224.1	Private	Detention Basin	0.945	-76.23312235	36.90875515	Yes	04/01/2000	Active	CB26	
First Va Bank of Tidewater	2222	E Little Creek Road	2.35	1.7	T589.1	Private	Retention Basin	2.35	-76.22149228	36.9161196	Yes	04/19/2000	Active	IL56	
Willoughby Bluff Condos	264	W Ocean View Avenue	0.086	0.057	T643.1	Private	General Infiltration Practices	0.086	-76.25543028	36.95757591	Yes	05/02/2000	Active	IL57	
Airport Long Term Parking	2200	Norview Avenue	3.49	2.95	T746.1	Private	Grassed Swale	1.12	-76.20464849	36.89494902	No	05/02/2000	Active	CB26	
Excel Paving Corporation	1132	Harmony Road	0.3	0.25	T770.1	Private	Detention Basin	0.31	-76.2174046	36.86107699	Yes	05/10/2000	Active	IL54	
Bay Oaks Place	3701	Bay Oaks Place	4.16	2.45	T509.1	Public	General Infiltration Practices	4.83	-76.19739801	36.93156679	No	05/12/2000	Active	CB26	
WHRO building addition	5200	Hampton Boulevard	0	0	00-4523.1	Private	General Infiltration Practices	0	-76.30173728	36.88959972	No	09/08/2000	Active	IL56	
First Pentecostal Church-Building and Parking Lot	1430	WILSON ROAD	0.17	0.06	T250.1	Private	General Infiltration Practices	0.123	-76.26584262	36.82875976	Yes	10/09/2000	Active	IL54	
First Pentecostal Church-Building and Parking Lot	1430	WILSON ROAD	0.17	0.06	T250.2	Private	General Infiltration Practices	0.123	-76.26592174	36.82864866	Yes	10/09/2000	Active	IL54	
First Pentecostal Church-Building and Parking Lot	1430	WILSON ROAD	0.17	0.06	T250.3	Private	General Infiltration Practices	0.123	-76.26555294	36.82812857	Yes	10/09/2000	Active	IL54	
First Pentecostal Church-Building and Parking Lot	1430	WILSON ROAD	0.17	0.06	T250.4	Private	General Infiltration Practices	0.123	-76.26563072	36.82803732	Yes	10/09/2000	Active	IL54	
Duplex	248	W Freemason Street	0.45	0.37	T776.1	Private	General Infiltration Practices	0.054	-76.2931864	36.85225636	Yes	10/11/2000	Active	IL54	
Duplex	248	W Freemason Street	0.45	0.37	T776.2	Private	General Infiltration Practices	0.054	-76.29306369	36.85226012	Yes	10/11/2000	Active	IL56	
The Kempsville Center	860	Kempsville Road	6.2	2.31	00-4341.1	Private	Detention Basin	0.85	-76.189161	36.852895	Yes	11/04/2000	Active	IL54	
Riverside Commerce Center I	120	Corporate Boulevard	6.65	5.18	T719.1	Private	Retention Basin	6.65	-76.21440155	36.84116115	Yes	11/14/2000	Active	IL54	
Arct Equipment Co.	304	E 25th Street	1.72	1.19	T769.1	Private	Manufactured BMP Systems	1.39	-76.28102124	36.86978503	Yes	12/12/2000	Active	IL56	
Arct Equipment Co.	304	E 25th Street	1.72	1.19	T769.2	Private	Grassed Swale	0.327	-76.28164887	36.87033434	Yes	12/12/2000	Active	IL56	
Norfolk Commerce Pond #3	2416	ALMEDA AVENUE	0	0	S11.1	Public	Detention Basin	28.35	-76.212845	36.878975	No	01/01/2001	Active	IL56	
Parking Lot	2129	Vincent Avenue	0.52	0.13	T792.1	Private	General Infiltration Practices	0.52	-76.25106901	36.86064886	Yes	01/01/2001	Active	IL56	
Teagle and Little	1048	W 27th Street	0.2	0.13	00-4352.1	Private	Detention Basin	0.203	-76.29957408	36.87658682	Yes	02/05/2001	Active	IL56	
WVEC Parking Lot improvements	716	FRONT STREET	0	0	01-0055.1	Private	General Infiltration Practices	0	-76.30400589	36.85614552	Yes	05/14/2001	Active	IL56	
Ballentine Home	7211	Granby Street	0.97	0.56	99-4169.1	Private	General Infiltration Practices	0.22	-76.27621606	36.90813962	No	05/29/2001	Active	IL56	
USAA Recreation Area	5800	Northampton Boulevard	1.37	0	T36.2	Private	General Infiltration Practices	0.4	-76.20658447	36.87680132	Yes	06/01/2001	Active	CB26	
Faith Wesleyan Church	745	Pecan Point Road	2.65	1.41	99-4033.1	Private	Detention Basin	3.86	-76.22369472	36.85366602	Yes	06/04/2001	Active	IL54	
Rite Aid	1101	E Little Creek Road	0.91	0.74	T136.1	Private	Detention Basin	0.91	-76.24086589	36.91374135	Yes	06/08/2001	Active	CB26	
Calvary Academy of the King Elementary School	2329	E Little Creek Road	10.39	4.73	T258.1	Private	Retention Basin	10.392	-76.21840239	36.91394937	Yes	06/13/2001	Active	CB26	
Calvary Academy of the King Elementary School	2329	E Little Creek Road	10.39	4.73	T258.2	Private	Retention Basin	5.196	-76.21867597	36.91390005	Yes	06/13/2001	Active	CB26	
Norfolk Commerce Pond #2	5342	ROBIN HOOD ROAD	0	0	S10.1	Private	Retention Basin	28.35	-76.222748	36.879998	No	06/18/2001	Active	IL56	
Norfolk Commerce Pond #1	5300	ROBIN HOOD ROAD	0	0	S9.1	Private	Retention Basin	28.35	-76.22519374	36.87950046	No	06/28/2001	Active	IL56	
Norview Landings	1232	Norview Avenue	1.284	0.7	00-4343.1	Private	Detention Basin	1.284	-76.23633295	36.89060474	Yes	07/03/2001	Active	IL56	
Quarles Petroleum, Inc.	4545	PROGRESS ROAD	1.35	0	01-0009.1	Private	Extended Detention Basin	0.945	-76.23294801	36.86356419	Yes	07/13/2001	Active	IL54	
Quarles Petroleum, Inc.	4545	PROGRESS ROAD	1.35	0	01-0009.2	Private	Manufactured BMP Systems	1.277	-76.23312235	36.86410255	Yes	07/13/2001	Active	IL54	
Navy Federal Credit Union	1530	International Boulevard	3	1.88	T326.1	Private	Detention Basin	3	-76.22733414	36.89629356	Yes	07/26/2001	Active	CB26	
Enterprise Rent-A-Car	1361	E Little Creek Road	0.45	0.3	T382.1	Private	General Infiltration Practices	0.45	-76.23480946	36.91566712	Yes	07/30/2001	Active	CB26	
Rite Aid Regional Office	5315	HENNEMAN DRIVE	0.75	0.5	T516.1	Private	General Infiltration Practices	0.75	-76.22220576	36.87568138	No	08/01/2001	Active	IL54	
Park Place Central	601	35th Street	0.26	0.15	T566.1	Private	Detention Basin	0.269	-76.29074156	36.87790419	Yes	08/02/2001	Active	IL56	
Walter H. Taylor Elementary School	1410	Claremont Avenue	4.03	1.5	NPS07.1	School	General Infiltration Practices	0.4	-76.3042599	36.86989661	Yes	08/20/2001	Active	IL56	
Walter H. Taylor Elementary School	1410	Claremont Avenue	4.03	1.5	NPS07.2	School	General Infiltration Practices	0.24	-76.30405605	36.86991939	Yes	08/20/2001	Active	IL56	
Walter H. Taylor Elementary School	1410	Claremont Avenue	4.03	1.5	NPS07.3	School	General Infiltration Practices	0.38	-76.30394877	36.86945887	Yes	08/20/2001	Active	IL56	
Bazemore's	1170	Lexan Avenue	0.83	0.63	T705.1	Private	Manufactured BMP Systems	0.35	-76.30288392	36.9005717	Yes	08/27/2001	Active	IL56	
Mt. Gilead Baptist Church	1057	Kennedy Street	0.402	0.291	00-4298.1	Private	General Infiltration Practices	0.201	-76.24259025	36.90640026	Yes	09/11/2001	Active	IL56	
Mt. Gilead Baptist Church	1057	Kennedy Street	0.402	0.291	00-4298.2	Private	General Infiltration Practices	0.201	-76.24245917	36.90597989	Yes	09/11/2001	Active	IL56	
22nd St. Parking Lot	738	W 22nd Street	0.93	0.74	00-4320.1	Private	General Infiltration Practices	0.93	-76.29352838	36.87076778	No	09/19/2001	Active	IL56	
Matrix Technical Solutions, Inc.	2446	Florida Avenue	0.25	0.17	00-4283.1	Private	General Infiltration Practices	0.248	-76.24642946	36.86729078	No	09/21/2001	Active	IL56	
Norfolk Yacht and Country Club	7001	Hampton Boulevard	0.92	0.57	00-4333.1	Private	Manufactured BMP Systems	0.645	-76.30683215	36.90831073	Yes	09/25/2001	Active	IL56	
U-Haul	7448	N Military Highway	0.46	0.36	99-4232.1	Private	Manufactured BMP Systems	0.644	-76.23420526	36.91132442	Yes	10/02/2001	Active	IL54	
B'nai Israel Congregation	420	Spotswood Avenue	0.46	0.63	00-4385.1	Private	General Infiltration Practices	0.185	-76.22012712	36.86662853	Yes	10/30/2001	Active	IL56	
B'nai Israel Congregation	420	Spotswood Avenue	0.46	0.63	00-4385.2	Private	General Infiltration Practices	0.185	-76.22019324	36.86663603	Yes	10/30/2001	Active	IL56	
B'nai Israel Congregation	420	Spotswood Avenue	0.46	0.63	00-4385.3	Private	General Infiltration Practices	0.119	-76.22019324	36.86663603	Yes	10/30/2001	Active	IL56	
Ronald McDonald House	404	Colley Avenue	0.4	0.23	01-0014.1	Private	General Infiltration Practices	0.4	-76.30063835	36.85921935	No	11/20/2001	Active	IL56	
Tidewater Park Elementary	1045	E Brambleton Avenue	0.89	0.59	NPS08.1	Private	Detention Basin	1.7	-76.27019685	36.849925	Yes	01/01/2002	Active	IL54	
First Baptist Church of Bolling Brook	120	W 28th Street	0	0	01-0077.1	Private	General Infiltration Practices	0.056	-76.27581773	36.90507908	Yes	01/01/2002	Active	IL56	
Lambert's Point Park	1506	W 28th Street	0.223	0.28	S36.2	Public	Detention Basin	79.5	-76.31137845	36.87982657	Yes				

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Avis Rent A Car Expansion	3462	N Military Highway	2.912	2.649	T465.1	Private	Detention Basin	2.912	-76.21830046	36.88878132	Yes	01/01/2002	Active	CB26	
Shorewood Cove Apartments	293/295	Corporate Boulevard	5.4	2.58	00-4329.1	Private	General Infiltration Practices	0.61	-76.21184707	36.83561673	Yes	01/17/2002	Active	IL54	
Landmark Aviation	6101	BURTON STATION ROAD	1.64	1.58	T498.1	Private	Extended Detention Basin	1.64	-76.19799726	36.88656079	Yes	01/22/2002	Active	CB26	
Mallory Country Club	907	WEYANOKA STREET	0	0	01-0019.1	Private	General Infiltration Practices	0.212	-76.31035388	36.87215392	Yes	03/28/2002	Active	IL56	
AAAA Self Storage	6562	TIDEWATER DRIVE	4.89	3.415	01-0166.1	Private	Detention Basin	4.502	-76.2544848	36.89908205	No	04/09/2002	Active	IL56	
Iron Mountain Management Inc.	4555	Progress Road	5.45	0	01-0003.1	Private	Detention Basin	5.45	-76.23223722	36.86376805	No	04/22/2002	Active	IL54	
Fuel Express at Farm Fresh	1201	N MILITARY HIGHWAY	1.44	1.31	02-0001.1	Private	Bioretention Basins	1.437	-76.20957524	36.86366719	No	04/26/2002	Active	IL54	
Woodard Office Building	2511	WALMER AVENUE	1.01	0.707	01-0192.1	Private	General Infiltration Practices	0.503	-76.2246117	36.8767177	Yes	05/15/2002	Active	CB26	
Woodard Office Building	2511	WALMER AVENUE	1.01	0.707	01-0192.2	Private	General Infiltration Practices	0.503	-76.22424692	36.87606973	Yes	05/15/2002	Active	CB26	
Mariner's Watch Apartments -Phase 1	740	Mariners Way	7.22	3.32	T627.2	Private	General Infiltration Practices	0.417	-76.24720515	36.93904166	Yes	06/05/2002	Active	CB26	
ABC Supply Company	3373	Progress Road	2.5	1.74	02-0103.1	Private	Detention Basin	2.503	-76.24286413	36.86013969	Yes	06/11/2002	Active	IL54	
Mariner's Watch Apartments -Phase 1	740	Mariners Way	7.22	3.32	T627.3	Private	General Infiltration Practices	1.88	-76.250936	36.938789	Yes	06/25/2002	Active	CB26	
Tabernacle Church	7000	Granby Street	10.99	7.47	T537.1	Private	Extended Detention Basin	7.14	-76.27339706	36.90363563	Yes	08/27/2002	Active	IL56	
First Baptist Church of Lamberts Point	1268	38th Street	0.94	0.59	T698.1	Private	General Infiltration Practices	0.59	-76.30536228	36.88034578	No	09/18/2002	Active	IL56	
Infinitee Day School	722	Miller Street	0.34	0.15	00-4467.1	Private	General Infiltration Practices	0.34	-76.25442713	36.91157105	Yes	09/19/2002	Active	IL56	
Norfolk Christian School	255	Thole Street	9.5	3.24	05-0153.1	Private	Detention Basin	9.5	-76.27054914	36.90459547	No	10/21/2002	Active	IL56	
Bayview Estates Subdivision	9511	Jenny Court	4.01	0	00-4449.1	Private	Detention Basin	2.52	-76.23591185	36.94080916	No	11/27/2002	Active	CB26	
Shell	6100	Tidewater Drive	0.94	0.71	00-4243.1	Private	Detention Basin	0.94	-76.25709325	36.89177601	Yes	12/18/2002	Active	IL56	
Woodfin Oil	5139	E Virginia Beach Boulevard	0.9	0.62	00-4244.1	Private	Manufactured BMP Systems	1.65	-76.22565508	36.85615388	No	01/01/2003	Active	IL54	
Central Business Park	910	Denison Avenue	31	23	99-3931.1	Public	Retention Basin	0.8	-76.25071764	36.9086136	No	01/01/2003	Active	IL56	
Lake Wright Resort	6280	NORTHAMPTON BOULEVARD	13.5	3.72	T555.1	Private	Manufactured BMP Systems	0	-76.2030552	36.87782822	No	01/01/2003	Active	CB26	
Central Business Park	910	Denison Avenue	31	23	99-3931.2	Public	Retention Basin	5	-76.25058621	36.90823399	No	01/01/2003	Active	IL56	
Central Business Park	910	Denison Avenue	31	23	99-3931.3	Public	Grassed Swale	18	-76.24775648	36.90835623	No	01/01/2003	Active	IL56	
Affordable Towing and Recovery	2424	CROMWELL ROAD	0.84	0.67	02-0117.1	Private	Detention Basin	0.8	-76.2489903	36.86489895	Yes	03/25/2003	Active	IL56	
Apartments	200	Maple Avenue	0.327	0.226	01-0223.1	Private	General Infiltration Practices	0.54	-76.2599954	36.94985106	Yes	04/22/2003	Active	IL57	
Village Point Senior Housing	1220	38th Street	0.72	0.58	00-4332.1	Private	General Infiltration Practices	0.144	-76.303782	36.879969	Yes	08/28/2003	Active	IL56	
Village Point Senior Housing	1220	38th Street	0.72	0.58	00-4332.2	Private	General Infiltration Practices	0.144	-76.303451	36.879988	Yes	08/28/2003	Active	IL56	
Village Point Senior Housing	1220	38th Street	0.72	0.58	00-4322.3	Private	General Infiltration Practices	0.144	-76.30357593	36.87978634	Yes	08/28/2003	Active	IL56	
Village Point Senior Housing	1220	38th Street	0.72	0.58	00-4332.4	Private	General Infiltration Practices	0.144	-76.30383735	36.87986358	Yes	08/28/2003	Active	IL56	
Village Point Senior Housing	1220	38th Street	0.72	0.58	00-4332.5	Private	General Infiltration Practices	0.144	-76.30301133	36.88006043	Yes	08/28/2003	Active	IL56	
Vanguard Warehouse	1172	AZALEA GARDEN ROAD	5.47	2.42	03-0028.1	Private	Detention Basin	0.937	-76.23188317	36.86121863	Yes	09/02/2003	Active	IL54	
Wash Land	6049	E Virginia Beach Boulevard	0.74	0.59	02-0305.1	Private	Extended Detention Basin	0.74	-76.19752139	36.85506577	Yes	10/08/2003	Active	IL54	
Green Gifford / Wells Fargo Bank commercial center	1200	N Military Highway	6.88	4.86	03-0015.1	Private	Retention Basin	6.88	-76.21061325	36.86781948	Yes	10/13/2003	Active	IL54	
Arby's Restaurant	460	N MILITARY HIGHWAY	0.77	0.64	03-0041.1	Private	Bioretention Basins	0.77	-76.20928288	36.84802811	Yes	10/13/2003	Active	IL54	
Rally's	2300	Azalea Garden Road	0.36	0.28	03-0047.1	Private	General Infiltration Practices	0.3628	-76.23201191	36.87063475	Yes	11/17/2003	Active	IL54	
Walgreens	8609	TIDEWATER DRIVE	1.75	1.51	01-0224.1	Private	Manufactured BMP Systems	1.75	-76.253951	36.930393	Yes	11/21/2003	Active	IL57	
Office Warehouse Complex	5724	Selliger Drive	0.35	0.3311	02-0170.1	Private	Bioretention Basins	0.356	-76.20886981	36.83881958	Yes	12/03/2003	Active	IL54	
Verizon Virginia, Inc.	856	W 40TH STREET	0.115	0.022	02-0283.1	Private	General Infiltration Practices	0.115	-76.29736132	36.88162721	Yes	01/01/2004	Active	IL56	
RSG Roofing Supply	1140	AZALEA GARDEN ROAD	6.27	3.31	03-0033.1	Private	Extended Detention Basin	2.44	-76.23090416	36.85883438	Yes	01/01/2004	Active	IL54	
Norfolk Collegiate Middle School	122	Granby Park	0.79	0.62	03-0042.1	Private	General Infiltration Practices	0.34	-76.27277613	36.91040653	Yes	01/01/2004	Active	IL56	
Willard Elementary School Parking Lot	1511	Willow Wood Drive	5.5	0.455	NPS13.1	School	General Infiltration Practices	0.627	-76.26650302	36.88815544	No	01/01/2004	Active	IL56	
Virginia Paving Co.	3419	Trant Avenue	18.55	18.55	99-4218.1	Private	Retention Basin	6.9	-76.24230623	36.84927729	No	01/01/2004	Active	IL54	
Norfolk Collegiate Middle School	122	Granby Park	0.79	0.62	03-0042.2	Private	General Infiltration Practices	1.68	-76.27184272	36.91113977	Yes	01/01/2004	Active	IL56	
Virginia Paving Co.	3419	Trant Avenue	18.55	18.55	99-4218.2	Public	Detention Basin	2.38	-76.24433659	36.85053693	N/A	01/01/2004	Active	IL54	
Riverpark Condominiums	239	DUKE STREET	1.32	1.12	02-0075.1	Private	General Infiltration Practices	1.32	-76.29388511	36.84950051	Yes	01/20/2004	Active	IL54	
Duplex 9610-9614	9610	16TH BAY STREET	0.3	0.084	03-0105.1	Private	Grassed Swale	0.3	-76.19881987	36.93008828	Yes	01/20/2004	Active	CB26	
Duplex	3634	E OCEAN VIEW AVENUE	0.36	0.22	03-0006.1	Private	General Infiltration Practices	0.36	-76.19761725	36.93151791	No	02/03/2004	Active	CB26	
Riverside Corporate Center Parcel	170	Corporate Boulevard	5.53	3.28	03-160.1	Private	Retention Basin	2.02	-76.21315514	36.83801158	Yes	02/18/2004	Active	IL54	
Duplex	479	W OCEAN VIEW AVENUE	0.58	0.17	01-0173.1	Private	General Infiltration Practices	0.042	-76.26332	36.960605	Yes	03/19/2004	Active	CB26	
Duplex	479	W OCEAN VIEW AVENUE	0.58	0.17	01-0173.2	Private	General Infiltration Practices	0.051	-76.263231	36.960519	Yes	03/19/2004	Active	CB26	
Duplex	9557	12th Bay Street	0.17	0.07	03-0309.1	Private	General Infiltration Practices	0.17	-76.204322	36.930469	No	04/21/2004	Active	CB26	
Duplex	605	Banker Road	0.165	0.078	03-0096.1	Private	General Infiltration Practices	0.165	-76.25485361	36.9179531	Yes	04/28/2004	Active	CB26	
Spring Hill Suites Marriott	6350	N Newtown Road	5.32	5	01-0188.1	Private	Extended Detention Basin	5.32	-76.187536	36.844899	Yes	05/05/2004	Active	IL54	
Liberty Tax Service	7931	Shore Drive	0.24	0.13	T699.1	Private	Grassed Swale	0.19	-76.19313732	36.91927191	Yes	05/13/2004	Active	CB26	
Calvary Presbyterian	150	Kempville Road	5.37	0.577	03-317.1	Private	Grassed Swale	0.115	-76.188032	36.84337	Yes	06/09/2004	Active	IL54	
Harbor Walk	8261	NORTH VIEW BOULEVARD	17.98	12.99	02-0275.1	Private	General Infiltration Practices	7.58	-76.19407475	36.92385002	Yes	06/15/2004	Active	CB26	
Mt. Gilead Church Addition	1057	Kennedy Street	1.23	1	00-4540.1	Private	General Infiltration Practices	1.23	-76.24308407	36.90529356	Yes	06/18/2004	Active	IL54	
ODU University Village	1054	47TH STREET	69.03	58.68	S39.1	Public	Retention Basin	69.03	-76.30084276	36.88638719	N/A	08/20/2004	Active	IL56	
Apartment / Garage	200	Maple Avenue	0.54	0.38	03-0273.1	Private	General Infiltration Practices	0.54	-76.260082	36.950125	Yes	08/25/2004	Active	IL57	
Subaru Showroom & Service Center	6611	E VIRGINIA BEACH BOULEVARD	1.46	1.15	03-149.1	Private	Manufactured BMP Systems	1.46	-76.18104458	36.85358704	Yes	09/08/2004	Active	IL54	
Duplex	2510	E OCEAN VIEW AVENUE	0.14	0.082	03-0211.1	Private	General Infiltration Practices	0.114	-76.21081651	36.93471514	No	09/13/2004	Active	CB26	
St. Mary's Home for Disabled Children	6171	Kempville Circle	8.19	4.71	01-0203.1	Private	Retention Basin	1.86	-76.19514227	36.8500929	Yes	09/22/2004	Active	IL54	
Townhouses	9700	12TH VIEW STREET	0.24	0.13	03-0193.1	Private	General Infiltration Practices	0.118	-76.28437936	36.9674066	No	10/13/2004	Active	IL57	
Townhouses	9700	12TH VIEW STREET	0.24	0.13	03-0193.2	Private	General Infiltration Practices	0.118	-76.284086	36.967436	No	10/13/2004	Active	IL57	
Westover Commons	1225	WESTOVER AVENUE	1.08	0.68	03-110.1	Private	General Infiltration Practices	0.76	-76.3070628	36.86708345	Yes	11/16/2004	Active	IL56	
Ghent Arms	802	MANTED STREET	0.55	0.48	02-0169.1	Private	General Infiltration Practices	0.27	-76.29842341	36.86215423	Yes	12/06/2004	Active	IL56	
Vining's Landing Marine Center	8166	Shore Drive	7.42	2.39	04-0026.1	Private	Manufactured BMP Systems	3.76	-76.191504	36.924149	No	12/21/2004	Active	CB26	
Checker Tax Parking Lot	6257	Sewell Point Road	0.81	0.66	00-4278.1	Private	Manufactured BMP Systems	0.86	-76.23884933	36.89348896	Yes	01/01/2005	Active	CB26	
Bay Oaks Place Extension	3900	KEGAGIE DRIVE	5.51	0.72	01-0026.1	Public	General Infiltration Practices	1.51	-76.1947297	36.93124947	No	01/01/2005	Active	CB26	
Pops Bottling Group	1194	PINERIDGE ROAD	3.01	1.93	02-0087.1	Public	General Infiltration Practices	1.17	-76.2268432	36.86327977	No	01/01/2005	Active	IL54	
Duplex	2804	E OCEAN VIEW AVENUE	0.63	0.46	02-0310.1	Private	Retention Basin	0.63	-76.20726763	36.93379508	No	01/01/2005	Active	CB26	
Ruggoso Dunes	4015	RUGGOSA ROSE COURT	1.26	0.39	02-0138.1	Private	General Infiltration Practices	1.16	-76.19347	36.930927	Yes	01/01/2005	Active	CB26	
Duplex	642	W OCEAN VIEW AVENUE	0.23	0.09	02-0139.1	Private	General Infiltration Practices	0.077	-76.19347	36.96381	No	01/01/2005	Active	CB26	
Grandy Village Roadway	642	Kemball Loop	0.23	0.09	04-0119.1	Public	Grassed Swale	0.077	-76.2527723	36.84104688	Yes	01/01/2005	Active	IL54	
Duplex	642	W OCEAN VIEW AVENUE	0.23	0.09	02-0120.1	Private	General Infiltration Practices	0.077	-76.257151	36.96376	No	01/01/2005	Active	CB26	
Duplex	642	W OCEAN VIEW AVENUE	0.23	0.09	02-0121.1	Private	General Infiltration Practices	0.077	-76.26105	36.964074	No	01/01/2005	Active	CB26	
Duplex	642	W OCEAN VIEW AVENUE	0.23	0.09	02-0122.1	Private	General Infiltration Practices	0.077	-76.26105	36.931147	No	01/01/2005	Active	CB26	
Duplex	642	16th Bay Street	0.17	0.05	04-0025.1	Private	General Infiltration Practices	0.077	-76.19861	36.928487	No	01/06/2005	Active	CB26	
Duplex	642	14TH BAY STREET	0.21	0.08	02-0088.1	Private	General Infiltration Practices	0.21	-76.20178901	36.928487	No	01/18/2005			

ALL ACTIVE SWMF'S - CITY OF NORFOLK																
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC		
Pretty Lake Townhouses	2603	PRETTY LAKE AVENUE	0.54	0.22	03-0303.1	Private	Extended Detention Basin	0.54	-76.21093625	36.93126162	No	03/04/2005	Active	CB26		
Faith Deliverance Christian Center	1010	E 26TH STREET	2.49	1.49	02-0244.1	Private	Detention Basin	0.78	-76.27400723	36.87301454	Yes	03/24/2005	Active	IL56		
Norfolk Academy	1585	Wesleyan Drive	65	1.56	1748.1	Private	Retention Basin	1.643	-76.19484186	36.87219254	No	04/01/2005	Active	IL54		
Duplex	1538	LEA VIEW AVENUE	0.22	0.11	03-0272.1	Private	General Infiltration Practices	0.061	-76.295639	36.968447	No	04/08/2005	Active	IL57		
Duplex	1538	LEA VIEW AVENUE	0.22	0.11	03-0272.2	Private	General Infiltration Practices	0.061	-76.295397	36.968499	No	04/08/2005	Active	IL57		
Duplex	980	W Ocean View Avenue	0.14	0.09	03-0315.1	Private	General Infiltration Practices	0.025	-76.27730638	36.96720451	Yes	04/22/2005	Active	CB26		
Duplex	980	W Ocean View Avenue	0.14	0.09	03-0315.2	Private	General Infiltration Practices	0.076	-76.27736405	36.96705911	Yes	04/22/2005	Active	CB26		
Duplex	980	W Ocean View Avenue	0.14	0.09	03-0315.3	Private	General Infiltration Practices	0.043	-76.27743135	36.96690549	Yes	04/22/2005	Active	CB26		
Sherwood Forest Elementary	3035	Sherwood Forest Lane	0	0	NPS10.1	School	General Infiltration Practices	0.219	-76.23873353	36.87609762	Yes	04/28/2005	Active	IL54		
Public Storage	854	WIDGEOEN ROAD	3.774	3.013	04-0030.1	Private	Extended Detention Basin	1.887	-76.25500381	36.90314876	Yes	05/10/2005	Active	IL56		
Public Storage	854	WIDGEOEN ROAD	3.774	3.013	04-0030.2	Private	Extended Detention Basin	1.887	-76.25428498	36.90357987	Yes	05/10/2005	Active	IL56		
AllSafe Self Storage	3701	E PRINCESS ANNE ROAD	4.58	3.562	03-101.1	Private	Extended Detention Basin	2.29	-76.23953191	36.86488393	Yes	05/24/2005	Active	IL54		
AllSafe Self Storage	3701	E PRINCESS ANNE ROAD	4.58	3.562	03-101.2	Private	Extended Detention Basin	2.29	-76.23808712	36.86389823	Yes	05/24/2005	Active	IL54		
Warehouse / Office Building	2635	Nevada Avenue	0.223	0.16725	04-0152.1	Private	General Infiltration Practices	0.223	-76.24681905	36.87130314	Yes	05/30/2005	Active	IL56		
River Oaks Office Addition	5353	E Princess Anne Road	0.75	0.5	03-163.1	Private	Grassed Swale	0.753	-76.21844818	36.8727476	Yes	05/31/2005	Active	IL54		
8th Bay Street	9569	8TH BAY STREET	0.34	0	03-147.1	Private	Extended Detention Basin	0.224	-76.20869147	36.931665	No	06/02/2005	Active	CB26		
Titustown Recreation Center	7545	Diven Street	5.36	0	537.1	Public	Extended Detention Basin	15.11	-76.29521012	36.91463562	N/A	06/13/2005	Active	IL56		
Duplex - 3 Story	238	W OCEAN AVENUE	0	0	01-0078.1	Private	General Infiltration Practices	0.037	-76.25442151	36.95727296	No	06/13/2005	Active	CB26		
Piedmont Hawthorne Aviation Hanger	6101	Burton Station Road	0	0	01-0111.1	Private	General Infiltration Practices	2.19	-76.20171203	36.88398718	No	06/13/2005	Active	CB26		
Duplex	1271	W Ocean View Avenue	0	0	01-0165.1	Private	General Infiltration Practices	0	-76.28709376	36.9690728	Yes	06/13/2005	Active	CB26		
EVMS Parking Lot	801	FAIRFAX AVENUE	3.77	2.01	01-0176.1	Private	General Infiltration Practices	0.466	-76.20288124	36.86008553	Yes	06/13/2005	Active	IL56		
University Pizza Parking	5008	COLLEY AVENUE	0.29	0	02-0265.1	Private	Grassed Swale	0.145	-76.29464019	36.88920318	Yes	06/13/2005	Active	IL56		
Duplex Complex William Henry Taylors Tract	8127	REDMON COURT	1.39	0.62	03-0026.1	Private	General Infiltration Practices	0.075	-76.19977	36.922757	Yes	06/13/2005	Active	CB26		
Children's Harbor	1900	Llewellyn Avenue	0	0	99-4004.1	Private	Manufactured BMP Systems	0	-76.2883383	36.86685385	Yes	06/13/2005	Active	IL56		
Lowe's	1081	N Military Highway	17.65	12.22	99-4237.1	Private	Retention Basin	12.469	-76.21217966	36.85923569	Yes	06/13/2005	Active	IL54		
East Beach Marine	4521	Pretty Lake Avenue	1.62	1.28	17543.1	Private	General Infiltration Practices	0.803	-76.18830532	36.92519017	No	06/13/2005	Active	CB26		
Duplex	1271	W Ocean View Avenue	0	0	01-0165.2	Private	General Infiltration Practices	0	-76.28727078	36.96692656	Yes	06/13/2005	Active	CB26		
East Beach Marine	4521	Pretty Lake Avenue	1.62	1.28	17543.2	Private	General Infiltration Practices	0.34	-76.18865669	36.92526843	No	06/13/2005	Active	CB26		
Piedmont Hawthorne Aviation Hanger	6101	Burton Station Road	0	0	01-0111.3	Private	Manufactured BMP Systems	1.029	-76.20082154	36.88618529	No	06/13/2005	Active	CB26		
Claremont Commons	1201	Redgate Avenue	0.34	0.23	04-0045.1	Private	General Infiltration Practices	0.22	-76.30728841	36.86651738	No	07/22/2005	Active	IL56		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.1	Private	Manufactured BMP Systems	0.22	-76.21340275	36.86082985	Yes	07/22/2005	Active	IL54		
Claremont Commons	1201	Redgate Avenue	0.34	0.23	04-0045.2	Private	Manufactured BMP Systems	0.22	-76.3073099	36.86639439	No	07/22/2005	Active	IL56		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.2	Private	Manufactured BMP Systems	0.24	-76.21323913	36.86162457	Yes	07/22/2005	Active	IL54		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.3	Private	Manufactured BMP Systems	0.081	-76.2136361	36.86156387	Yes	07/22/2005	Active	IL54		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.4	Private	Manufactured BMP Systems	1.64	-76.21367365	36.86137462	Yes	07/22/2005	Active	IL54		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.5	Private	Detention Basin	0.214	-76.21367365	36.86137462	Yes	07/22/2005	Active	IL54		
Savannah Suites	5649	LOWERY ROAD	2.06	1.46	04-0111.6	Private	Manufactured BMP Systems	2.06	-76.2134838	36.8615017	Yes	07/22/2005	Active	IL54		
Duplex	3206	PRETTY LAKE AVENUE	0.17	0.09	03-0308.1	Private	Detention Basin	0.172	-76.20416522	36.92933381	No	07/29/2005	Active	CB26		
Duplex	3206	PRETTY LAKE AVENUE	0.17	0.09	03-0308.2	Private	Detention Basin	0.172	-76.2040177	36.92931146	No	07/29/2005	Active	CB26		
Ghent Elementary School Bus Loop	200	Shirley Avenue	0.92	0.44	NPS16.1	School	General Infiltration Practices	0.922	-76.288113	36.8646908	Yes	08/01/2005	Active	IL56		
Walmart @ Military Hwy	1170	N MILITARY HIGHWAY	0	0	02-0174.1	Private	Manufactured BMP Systems	6.91	-76.20613933	36.86230021	Yes	08/03/2005	Active	IL54		
Tabbas Auto Parts	2215	E INDIAN RIVER ROAD	7.04	0.67	03-0081.1	Private	Manufactured BMP Systems	0.84	-76.25467264	36.83025574	No	08/03/2005	Active	IL53		
Walmart @ Military Hwy	1170	N MILITARY HIGHWAY	0	0	02-0174.2	Private	Manufactured BMP Systems	6.41	-76.20800614	36.86193311	Yes	08/03/2005	Active	IL54		
Picadilly Mews	6370	TRAFALGAR COURT	2	1.33	02-0193.1	Private	Detention Basin	1.9	-76.23318136	36.89696066	Yes	08/10/2005	Active	CB26		
Picadilly Mews	6370	TRAFALGAR COURT	2	1.33	02-0193.2	Private	Grassed Swale	1.34	-76.23259664	36.89697997	Yes	08/10/2005	Active	CB26		
Miller Gas Station	4900	HAMPTON BOULEVARD	1.26	1.02	04-0067.1	Private	Manufactured BMP Systems	0.146	-76.30186121	36.88836854	Yes	08/23/2005	Active	IL56		
Duplex	9524	14TH BAY STREET	0.22	0.08	03-0290.1	Private	General Infiltration Practices	0.22	-76.20179395	36.92833568	No	09/07/2005	Active	CB26		
Gethsemane Community Fellowship Church	1317	E BRAMBLETON AVENUE	0.81	0.56	S-03-0065.1	Private	General Infiltration Practices	0.5	-76.27273053	36.84693559	Yes	09/15/2005	Active	IL54		
Gethsemane Community Fellowship Church	1317	E BRAMBLETON AVENUE	0.81	0.56	S-03-0065.2	Private	General Infiltration Practices	0.31	-76.27310872	36.84749795	Yes	09/15/2005	Active	IL54		
Duplex	1106	Little Bay Avenue	0.17	0.09	04-0072.1	Private	Bioretention Basins	0	-76.28181	36.966352	No	09/23/2005	Active	CB26		
Jacox Elementary School Bus Loop	1300	Marshall Avenue	1.37	0.4	NPS14.1	School	General Infiltration Practices	0.685	-76.26517475	36.85670973	Yes	10/04/2005	Active	IL56		
Jacox Elementary School Bus Loop	1300	Marshall Avenue	1.37	0.4	NPS14.2	School	General Infiltration Practices	0.685	-76.26533031	36.85643288	Yes	10/04/2005	Active	IL56		
FOR Kids Residence	840	38TH STREET	0.13	0.07	04-0120.1	Private	General Infiltration Practices	0.13	-76.29646137	36.88014714	No	10/05/2005	Active	IL56		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0023.1	Private	Manufactured BMP Systems	0.33	-76.21242883	36.86315967	Yes	10/11/2005	Active	IL54		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0023.2	Private	Manufactured BMP Systems	0.33	-76.21240201	36.863135	Yes	10/11/2005	Active	IL54		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0023.3	Private	Manufactured BMP Systems	0.33	-76.21209222	36.86281739	Yes	10/11/2005	Active	IL54		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0023.4	Private	Manufactured BMP Systems	0.33	-76.21202784	36.86274443	Yes	10/11/2005	Active	IL54		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0023.5	Private	Manufactured BMP Systems	0.33	-76.211997	36.86245005	Yes	10/11/2005	Active	IL54		
AAAA Self Storage	5680	LOWERY ROAD	2	1.385	04-0026.6	Private	Manufactured BMP Systems	0.33	-76.21206808	36.86240756	Yes	10/11/2005	Active	IL54		
Endtime United Church of Jesus Christ Apostolic	7416	EVELYN T BUTTS AVENUE	0.56	0.36	03-0312.1	Private	General Infiltration Practices	0.2815	-76.24288023	36.91039152	Yes	10/20/2005	Active	CB26		
Sherwood Forest Elementary School	3035	Sherwood Forest Lane	0.66	0.24	NPS15.1	School	Detention Basin	0.66	-76.23786449	36.87806511	Yes	10/20/2005	Active	IL56		
Endtime United Church of Jesus Christ Apostolic	7416	EVELYN T BUTTS AVENUE	0.56	0.36	03-0312.2	Private	General Infiltration Practices	0.2815	-76.24254227	36.91029286	Yes	10/20/2005	Active	IL56		
Colonas Shipyard Super Building Phase I	400	E INDIAN RIVER ROAD	1.2	1.2	04-0002.1	Private	General Infiltration Practices	1.2	-76.2744934	36.83580395	Yes	10/26/2005	Active	IL53		
Norview High School	1070	Middleton Place	30.11	14.06137	NPS11.1	School	Retention Basin	30.11	-76.2422955	36.90252246	Yes	11/01/2005	Active	CB26		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.1	Private	Retention Basin	0.001	-76.23482823	36.86361354	Yes	11/01/2005	Active	IL54		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.2	Private	Manufactured BMP Systems	0.27	-76.234541	36.864142	Yes	11/01/2005	Active	IL54		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.3	Private	Manufactured BMP Systems	0.27	-76.23417109	36.86418007	Yes	11/01/2005	Active	IL54		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.4	Private	Manufactured BMP Systems	0.28	-76.23412011	36.86425947	Yes	11/01/2005	Active	IL54		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.5	Private	Manufactured BMP Systems	0.14	-76.23367488	36.8642905	Yes	11/01/2005	Active	IL54		
Land "N" Sea	1340	AZALEA GARDEN ROAD	1.99	1.49	04-0095.6	Private	Grassed Swale	0.001	-76.23346567	36.86395762	Yes	11/01/2005	Active	IL54		
Sunset Shores	1900	ARLINGTON AVENUE	0.62	0.96	02-0009.1	Private	Massed Swale	4.62	-76.25070438	36.83640615	Yes	11/15/2005	Active	IL53		
Saint Plus Church Addition	7800	Halpin Drive	0.14	0.11	04-0120.2	Private	Manufactured BMP Systems	0.111	-76.27024062	36.91416565	Yes	12/17/2005	Active	CB26		
Condos	8550	TIDEWATER DRIVE	1.26	0.11	02-0168.1	Private	Grassed Swale	0.111	-76.27017784	36.93115381	No	11/29/2005	Active	IL57		
St. Paul's Place Condo	123	Saint Pauls Boulevard	1.21	1.74	04-0081.2	Private	General Infiltration Practices	0.43	-76.25317289	36.92512824	Yes	12/01/2005	Active	IL54		
Berkley Center	201	E BERKLEY AVENUE	6.5	5.27	02-0024.1	Private	General Infiltration Practices	6.543	-76.28115111	36.83178024	Yes	12/06/2005	Active	IL54		
Taco Bell	4009	Hampton Boulevard	0.77	0.35	02-0123.1	Private	Retention Basin	0.204	-76.30111511	36.88182027	Yes	12/17/2005	Active	IL56		
Taco Bell	4009	Hampton Boulevard	0.77	0.35	02-0123.2	Private	Manufactured BMP Systems	0.197	-76.30025	36.881827	Yes	12/17/2005	Active	IL56		
Taco Bell	4009	Hampton Boulevard	0.77	0.35	02-0123.3	Private	Manufactured BMP Systems	0.197	-76.30029	36.881827	Yes	12/17/2005	Active	IL56		
CHWD Parking Lot	5649	LOWERY ROAD	0.77	0.35	02-0123.4	Private	Manufactured BMP Systems	0.197	-76.30029	3						

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Duplex - Residential houses	4114	Pretty Lake Avenue	0.15	0.07	05-0100.1	Private	General Infiltration Practices	0.056	-76.192967	36.92633838	Yes	03/08/2006	Active	CB26	
Duplex - Residential houses	4114	Pretty Lake Avenue	0.15	0.07	05-0100.2	Private	General Infiltration Practices	0.056	-76.19297236	36.92632659	Yes	03/08/2006	Active	CB26	
Marshall Manor Senior Living Apartments	2500	E Princess Anne Road	3.65	1.79	01-0053.1	Private	Retention Basin	17.25	-76.25837803	36.85867771	Yes	03/23/2006	Active	CB26	
Nash Warehouse	1133	Kingwood Avenue	9.2	6.33	05-0165.1	Private	Manufactured BMP Systems	6.27	-76.24028653	36.85601974	No	03/29/2006	Active	IL54	
Nash Warehouse	1133	Kingwood Avenue	9.2	6.33	05-0165.2	Private	Manufactured BMP Systems	2.1	-76.23722345	36.85613456	Yes	03/29/2006	Active	IL54	
Nash Warehouse	1133	Kingwood Avenue	9.2	6.33	05-0165.3	Private	Detention Basin	5.8	-76.2391372	36.85933119	Yes	03/29/2006	Active	IL54	
Duplex	9640	13th View Street	0.058	0.07	03-0323.1	Private	General Infiltration Practices	0.058	-76.28781259	36.96630722	Yes	03/31/2006	Active	IL57	
Duplex	9640	13th View Street	0.058	0.07	03-0323.2	Private	General Infiltration Practices	0.058	-76.28791988	36.96620221	Yes	03/31/2006	Active	IL57	
Bradco Supply Corporation Parking Lot Addition	3747	Village Avenue	3.69	3.12	04-0127.1	Private	Extended Detention Basin	1.45	-76.23753673	36.86016493	Yes	04/17/2006	Active	IL54	
Baywalk Townhouses	9637	Capeview Avenue	0.48	0.293	04-0133.1	Private	General Infiltration Practices	0.24	-76.22280121	36.9376749	Yes	04/19/2006	Active	CB26	
Baywalk Townhouses	9637	Capeview Avenue	0.48	0.293	04-0133.2	Private	General Infiltration Practices	0.24	-76.2236715	36.93781425	Yes	04/19/2006	Active	CB26	
Parking Lot Addition	8111	SHORE DRIVE	0.37	0.22	04-0115.1	Private	Grassed Swale	0.35	-76.19284515	36.92146223	Yes	04/20/2006	Active	CB26	
Parking Lot Addition	8111	SHORE DRIVE	0.37	0.22	04-0115.2	Private	Manufactured BMP Systems	0.175	-76.19288653	36.92160543	Yes	04/20/2006	Active	CB26	
Parking Lot Addition	8111	SHORE DRIVE	0.37	0.22	04-0115.3	Private	Manufactured BMP Systems	0.175	-76.19282216	36.92164651	Yes	04/20/2006	Active	CB26	
Christ the King Catholic School	3401	Tidewater Drive	0.82	0.5	03-0034.1	Private	General Infiltration Practices	0.09	-76.26234904	36.88138633	Yes	04/21/2006	Active	IL56	
Christ the King Catholic School	3401	Tidewater Drive	0.82	0.5	03-0034.2	Private	General Infiltration Practices	0.2	-76.2626937	36.88186476	Yes	04/26/2006	Active	IL56	
Palace Station, LLC	404	W 22ND STREET	2.76	2.5	06-0019.1	Private	Manufactured BMP Systems	1.85	-76.29008519	36.8696288	Yes	05/15/2006	Active	IL56	
Wash Land	6600	N MILITARY HIGHWAY	0.64	0.42	06-0020.1	Private	Extended Detention Basin	0.64	-76.22810394	36.90127415	Yes	05/24/2006	Active	CB26	
Church Street Executive Office Park	1751	CHURCH STREET	5.14	3.93	04-0112.1	Private	Retention Basin	4.42	-76.2791373	36.86287384	No	06/20/2006	Active	IL56	
Conley Warehouse and Office	3404	WESTMINSTER AVENUE	0.224	0.137	02-0121.1	Private	Detention Basin	0.101	-76.24497771	36.84384684	Yes	06/22/2006	Active	IL54	
Boush Street Garage	326	Boush Street	1.45	1.42	540.1	Public	Manufactured BMP Systems	1.291	-76.29115999	36.851224	Yes	07/19/2006	Active	IL56	
Bauer Compressors - Building Expansion	1328	AZALEA GARDEN ROAD	5.01	3.62	05-0128.1	Private	Retention Basin	5.01	-76.23205215	36.86271224	Yes	07/31/2006	Active	IL54	
Townhomes	1407	Colonial Avenue	0.17	0.14	04-0132.1	Private	General Infiltration Practices	0.063	-76.29359007	36.86531311	Yes	08/02/2006	Active	IL56	
Townhomes	1407	Colonial Avenue	0.17	0.14	04-0132.2	Private	General Infiltration Practices	0.36	-76.29378319	36.86535817	Yes	08/02/2006	Active	IL56	
Townhouses	873	W 42nd Street	0.46	0.31	06-0003.1	Private	Extended Detention Basin	0.4403	-76.305019	36.912069	Yes	08/08/2006	Active	IL56	
New Life Worship Center	925	Briar Hill Road	2.77	0.97	04-0058.1	Private	General Infiltration Practices	1.86	-76.2155056	36.85497348	Yes	08/16/2006	Active	IL54	
New Life Worship Center	925	Briar Hill Road	2.77	0.97	04-0058.2	Private	General Infiltration Practices	0.69	-76.21567001	36.85502054	Yes	08/16/2006	Active	IL54	
Bolling Square Apartments Phase I	919	BOLLING AVENUE	7.22	4.94	03-0280.1	Private	Bioretention Basins	0.547	-76.29708036	36.89187365	Yes	08/28/2006	Active	IL56	
Laundromat, Shops, Offices	6138	Chesapeake Boulevard	0.8	0.55	05-0009.1	Private	General Infiltration Practices	0.8	-76.23700887	36.89142198	Yes	08/28/2006	Active	IL56	
Bolling Square Apartments Phase I	919	BOLLING AVENUE	7.22	4.94	03-0280.2	Private	Bioretention Basins	0.376	-76.29616189	36.892269	Yes	08/28/2006	Active	IL56	
Bolling Square Apartments Phase I	919	BOLLING AVENUE	7.22	4.94	03-0280.3	Private	Grassed Swale	0.53	-76.29647396	36.89181208	Yes	08/28/2006	Active	IL56	
Campestella Heights Seventh Day Adventist Church	1006	Oakwood Street	1.004	0.693	05-0110.1	Private	General Infiltration Practices	1.004	-76.25935167	36.83184053	Yes	09/05/2006	Active	IL53	
Waterford at Lake Taylor	1309	Kempsville Road	3.51	2.09	03-0313.1	Private	Detention Basin	3.51	-76.20564848	36.86864261	Yes	09/15/2006	Active	IL54	
Third Police Precinct Parking Lot Addition	1013	Goff Street	1.3	0.77	543.1	Public	Extended Detention Basin	1.3	-76.27147031	36.85787472	Yes	09/30/2006	Active	IL56	
Duplex	9509	14th Bay Street	0.172	0.095	04-0148.1	Private	General Infiltration Practices	0.172	-76.20248348	36.92805478	Yes	10/03/2006	Active	CB26	
Janaf Shopping Center	1140	N Military Highway	4.34	3.77	05-0181.1	Private	General Infiltration Practices	3.472	-76.20877249	36.86027527	Yes	10/24/2006	Active	IL54	
Janaf Shopping Center	1140	N Military Highway	4.34	3.77	05-0181.2	Private	General Infiltration Practices	0.3472	-76.20856328	36.86022216	Yes	10/24/2006	Active	IL54	
Duplex	3023	Pleasant Avenue	0.16	0.08	05-0124.1	Private	General Infiltration Practices	0.172	-76.20567891	36.93144724	Yes	10/31/2006	Active	CB26	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.1	Private	Detention Basin	0.49	-76.21030233	36.87292656	Yes	11/07/2006	Active	IL54	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.2	Private	Detention Basin	0.49	-76.21030233	36.87292657	Yes	11/07/2006	Active	IL54	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.5	Private	Grassed Swale	0.27	-76.21027844	36.87263425	Yes	11/07/2006	Active	IL54	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.6	Private	Grassed Swale	0.27	-76.21021738	36.87270306	Yes	11/07/2006	Active	IL54	
WaWa Food Market	975	E Little Creek Road	2.885	1.875	05-0040.1	Private	Retention Basin	2.885	-76.24275684	36.914442975	Yes	11/08/2006	Active	IL56	
Ruby Tuesday	4213	E Little Creek Road	0.79	0.75	05-0093.1	Private	Manufactured BMP Systems	0.79	-76.19414181	36.917417	Yes	11/14/2006	Active	CB26	
Duplex	848	38th Street	0.12	0.07	04-0125.1	Private	General Infiltration Practices	0.127	-76.29689455	36.88003468	Yes	11/16/2006	Active	IL56	
Gypsum Plant Expansion	1424	SOUTH MAIN STREET	32.9	17.44	05-0075.1	Private	Extended Detention Basin	32.9	-76.28675415	36.82267167	Yes	11/17/2006	Active	IL53	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.1	Private	Grassed Swale	0.673	-76.199212	36.917188	Yes	11/30/2006	Active	CB26	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.2	Private	Grassed Swale	0.404	-76.2000376	36.91730088	Yes	11/30/2006	Active	CB26	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.3	Private	Manufactured BMP Systems	0.673	-76.199446	36.917189	Yes	11/30/2006	Active	CB26	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.4	Private	Manufactured BMP Systems	0.673	-76.199128	36.917472	Yes	11/30/2006	Active	CB26	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.5	Private	Grassed Swale	0.675	-76.19918113	36.91702369	Yes	11/30/2006	Active	CB26	
Parktowne Apartments	7850	FLOWERFIELD ROAD	2.04	1.75	05-0188.6	Private	Manufactured BMP Systems	0.675	-76.199294	36.916987	Yes	11/30/2006	Active	CB26	
Gifford Office	1547	E LITTLE CREEK ROAD	1.55	1.2	05-0023.1	Private	Manufactured BMP Systems	0.735	-76.23199024	36.9163338	Yes	12/01/2006	Active	CB26	
Gifford Office	1547	E LITTLE CREEK ROAD	1.55	1.2	05-0023.2	Private	General Infiltration Practices	0.735	-76.23175979	36.91632547	Yes	12/01/2006	Active	CB26	
EG Middleton Office Addition	2510	CROMWELL ROAD	0.76	0.51	06-0023.1	Private	General Infiltration Practices	0.76	-76.24904829	36.86698553	Yes	12/07/2006	Active	IL54	
Trader Square	150	Granby Street	0.72	0.72	04-0136.1	Private	Manufactured BMP Systems	0.36	-76.29166156	36.84737829	Yes	12/12/2006	Active	IL56	
Trader Square	150	Granby Street	0.72	0.72	04-0136.2	Private	Manufactured BMP Systems	0.36	-76.29098836	36.8477342	Yes	12/12/2006	Active	IL56	
Wawa Food Market	8105	Hampton Boulevard	1.5	1.26	05-0046.1	Private	Manufactured BMP Systems	0.2067	-76.31779434	36.92658813	Yes	12/15/2006	Active	IL57	
Wawa Food Market	8105	Hampton Boulevard	1.5	1.26	05-0046.2	Private	Manufactured BMP Systems	0.2067	-76.31838441	36.92661498	Yes	12/15/2006	Active	IL57	
Wawa Food Market	8105	Hampton Boulevard	1.5	1.26	05-0046.3	Private	Manufactured BMP Systems	0.2067	-76.31784931	36.9274302	Yes	12/15/2006	Active	IL57	
Commerce Bank	245	E LITTLE CREEK ROAD	0.51	0.45	06-0146.1	Private	Manufactured BMP Systems	0.51	-76.268196	36.916032	Yes	12/19/2006	Active	IL56	
Water's Edge	390	S MILITARY HIGHWAY	7.08	0.28	05-0113.1	Private	Bioretention Basins	2.36	-76.20902232	36.8337779	Yes	01/01/2007	Active	IL54	
AAA Parking Lot Expansion	5732	E Virginia Beach Boulevard	1.15	1.03	05-0157.1	Private	Manufactured BMP Systems	0.46	-76.2083602	36.85665379	Yes	01/01/2007	Active	IL54	
Norfolk Apostolic Church Parking Lot	3131	Azalea Garden Road	1.99	1.5	06-0026.1	Private	Bioretention Basins	1.99	-76.22599441	36.88230337	Yes	01/01/2007	Active	CB26	
Commander Corporate Center	6160	COMMANDER PARKWAY	10.72	6.05	06-0040.1	Private	Retention Basin	10.72	-76.202268	36.882424	Yes	01/01/2007	Active	CB26	
Police Training Center Track	2500	N MILITARY HIGHWAY	1.91	0.57	546.1	Public	Grassed Swale	0.134	-76.21017026	36.86983648	No	01/01/2007	Active	CB26	
Street Improvements - Ernie Way	951	ERNIE WAY	0.69	0.41	547.1	Public	Bioretention Basins	0.155	-76.18259184	36.85368778	No	01/01/2007	Active	IL54	
VIT Office Building	1431	TERMINAL BOULEVARD	2.61	1.41	06-0112.1	Private	Detention Basin	2.61	-76.301012	36.918239	No	01/01/2007	Active	IL56	
The Rotunda Lot	415	Saint Pauls Boulevard	0.3	0.21	07-0021.1	Private	General Infiltration Practices	0.03	-76.2853137	36.84924989	No	01/01/2007	Active	IL56	
The Rotunda Lot's parking lot addition	2500	N MILITARY HIGHWAY	1.91	0.57	546.2	Public	General Infiltration Practices	1.384	-76.2125119	36.88053405	Yes	01/01/2007	Active	CB26	
Police Training Center Track	2500	S MILITARY HIGHWAY	7.08	0.28	05-0113.2	Private	Extended Detention Basin	1.384	-76.2091484	36.83390855	Yes	01/01/2007	Active	IL54	
Water's Edge	390	S MILITARY HIGHWAY	7.08	0.28	05-0113.3	Private	Bioretention Basins	2.36	-76.20915831	36.83390855	Yes	01/01/2007	Active	IL54	
Water's Edge	390	S MILITARY HIGHWAY	7.08	0.28	05-0113.4	Private	Bioretention Basins	2.36	-76.20915831	36.83461862	Yes	01/01/2007	Active	IL54	
Street Improvements - Ernie Way	951	ERNIE WAY	0.69	0.41	547.2	Public	Bioretention Basins	0.69	-76.18279623	36.85345457	Yes	01/01/2007	Active	IL54	
Christopher Court	289	CHRISTOPHER COURT	0.89	0.41	547.3	Public	Grassed Swale	0.28	-76.22451246	36.88783882	Yes	01/01/2007	Active	IL56	
Retail Shop	9720	Hampton Boulevard	0.48	0.41	07-0151.1	Private	Manufactured BMP Systems	0.245	-76.22481724	36.84806302	Yes	01/16/2007	Active	IL54	
The Rotunda Condominiums	415	Saint Pauls Boulevard	0.3	0.21	07-0156.1	Private	General Infiltration Practices	0.28	-76.20881424	36.84806302	Yes	01/16/2007	Active	IL56	
Police Condominiums	9547	LOTH BAY STREET	0.23	0.08	04-0124.1	Private	Manufactured BMP Systems	0.151	-76.20659262	36.93072418	Yes	01/19/2007	Active	CB26	
Duplex	9547	LOTH BAY STREET	0.23	0.08	04-0124.2	Private									

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Condo (24 units)	450	W Princess Anne Road	0.38	0.3	05-0132.1	Private	Manufactured BMP Systems	0.034	-76.29382206	36.8636999	Yes	02/14/2007	Active	IL56	
Little Creek Retail Shops	7862	TIDEWATER DRIVE	2.23	1.94	06-0062.1	Private	Manufactured BMP Systems	0.245	-76.25297606	36.91555025	Yes	02/20/2007	Active	CB26	
Little Creek Retail Shops	7862	TIDEWATER DRIVE	2.23	1.94	06-0062.2	Private	Manufactured BMP Systems	0.245	-76.25296801	36.91556955	Yes	02/20/2007	Active	CB26	
Walmart @ Tidewater	7530	TIDEWATER DRIVE	37.9	32.52	05-0074.1	Private	Retention Basin	36.6	-76.25231624	36.91074967	Yes	03/16/2007	Active	IL56	
Walmart @ Tidewater	7530	TIDEWATER DRIVE	37.9	32.52	05-0074.2	Private	Manufactured BMP Systems	5.69	-76.25249863	36.91153459	Yes	03/16/2007	Active	IL56	
Walmart @ Tidewater	7530	TIDEWATER DRIVE	37.9	32.52	05-0074.3	Private	Manufactured BMP Systems	5.69	-76.25346804	36.91176125	Yes	03/16/2007	Active	IL56	
Roosevelt Family Medicine	2203	E LITTLE CREEK ROAD	1.27	0.65	06-0101.1	Private	Detention Basin	0.391	-76.222291	36.915077	Yes	03/23/2007	Active	CB26	
Norfolk Cruise Terminal	111	Waterside Drive	1.15	0.47	05-0060.1	Public	Manufactured BMP Systems	0.575	-76.29461869	36.84699748	Yes	03/26/2007	Active	IL56	
Norfolk Cruise Terminal	111	Waterside Drive	1.15	0.47	05-0060.2	Public	Manufactured BMP Systems	0.575	-76.29574522	36.84815126	Yes	03/26/2007	Active	IL56	
Duplex Lots 59 & 60	9545	20th Bay Street	0.172	0.093	05-0049.1	Private	General Infiltration Practices	0.172	-76.19482309	36.92739653	Yes	04/09/2007	Active	CB26	
Duplex Lots 61 & 62	9543	20th Bay Street	0.172	0.094	05-0051.1	Private	General Infiltration Practices	0.172	-76.19480699	36.92726359	Yes	04/12/2007	Active	CB26	
Warehouses	5819	Hargrove Street	0.27	0.18	05-0180.1	Private	Extended Detention Basin	0.278	-76.20583836	36.84394645	No	04/13/2007	Active	IL54	
McRae Commons Condo Units	915	Colley Avenue	0.46	0.35	05-0145.1	Private	General Infiltration Practices	0.368	-76.30082741	36.86428529	Yes	04/19/2007	Active	IL56	
Medical Center	302	E LITTLE CREEK ROAD	0.91	0.68	06-0092.1	Private	Bioretention Basins	0.908	-76.26500067	36.91859256	Yes	04/25/2007	Active	CB26	
Duplex	1349	LEAD STREET	0.16	0.08	06-0073.1	Private	Extended Detention Basin	0.164	-76.26353047	36.8578929	Yes	05/04/2007	Active	IL56	
Cape Henry Subdivision	3651	Cape Henry Avenue	4	1.89	05-0008.1	Private	Detention Basin	2.906	-76.23796417	36.86808677	Yes	05/14/2007	Active	IL56	
Cape Henry Subdivision	3651	Cape Henry Avenue	4	1.89	05-0008.2	Private	Detention Basin	1.762	-76.24145775	36.86658839	Yes	05/14/2007	Active	IL56	
Cape Henry Subdivision	3651	Cape Henry Avenue	4	1.89	05-0008.3	Private	Grassed Swale	2.72	-76.2422313	36.86607283	Yes	05/14/2007	Active	IL56	
Jet Aircraft Ground Run-Up Enclosure	2200	Norview Avenue	9.3	2.14	06-0048.1	Private	General Infiltration Practices	1.68	-76.205423	36.930274	Yes	06/08/2007	Active	CB26	
Social Security Building	5850	Lake Herbert Drive	4.99	2.78	06-0016.1	Private	General Infiltration Practices	4.99	-76.20779693	36.86882372	Yes	06/18/2007	Active	IL54	
Pretty Lake Village	2201	PRETTY LAKE AVENUE	4.2	2.27	03-0292.1	Private	General Infiltration Practices	3.5	-76.21522445	36.9334559	No	06/21/2007	Active	CB26	
2542 E Ocean View Ave	2542	E Ocean View Avenue	1	0.13	03-0304.1	Private	General Infiltration Practices	0.402	-76.210014	36.93474679	No	06/25/2007	Active	CB26	
Medical Office Building	5665	Lowery Road	0.79	0.52	06-0042.1	Private	Extended Detention Basin	0.795	-76.21286117	36.86180741	Yes	06/28/2007	Active	IL54	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.3	Private	Manufactured BMP Systems	0.22	-76.21020217	36.87236354	Yes	07/01/2007	Active	IL54	
Cornick Place Condominiums	1405	Dure Road	0.98	0.62	06-0086.4	Private	Manufactured BMP Systems	0.22	-76.21003526	36.87287504	Yes	07/01/2007	Active	IL54	
Tanner's Landing	4250	Granby Street	1.54	0.91	05-0097.1	Private	Manufactured BMP Systems	0.772	-76.28049072	36.88594083	No	07/12/2007	Active	IL56	
Tanner's Landing	4250	Granby Street	1.54	0.91	05-0097.2	Private	Manufactured BMP Systems	0.772	-76.28039093	36.88594181	No	07/12/2007	Active	IL56	
Chesterfield Elementary Parking Lot	2915	Westminster Avenue	0.78	0.28	NPS18.1	School	General Infiltration Practices	0.78	-76.25199874	36.84473593	Yes	08/14/2007	Active	IL54	
Duplex	475	W Ocean View Avenue	0.21	0.1	03-139.1	Private	General Infiltration Practices	0.1035	-76.263284	36.960477	Yes	08/17/2007	Active	CB26	
Duplex	475	W Ocean View Avenue	0.21	0.1	03-139.2	Private	General Infiltration Practices	0.1035	-76.263147	36.960375	Yes	08/17/2007	Active	CB26	
Atlas Masters Company	5552	RABY ROAD	1	0.71	06-0078.1	Private	Detention Basin	0.86	-76.21772766	36.85887271	Yes	08/29/2007	Active	IL54	
Norfolk Commerce Park	5375	HENNEMAN DRIVE	1	0.72	04-0066.1	Private	General Infiltration Practices	1	-76.21877138	36.87718671	No	09/21/2007	Active	CB26	
Harbor Heights	123	College Place	1.23	0.93	05-0073.1	Private	Manufactured BMP Systems	0.51	-76.29151482	36.85004967	Yes	09/24/2007	Active	IL56	
Duplex - Willoughby	1109	LITTLE BAY AVENUE	0.13	0.08	04-0062.1	Private	General Infiltration Practices	0.076	-76.282139	36.965961	Yes	09/28/2007	Active	CB26	
Duplex	9569	7th Bay Street	0.17	0.09	05-0116.1	Private	Bioretention Basins	0.17	-76.20984355	36.93195262	No	10/02/2007	Active	CB26	
Little Creek Self Storage	1806	E Little Creek Road	1.27	1	05-0179.1	Private	Bioretention Basins	0.176	-76.22651211	36.91656764	Yes	10/08/2007	Active	IL57	
Little Creek Self Storage	1806	E Little Creek Road	1.27	1	05-0179.2	Private	Bioretention Basins	0.06	-76.22564545	36.91637165	Yes	10/08/2007	Active	CB26	
Tarrallton Elementary Parking Lot	2080	TARRALLTON DRIVE	0.52	0.38	NPS19.1	School	Grassed Swale	0.52	-76.222376	36.92595589	No	10/17/2007	Active	CB26	
Little Creek Elementary Parking Lot	7900	TARPON PLACE	0.82	0.65	NPS20.1	School	Grassed Swale	0.82	-76.20891278	36.91795076	No	10/17/2007	Active	CB26	
Northside Middle School Parking Lot	8720	Granby Street	1.89	1.01	NPS21.1	School	Bioretention Basins	1.89	-76.26208216	36.93525444	No	11/07/2007	Active	IL57	
Lowe's Garden Expansion	1081	N MILITARY HIGHWAY	1.27	1.09	06-0138.1	Private	Vegetated Filter Strip	1.27	-76.21207104	36.85713259	No	11/08/2007	Active	CB26	
Marine Hydraulics Incorporated	543	E INDIAN RIVER ROAD	5.07	4.05	06-0135.1	Private	Extended Detention Basin	6.9	-76.276423	36.833955	Yes	11/21/2007	Active	IL54	
Marine Hydraulics Incorporated	543	E INDIAN RIVER ROAD	5.07	4.05	06-0135.2	Private	Manufactured BMP Systems	1.78	-76.271811	36.832079	Yes	11/21/2007	Active	IL54	
Riverpoint Condos	6111	Granby Street	2.2	1.29	05-0176.1	Private	General Infiltration Practices	0.638	-76.28055722	36.89749906	Yes	11/26/2007	Active	IL56	
Rotunda Condominiums	415	Saint Pauls Boulevard	1.35	1.04	05-0156.2	Private	Extended Detention Basin	0.37	-76.28487616	36.84870988	Yes	12/03/2007	Active	IL54	
Rotunda Condominiums	415	Saint Pauls Boulevard	1.35	1.04	05-0156.3	Private	Manufactured BMP Systems	0.3	-76.28486611	36.84953954	Yes	12/03/2007	Active	IL56	
Saint Pauls COGIC	1615	Isaac Street	1.08	0	02-0007.1	Private	General Infiltration Practices	0.059	-76.26505673	36.82620488	Yes	12/10/2007	Active	IL54	
St. Paul's Church Parking Lot Expansion	1615	Isaac Street	0.19	0.12	07-0038.1	Private	Bioretention Basins	0.194	-76.26575981	36.82630133	No	12/10/2007	Active	IL54	
Saint Pauls COGIC	1615	Isaac Street	1.08	0	02-0007.2	Private	General Infiltration Practices	0.083	-76.2655127	36.8258356	Yes	12/10/2007	Active	IL54	
Saint Pauls COGIC	1615	Isaac Street	1.08	0	02-0007.3	Private	General Infiltration Practices	0.227	-76.26589894	36.82610183	Yes	12/10/2007	Active	IL54	
Calvary Presbyterian Church	150	KEMPSVILLE ROAD	4.74	0.64	06-0091.1	Private	Grassed Swale	0.56	-76.18800986	36.84396807	Yes	12/17/2007	Active	IL54	
Pretlow Library	111	W Ocean View Avenue	3.15	0.96	542.1	Public	General Infiltration Practices	3.15	-76.25127127	36.95299236	No	11/20/2007	Active	CB26	
Fentress Court Subdivision	9500	FENTRESS COURT	1.18	0.66	05-0175.1	Private	Grassed Swale	1.18	-76.22528965	36.93636227	No	01/01/2008	Active	CB26	
Duplex	1400	E Ocean View Avenue	0.11	0.02	06-0005.1	Private	Bioretention Basins	0.985	-76.23260546	36.94261987	Yes	01/01/2008	Active	CB26	
Dey Street and Texas Avenue Roadway Extension	4817	Texas Avenue	0.34	0.19	07-0017.1	Private	General Infiltration Practices	0.37	-76.234917	36.885599	No	01/01/2008	Active	IL56	
New Life Worship Center	925	Briar Hill Road	2.77	0.97	04-0058.3	Private	Grassed Swale	0.7	-76.21567001	36.85502054	Yes	01/01/2008	Active	IL54	
Norview Community Center	6380	SEWELLS POINT ROAD	3.62	2.21	S48.1	Public	Bioretention Basins	1.43	-76.24090846	36.89684659	No	01/19/2008	Active	IL54	
Norview Community Center	6380	SEWELLS POINT ROAD	3.62	2.21	S48.2	Public	General Infiltration Practices	0.001	-76.23943921	36.89608295	No	01/19/2008	Active	IL56	
EVMS Parking Addition	855	W BRAMBLETON AVENUE	0.31	0.16	07-0060.1	Private	Grassed Swale	0.31	-76.30610745	36.85971488	Yes	01/23/2008	Active	IL56	
Duplex	9612	Grove Avenue	0.26	0.08	05-0090.1	Private	General Infiltration Practices	0.13	-76.22569263	36.93780782	Yes	02/19/2008	Active	CB26	
Duplex	9612	Grove Avenue	0.26	0.08	05-0090.2	Private	General Infiltration Practices	0.13	-76.22606277	36.93795145	Yes	02/19/2008	Active	CB26	
New Hope United Church of Christ	145	E LIBERTY STREET	0.85	0.56	06-0096.1	Private	Detention Basin	0.85	-76.2766212	36.82518826	Yes	03/11/2008	Active	IL54	
Duplex	2617	Minnesota Avenue	0.81	0.44	06-0045.1	Private	Manufactured BMP Systems	0.15	-76.24563485	36.87119049	Yes	03/18/2008	Active	IL56	
Duplex	2617	Minnesota Avenue	0.81	0.44	06-0045.2	Private	Bioretention Basins	0.52	-76.24547929	36.8709094	Yes	03/18/2008	Active	IL56	
Duplex	2617	Minnesota Avenue	0.81	0.44	06-0045.3	Private	Manufactured BMP Systems	0.15	-76.24554098	36.8712377	Yes	03/18/2008	Active	IL56	
American Tire Distributors	9554	Progress Road	1.6	0.94	07-0039.1	Private	Detention Basin	1.6	-76.23235524	36.86655201	Yes	03/25/2008	Active	IL54	
Grantham Square	7610	WESTMERE ROAD	1.06	0.43	06-0117.1	Private	General Infiltration Practices	0.5302	-76.28170788	36.91642841	Yes	04/05/2008	Active	IL57	
Grantham Square	7610	WESTMERE ROAD	1.06	0.43	06-0117.2	Private	General Infiltration Practices	0.5302	-76.281472	36.916113	Yes	04/05/2008	Active	IL57	
Metropolitan Funeral Service	120	W BERKLEY AVENUE	0.98	0.73	06-0134.1	Private	General Infiltration Practices	0.807	-76.28377724	36.83317361	Yes	04/10/2008	Active	IL59	
Duplex	516	ASHLAWN DRIVE	0.17	0.09	06-0059.1	Private	General Infiltration Practices	0.0825	-76.25764847	36.91844203	Yes	04/11/2008	Active	IL57	
Duplex	516	ASHLAWN DRIVE	0.16	0.09	06-0070.1	Private	General Infiltration Practices	0.0825	-76.25630066	36.9180882	Yes	04/11/2008	Active	IL57	
Duplex	516	ASHLAWN DRIVE	0.17	0.09	06-0059.2	Private	General Infiltration Practices	0.0825	-76.2577021	36.91839008	Yes	04/11/2008	Active	IL57	
Duplex	544	ASHLAWN DRIVE	0.16	0.09	06-0070.2	Private	General Infiltration Practices	0.0825	-76.2577444	36.9191236	Yes	04/11/2008	Active	IL57	
Jack Rabbit Self Storage	8710	HAMPTON BOULEVARD	1.42	1.05	06-0115.1	Private	General Infiltration Practices	1.42	-76.31160378	36.93234726	Yes	04/21/2008	Active	IL57	
Jack Rabbit Self Storage	8710	HAMPTON BOULEVARD	1.42	1.05	06-0115.2	Private	Manufactured BMP Systems	1.42	-76.31160512	36.93234726	Yes	04/21/2008	Active	IL57	
Jack Rabbit Self Storage	8710	HAMPTON BOULEVARD	1.42	1.05	06-0115.3	Private	General Infiltration Practices	1.42	-76.31160512	36.93234726	Yes	04/21/2008	Active	IL57	
Duplex	9539	11th Bay Street	0.34	0.19	06-0042.1	Private	General Infiltration Practices	0.147	-76.20532076	36.93027395	Yes	05/02/2008	Active	CB26	
Duplex	9539	11th Bay Street	0.34	0.19	06-0042.2	Private	General Infiltration Practices	0.147	-76.20532076	36.93027395	Yes	05/02/2008	Active	CB26	
Jack's Towing	1114	HARMONY ROAD	0	0	03-0161.1	Private	General Infiltration Practices								

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Duplex - Lot 5 blk 3	1020	HILLSIDE AVENUE	0.17	0.1	05-0061.2	Private	General Infiltration Practices	0.086	-76.24029527	36.94615276	Yes	05/07/2008	Active	CB26	
Duplex - Lot 6 blk3	1016	Hillside Avenue	0.17	0.1	05-0062.2	Private	General Infiltration Practices	0.086	-76.24025837	36.94631953	Yes	05/07/2008	Active	CB26	
Duplex - Lot 7 blk 3	1012	Hillside Avenue	0.17	0.1	05-0063.2	Private	General Infiltration Practices	0.086	-76.24047562	36.94649102	Yes	05/07/2008	Active	CB26	
Townhomes	2400	AZALEA GARDEN ROAD	0.804	0.412	06-0129.1	Private	Detention Basin	0.402	-76.23100877	36.87235562	Yes	05/14/2008	Active	CB26	
Townhomes	2400	AZALEA GARDEN ROAD	0.804	0.412	06-0129.2	Private	Detention Basin	0.402	-76.23100877	36.87235562	Yes	05/14/2008	Active	CB26	
Duplex	9634	7TH BAY STREET	0.17	0.07	05-0114.1	Private	General Infiltration Practices	0.15	-76.20889437	36.93334216	No	05/23/2008	Active	CB26	
La Quinta Hotel	1387	N Military Highway	1.22	0.86	06-0030.1	Private	Detention Basin	1.22	-76.21168486	36.87096047	Yes	06/05/2008	Active	IL54	
Shamrock Gardens	8115	REDMON ROAD	0.46	0.25	06-0051.1	Private	General Infiltration Practices	0.47	-76.1992436	36.922156	Yes	06/06/2008	Active	CB26	
Duplex	1505	E OCEAN VIEW AVENUE	0.37	0.18	09-0040.1	Private	General Infiltration Practices	0.185	-76.230467	36.940882	Yes	06/06/2008	Active	CB26	
Duplex	1505	E OCEAN VIEW AVENUE	0.37	0.18	09-0040.2	Private	General Infiltration Practices	0.185	-76.230566	36.940937	Yes	06/06/2008	Active	CB26	
Duplex	2807	PLEASANT AVENUE	0.12	0.06	04-0019.1	Private	General Infiltration Practices	65	-76.20801285	36.93175118	No	06/09/2008	Active	CB26	
Duplex	2807	PLEASANT AVENUE	0.12	0.06	04-0019.2	Private	General Infiltration Practices	0.065	-76.20780095	36.93173402	Yes	06/09/2008	Active	CB26	
Target Expansion	1245	N Military Highway	9.21	8.44	07-0103.1	Private	Manufactured BMP Systems	0.45	-76.21183019	36.86583804	Yes	06/17/2008	Active	CB26	
Target Expansion	1245	N Military Highway	9.21	8.44	07-0103.2	Private	Manufactured BMP Systems	0.45	-76.21174705	36.86525438	Yes	06/17/2008	Active	IL54	
Duplex	716	Redgate Avenue	0.13	0.09	07-0074.1	Private	Grassed Swale	0.132	-76.299257	36.863317	Yes	07/22/2008	Active	IL56	
Retail / Offices	2201	COLONIAL AVENUE	1.592	1.433	08-0009.1	Private	General Infiltration Practices	0.339	-76.29195593	36.87080533	No	07/23/2008	Active	IL56	
Retail / Offices	2201	COLONIAL AVENUE	1.592	1.433	08-0009.2	Private	General Infiltration Practices	0.257	-76.29149526	36.87023242	No	07/23/2008	Active	IL56	
Retail / Offices	2201	COLONIAL AVENUE	1.592	1.433	08-0009.3	Private	General Infiltration Practices	0.737	-76.29218459	36.87042125	No	07/23/2008	Active	IL56	
Powhatan Sports Complex	4251	Powhatan Avenue	9.29	2.18	07-0063.1	Private	Detention Basin	1.55	-76.31354578	36.88287899	No	08/07/2008	Active	IL56	
Sentara Medical Group	835	Glenrock Road	2.31	1.8	02-0048.1	Private	Detention Basin	2.31	-76.202728	36.851037	Yes	08/15/2008	Active	IL54	
Blair Middle School	730	Spotswood Avenue	9.93	4.23	NPS12.1	School	General Infiltration Practices	3.2	-76.29655123	36.86875505	Yes	08/20/2008	Active	IL56	
Bay Disposal	499	E Indian River Road	16.74	10.38	07-0027.1	Private	Retention Basin	6.33	-76.2743497	36.83428323	Yes	08/20/2008	Active	IL54	
Blair Middle School	730	Spotswood Avenue	9.93	4.23	NPS12.2	School	Detention Basin	3.2	-76.29576802	36.86926146	N/A	08/20/2008	Active	IL56	
Duplex	1342	Little Bay Avenue	0.17	0.09	06-0014.1	Private	Bioretention Basins	0.086	-76.29002877	36.96621741	Yes	09/11/2008	Active	CB26	
Duplex	1342	Little Bay Avenue	0.17	0.09	06-0014.2	Private	Bioretention Basins	0.086	-76.28991703	36.96621002	Yes	09/11/2008	Active	IL57	
Norfolk Police Department Firearms Range	1501	Pritchard Street	2.6	1.17	S49.1	Public	General Infiltration Practices	2.6	-76.20492675	36.88159145	No	09/16/2008	Active	CB26	
New Life Christian Center	1046	JOHNSTONS ROAD	0.27	0.16	07-0065.1	Private	Bioretention Basins	0.512	-76.24337643	36.90720824	Yes	10/21/2008	Active	CB26	
Saint Clair's Law Firm Office Addition	2317	E LITTLE CREEK ROAD	0.4	0.28	06-0090.1	Private	General Infiltration Practices	0.404	-76.21988882	36.91491182	Yes	10/22/2008	Active	CB26	
McDonald's rebuild	7900	Shore Drive	0.93	0.7	07-0113.1	Private	General Infiltration Practices	0.67	-76.191671	36.91853	Yes	10/27/2008	Active	CB26	
Eaton Office Park Phase III	173	Kempville Drive	0.6	0.37	07-0123.1	Private	Detention Basin	0.602	-76.19106404	36.84286274	Yes	11/03/2008	Active	IL54	
Calvary Revival Church Addition	5833	Poplar Hall Drive	3.95	3.49	05-0146.1	Private	Manufactured BMP Systems	0.17	-76.20671332	36.84871924	Yes	11/07/2008	Active	IL54	
Calvary Revival Church Addition	5833	Poplar Hall Drive	3.95	3.49	05-0146.2	Private	Manufactured BMP Systems	0.18	-76.20603519	36.84878588	Yes	11/07/2008	Active	IL54	
Calvary Revival Church Addition	5833	Poplar Hall Drive	3.95	3.49	05-0146.3	Private	Manufactured BMP Systems	0.28	-76.20512726	36.84877222	Yes	11/07/2008	Active	IL54	
Duplex	1156	Toler Place	0.19	0.06	06-0056.1	Private	General Infiltration Practices	0.0975	-76.283768	36.96823	Yes	11/13/2008	Active	CB26	
Duplex	1156	Toler Place	0.19	0.06	06-0056.2	Private	General Infiltration Practices	0.0975	-76.283578	36.968214	Yes	11/13/2008	Active	CB26	
Coleman Place Elementary School	2445	Palmyra Street	9.32	4.19	NPS17.1	School	Retention Basin	9.32	-76.24012023	36.86877222	Yes	12/11/2008	Active	IL56	
Duplex	240	W Ocean View Avenue	0.26	0.16	04-0013.1	Private	General Infiltration Practices	1.33	-76.25464233	36.95730959	No	01/01/2009	Active	IL57	
Parking Lot	817	BRANDON AVENUE	0.46	0.29	08-0103.1	Private	General Infiltration Practices	0.115	-76.29800498	36.86928721	Yes	01/01/2009	Active	IL56	
Downtown Pump Station (PS 145)	718	Yarmouth Street	0.18	0.07	S51.1	Public	Manufactured BMP Systems	0.044	-76.29387401	36.8537668	No	01/01/2009	Active	IL56	
EVMS roadway widening	825	Fairfax Avenue	0.56	0.46	07-0090.1	Private	Bioretention Basins	0.55	-76.30459013	36.86053337	Yes	01/01/2009	Active	IL56	
Orapax Inn	1300	Redgate Avenue	0.13	0.09	08-0026.1	Private	Permeable Pavement 1	0.13	-76.3084086	36.86746275	Yes	01/01/2009	Active	IL56	
Broad Creek Villas	2951	WOODLAND AVENUE	1.1	0.74	08-0042.1	Private	Extended Detention Basin	0.5505	-76.251522	36.853051	Yes	01/01/2009	Active	IL54	
Broad Creek Villas	2951	WOODLAND AVENUE	1.1	0.74	08-0042.2	Private	Extended Detention Basin	0.5505	-76.251455	36.852757	Yes	01/01/2009	Active	IL54	
Parking Lot	817	BRANDON AVENUE	0.46	0.29	08-0103.2	Private	General Infiltration Practices	0.143	-76.29809082	36.86892242	Yes	01/01/2009	Active	IL56	
Parking Lot	817	BRANDON AVENUE	0.46	0.29	08-0103.3	Private	General Infiltration Practices	0.146	-76.29818067	36.86876041	Yes	01/01/2009	Active	IL56	
Downtown Pump Station (PS 145)	718	Yarmouth Street	0.18	0.07	S51.2	Public	Grassed Swale	0.044	-76.29431925	36.85362645	No	01/01/2009	Active	IL54	
Duplex	9634	14th Bay Street	0.18	0.095	05-0170.1	Private	Bioretention Basins	0.045	-76.201009	36.93132	Yes	01/14/2009	Active	CB26	
Duplex	9634	14th Bay Street	0.18	0.095	05-0170.2	Private	Bioretention Basins	0.045	-76.200869	36.931327	Yes	01/14/2009	Active	CB26	
Duplex	9634	14th Bay Street	0.18	0.095	05-0170.3	Private	Bioretention Basins	0.045	-76.200966	36.93144	Yes	01/14/2009	Active	CB26	
Duplex	9634	14th Bay Street	0.18	0.095	05-0170.4	Private	Bioretention Basins	0.045	-76.200699	36.931255	Yes	01/14/2009	Active	CB26	
Brittany Apartments (6 units)	1336	Picadilly Street	0.46	0.19	07-0125.1	Private	General Infiltration Practices	0.459	-76.23317599	36.89729957	Yes	01/21/2009	Active	CB26	
Southwind Apartments	7824	Dallas Street	5.9	4.02	08-0001.1	Private	Retention Basin	3.51	-76.25860602	36.91689161	Yes	01/30/2009	Active	IL56	
Seaward Marine Services	5409	BEAMON ROAD	2.74	1.95	02-0101.1	Private	Detention Basin	2.74	-76.21904343	36.88244831	Yes	02/04/2009	Active	IL56	
Capitol Group Mail Center	2740	Azalea Garden Road	4.07	2.04	08-0086.1	Private	Detention Basin	2.75	-76.22585356	36.87950475	Yes	03/09/2009	Active	IL56	
Penske Trucking	4845	BROOKSIDE COURT	7.94	4.04	07-0054.1	Private	Manufactured BMP Systems	0.5455	-76.22695461	36.86435331	Yes	03/13/2009	Active	IL54	
Penske Trucking	4845	BROOKSIDE COURT	7.94	4.04	07-0054.2	Private	Manufactured BMP Systems	0.5455	-76.22609906	36.86368086	Yes	03/13/2009	Active	IL54	
Duplex	9542	18TH BAY STREET	0.28	0.14	08-0046.1	Private	Detention Basin	0.28	-76.1966604	36.92820916	Yes	03/17/2009	Active	CB26	
Harbor Park: Deck Addition	150	PARK AVENUE	0.06	0.06	08-0094.1	Private	Manufactured BMP Systems	0.06	-76.27893448	36.84250312	Yes	03/31/2009	Active	IL54	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.1	Private	Manufactured BMP Systems	0.189	-76.21419046	36.93248556	No	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.2	Private	Manufactured BMP Systems	0.189	-76.2139115	36.93237712	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.3	Private	Manufactured BMP Systems	0.189	-76.2141592	36.93225588	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.4	Private	Manufactured BMP Systems	0.189	-76.21418978	36.93201682	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.5	Private	Manufactured BMP Systems	0.189	-76.21415023	36.9319007	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.6	Private	Grassed Swale	0.263	-76.21391017	36.93208329	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.7	Private	General Infiltration Practices	0.315	-76.21441979	36.93228911	Yes	04/03/2009	Active	CB26	
Condo	9518	3RD BAY STREET	1.75	0.71	03-0322.8	Private	General Infiltration Practices	0.315	-76.21398259	36.9326128	Yes	04/03/2009	Active	CB26	
Widgeon Point	851	Norview Avenue	2.67	1.73	06-0110.1	Private	Manufactured BMP Systems	0.24	-76.254235	36.890183	Yes	04/08/2009	Active	IL56	
Widgeon Point	851	Norview Avenue	2.67	1.73	06-0110.2	Private	Manufactured BMP Systems	0.18	-76.254268	36.890145	Yes	04/08/2009	Active	IL56	
Widgeon Point	851	Norview Avenue	2.67	1.73	06-0110.3	Private	Manufactured BMP Systems	0.17	-76.254206	36.889471	Yes	04/08/2009	Active	IL56	
Widgeon Point	851	Norview Avenue	2.67	1.73	06-0110.4	Private	Manufactured BMP Systems	0.25	-76.254174	36.889459	Yes	04/08/2009	Active	IL56	
Widgeon Point	851	Norview Avenue	2.67	1.73	06-0110.5	Private	Manufactured BMP Systems	0.12	-76.29418861	36.87041265	Yes	04/05/2009	Active	IL56	
The Market at Ghent	730	W 21st Street	0.2	0.17	07-0084.1	Private	General Infiltration Practices	0.201	-76.29418861	36.934116	Yes	04/04/2009	Active	IL57	
First Church of Christ	9600	Granby Street	1.7	1.07	07-0047.1	Private	General Infiltration Practices	0.21	-76.2640884	36.934116	Yes	04/04/2009	Active	IL57	
First Church of God	9600	Granby Street	1.7	1.07	07-0047.2	Private	General Infiltration Practices	0.12	-76.2638904	36.93458082	Yes	04/04/2009	Active	IL57	
First Church of God	9600	Granby Street	1.7	1.07	07-0047.3	Private	General Infiltration Practices	0.12	-76.2638904	36.93458082	Yes	04/04/2009	Active	IL57	
McKann Ave Street Expansion	1521	MCKANN AVENUE	1.55	0.59	S44.1	Public	Manufactured BMP Systems	0.59	-76.25485361	36.8625301	Yes	04/28/2009	Active	IL56	
McKann Ave Street Expansion	1521	MCKANN AVENUE	1.55	0.59	S44.2	Public	Manufactured BMP Systems	0.42	-76.25485361	36.8625301	Yes	04/28/2009	Active	IL56	
Presenius Medical Center Expansion	1521	TIDEWATER DRIVE	0.01	0.38	08-0029.1	Private	Bioretention Basins	0.01	-76.25485361	36.8625301	Yes	05/01/2009	Active	IL56	
Presenius Medical Center Expansion	1521	TIDEWATER DRIVE	0.01	0.38	08-0029.2	Private	Bioretention Basins	0.01	-76.2						

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.1	Private	Manufactured BMP Systems	0.441	-76.21371	36.861746	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.2	Private	Manufactured BMP Systems	0.441	-76.21374	36.861704	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.3	Private	Manufactured BMP Systems	0.441	-76.213908	36.86189631	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.4	Private	Manufactured BMP Systems	0.441	-76.214343	36.862318	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.5	Private	Manufactured BMP Systems	0.441	-76.214339	36.862276	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.6	Private	Manufactured BMP Systems	0.441	-76.214986	36.861936	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.7	Private	Manufactured BMP Systems	0.441	-76.215059	36.861897	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.8	Private	Manufactured BMP Systems	0.441	-76.214905	36.861383	Yes	06/19/2009	Active	IL54	
Candlewood Suites	5600	LOWERY ROAD	5.65	4.2	07-0098.9	Private	Manufactured BMP Systems	0.441	-76.214866	36.861321	Yes	06/19/2009	Active	IL54	
Single Family Condominium	1539	BIRCH STREET	0.11	0.06	07-0062.1	Private	General Infiltration Practices	0.11	-76.23627529	36.86797076	Yes	07/31/2009	Active	IL54	
Vulcan Construction Materials, L.P.	966	BALLENTINE BOULEVARD	12.25	10.88	06-0121.1	Private	Detention Basin	2.15	-76.24601864	36.85297859	Yes	09/15/2009	Active	IL54	
Vulcan Construction Materials, L.P.	966	BALLENTINE BOULEVARD	12.25	10.88	06-0121.2	Private	Detention Basin	2.15	-76.24552351	36.85098167	Yes	09/15/2009	Active	IL54	
Vulcan Construction Materials, L.P.	966	BALLENTINE BOULEVARD	12.25	10.88	06-0121.3	Private	Retention Basin	6.43	-76.24603289	36.85299008	Yes	09/15/2009	Active	IL54	
Huntersville II Townhomes	1300	CHURCH STREET	0.75	0	06-0123.1	Private	General Infiltration Practices	0.527	-76.27771129	36.85981295	No	09/15/2009	Active	IL56	
The Va Arts Festival	440	BANK STREET	0.4	0.33	08-0040.2	Private	Manufactured BMP Systems	0.54	-76.28647953	36.85124976	No	09/16/2009	Active	IL56	
Duplex	9515	15TH BAY STREET	0.318	0.105	08-0099.1	Private	Grassed Swale	0.282	-76.20110214	36.92798617	Yes	09/22/2009	Active	CB26	
AAAA Self Storage Facility	408	18th Street	1.52	1.48	05-0149.1	Private	General Infiltration Practices	1.524	-76.28216386	36.86513286	Yes	10/16/2009	Active	IL56	
Walgreens	1157	N Military Highway	1.9	1.63	05-0085.1	Private	Detention Basin	4.137	-76.21085929	36.86257826	Yes	10/27/2009	Active	IL54	
Building Addition at Circle South	835	Glenrock Road	1.09	0.76	07-0127.1	Private	Manufactured BMP Systems	0.545	-76.20114908	36.85155924	No	11/12/2009	Active	IL54	
Building Addition at Circle South	835	Glenrock Road	1.09	0.76	07-0127.2	Private	Manufactured BMP Systems	0.545	-76.20106593	36.85158482	Yes	11/12/2009	Active	IL54	
Building Addition at Circle South	835	Glenrock Road	1.09	0.76	07-0127.3	Private	Manufactured BMP Systems	0.001	-76.20049194	36.85125398	Yes	11/12/2009	Active	IL56	
Laundromat	5812	POPLAR HALL DRIVE	1.005	0.764	07-0110.1	Private	Detention Basin	0.463	-76.20899856	36.84901115	Yes	11/17/2009	Active	IL54	
Laundromat	5812	POPLAR HALL DRIVE	1.005	0.764	07-0110.2	Private	Detention Basin	0.463	-76.20888054	36.84943612	Yes	11/17/2009	Active	IL54	
Duplex Lot "C"	1067	W OCEAN VIEW AVENUE	0.2	0.15	06-0015.1	Private	General Infiltration Practices	0.1	-76.28056662	36.96681349	Yes	11/30/2009	Active	IL56	
Dunkin Donuts	3901	HAMPTON BOULEVARD	0.446	0.321	08-0055.1	Private	Bioretention Basins	0.446	-76.30288124	36.88101516	Yes	12/02/2009	Active	IL56	
Thermcor, Inc.	2601	COLLEY AVENUE	0.58	0.37	08-0081.1	Private	Grassed Swale	0.07	-76.295709	36.8748	Yes	12/15/2009	Active	IL56	
Freemason St. Baptist Church	400	E FREEMASON STREET	1.86	1.23	07-0007.1	Private	General Infiltration Practices	8.19	-76.28635883	36.85009929	No	12/30/2009	Active	IL56	
Sandollar Duplex	915	HILLSIDE AVENUE	0.17	0.09	06-0104.1	Private	General Infiltration Practices	0.172	-76.24259512	36.94695211	Yes	12/31/2009	Active	CB26	
MHI Building Addition and Bulkhead	1215	Warrington Avenue	5.78	4.31	06-0144.1	Private	Manufactured BMP Systems	15.64	-76.31098664	36.86373828	Yes	01/01/2010	Active	IL56	
Red Cross Parking Lot	611	W BRAMBLETON AVENUE	215	0.168	07-0104.1	Private	Manufactured BMP Systems	0.215	-76.3016346	36.85643255	Yes	01/01/2010	Active	IL56	
Red Cross Parking Lot	611	W BRAMBLETON AVENUE	215	0.168	07-0104.2	Private	Manufactured BMP Systems	0.55	-76.30164531	36.85644935	Yes	01/01/2010	Active	IL56	
OSAGE	2618	COLLEY AVENUE	0.52	0.3	09-0031.1	Private	Grassed Swale	0.52	-76.294896	36.874544	Yes	01/01/2010	Active	IL56	
Grandy Village Site Improvements	601	WILEY DRIVE	19.32	11.43	09-0049.1	Private	Bioretention Basins	19.32	-76.24819636	36.84099195	Yes	01/01/2010	Active	IL54	
Fox Hall Place	1570	ASPEN STREET	0.18	0.11	09-0071.1	Private	General Infiltration Practices	0.17	-76.23166323	36.86971636	Yes	01/01/2010	Active	IL54	
Red Cross Parking Lot	611	W BRAMBLETON AVENUE	215	0.168	07-0104.3	Private	Manufactured BMP Systems	0.215	-76.3017666	36.85616503	Yes	01/01/2010	Active	IL56	
Stormwater Pump Station 12	8701	HAMPTON BOULEVARD	5.69	4.45	1570.1	Public	Manufactured BMP Systems	5.69	-76.32047106	36.93338474	N/A	01/01/2010	Active	IL57	
River House Apartments	4233	ILLEWELLYN AVENUE	5.65	4.4	07-0073.1	Private	Manufactured BMP Systems	0.21	-76.281449	36.887663	Yes	01/04/2010	Active	IL56	
River House Apartments	4233	ILLEWELLYN AVENUE	5.65	4.4	07-0073.2	Private	Manufactured BMP Systems	0.21	-76.28146648	36.88754994	Yes	01/04/2010	Active	IL56	
Mission College Clubhouse	1300	LEAD STREET	2.77	1.38	09-0014.1	Private	Detention Basin	0.19	-76.26286268	36.85523961	Yes	01/08/2010	Active	IL56	
Condos/Coffee Shop	201	W 21st Street	3.04	2.8	07-0077.1	Private	Manufactured BMP Systems	3.043	-76.2874472	36.8677558	Yes	01/29/2010	Active	IL56	
Lamberts Point Community Center	1251	W 42ND STREET	2.49	1.09	08-0008.1	Public	Bioretention Basins	2.49	-76.30419006	36.88223791	Yes	02/09/2010	Active	IL56	
First Presbyterian Church	820	COLONIAL AVENUE	2.41	1.79	06-0125.1	Private	General Infiltration Practices	0.15	-76.29456338	36.8608887	Yes	03/05/2010	Active	IL56	
First Presbyterian Church	820	COLONIAL AVENUE	2.41	1.79	06-0125.2	Private	Manufactured BMP Systems	0.21	-76.29463372	36.86107246	Yes	03/05/2010	Active	IL56	
Sentara Parking Garage Expansion	801	COLLEY AVENUE	1.27	0.99	07-0042.1	Private	Grassed Swale	0.317	-76.30059395	36.8629331	Yes	04/30/2010	Active	IL56	
Sentara Parking Garage Expansion	801	COLLEY AVENUE	1.27	0.99	07-0042.2	Private	Grassed Swale	0.317	-76.30044848	36.86346118	Yes	04/30/2010	Active	IL56	
Sentara Parking Garage Expansion	801	COLLEY AVENUE	1.27	0.99	07-0042.3	Private	Grassed Swale	0.317	-76.30049944	36.86346333	Yes	04/30/2010	Active	IL56	
Lumber Liquidators	416	CAMPOSTELLA ROAD	0.97	0.73	09-0002.1	Private	Manufactured BMP Systems	0.66	-76.262996	36.835651	Yes	05/07/2010	Active	IL54	
Lumber Liquidators	416	CAMPOSTELLA ROAD	0.97	0.73	09-0002.2	Private	Manufactured BMP Systems	0.66	-76.26298258	36.83563906	Yes	05/07/2010	Active	IL54	
Land & Coates	830	POPLAR HALL DRIVE	1.05	0.76	08-0096.1	Private	Detention Basin	0.86	-76.19673014	36.85308052	Yes	05/12/2010	Active	IL54	
Fort Norfolk Plaza	301	RIVERVIEW AVENUE	3.06	2.54	08-0038.1	Private	Manufactured BMP Systems	0.39	-76.307244	36.861453	Yes	06/02/2010	Active	IL56	
Fort Norfolk Plaza	301	RIVERVIEW AVENUE	3.06	2.54	08-0038.2	Private	Manufactured BMP Systems	0.25	-76.306446	36.86026	Yes	06/02/2010	Active	IL56	
Fort Norfolk Plaza	301	RIVERVIEW AVENUE	3.06	2.54	08-0038.3	Private	Manufactured BMP Systems	0.55	-76.306869	36.86048	Yes	06/02/2010	Active	IL56	
Fort Norfolk Plaza	301	RIVERVIEW AVENUE	3.06	2.54	08-0038.4	Private	Manufactured BMP Systems	0.52	-76.306829	36.859861	Yes	06/02/2010	Active	IL56	
Grandy Village Community Center	2971	Kimball Loop	4.96	1.27	08-0079.1	Public	Bioretention Basins	0.53	-76.25012755	36.84112074	Yes	06/18/2010	Active	IL54	
Grandy Village Community Center	2971	Kimball Loop	4.96	1.27	08-0079.2	Public	Bioretention Basins	0.46	-76.25012755	36.84112074	Yes	06/18/2010	Active	IL54	
Grandy Village Community Center	2971	Kimball Loop	4.96	1.27	08-0079.3	Public	Bioretention Basins	0.43	-76.25083566	36.84046168	Yes	06/18/2010	Active	IL54	
Mount Hermon Baptist Church Parking Addition	2967	ARGONNE AVENUE	0.207	0.126	09-0058.3	Private	Detention Basin	0.207	-76.25823319	36.87426956	Yes	06/21/2010	Active	IL56	
Mount Hermon Baptist Church Parking Addition	2967	ARGONNE AVENUE	0.207	0.126	09-0058.1	Private	Extended Detention Basin	0.338	-76.25776649	36.87441546	Yes	06/21/2010	Active	IL56	
Mount Hermon Baptist Church Parking Addition	2967	ARGONNE AVENUE	0.207	0.126	09-0058.2	Private	Detention Basin	0.254	-76.25776649	36.87441546	Yes	06/21/2010	Active	IL56	
Mult-Family Housing Unit	1516	NEVADA AVENUE	0.37	0.19	08-0023.1	Private	Bioretention Basins	0.37	-76.241649	36.864777	Yes	07/23/2010	Active	IL54	
Mult-Family Housing Unit	1516	NEVADA AVENUE	0.37	0.19	08-0023.2	Private	Grassed Swale	0.001	-76.241407	36.864939	Yes	07/23/2010	Active	IL54	
Trail of the Tiger Exhibit	3500	Granby Street	6.1	2.2	552.1	Public	Manufactured BMP Systems	6.52	-76.27678685	36.87716769	Yes	08/03/2010	Active	IL56	
Building Addition - Baker and Company	3541	ARGONNE AVENUE	4.681	2.419	03-0267.1	Private	Extended Detention Basin	2.18	-76.25344813	36.88394002	Yes	08/04/2010	Active	IL56	
Blessed Sacrament Church addition	6400	NEWPORT AVENUE	4.52	2.18	10-0004.1	Private	Bioretention Basins	0.28	-76.28183126	36.90132992	No	08/16/2010	Active	IL56	
Duplex Lot Y	1529	Nevada Avenue	0.1539	0.0687	08-0090.1	Private	Bioretention Basins	0.154	-76.24224186	36.86501268	Yes	09/29/2010	Active	IL54	
Shamrock Gardens	6107	REDMON ROAD	0.43	0.25	06-0052.1	Private	General Infiltration Practices	0.43	-76.19922892	36.92187616	Yes	10/27/2010	Active	CB26	
The Va Arts Festival	440	BANK STREET	0.4	0.33	08-0040.1	Private	Manufactured BMP Systems	0.17	-76.28642657	36.85140644	No	11/04/2010	Active	IL56	
4206 Pretty Lake family	1226	Pretty Lake Avenue	0.24	0.1	06-0073.1	Private	Manufactured BMP Systems	0.24	-76.19170368	36.92679831	Yes	11/05/2010	Active	CB26	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.3	Private	General Infiltration Practices	0.113	-76.30389512	36.88033772	Yes	11/17/2010	Active	IL56	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.4	Private	General Infiltration Practices	0.113	-76.30325139	36.88037582	Yes	11/17/2010	Active	IL56	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.5	Private	General Infiltration Practices	0.25	-76.30379319	36.88011265	Yes	11/17/2010	Active	IL56	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.6	Private	General Infiltration Practices	0.113	-76.30354643	36.88072338	Yes	11/17/2010	Active	IL56	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.7	Private	General Infiltration Practices	0.113	-76.30319774	36.88070622	Yes	11/17/2010	Active	IL56	
Village Garden Senior Housing	1228	W 39TH STREET	1.058	0.51	08-0056.8	Private	General Infiltration Practices	0.113	-76.23671104	36.88705113	Yes	11/23/2010	Active	IL56	
3608 Sewells Point Rd. Duplex	3608	SEWELLS POINT ROAD	0.168	0.08	06-0128.1	Private	General Infiltration Practices	0.112	-76.23671104	36.88705113	Yes	11/23/2010	Active	IL56	
3608 Sewells Point Rd. Duplex	3608	SEWELLS POINT ROAD	0.168	0.08	06-0128.2	Private	General Infiltration Practices	0.112	-76.23671104	36.88705113	Yes	11/23/2010	Active	IL56	
3608 Sewells Point Rd. Duplex	3608	SEWELLS POINT ROAD	0.168	0.08	06-0128.3	Private	General Infiltration Practices	0.112	-76.23671104	36.88705113	Yes	11/23/2010	Active	IL56	
Duplex Lot X	1513	NEVADA AVENUE	0.15	0.066	08-0024.1	Private	Bioretention Basins	0.077							

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Lambert's Point Rec Center Parking Addition	1251	W 42ND STREET	2.61	1.55	557.1	Public	General Infiltration Practices	0.53	-76.303508	36.8817	No	01/01/2011	Active	IL56	
Family Dollar	1809	WEBSTER AVENUE	0.77	0.54	04-0140.1	Private	Detention Basin	0.42	-76.267595	36.869962	Yes	01/01/2011	Active	IL56	
The Beauty Parlor	767	GRANBY STREET	0.043	0.039	08-0078.1	Private	Manufactured BMP Systems	0.043	-76.28861189	36.85625689	No	01/05/2011	Active	IL56	
Floor Busters	845	W 40TH STREET	0.149	0.104	08-0047.1	Private	Grassed Swale	0.082	-76.296784	36.881335	No	01/06/2011	Active	IL56	
Floor Busters	845	W 40TH STREET	0.149	0.104	08-0047.2	Private	Vegetated Filter Strip	0.038	-76.296978	36.88136	No	01/06/2011	Active	IL56	
Filipino Independent Baptist Church	5809	CHAMBERS STREET	0.82	0.59	09-0065.1	Private	Grassed Swale	0.07	-76.206348	36.845283	Yes	02/07/2011	Active	IL54	
Filipino Independent Baptist Church	5809	CHAMBERS STREET	0.82	0.59	09-0065.2	Private	General Infiltration Practices	0.3	-76.205948	36.845403	Yes	02/07/2011	Active	IL54	
City Line Self Storage	951	Ernies Way	1.99	1.47	07-0052.1	Private	Extended Detention Basin	1.99	-76.18245104	36.85299607	Yes	03/15/2011	Active	IL54	
HRT Newtown Park and Ride	120	BANGOR AVENUE	3.703	2.614	Light Rail.1	Private	Extended Detention Basin	3.7	-76.18926823	36.84148137	No	05/15/2011	Active	IL54	
HRT Park and Ride	5524	Curlew Drive	1.97	1.1	01-0197.1	Private	Retention Basin	2.6	-76.21494099	36.84173832	Yes	08/01/2011	Active	IL54	
Duplex	1278	LITTLE BAY AVENUE	0.172	0.062	03-0325.1	Private	General Infiltration Practices	0.051	-76.287521	36.966433	No	08/01/2011	Active	CB26	
Duplex	1278	LITTLE BAY AVENUE	0.172	0.062	03-0325.2	Private	General Infiltration Practices	0.051	-76.287589	36.966214	No	08/01/2011	Active	CB26	
Duplex	1278	LITTLE BAY AVENUE	0.172	0.062	03-0325.3	Private	General Infiltration Practices	0.051	-76.287471	36.966212	No	08/01/2011	Active	CB26	
HRT Park and Ride	5524	Curlew Drive	1.97	1.1	01-0197.2	Private	Infiltration 1	0.8	-76.21173144	36.84173436	Yes	08/01/2011	Active	IL54	
2nd Patrol Division	901	Asbury Avenue	6.5	3.19	553.1	Public	General Infiltration Practices	7.74	-76.25135064	36.90984034	Yes	09/01/2011	Active	CB26	
EVMS Parking Garage Addition	745	FAIRFAX AVENUE	0.61	0.51	09-0050	Private	Manufactured BMP Systems	0.61	-76.30369127	36.8599396	Yes	09/01/2011	Active	IL56	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.1	Private	Manufactured BMP Systems	0.345	-76.29024782	36.83553233	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition Phase II	703	PEARL STREET	2.39	1.63	10-0025.1	Private	Manufactured BMP Systems	0.19	-76.28988728	36.83567627	Yes	09/01/2011	Active	IL53	
2nd Patrol Division	901	Asbury Avenue	6.5	3.19	553.2	Public	Extended Detention Basin	22.8	-76.25014149	36.90891801	Yes	09/01/2011	Active	CB26	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.2	Private	Manufactured BMP Systems	0.33	-76.29065047	36.83551247	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.3	Private	Manufactured BMP Systems	0.32	-76.29073482	36.8354865	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.4	Private	Manufactured BMP Systems	0.34	-76.29109729	36.83537147	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.5	Private	Manufactured BMP Systems	0.37	-76.29118248	36.83534275	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.6	Private	Manufactured BMP Systems	0.33	-76.29151943	36.8350922	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.7	Private	Manufactured BMP Systems	0.33	-76.29132465	36.8354715	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.8	Private	Manufactured BMP Systems	0.345	-76.2910651	36.83630626	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.9	Private	Manufactured BMP Systems	0.345	-76.29160652	36.83613919	Yes	09/01/2011	Active	IL53	
Metro Machine Parking Addition	200	LIGON STREET	0.2	3.17	09-0057.10	Private	Manufactured BMP Systems	0.345	-76.29168778	36.8361099	Yes	09/01/2011	Active	IL53	
Grand Furniture	6359	E VIRGINIA BEACH BOULEVARD	2.137	1.752	10-0052.1	Private	Retention Basin	1.8547	-76.186284	36.853106	No	10/27/2011	Active	IL54	
Harris Teeter Store 378	1320	COLONIAL AVENUE	3.106	2.63	08-0072.1	Private	Manufactured BMP Systems	0.35	-76.29214168	36.86493543	No	11/03/2011	Active	IL56	
Meadowood Apartments	1560	INTERNATIONAL BOULEVARD	7.708	5.2	10-0059.1	Private	Retention Basin	5.24	-76.228951	36.894404	Yes	12/07/2011	Active	CB26	
Meadowood Apartments	1560	INTERNATIONAL BOULEVARD	7.708	5.2	10-0059.2	Private	Manufactured BMP Systems	2.47	-76.228447	36.896247	Yes	12/07/2011	Active	CB26	
Chesterfield Heights WW Pump Station	2633	WESTMINSTER AVENUE	0.199	0.034	555.1	Public	Bioretention Basins	0.058	-76.25750899	36.84481706	Yes	01/01/2012	Active	IL54	
Parking Lot	1227	W LITTLE CREEK ROAD	0.556	0.366	11-0032.1	Private	General Infiltration Practices	0.556	-76.29615963	36.91549428	N/A	01/01/2012	Active	IL56	
Young Terrace - Site Accessibility	804	WHITAKER LANE	32.6	0.05	11-0046.1	Private	General Infiltration Practices	0	-76.28318299	36.85584468	No	01/01/2012	Active	IL54	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.1	Private	Bioretention Basins	0.41	-76.284411	36.864436	Yes	01/04/2012	Active	IL56	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.2	Private	Bioretention Basins	0.13	-76.283602	36.864472	Yes	01/04/2012	Active	IL56	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.3	Private	Bioretention Basins	0.18	-76.282916	36.864451	Yes	01/04/2012	Active	IL56	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.4	Private	Bioretention Basins	0.34	-76.282204	36.864576	Yes	01/04/2012	Active	IL56	
Lake Taylor Hospital Parking Lot Addition			2.334	0.88	11-0007.1	Private	Extended Detention Basin	1.28999	-76.20756626	36.86545045	Yes	01/18/2012	Active	CB26	
Lamberts Point Townhouses	1208	W 26TH STREET	1.061	0.497	10-0051.1	Private	General Infiltration Practices	1.06	-76.30322456	36.87685716	No	02/22/2012	Active	IL56	
Islamic Center	1442	49TH STREET	0.58	0.19	10-0050.1	Private	Bioretention Basins	0.49	-76.310888	36.887664	Yes	03/01/2012	Active	IL56	
Leigh Medical Office Building	6275	E VIRGINIA BEACH BOULEVARD	2.52	2.07	07-0061.1	Private	Manufactured BMP Systems	0.5	-76.19050741	36.85440026	Yes	03/06/2012	Active	IL54	
Leigh Medical Office Building	6275	E VIRGINIA BEACH BOULEVARD	2.52	2.07	07-0061.2	Private	Manufactured BMP Systems	0.22	-76.19008899	36.85437684	Yes	03/06/2012	Active	IL54	
Leigh Medical Office Building	6275	E VIRGINIA BEACH BOULEVARD	2.52	2.07	07-0061.3	Private	Manufactured BMP Systems	0.23	-76.19008899	36.85437684	Yes	03/06/2012	Active	IL54	
Leigh Medical Office Building	6275	E VIRGINIA BEACH BOULEVARD	2.52	2.07	07-0061.4	Private	Bioretention Basins	0.6	-76.19008899	36.85437684	Yes	03/06/2012	Active	IL54	
CVS E Va Bch Blvd. and Newton	6678	E VIRGINIA BEACH BOULEVARD	1.56	1.24	10-0071.1	Private	Manufactured BMP Systems	0.36	-76.17799579	36.8547975	Yes	03/12/2012	Active	IL54	
BAE Systems Parking Lot improvements	750	W BERKLEY AVENUE	13.5	12.07	11-0072.1	Private	Manufactured BMP Systems	1.33	-76.28750548	36.82816933	Yes	04/12/2012	Active	IL53	
RT Body Shop Addition	7615	MERRITT STREET	0.517	0.462	10-0075.1	Private	Detention Basin	0.52	-76.24664068	36.91343039	Yes	04/23/2012	Active	IL57	
Pump Station 34 Replacement	7445	DIVEN STREET	0.056	0.032	554.1	Public	Grassed Swale	0.031	-76.29343987	36.91163753	Yes	06/08/2012	Active	IL56	
Norfolk Machine & Welding	1028	W 27TH STREET	1.12	0.54	11-0045.1	Private	General Infiltration Practices	1.12	-76.298503	36.87633	Yes	07/16/2012	Active	IL56	
Norfolk General New Pavilion & Parking	600	GRESHAM DRIVE	6.49	4.43	03-0327.1	Private	Bioretention Basins	0.75	-76.305327	36.862444	Yes	07/23/2012	Active	IL56	
Norfolk General New Pavilion & Parking	600	GRESHAM DRIVE	6.49	4.43	03-0327.2	Private	Bioretention Basins	0.94	-76.304176	36.863607	Yes	07/23/2012	Active	IL56	
Norfolk General New Pavilion & Parking	600	GRESHAM DRIVE	6.49	4.43	03-0327.3	Private	Manufactured BMP Systems	0.75	-76.305175	36.862586	Yes	07/23/2012	Active	IL56	
Norfolk General New Pavilion & Parking	600	GRESHAM DRIVE	6.49	4.43	03-0327.4	Private	Manufactured BMP Systems	0.94	-76.303772	36.863692	Yes	07/23/2012	Active	IL56	
Norfolk General New Pavilion & Parking	600	GRESHAM DRIVE	6.49	4.43	03-0327.5	Private	Grassed Swale	0.32	-76.30483526	36.86150427	Yes	07/23/2012	Active	IL56	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.5	Private	Bioretention Basins	0.15	-76.281732	36.86465	Yes	07/25/2012	Active	IL56	
HRT Bus Maint. Facility	509	18TH STREET	9.72	8.44	09-0029.6	Private	Bioretention Basins	0.15	-76.281312	36.864675	Yes	07/25/2012	Active	IL56	
O'Reilly Auto Parts	860	E LITTLE CREEK ROAD	1.25	0.94	11-0015	Private	Extended Detention Basin	1.25	-76.24842167	36.91567355	Yes	07/27/2012	Active	IL57	
MacArthur Mall Museum Expansion	198	BANK STREET	0.79	0.55	564.1	Private	Manufactured BMP Systems	1.19	-76.28888011	36.84724253	Yes	08/28/2012	Active	IL56	
MacArthur Mall Museum Expansion	198	BANK STREET	0.79	0.55	564.2	Public	Detention Basin	0.31	-76.28869772	36.84710516	Yes	08/28/2012	Active	IL54	
US General Services Admin	5678	E VIRGINIA BEACH BOULEVARD	1.94	1.19	563.1	Public	Extended Detention Basin	1.63	-76.21078491	36.85613671	Yes	10/30/2012	Active	IL54	
Autobell Carwash	5840	E VIRGINIA BEACH BOULEVARD	1.27	0.8	11-0019.1	Private	General Infiltration Practices	0.14	-76.20470382	36.85591133	Yes	10/30/2012	Active	IL54	
Autobell Carwash	5840	E VIRGINIA BEACH BOULEVARD	1.27	0.8	11-0019.2	Private	Manufactured BMP Systems	0.72	-76.20475141	36.85597319	Yes	10/30/2012	Active	IL54	
Tidewater Gymnastics Parking Lot	846	MATH STREET	0.29	0.16	11-0056	Private	General Infiltration Practices	0.26	-76.29674301	36.88450145	Yes	01/01/2013	Active	IL56	
Ingleisle Elementary School Gymnasium	976	INGLESLIDE DRIVE	2.4	0.72	NP523.1	Public	Detention Basin	2.4	-76.23812199	36.85338958	N/A	01/01/2013	Active	IL54	
Palmetto St Drainage Improvement	3745	TAIT TERRACE	9.033	4.52	11-0071.1	Public	Detention Basin	9.033	-76.24291579	36.87053996	N/A	01/01/2013	Active	IL56	
CHURCH PARKING LOT	5204	ELMHURST AVENUE	0.61	0.4427	12-0015.1	Private	Extended Detention Basin	0.23	-76.225914	36.88494492	Yes	01/01/2013	Active	IL56	
Cook Out Restaurant	1105	N MILITARY HIGHWAY	0.91	0.63	12-0033.1	Private	Manufactured BMP Systems	0.22	-76.210548	36.859889	Yes	01/01/2013	Active	IL54	
Norfolk Airport Authority Terminal and Concourse Improvements	2200	NORVIEW AVENUE	11.17	8.43	12-0031.1	Private	Retention Basin	11.2	-76.20641133	36.90048326	Yes	01/01/2013	Active	CB26	
Colonna's Shipyard Paper Building Phase 3	400	E INDIAN RIVER ROAD	0.522	0.522	12-0034.1	Private	General Infiltration Practices	0.522	-76.274139	36.834955	Yes	01/01/2013	Active	IL53	
Rebuild and Convenience Store Addition - BP/7-11	2027	E VIRGINIA BEACH BOULEVARD	0.724	0.466	12-0114.1	Private	General Infiltration Practices	0.466	-76.24830284	36.85244775	Yes	01/01/2013	Active	IL54	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.1	Private	General Infiltration Practices	0.072	-76.28257	36.883088	N/A	01/02/2013	Active	IL56	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.2	Private	Manufactured BMP Systems	0.072	-76.28257	36.88312	Yes	01/02/2013	Active	IL56	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.3	Private	Manufactured BMP Systems	0.072	-76.28257	36.881126	No	01/02/2013	Active	IL56	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.4	Private	Manufactured BMP Systems	0.072	-76.28257	36.879804	Yes	01/02/2013	Active	IL56	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.5	Private	Manufactured BMP Systems	0.072	-76.28257	36.879804	Yes	01/02/2013	Active	IL56	
Filters	9988	OMOHUNDRO AVENUE	0	0	12-0113.6	Private	Manufactured BMP Systems	0.072	-76.28257	36.879804	Yes	01/02/2013	Active	IL56	
Filters															

ALL ACTIVE SWMF'S - CITY OF NORFOLK																
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC		
Park Crescent Apartments	6450	CRESCENT WAY	8.57	5.69	11-0012.4	Private	Manufactured BMP Systems	1.66	-76.22782901	36.89896708	Yes	03/15/2013	Active	CB26		
Park Crescent Apartments	6450	CRESCENT WAY	8.57	5.69	11-0012.5	Private	Manufactured BMP Systems	1.04	-76.22705653	36.89903836	Yes	03/15/2013	Active	CB26		
Forest Lawn Cemetary	8100	GRANBY STREET	1.45	0.14	1556.1	Public	General Infiltration Practices	0.69	-76.26717567	36.92275859	No	03/27/2013	Active	IL57		
CON Small Brick Building	180	E EVANS STREET	23.8	10	565.1	Public	General Infiltration Practices	0	-76.258464	36.934448	N/A	04/05/2013	Active	CB26		
Solid Rock Church parking	1028	KENTON AVENUE	0.114	0.084	10-0034.1	Private	General Infiltration Practices	0.039	-76.259794	36.853308	No	04/23/2013	Active	IL54		
Solid Rock Church parking	1028	KENTON AVENUE	0.114	0.084	10-0034.2	Private	General Infiltration Practices	0.045	-76.259814	36.853202	No	04/23/2013	Active	IL54		
Gutterman Iron Works	706	MAY AVENUE	2.72	1.769	08-0075.1	Private	Manufactured BMP Systems	2.72	-76.27528667	36.84978383	Yes	04/23/2013	Active	IL54		
Dollar General	4008	E LITTLE CREEK ROAD	0.717	0.57	12-0074.1	Private	Bioretention Basins	0.187	-76.195786	36.91820722	Yes	04/26/2013	Active	CB26		
Dollar General	4008	E LITTLE CREEK ROAD	0.717	0.57	12-0074.2	Private	Manufactured BMP Systems	0.216	-76.19617492	36.91861573	Yes	04/26/2013	Active	CB26		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.1	Private	Detention Basin	0.39	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.2	Private	Manufactured BMP Systems	0.24	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.3	Private	Manufactured BMP Systems	0.18	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.4	Private	Manufactured BMP Systems	0.18	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.5	Private	Manufactured BMP Systems	0.18	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
Suburban Park Subdivision-Redevelopment of Wards Corner	117	E LITTLE CREEK ROAD	8.37	6.88	12-0039.6	Private	Manufactured BMP Systems	0.33	-76.271896	36.914134	Yes	04/30/2013	Active	IL57		
YMCA Family Center on Granby Street	2900	GRANBY STREET	2.58	1.88	12-0024.2	Private	Manufactured BMP Systems	0.42	-76.283735	36.873448	Yes	05/31/2013	Active	IL56		
YMCA Family Center on Granby Street	2900	GRANBY STREET	2.58	1.88	12-0024.1	Private	Manufactured BMP Systems	0.37	-76.283123	36.873394	Yes	06/01/2013	Active	IL56		
Wells Fargo	440	Monticello Avenue	4.59	3.79	09-0039.1	Private	Manufactured BMP Systems	0.91	-76.287491	36.851928	No	06/06/2013	Active	IL56		
Wells Fargo	440	Monticello Avenue	4.59	3.79	09-0039.2	Private	Manufactured BMP Systems	0.97	-76.286964	36.850909	No	06/06/2013	Active	IL56		
Wells Fargo	440	Monticello Avenue	4.59	3.79	09-0039.3	Private	Manufactured BMP Systems	1.49	-76.288569	36.851406	No	06/06/2013	Active	IL56		
Wells Fargo	440	Monticello Avenue	4.59	3.79	09-0039.4	Private	Manufactured BMP Systems	0.29	-76.28808	36.850713	No	06/06/2013	Active	IL56		
Wells Fargo	440	Monticello Avenue	4.59	3.79	09-0039.5	Private	Manufactured BMP Systems	0.37	-76.287758	36.850569	No	06/06/2013	Active	IL56		
Filipino Christian Church	5225	ELMHURST AVENUE	1.18	0.681	12-0014	Private	Detention Basin	0.52	-76.22575164	36.88441349	Yes	06/09/2013	Active	CB26		
Bauer Compressors Expansion	1328	AZALEA GARDEN ROAD	5.01	3.62	12-0085.1	Private	Manufactured BMP Systems	0.23	-76.233069	36.862875	Yes	06/19/2013	Active	IL54		
Bauer Compressors Expansion	1328	AZALEA GARDEN ROAD	5.01	3.62	12-0085.2	Private	Manufactured BMP Systems	1.34	-76.233069	36.862875	Yes	06/19/2013	Active	IL56		
Bauer Compressors Expansion	1328	AZALEA GARDEN ROAD	5.01	3.62	12-0085.3	Private	Manufactured BMP Systems	1.42	-76.233069	36.862875	Yes	06/19/2013	Active	IL56		
Valley Self Storage	1117	VALLEY DRIVE	2.225	1.83	13-0010.1	Private	Detention Basin	1.88	-76.210527	36.860875	Yes	06/26/2013	Active	IL54		
Crossroads Elementary Rebuild	7920	TIDEWATER DRIVE	9.94	5.09	NPS22.1	School	Permeable Pavement 1	1.19	-76.252428	36.919014	N/A	08/29/2013	Active	IL57		
Crossroads Elementary Rebuild	7920	TIDEWATER DRIVE	9.94	5.09	NPS22.2	School	Rainwater Harvesting	1.32	-76.25125408	36.9184356	N/A	08/29/2013	Active	IL57		
Killam Avenue Eatery	3375	KILLAM AVENUE	0.068	0.028	12-0016.1	Private	General Infiltration Practices	0.734	-76.2984556	36.87685823	Yes	08/29/2013	Active	IL56		
Subdivision Plan for Bullock Park	401-499	W GOVERNMENT AVENUE	2.537	0.69	11-0023.1	Private	Extended Detention Basin	1.67	-76.262016	36.959575	Yes	09/13/2013	Active	IL57		
Fine Arts Center - Norfolk Collegiate	7336	GRANBY STREET	1.5999	0.83999	11-0002.1	Private	Permeable Pavement 1	0.2899	-76.27612352	36.90787582	Yes	09/30/2013	Active	IL56		
Kingdom Hall of Jehovah's Witness Humboldt Street Parking Lot	3660	HUMBOLDT STREET	0.316	0.15	11-0066	Private	Manufactured BMP Systems	0.15	-76.23577927	36.89031057	No	10/01/2013	Active	CB26		
Seiwells Point Mini Storage	7614	SEWELLS POINT ROAD	1.49	1.23	11-0016.1	Private	Manufactured BMP Systems	1.49	-76.24837875	36.91366629	Yes	10/02/2013	Active	IL56		
Sherwin Williams	7937	SHORE DRIVE	0.257	0.19	12-0066.1	Private	Extended Detention Basin	0.257	-76.19321913	36.9194649	Yes	10/08/2013	Active	CB26		
WAWA	6301	N MILITARY HIGHWAY	3.8	2.47	12-0025.1	Private	Detention Basin	2.5	-76.22673284	36.89724898	Yes	10/21/2013	Active	CB26		
WAWA	6301	N MILITARY HIGHWAY	3.8	2.47	12-0025.2	Private	Manufactured BMP Systems	0.22	-76.22622	36.89675634	Yes	10/21/2013	Active	CB26		
WAWA	6301	N MILITARY HIGHWAY	3.8	2.47	12-0025.3	Private	Manufactured BMP Systems	0.58	-76.22589814	36.89692622	Yes	10/21/2013	Active	CB26		
Hammett Avenue BMP	8721	HAMMETT AVENUE	0.98	0.35	12-0026.1	Private	Detention Basin	0.409	-76.256498	36.935342	Yes	10/21/2013	Active	IL57		
WAWA	6301	N MILITARY HIGHWAY	3.8	2.47	12-0025.4	Private	Manufactured BMP Systems	2.47	-76.226342	36.89728	Yes	10/21/2013	Active	CB26		
Norfolk Multi-Modal Transportation Center	150	PARK AVENUE	1.86	13.61	567.1	Public	Manufactured BMP Systems	0.59	-76.278387	36.844025	N/A	11/14/2013	Active	IL54		
Towing Operations Center	1188	LANCE ROAD	3.3	2.97	568.1	Public	Bioretention Basins	2.65	-76.2163481	36.86609237	No	11/19/2013	Active	IL54		
R.E. Michel Building Addition	2735	ELLSMERE AVENUE	1.29	0.92	12-0030.1	Private	Extended Detention Basin	0.62	-76.220537	36.881668	No	11/26/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.6	Private	Manufactured BMP Systems	0.402	-76.213468	36.833454	Yes	12/02/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.5	Private	Manufactured BMP Systems	0.402	-76.213543	36.833428	Yes	12/02/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.3	Private	Manufactured BMP Systems	0.402	-76.213543	36.833428	Yes	12/02/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.4	Private	Manufactured BMP Systems	0.402	-76.213539	36.834201	Yes	12/02/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.1	Private	Manufactured BMP Systems	0.402	-76.213619	36.834236	Yes	12/02/2013	Active	IL56		
Shorewood Shores Phase II	420	SHOREWOOD PLACE	0.402	0.201	06-0044.2	Private	Manufactured BMP Systems	0.402	-76.213679	36.834225	Yes	12/02/2013	Active	IL56		
HRT Transfer Military Circle	880	N MILITARY HIGHWAY	0.14	0.09	HRT Transfer Military Circle 1	Private	General Infiltration Practices	0	-76.206633	36.850965	No	12/04/2013	Active	IL54		
Duplex	9516	14th Bay Street	0.22	0.11	06-0009.1	Private	Bioretention Basins	0.22	-76.20193329	36.92805546	Yes	01/01/2014	Active	CB26		
Filterra	428	CAROLINA AVENUE	0	10	559.1	Public	Manufactured BMP Systems	0.12	-76.303517	36.87678	No	01/01/2014	Active	IL54		
Chick-Fil-A (Store #03189)	1600	Monticello Avenue	1.13	0.88	13-0020.1	Private	Manufactured BMP Systems	0.2	-76.28459311	36.8638381	Yes	01/01/2014	Active	IL56		
Chick-Fil-A (Store #03189)	1600	Monticello Avenue	1.13	0.88	13-0020.2	Private	Manufactured BMP Systems	0.182	-76.28491766	36.86355131	Yes	01/01/2014	Active	IL56		
Chick-Fil-A (Store #03189)	1600	Monticello Avenue	1.13	0.88	13-0020.3	Private	Manufactured BMP Systems	0.121	-76.28526634	36.86361504	Yes	01/01/2014	Active	IL56		
United Disposal	161	WELLMAN STREET	1.248	1.142	12-0081.1	Private	Manufactured BMP Systems	0.469	-76.20745922	36.84323255	Yes	01/01/2014	Active	IL54		
Bobbitt Mid-Rise Site Improvements	5920	POPLAR HALL DRIVE	3.11	1.2	12-0029.1	Private	General Infiltration Practices	0.699	-76.201853	36.850057	No	01/01/2014	Active	IL54		
Duplex Site Plan for U Shen	9621	12TH BAY STREET	0.34	0.15	12-0050.1	Private	General Infiltration Practices	0.28	-76.20375206	36.93158271	No	01/01/2014	Active	CB26		
Greenway Stormwater Park	3901	ILLEWELLYN AVENUE	19.07	8.2	12-0053.1	Public	Retention Basin	19.07	-76.28512491	36.88167724	N/A	01/01/2014	Active	IL56		
7-Eleven	4500	E PRINCESS ANNE ROAD	0.74	0.512	13-0031.1	Private	Manufactured BMP Systems	0.069	-76.234968	36.86739	No	01/02/2014	Active	IL54		
Shorewood Shores Phase I	460	Shorewood Court	3.21	1.53	541.1	Private	Manufactured BMP Systems	0.51	-76.21354701	36.8334448	No	01/09/2014	Active	IL56		
Southside Aquatic Center	1750	CAMPOSTELLA ROAD	10.59	3.05	11-0020.1	Public	Detention Basin	10.59	-76.25966549	36.82316468	Yes	01/09/2014	Active	IL54		
Zoo-Animal Wellness Center	3500	GRANBY STREET	1.47	0.66	566.1	Public	Detention Basin	0.56	-76.278645	36.878791	Yes	01/13/2014	Active	IL56		
Zoo-Animal Wellness Center	3500	GRANBY STREET	1.47	0.66	566.2	Public	Detention Basin	0.19	-76.278645	36.878791	Yes	01/13/2014	Active	IL56		
Zoo-Animal Wellness Center	3500	GRANBY STREET	1.47	0.66	566.3	Public	Detention Basin	0.11	-76.278645	36.878791	Yes	01/13/2014	Active	IL56		
Zoo-Animal Wellness Center	3500	GRANBY STREET	1.47	0.66	566.4	Public	Detention Basin	0.61	-76.278645	36.878791	Yes	01/13/2014	Active	IL56		
Uncle Bob's Self Storage Expansion	1213	E BRAMBLETON AVENUE	2.75	2.75	11-0082.1	Private	Detention Basin	0.46	-76.27513647	36.84859005	Yes	01/16/2014	Active	IL54		
Lake Taylor Hospital additions	1309	KEMPSVILLE ROAD	16.99	17.7	09-0033.1	Private	Manufactured BMP Systems	1.28	-76.20625734	36.86556203	Yes	02/03/2014	Active	IL54		
Lake Taylor Hospital additions	1309	KEMPSVILLE ROAD	16.99	17.7	09-0033.2	Private	Detention Basin	0	-76.206785	36.867278	Yes	02/03/2014	Active	IL56		
RiverStar Homes Bioretention	2123	LUXENBURG AVENUE	1.6	0.7	569	Public	Bioretention Basins	0	-76.267713	36.878981	N/A	02/28/2014	Active	IL56		
USAA Parking Garage	5800	NORTHAMPTON BOULEVARD	4.23	2.48	13-0017.1	Private	Manufactured BMP Systems	0.24	-76.206713	36.876594	Yes	03/03/2014	Active	IL56		
USAA Parking Garage	5800	NORTHAMPTON BOULEVARD	4.23	2.48	13-0017.2	Private	Manufactured BMP Systems	0.24	-76.206611	36.876594	Yes	03/03/2014	Active	IL56		
USAA Parking Garage	5800	NORTHAMPTON BOULEVARD	4.23	2.48	13-0017.3	Private	Manufactured BMP Systems	0.24	-76.206611	36.876594	Yes	03/03/2014	Active	IL56		
USAA Parking Garage	5800	NORTHAMPTON BOULEVARD	4.23	2.48	13-0017.4	Private	Manufactured BMP Systems	0.24	-76.206611	36.876594	Yes	03/03/2014	Active	IL56		
USAA Parking Garage	5800	NORTHAMPTON BOULEVARD	4.23	2.48	13-0017.5	Private	Manufactured BMP Systems	0.24	-76.206611	36.876594	Yes	03/03/2014	Active	IL56		
Norfolk International Airport, General Aviation Terminal Renovation	6101	MILLER STORE ROAD	8.3	4.12	10-0076.1	Private	Manufactured BMP Systems	0.74	-76.19914303	36.88480035	Yes	03/05/2014	Active	CB26		
Norfolk International Airport, General Aviation Terminal Renovation	6101	MILLER STORE ROAD	8.3	4.12	10-0076.2	Private	Manufactured BMP Systems	0.18	-76.19911572	36.88586333	Yes	03/05/2014	Active	CB26		
Norfolk International Airport, General Aviation Terminal Renovation	6101	MILLER STORE ROAD	8.3	4.12	10-0076.3	Private	Manufactured BMP Systems	0.17	-76.19911572	36						

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Fayton-Sutherland Bldg	1674	CHURCH STREET	0.39	0.27	08-0089.2	Private	General Infiltration Practices	0.11	-76.278438	36.863649	Yes	03/28/2014	Active	IL56	
Fayton-Sutherland Bldg	1674	CHURCH STREET	0.39	0.27	08-0089.3	Private	Manufactured BMP Systems	0.28	-76.278442	36.863879	Yes	03/28/2014	Active	IL56	
Cape Henry Filterra	2800	CAPE HENRY AVENUE	0.22	0.22	SCHF.1	Public	Manufactured BMP Systems	0.22	-76.252731	36.860687	No	05/02/2014	Active	IL56	
Promenade Pointe	6217	TIDEWATER DRIVE	5.8	3.52	10-0061.1	Private	Manufactured BMP Systems	0.39	-76.25816345	36.89311886	No	05/14/2014	Active	IL56	
Promenade Pointe	6217	TIDEWATER DRIVE	5.8	3.52	10-0061.2	Private	Manufactured BMP Systems	0.44	-76.25816345	36.89311886	No	05/14/2014	Active	IL56	
Pointe at Pickett Farm	5394	GREENPLAIN ROAD	17.397	8.259	12-0063.1	Private	Retention Basin	5.9	-76.223032	36.861983	Yes	05/30/2014	Active	IL54	
Barraud Park	2540	BARRAUD AVENUE	25.16	2.79	S-07-0086.1	Public	General Infiltration Practices	0.797	-76.266586	36.866003	No	06/12/2014	Active	IL56	
Shirley Avenue Parking Lot	1420	COLONIAL AVENUE	0.79	0.59	13-0049.1	Private	Manufactured BMP Systems	0.17	-76.292603	36.865373	Yes	07/09/2014	Active	IL56	
Shirley Avenue Parking Lot	1420	COLONIAL AVENUE	0.79	0.59	13-0049.2	Private	Manufactured BMP Systems	0.13	-76.292603	36.865373	Yes	07/09/2014	Active	IL56	
Shirley Avenue Parking Lot	1420	COLONIAL AVENUE	0.79	0.59	13-0049.3	Private	Retention Basin	0.36	-76.292603	36.865373	Yes	07/09/2014	Active	IL56	
Mixed Use Building	401	GRANBY STREET	0.36	0.33	12-0082.1	Private	Manufactured BMP Systems	0.15	-76.28991008	36.85134634	Yes	07/25/2014	Active	IL56	
Waterview 5 Lot Subdivision	901	WATERVIEW AVENUE	0.674	0.252	13-0004.1	Private	Grassed Swale	0	-76.298034	36.888903	Yes	08/01/2014	Active	IL56	
71 Unit Multifamily	416	BOUSH STREET	0.42	0.42	12-0083.1	Private	Manufactured BMP Systems	0.35	-76.290393	36.852548	Yes	08/27/2014	Active	IL56	
821 W 26TH ST - Industrial Storage Building	821	W 26TH STREET	0.241	0.1013	12-0006	Private	General Infiltration Practices	0.2244	-76.29627228	36.8744812	Yes	09/10/2014	Active	IL56	
Ocean View Avenue Duplex	1400	W OCEAN VIEW AVENUE	0.149	0.076	13-0040.1	Private	Detention Basin	0.118	-76.29104	36.96725	Yes	09/29/2014	Active	CB26	
Booker T. Washington Field House	1111	PARK AVENUE	0.29	0.13	14-0010.1	School	Grass Channel	0.29	-76.26941275	36.85385877	N/A	10/01/2014	Active	IL54	
Lake Taylor Field House	1384	KEMPSVILLE ROAD	0.67	0.2	14-0009.1	School	Grass Channel	0.3	-76.19924741	36.86855018	N/A	10/01/2014	Active	IL54	
Lake Taylor Field House	1384	KEMPSVILLE ROAD	0.67	0.2	14-0009.2	School	Rooftop (Impervious Surface) Disconnection	0.04	-76.19908905	36.86865421	N/A	10/01/2014	Active	IL54	
Ray and Joan Kroc Center	1341	BALLENTINE BOULEVARD	8.25	3.94	11-0065.1	Private	Retention Basin	3.47	-76.24963929	36.85696184	No	10/23/2014	Active	IL56	
Ray and Joan Kroc Center	1341	BALLENTINE BOULEVARD	8.25	3.94	11-0065.2	Private	General Infiltration Practices	3.47	-76.25034739	36.85792916	No	10/23/2014	Active	IL56	
GE Mobile	4545	PATENT ROAD	9.843	22.1548	10-0045.1	Private	Other SWMF	1.3061	-76.22880936	36.85755531	No	01/01/2015	Active	IL54	
Chrysler Museum Expansion and Renovation	245	W OLNEY ROAD	1.09	0.83	11-0057.1	Private	Manufactured BMP Systems	0.29	-76.292451	36.856921	Yes	01/01/2015	Active	IL56	
Chrysler Museum Expansion and Renovation	245	W OLNEY ROAD	1.09	0.83	11-0057.2	Private	Manufactured BMP Systems	0.38	-76.292451	36.856921	Yes	01/01/2015	Active	IL56	
Element on Ghent	1700	GRANBY STREET	1.46	1.34	13-0000.1	Private	Manufactured BMP Systems	0.16	-76.28595114	36.86471226	Yes	01/01/2015	Active	IL56	
Pretty Lake Greens	3112	PRETTY LAKE AVENUE	0.6993	0.296	13-0057.1	Private	Detention Basin	0.7	-76.20452214	36.92937343	Yes	01/01/2015	Active	CB26	
Pretty Lake Condos	3216	PRETTY LAKE AVENUE	0.43	0.217	13-0089.1	Private	Extended Detention Basin	0.276	-76.203779	36.929312	Yes	01/01/2015	Active	IL57	
Metro Machine Corporation Parking Lot Addition	200	LIGON STREET	18.12	3.53	13-0065.1	Private	Manufactured BMP Systems	0.31	-76.28890445	36.83658154	Yes	01/01/2015	Active	IL53	
Car Storage Lot	3532	WAYCROSS ROAD	0.718	0.373	14-0017	Private	Detention Basin	1.11	-76.22266163	36.89239795	Yes	01/01/2015	Active	CB26	
EA's Daycare	956	BERKLEY AVENUE EX	0.153	0.112	14-0026.1	Private	Permeable Pavement 2	0.164	-76.27448459	36.82819292	No	01/01/2015	Active	IL54	
3350 E. Princess Anne Rd. Walmart-Wawa	3350	E PRINCESS ANNE ROAD	7.45	6.22	13-0074.1	Private	Bioretention Basins	0.6	-76.24479522	36.8631327	Yes	01/01/2015	Active	IL54	
3350 E. Princess Anne Rd. Walmart-Wawa	3350	E PRINCESS ANNE ROAD	7.45	6.22	13-0074.2	Private	Bioretention Basins	0.47	-76.24498834	36.86317562	Yes	01/01/2015	Active	IL53	
Forest Lawn Mausoleum	8100	GRANBY STREET	0.157	0.072	14-0045.1	Public	Detention Basin	0.199	-76.2633235	36.92844161	N/A	01/01/2015	Active	IL57	
Slover Library	235	E PLUME STREET	0.73	0.04	11-0027.1	Public	Manufactured BMP Systems	0.29	-76.29034986	36.84662421	Yes	01/05/2015	Active	IL54	
Ghent Station	952	W 21ST STREET	3.568	3.106	13-0091.1	Private	Manufactured BMP Systems	0.169	-76.29852	36.871913	Yes	08/11/2015	Active	IL56	
Lot 27 8025 Ransom Road	8025	RANSOM ROAD	0.23	0.07	08-0060.1	Private	Bioretention Basins	0.17	-76.19478822	36.92067798	Yes	08/25/2015	Active	CB26	
Grandy Village-Phase V Site Improvements	3133	KIMBALL TERRACE	2.17	0.93	12-0028.1	Public	Extended Detention Basin	1.7	-76.24906266	36.84233324	N/A	09/15/2015	Active	IL54	
Bolling Square Phase 2	1001	BOLLING AVENUE	9.25	5.56	13-0090	Private	Bioretention 1	1.12	-76.29835357	36.89104883	Yes	11/05/2015	Active	IL56	
Glenrock SFR	462	FRIZZELL AVENUE	1.26	0.51	Glenrock SFR.1	Private	Grassed Swale	1.26	-76.20314588	36.84902817	No	11/24/2015	Active	IL54	
BJ's Gas Station	5832	E VIRGINIA BEACH BOULEVARD	0.9	0.73	15-0018.1	Private	Bioretention 1	0.23	-76.20575567	36.85603089	Yes	12/01/2015	Active	IL54	
BJ's Gas Station	5832	E VIRGINIA BEACH BOULEVARD	0.9	0.73	15-0018.2	Private	Other SWMF	0.06	-76.2057208	36.8560071	Yes	12/01/2015	Active	IL54	
Sam's Club	741	E LITTLE CREEK ROAD	14.52	13.5	14-0049.1	Private	Manufactured BMP Systems	2.63	-76.25391039	36.91420745	Yes	12/07/2015	Active	IL56	
Sam's Club	741	E LITTLE CREEK ROAD	14.52	13.5	14-0049.2	Private	Other SWMF	0	-76.25253289	36.91522387	Yes	12/07/2015	Active	IL56	
Bus Transfer Station	434	SAINT PAULS BOULEVARD	4.56	3.84	13-0085.1	Public	Manufactured BMP Systems	0.18	-76.28387393	36.85071399	No	12/22/2015	Active	IL54	
Bus Transfer Station	434	SAINT PAULS BOULEVARD	4.56	3.84	13-0085.2	Public	Manufactured BMP Systems	0.19	-76.28354777	36.85065905	No	12/22/2015	Active	IL54	
Bus Transfer Station	434	SAINT PAULS BOULEVARD	4.56	3.84	13-0085.3	Public	Manufactured BMP Systems	0.11	-76.28354777	36.85065905	No	12/22/2015	Active	IL54	
East Beach Marina	4921	PRETTY LAKE AVENUE	1.68	1.54	12-0036.1	Private	General Infiltration Practices	1.41	-76.18380189	36.92378784	Yes	01/01/2016	Active	CB26	
Street Improvements for Asfari Homes	1262	PALL MALL STREET	1.21	0.44	12-0065.1	Private	Bioretention Basins	1.2	-76.235086	36.892808	No	01/01/2016	Active	CB26	
Partree Apartments	7408	TIDEWATER DRIVE	2.09	0.79	13-0026.1	Private	Manufactured BMP Systems	0.37	-76.255503	36.907618	No	01/01/2016	Active	CB26	
Leigh Hall Assisted Living Building	890	POPLAR HILL DRIVE	1.82	1.142	13-0064.1	Private	Manufactured BMP Systems	1.033	-76.197106	36.854901	Yes	01/01/2016	Active	IL57	
Parktowne Clubhouse	3857	FLOWERFIELD ROAD	1.41	0.63	14-0008.1	Private	Manufactured BMP Systems	0.38	-76.19717	36.916797	No	01/01/2016	Active	CB26	
VA Dermatology and Skin Cancer Center	5630	LOWERY ROAD	0.78	0.61	14-0029.1	Private	Manufactured BMP Systems	0.57	-76.21293058	36.86212838	Yes	01/01/2016	Active	IL54	
Street Improvements for Asfari Homes	1262	PALL MALL STREET	1.21	0.44	12-0065.2	Private	Detention Basin	1.2	-76.235086	36.892808	No	01/01/2016	Active	CB26	
The Ballentine Expansion	7211	GRANBY STREET	2.34	1.24	14-0074.1	Private	Manufactured BMP Systems	0.67	-76.27592494	36.90814106	Yes	01/01/2016	Active	IL56	
Balance Builders	3805	GRANBY STREET	0.26	0.15	12-0033.1	Private	Bioretention Basins	0.15	-76.282233	36.880998	Yes	01/06/2016	Active	IL56	
Ghent Village	225	W PRINCESS ANNE ROAD	7.39	0.19	14-0096.1	Private	Grassed Swale	7.39	-76.28974904	36.86077211	No	01/08/2016	Active	IL54	
Taco Bell	649	N NEWTOWN ROAD	0.78	0.56	14-0086.1	Private	Rooftop (Impervious Surface) Disconnection	0.05	-76.18138654	36.84800655	Yes	01/29/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.1	Private	Extended Detention Basin	0.52	-76.18888382	36.85169898	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.2	Private	Manufactured BMP Systems	0.42	-76.19109061	36.85106967	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.3	Private	Manufactured BMP Systems	0.2	-76.1910151	36.85073853	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.5	Private	Manufactured BMP Systems	0.46	-76.18787478	36.84925038	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.6	Private	Bioretention 2	0.68	-76.18972947	36.84914727	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.7	Private	Bioretention 1	0.73	-76.19024982	36.8492428	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.8	Private	Bioretention 2	0.78	-76.19090428	36.84951753	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.9	Private	Bioretention 2	0.42	-76.19095792	36.84992963	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.10	Private	Bioretention 2	0.48	-76.19111885	36.85034172	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.11	Private	Extended Detention Basin	2.35	-76.19105448	36.85002407	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.12	Private	Extended Detention Basin	2.35	-76.19057938	36.84957572	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.13	Private	Extended Detention Basin	2.35	-76.19123687	36.84987812	Yes	02/10/2016	Active	IL54	
Sentara Leigh Nursing Tower Replacement	830	KEMPSVILLE ROAD	23.87	19.71	11-0077.14	Private	Extended Detention Basin	0.14	-76.2661767	36.85847756	N/A	03/28/2016	Active	IL56	
Bruce's Park Pump Station #152	1220	CARY AVENUE	0.14	0.05	13-0009.1	Public	Dry Swale 1	0.14	-76.24348002	36.92927895	Yes	05/09/2016	Active	CB26	
Dollar General Store	9474	CHESAPEAKE BOULEVARD	1.03	0.73	15-0035.1	Private	Manufactured BMP Systems	0.37	-76.26077046	36.82912623	N/A	08/22/2016	Active	IL54	
Campostella Elementary	1106	CAMPOSTELLA ROAD	18.49	5	14-0073.1	School	Retention Basin	3.12	-76.26077046	36.82912623	N/A	08/22/2016	Active	IL54	
Mixed Use Development Church St.	1402	CHURCH STREET	0.64	0.25	14-0080.1	Private	Detention Basin	0.12	-76.2787128	36.86050826	No	09/27/2016	Active	IL54	
Mixed Use Development Church St.	1402	CHURCH STREET	0.64	0.25	14-0080.2	Private	Detention Basin	0.3	-76.2787128	36.86046206	No	09/27/2016	Active	IL54	
20th Bay Street Subdivision	9612 9620	20TH BAY STREET	1.03	0.5	15-0044.3	Private	Permeable Pavement 1	0.15	-76.19319726	36.93011919	Yes	10/25/2016	Active	CB26	
NRHA Broad Creek Sub.	2800	CARY AVENUE	17.44	9.05	14-0022.1	Private	Dry Swale 1	0.14	-76.19359176	36.93011919	Yes	10/28/2016	Active	IL56	
20th Bay Street Subdivision	9612 9620	20TH BAY STREET	1.03	0.5	15-0044.4	Private	Extended Detention Basin	0.09	-76.19513682	36.858217915	Yes	11/16/2016	Active	CB26	
Bay Disposal Material Recovery Facility	985	DECKERS STREET	0.83	0.05	14										

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.4	Private	Grass Channel	0.09	-76.19395126	36.93011919	Yes	12/16/2016	Active	CB26	
7-Eleven	735	E OCEAN VIEW AVENUE	1.04	0.72	15-0049.1	Private	Manufactured BMP Systems	0.11	-76.24384035	36.9490771	Yes	01/01/2017	Active	CB26	
7-Eleven	735	E OCEAN VIEW AVENUE	1.04	0.72	15-0049.2	Private	Manufactured BMP Systems	0.17	-76.2437277	36.94914049	Yes	01/01/2017	Active	CB26	
7-Eleven	735	E OCEAN VIEW AVENUE	1.04	0.72	15-0049.3	Private	Manufactured BMP Systems	0.44	-76.24340315	36.94882957	Yes	01/01/2017	Active	CB26	
7-Eleven	735	E OCEAN VIEW AVENUE	1.04	0.72	15-0049.4	Private	Other SWMF	0	-76.24360968	36.94873905	Yes	01/01/2017	Active	CB26	
Sewells Point GC Entrance	660	RUTHVEN ROAD	0.28	0.26	S71.1	Public	Detention Basin	0.14	-76.28675998	36.92047165	N/A	01/01/2017	Active	IL57	
Sewells Point GC Entrance	660	RUTHVEN ROAD	0.28	0.26	S71.2	Public	Detention Basin	0.14	-76.28625787	36.92053473	N/A	01/01/2017	Active	IL57	
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.1	Private	Dry Swale 1	1.2	-76.26224567	36.84267071	Yes	01/13/2017	Active	IL54	
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.2	Private	Dry Swale 1	1.44	-76.26088311	36.84234286	Yes	01/13/2017	Active	IL54	
Milton Point at Kimball Terrace Shipyard	2401	KIMBALL TERRACE	14.66	5.53	15-0046.3	Private	Dry Swale 1	0.4	-76.26119961	36.8429257	Yes	01/13/2017	Active	IL54	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.5	Private	Grass Channel	0.1	-76.19395126	36.93011919	Yes	01/24/2017	Active	CB26	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.6	Private	Grass Channel	0.09	-76.19395126	36.93011919	Yes	01/24/2017	Active	CB26	
Norfolk Hotel and Conference Center	120	E MAIN STREET	1.42	1.42	14-0047.1	Private	Manufactured BMP Systems	0.44	-76.29167755	36.84624129	No	02/10/2017	Active	IL54	
Roper Home Parking Lot	127	E 40TH STREET	0.615	0.08	15-0008.1	Private	Permeable Pavement 2	0.12	-76.28037204	36.88308749	Yes	02/22/2017	Active	IL56	
7-11 Colley Avenue	3805	COLLEY AVENUE	0.79	0.63	16-0020.1	Private	Other SWMF	0.79	-76.29494716	36.88058917	N/A	03/01/2017	Active	IL56	
Metro Towing Company, Inc.	5870	CURLEW DRIVE	0.89	0.79	14-0094.1	Private	Permeable Pavement 1	0.3	-76.20362331	36.84203786	Yes	03/20/2017	Active	IL54	
The Banks at Berkeley	701	SOUTH MAIN STREET	2.648	1.477	14-0072.1	Private	Infiltration 2	1.31	-76.28497471	36.83259913	Yes	03/31/2017	Active	IL53	
The Banks at Berkeley	701	SOUTH MAIN STREET	2.648	1.477	14-0072.2	Private	Infiltration 2	1.1	-76.28470649	36.8328086	Yes	03/31/2017	Active	IL53	
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.1	Private	Dry Swale 2	0.14	-76.19814624	36.92965414	Yes	04/19/2017	Active	CB26	
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.2	Private	Dry Swale 2	0.032	-76.19814624	36.92965414	Yes	04/19/2017	Active	CB26	
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.3	Private	Dry Swale 2	0.031	-76.19814624	36.92965414	Yes	04/19/2017	Active	CB26	
17th Bay Street Duplexes	9607	17TH BAY STREET	0.34	0.34	14-0092.4	Private	Rooftop (Impervious Surface) Disconnection	0.02	-76.19814624	36.92965414	Yes	04/19/2017	Active	CB26	
Lots 5-12 Glenroie Ave. 3 SFR	7408	GLENROIE AVENUE	0.63	0.18	16-0016.1	Private	Other SWMF	0.63	-76.29831924	36.91215638	N/A	04/21/2017	Active	IL56	
Norfolk Christian Soccer Field	255	THOLE STREET	2.96	0.25	15-0058.1	Private	Grass Channel	0.8	-76.2726446	36.90469989	Yes	05/12/2017	Active	IL56	
Partrea Site Improvements	701	EASY STREET	0.6	0.36	15-0021.1	Private	Permeable Pavement 1	0.14	-76.25467648	36.90804337	Yes	05/17/2017	Active	IL56	
Lot 25 8033 Ransom Road	8033	RANSOM ROAD	0.23	0.07	08-0062.1	Private	Bioretention Basins	0.15	-76.19486868	36.92095073	Yes	05/23/2017	Active	CB26	
Clairmont Apartments	1050	BERKLEY AVENUE EX	9.29	4.24	15-0006	Private	Retention Basin	8.16	-76.27056588	36.82730399	Yes	05/31/2017	Active	IL54	
Parkdale Channel Improvements	7400	EAST KENMORE DRIVE	2.28	0	15-0011.1	Public	Other SWMF	52.2	-76.26706828	36.91095314	N/A	06/01/2017	Active	IL56	
Larchmont Elementary School	1145	BOLLING AVENUE	20.4	4.9	14-0084.1	School	Retention Basin	7.34	-76.29958947	36.89018058	N/A	06/02/2017	Active	IL56	
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.1	Private	Bioretention Urban	0.13	-76.19268124	36.87493863	Yes	06/28/2017	Active	IL54	
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.2	Private	Permeable Pavement 1	0.13	-76.19274293	36.87499021	Yes	06/28/2017	Active	IL54	
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.3	Private	Grass Channel	0.21	-76.19262223	36.87485063	Yes	06/28/2017	Active	IL54	
Norfolk Academy Football Stadium	1585	WESLEYAN DRIVE	2.7	1.33	15-0059.4	Private	Rooftop (Impervious Surface) Disconnection	0.14	-76.19301383	36.87477781	Yes	06/28/2017	Active	IL54	
LIDL Grocery Store	6440	IN MILITARY HIGHWAY	6.18	4.35	15-0054.1	Private	Extended Detention Pond 1	5.85	-76.22569789	36.90023158	Yes	06/30/2017	Active	CB26	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.2	Private	Grass Channel	0.09	-76.19395126	36.93011919	Yes	08/10/2017	Active	CB26	
1921 Parkview Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.1	Private	Bioretention 2	0.12	-76.22237732	36.93591375	Yes	08/10/2017	Active	CB26	
1921 Parkview Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.2	Private	Bioretention 2	0.11	-76.2225007	36.93597439	Yes	08/10/2017	Active	CB26	
1921 Parkview Avenue	1921	PARKVIEW AVENUE	0.34	0.15	16-0076.3	Private	Bioretention 2	0.11	-76.22265895	36.9360229	Yes	08/10/2017	Active	CB26	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.3	Private	Grass Channel	0.09	-76.19395126	36.93011919	Yes	08/11/2017	Active	CB26	
Jehovah's Witnesses Parking Lot Improvements	959	INGLESDALE ROAD	0.6837	0.3992	14-0057.1	Private	Grassed Swale	0.18	-76.23847325	36.85176649	No	08/15/2017	Active	IL54	
Jehovah's Witnesses Parking Lot Improvements	959	INGLESDALE ROAD	0.6837	0.3992	14-0057.2	Private	Grassed Swale	0.15	-76.23863687	36.85189701	No	08/15/2017	Active	IL54	
Granby Townhomes	3239-3245	GRANBY STREET	0.236	0.137	16-0011.1	Private	Bioretention 1	0.24	-76.28215839	36.87688372	Yes	08/28/2017	Active	IL56	
Ocean View Elementary School	9501	MASON CREEK ROAD	25.8	5.03	14-0085.1	School	Wet Pond 1	5.4	-76.26045932	36.95501876	N/A	08/31/2017	Active	IL57	
JANAF Wawa	1146	IN MILITARY HIGHWAY	1.85	1.62	16-0010.1	Private	Manufactured BMP Systems	1.93	-76.20939542	36.86051958	Yes	09/18/2017	Active	IL54	
JANAF Wawa	1146	IN MILITARY HIGHWAY	1.85	1.62	16-0010.2	Private	Manufactured BMP Systems	1.37	-76.2094437	36.86066526	Yes	09/18/2017	Active	IL54	
JANAF Wawa	1146	IN MILITARY HIGHWAY	1.85	1.62	16-0010.3	Private	Other SWMF	0.5	-76.2097763	36.86103552	Yes	09/18/2017	Active	IL54	
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.1	Private	General Infiltration Practices	0.11	-76.22987275	36.87078454	Yes	09/20/2017	Active	IL54	
New Horizon Outreach Ministries	1575	KERREY AVENUE	0.606	0.323	16-0088.2	Private	Other SWMF	4791	-76.22987275	36.87078454	Yes	09/20/2017	Active	IL54	
Fairmount Park Phase 13B	2966	Lens Avenue	3.87	1.91	15-0010.1	Public	Manufactured BMP Systems	0.34	-76.25742306	36.87144685	N/A	09/21/2017	Active	IL56	
Fairmount Park Phase 13B	2966	Lens Avenue	3.87	1.91	15-0010.2	Public	Manufactured BMP Systems	0.23	-76.25649501	36.8738538	N/A	09/21/2017	Active	IL56	
Fairmount Park Phase 13B	2966	Lens Avenue	3.87	1.91	15-0010.3	Public	Manufactured BMP Systems	0.46	-76.25732248	36.87409504	N/A	09/21/2017	Active	IL56	
Fairmount Park Phase 13B	2966	Lens Avenue	3.87	1.91	15-0010.4	Public	Manufactured BMP Systems	0.41	-76.25661706	36.87387397	N/A	09/21/2017	Active	IL56	
Premium Outlets Boulevard	5992	NORTHAMPTON BOULEVARD	6.36	1.92	15-0043.1	Public	Manufactured BMP Systems	0.73	-76.19316806	36.87763799	N/A	09/25/2017	Active	IL54	
Premium Outlets Boulevard	5992	NORTHAMPTON BOULEVARD	6.36	1.92	15-0043.2	Public	Manufactured BMP Systems	1.19	-76.1949705	36.88041857	N/A	09/25/2017	Active	IL54	
901 Ballentine Boulevard Parking Lot	901	BALLENANTINE BOULEVARD	0.78	0.45	15-0019.1	Private	Bioretention 1	0.1245	-76.24907066	36.85035176	Yes	09/26/2017	Active	IL54	
901 Ballentine Boulevard Parking Lot	901	BALLENANTINE BOULEVARD	0.78	0.45	15-0019.2	Private	Bioretention 1	0.0872	-76.24924232	36.85022298	Yes	09/26/2017	Active	IL54	
901 Ballentine Boulevard Parking Lot	901	BALLENANTINE BOULEVARD	0.78	0.45	15-0019.3	Private	Bioretention 2	0.1669	-76.24870588	36.85030025	Yes	09/26/2017	Active	IL54	
901 Ballentine Boulevard Parking Lot	901	BALLENANTINE BOULEVARD	0.78	0.45	15-0019.4	Private	Bioretention 1	0.2188	-76.24895264	36.85007703	Yes	09/26/2017	Active	IL54	
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.1	Private	Retention Basin	19.38	-76.19788875	36.8832248	No	09/26/2017	Active	CB26	
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.2	Private	Retention Basin	24.4	-76.20199789	36.87950889	Yes	09/26/2017	Active	CB26	
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.3	Private	Retention Basin	4.55	-76.19742741	36.88268416	Yes	09/26/2017	Active	CB26	
Norfolk Premium Outlets	6282	NORTHAMPTON BOULEVARD	49.79	38.84	15-0045.4	Public	Bioretention 2	1.22	-76.20336045	36.88032417	N/A	09/26/2017	Active	CB26	
210 E. 22nd St. - 36 Apts.	210	E 22ND STREET	0.7	0.46	16-0036.1	Private	Other SWMF	0.66	-76.28258754	36.86779634	N/A	09/26/2017	Active	IL56	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.1	Private	Grass Channel	0.08	-76.19395126	36.93011919	Yes	09/27/2017	Active	CB26	
20th Bay Street Subdivision	9612-9626	20TH BAY STREET	1.03	0.5	16-0004.9	Private	Rooftop (Impervious Surface) Disconnection	0.12	-76.19395126	36.93011919	Yes	09/27/2017	Active	CB26	
Herbert St Subdivision	9214	HERBERT STREET	0.68	0.33	Infiltration Basins	Private	Grass Channel	0.34	-76.22960219	36.88278538	No	09/28/2017	Active	IL56	
Oaks at Elmhurst	9820	BEAMON ROAD	1.37	0.57	14-0070.1	Private	Other SWMF	1.44	-76.23189279	36.87983847	No	10/16/2017	Active	IL56	
Oaks at Elmhurst	9820	BEAMON ROAD	1.37	0.57	14-0070.2	Private	Grassed Swale	0.81	-76.23206545	36.8801874	Yes	10/16/2017	Active	IL56	
Lake Whitehurst Boat Ramp & Boarding Pier	4275	HELUITE DRIVE	1.17	0.75	16-0096.1	Public	Other SWMF	0.75	-76.19050461	36.91263921	N/A	10/19/2017	Active	CB26	
450 Rough St. Mixed Use Development	450	BOUSH STREET	0.74	0.74	15-0002.1	Public	Other SWMF	0.75	-76.28028012	36.8527789	No	10/20/2017	Active	IL54	
Tarrallton Park Improvements	2100	TARRALLTON DRIVE	41.6	6.68	07-0031.1	Public	General Infiltration Practices	07.11	-76.22038959	36.92489048	No	11/02/2017	Active	CB26	
Reeves Avenue Substation Improvements	7272	LOVITT AVENUE	1.39	1.39	17-0035.1	Public	General Infiltration Practices	07.11	-76.22038959	36.92489048	No	11/02/2017	Active	CB26	
Villa Marina Apartments	9142	SHORE DRIVE	3.76	1.39	18-0085.1	Private	Other SWMF	1.39	-76.19131046	36.92284317	N/A	11/03/2017	Active	CB26	
Charlway Federal Credit Union	1312	KEMPSVILLE ROAD	1.01	0.64	16-0035.1	Private	Infiltration 1	0.46	-76.18761057	36.84255015	Yes	11/16/2017	Active	IL54	
Charlway Federal Credit Union	1312	KEMPSVILLE ROAD	1.01	0.64	16-0035.2	Private	Infiltration 1	0.46	-76.18761057	36.84255015	Yes	11/16/2017	Active	IL54	
Charlway Federal Credit Union	1312	KEMPSVILLE ROAD	1.01	0.64	16-0035.3	Private	Infiltration 2	0.294	-76.19274545	36.84248908					

ALL ACTIVE SWMF'S - CITY OF NORFOLK														
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC
Church Street Station Studios	2000	CHURCH STREET	2.29	0.96	15-0022.2	Private	Manufactured BMP Systems	0.11	-76.27749135	36.86656736	N/A	12/12/2017	Active	IL56
East Coast Appliance	5671	Raby Road	0.91	0.73	16-0030	Private	Permeable Pavement 1	0.68	-76.21146196	36.86046633	Yes	12/14/2017	Active	IL54
Popular Hall Trail		POPLAR HALL CIRCLE	0.92	0.42	16-0049.1	Public	Other SWMF	0.92	-76.21207227	36.84888221	N/A	12/15/2017	Active	IL54
8011-8015 Woodall Rd Duplex	8011	WOODALL ROAD	0.41	0.213	17-0057.1	Private	Other SWMF	0.43	-76.19803744	36.92053002	N/A	12/19/2017	Active	CB26
2617 Pleasant Ave Duplex	2617	PLEASANT AVENUE	0.23	0.13	17-0036.1	Private	Other SWMF	0.18	-76.20976718	36.93225417	N/A	12/19/2017	Active	CB26
United Disposal Laydown Yard	5835	HARGROVE STREET	0.411	0.324	17-0064.2	Private	Other SWMF	0.411	-76.20514134	36.84398592	N/A	12/19/2017	Active	IL54
Norfolk Courts Rear Access	811	E CITY HALL AVENUE	2.89	2.58	16-0105.1	Public	Infiltration 1	0.087	-76.28462066	36.84639796	No	12/20/2017	Active	IL54
Dunkin Donuts	8410	HAMPTON BOULEVARD	0.33	0.27	15-0051	Private	Bioretention Basins	0.34	-76.31766547	36.9294483	Yes	12/27/2017	Active	IL57
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.39	0.29	16-0063.1	Private	Bioretention Urban	0.05	-76.2918358	36.86845041	Yes	01/10/2018	Active	IL56
Starbucks - The Corner Shops	2000	COLONIAL AVENUE	0.39	0.29	16-0063.2	Private	Permeable Pavement 1	0.01	-76.29189749	36.86854752	Yes	01/10/2018	Active	IL56
9535 6th Bay Duplex	9536	6TH BAY STREET	0.26	0.01	14-0095.1	Private	Rooftop (Impervious Surface) Disconnection	0.17	-76.21147145	36.93121982	No	01/25/2018	Active	CB26
Little Creek Storage	801	W LITTLE CREEK ROAD	1.3	0.99	16-0027.1	Private	Other SWMF	0.215	-76.28927161	36.91589201	Yes	01/31/2018	Active	IL56
Rockefeller Apartments	252	BOUSH STREET	0.23	0.22	16-0019.1	Private	Manufactured BMP Systems	0.2	-76.29207183	36.84929492	Yes	02/07/2018	Active	IL56
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.1	Private	Wet Pond 1	4.32	-76.25038494	36.91189902	Yes	03/05/2018	Active	CB26
CIRS Facility	900	ASBURY AVENUE	3.44	3.35	16-0106.2	Private	Manufactured BMP Systems	4.32	-76.25047614	36.91164426	Yes	03/05/2018	Active	CB26
McCoy Duplex	2040	E OCEAN VIEW AVENUE	0.2663	0.0946	16-0018.1	Private	Infiltration 1	0.1854	-76.21717383	36.93690573	Yes	03/07/2018	Active	CB26
Newtowne South Townhomes	6601	Stoney Point Way	1.9	0.68	06-0036.1	Private	Detention Basin	1.9	-76.18201527	36.85113987	Yes	03/19/2018	Active	IL54
Colonna's Shipyard New Spotico Creek Facility	151	South Main Street	6.74	2.68	15-0062.1	Private	Manufactured BMP Systems	0.7	-76.28139942	36.83855112	Yes	03/21/2018	Active	IL54
Colonna's Shipyard New Spotico Creek Facility	151	South Main Street	6.74	2.68	15-0062.2	Private	Dry Swale 1	5	-76.28303289	36.83714518	Yes	03/21/2018	Active	IL54
Norchester Pump Station No. 116 Replacement	935	NORCHESTER STREET	0.142	0.083	13-0023.1	Public	Grassed Swale	0.024	-76.255296	36.85007	Yes	03/22/2018	Active	IL54
Norchester Pump Station No. 116 Replacement	935	NORCHESTER STREET	0.142	0.083	13-0023.2	Public	Grassed Swale	0.048	-76.25527857	36.84998197	Yes	03/22/2018	Active	IL54
Lafayette Boulevard Streetscape Improvements	2115	LAFAYETTE BOULEVARD	1.51	1	16-0025.1	Public	Manufactured BMP Systems	0.27	-76.26104002	36.87693019	N/A	03/22/2018	Active	IL56
YMCA Gym Addition	312	W BUTE STREET	1.7	1.32	16-0117.1	Private	Manufactured BMP Systems	0.2	-76.2946253	36.85332022	Yes	03/26/2018	Active	IL56
YMCA Gym Addition	312	W BUTE STREET	1.7	1.32	16-0117.2	Private	Manufactured BMP Systems	0.12	-76.29460116	36.85310775	Yes	03/26/2018	Active	IL56
Barraud Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.1	Public	Dry Swale 1	0.15	-76.26450946	36.86468618	N/A	03/26/2018	Active	IL56
Barraud Park Pump Station #153	2509	HANSON AVENUE	0.24	0.07	14-0002.2	Public	Permeable Pavement 1	0.08	-76.26450409	36.86474687	N/A	03/26/2018	Active	IL56
Duel Duplex site plan for DSF Development LLC	1010-1012	LITTLE BAY AVENUE	0.44	0.237	17-0092.1	Private	Other SWMF	0.44	-76.278914	36.966128	Yes	04/16/2018	Active	IL57
Captain's Landing	929	E OCEAN VIEW AVENUE	3.57	2.06	15-0039.1	Private	Infiltration 1	3.59	-76.24116887	36.94701224	Yes	04/23/2018	Active	CB26
7th Bay St. Duplex	9565	7TH BAY STREET	0.17	0.103	17-0083.1	Private	Other SWMF	0.17	-76.2098428	36.93185682	N/A	05/04/2018	Active	CB26
1081 Military Hwy Retail Shops	1081	N MILITARY HIGHWAY	0.825	0.65	15-0031.1	Private	Manufactured BMP Systems	0.2	-76.21097525	36.85842429	Yes	06/07/2018	Active	IL54
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.1	Public	Dry Swale 2	0.57	-76.2558486	36.85802862	N/A	06/13/2018	Active	IL56
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.2	Public	Bioretention 1	0.96	-76.25574936	36.85737304	N/A	06/13/2018	Active	IL56
Broad Creek Library	1425	NORCHESTER AVENUE	2.19	1.03	16-0057.3	Public	Grassed Swale	0.44	-76.25578155	36.85682364	N/A	06/13/2018	Active	IL56
Front Street Apartments	519	FRONT STREET	1.4	0.95	14-0064.1	Private	Manufactured BMP Systems	0.47	-76.30034377	36.85363725	Yes	06/13/2018	Active	IL56
Gethsemane Community Fellowship Baptist Church Bldg Addition	1317	E BRAMBLETON AVENUE	0.27	0.177	12-0064.1	Private	Constructed Stormwater Wetland	0.27	-76.27273053	36.84693559	Yes	07/09/2018	Active	IL54
Food Bank Paving Addition	800	TIDEWATER DRIVE	0.37	0.19	15-0048.1	Private	Bioretention 1	0.15	-76.27386768	36.85224276	Yes	07/19/2018	Active	IL54
Food Bank Paving Addition	800	TIDEWATER DRIVE	0.37	0.19	15-0048.2	Private	Detention Basin	0.29	-76.27372553	36.85218283	Yes	07/19/2018	Active	IL54
General Aviation CFB Facility	6101	BURTON STATION ROAD	1.51	0.63	18-0002.1	Private	Other SWMF	1.51	-76.19853182	36.88637369	N/A	07/30/2018	Active	CB26
Dune Street Wetland	420	DUNE STREET	1.01	0	16-0075.1	Public	Constructed Wetland 1	12.45	-76.25226161	36.93599363	N/A	08/10/2018	Active	IL57
ODU Barry Art Museum	1075	43RD STREET	0.97	0.75	16-0094.1	Private	Bioretention 1	0.2	-76.30185117	36.88317331	Yes	08/15/2018	Active	IL56
ODU Barry Art Museum	1075	43RD STREET	0.97	0.75	16-0094.2	Private	Wet Pond 1	0.44	-76.30181898	36.88284721	Yes	08/15/2018	Active	IL56
3 SFR - 1100 Virginia Ave	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.1	Private	Bioretention 1	0.1605	-76.24036429	36.94448989	Yes	08/20/2018	Active	CB26
3 SFR - 1100 Virginia Ave	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.2	Private	Bioretention 2	0.1278	-76.24036429	36.94448989	Yes	08/20/2018	Active	CB26
3 SFR - 1100 Virginia Ave	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.3	Private	Permeable Pavement 1	0.0248	-76.24036429	36.94448989	Yes	08/20/2018	Active	CB26
3 SFR - 1100 Virginia Ave	1100	VIRGINIA AVENUE	0.34	0.145	17-0043.4	Private	Permeable Pavement 2	0.0373	-76.24036429	36.94448989	Yes	08/20/2018	Active	CB26
Telecommunications Tower	1539	JOHNSTONS ROAD	0.057	0.05	18-0051	Private	Other SWMF	0.057	-76.23164744	36.91011505	No	09/30/2018	Active	CB26
Maker's Craft Brewery	735	E 23RD STREET	1.32	0.78	18-0034.1	Private	Other SWMF	1.32	-76.27857215	36.8682365	N/A	10/12/2018	Active	IL56
Checkered Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.1	Private	Manufactured BMP Systems	0.98	-76.1816292	36.85345186	Yes	10/15/2018	Active	IL54
Checkered Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.2	Private	Manufactured BMP Systems	2.6	-76.18185987	36.8529298	Yes	10/15/2018	Active	IL54
Checkered Flag Honda Expansion	6539	E VIRGINIA BEACH BOULEVARD	4.27	2.26	17-0039.3	Private	Other SWMF	2.6	-76.18203153	36.85337622	Yes	10/15/2018	Active	IL54
Granby St and Bayview Blvd Intersection Improvements	105	W BAYVIEW BOULEVARD	0.13	0.08	18-0031.1	Public	Other SWMF	0.15	-76.26456258	36.93409919	N/A	10/18/2018	Active	IL57
Chenman Project	629	W 24TH STREET	1.01	0.9	18-0036.1	Private	Other SWMF	0.86	-76.29402593	36.87224279	N/A	10/24/2018	Active	IL56
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.1	Private	Bioretention 1	1.11	-76.1833619	36.84958622	Yes	10/29/2018	Active	IL54
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.2	Private	Bioretention 1	1.32	-76.18253042	36.84978655	Yes	10/29/2018	Active	IL54
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.3	Private	Bioretention 1	1.52	-76.183378	36.85140916	Yes	10/29/2018	Active	IL54
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.4	Private	Bioretention 1	1.15	-76.18410756	36.85082537	Yes	10/29/2018	Active	IL54
Woodlawn Memorial Gardens	6309	E VIRGINIA BEACH BOULEVARD	10.73	0.47	15-0038.5	Private	Bioretention 1	1.6	-76.18440797	36.85157228	Yes	10/29/2018	Active	IL54
Sunshine Villas	1218	W OCEAN VIEW AVENUE	0.334	0.3	17-0016.1	Private	Bioretention Basins	0.03	-76.28517588	36.96803587	Yes	11/02/2018	Active	CB26
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.1	Public	Infiltration 1	0.08	-76.24052514	36.94458878	N/A	11/02/2018	Active	CB26
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.2	Public	Infiltration 1	0.11	-76.24068607	36.94469186	N/A	11/02/2018	Active	CB26
Carlton Homes LLC ROW Improvements	1100	VIRGINIA AVENUE	0.34	0.12	15-0001.3	Public	Infiltration 1	0.14	-76.24083091	36.94471914	N/A	11/02/2018	Active	CB26
13th Bay Street Duplex	9538	13TH BAY STREET	0.2	0.11	17-0081.1	Private	Other SWMF	0.2	-76.20293676	36.92936193	N/A	11/06/2018	Active	CB26
Valley Self Storage Additional Buildings	1117	VALLEY DRIVE	0.97	0.84	17-0012.1	Private	Infiltration 1	0.41	-76.21200253	36.86004652	Yes	11/26/2018	Active	IL54
Valley Self Storage Additional Buildings	1117	VALLEY DRIVE	0.97	0.84	17-0012.2	Private	Infiltration 1	0.36	-76.21182014	36.86023469	Yes	11/26/2018	Active	IL54
8802 Chesapeake Blvd - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.2	Private	Bioretention 2	0.06	-76.24423866	36.93710649	Yes	11/27/2018	Active	IL57
V8 Blvd Improvements at Newtown Rd	6502	E VIRGINIA BEACH BOULEVARD	1.57	1.4	18-0010.3	Public	Other SWMF	1.57	-76.18089942	36.85462184	N/A	12/12/2018	Active	IL54
Mt Gilead Church parking addition	1057	Kennedy Street	0.8	0.61	18-0032.3	Public	Other SWMF	0.8	-76.24051571	36.9398443	Yes	12/14/2018	Active	IL56
Dollar General	3350	CHESAPEAKE BOULEVARD	0.93	0.66	18-0059.1	Private	Other SWMF	0.93	-76.24961655	36.87822793	N/A	12/18/2018	Active	IL56
Retreat at Harbor Pointe	550	CAMPOSTELLA ROAD	0.52	0.73	18-0000.1	Private	Other SWMF	0.52	-76.26300222	36.83743003	N/A	12/21/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.3	Private	Other SWMF	0.18	-76.21570047	36.85654862	Yes	12/27/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.4	Private	Detention Basin	1.78	-76.21508893	36.85711243	Yes	12/28/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.5	Private	Detention Basin	0.87	-76.2156361	36.85645078	Yes	12/28/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.6	Private	Detention Basin	0.87	-76.22051242	36.85651728	Yes	12/28/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.7	Private	Detention Basin	1.37	-76.22051242	36.85651725	Yes	12/28/2018	Active	IL54
Royal Farms	5516	RABY ROAD	3.216	2.08	16-0115.8	Private	Detention Basin	1.57	-76.22051242	36.85651725	Yes	12/28/2018	Active	IL54
Global Friendship House	1241	43RD STREET	0.577	0.333	11-0074.1	Private	Detention Basin	0.577	-76.30478002	36.88308777	No	01/28/2019	Active	IL54
River Tower														

ALL ACTIVE SWMF'S - CITY OF NORFOLK															
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC	
Rock Gym	7405	SEWELLS POINT ROAD	1.02	0.72	18-0077.1	Private	Other SWMF	1.02	-76.24621143	36.91012329	N/A	02/08/2019	Active	IL56	
2607 Colonial Ave.	2607	COLONIAL AVENUE	1.3738	1.132	17-0052.1	Private	Other SWMF	1.2	-76.29041669	36.87369305	Yes	02/11/2019	Active	IL56	
2607 Colonial Ave.	2607	COLONIAL AVENUE	1.3738	1.132	17-0052.2	Private	Other SWMF	0.37	-76.29041669	36.87369305	N/A	02/11/2019	Active	IL56	
8802 Chesapeake Blvd. - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.3	Private	Bioretention 2	0.06	-76.24407236	36.93713074	Yes	02/13/2019	Active	IL57	
Harbor Park Picnic Area	150	PARK AVENUE	0.3	0.22	16-0065.1	Public	Manufactured BMP Systems	0.46	-76.27753158	36.84278267	Yes	02/14/2019	Active	IL54	
8802 Chesapeake Blvd. - 3 SFR	8802	CHESAPEAKE BOULEVARD	0.43	0.13	17-0072.1	Private	Bioretention 2	0.06	-76.2445337	36.93708223	Yes	03/14/2019	Active	IL57	
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.1	Private	Permeable Pavement 1	0.06	-76.28507127	36.85220427	Yes	04/02/2019	Active	IL56	
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.2	Private	Permeable Pavement 1	0.05	-76.28424515	36.8523079	Yes	04/02/2019	Active	IL56	
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.3	Private	Infiltration 1	1.99	-76.28415395	36.85201652	Yes	04/02/2019	Active	IL56	
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.4	Private	Infiltration 1	1.14	-76.28292014	36.85195642	Yes	04/02/2019	Active	IL56	
St. Paul's Apartments	494	SAINT PAULS BOULEVARD	5.07	3.9	16-0098.5	Private	Other SWMF	5.52	-76.283242	36.8518534	Yes	04/02/2019	Active	IL56	
IKEA	6000	NORTHAMPTON BOULEVARD	18.871	15.41	17-0014.1	Private	Infiltration 2	5.22	-76.20190133	36.87536368	Yes	04/04/2019	Active	CB26	
IKEA	6000	NORTHAMPTON BOULEVARD	18.871	15.41	17-0014.2	Private	Infiltration 2	10.82	-76.20089282	36.87589579	Yes	04/04/2019	Active	CB26	
North Shore Gardens Fitness Center	1400	MEADS ROAD	0.37	0.345	18-0003.1	Private	Permeable Pavement 1	0.02	-76.29849929	36.91799025	Yes	04/08/2019	Active	IL57	
North Shore Gardens Fitness Center	1400	MEADS ROAD	0.37	0.345	18-0003.2	Private	Permeable Pavement 1	0.05	-76.29829935	36.91805643	Yes	04/08/2019	Active	IL57	
North Shore Gardens Fitness Center	1400	MEADS ROAD	0.37	0.345	18-0003.3	Private	Other SWMF	0.6	-76.2983736	36.91813576	N/A	04/08/2019	Active	IL57	
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.4	Private	Other SWMF	0	761406.4	365156.5	Yes	04/12/2019	Active	IL54	
Arts Apartments	123	W VIRGINIA BEACH BOULEVARD	0.676	0.56	16-0052.1	Private	Detention Basin	0.2015	-76.28902485	36.85715967	Yes	04/15/2019	Active	IL56	
2714-2718 Pleasant Ave Duplex	2714	PLEASANT AVENUE	0.2	0.11	17-0015.1	Private	Infiltration 2	0.15	-76.20836546	36.93212635	Yes	04/18/2019	Active	CB26	
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.1	Private	Bioretention Urban	0.12	-76.20222454	36.92936079	Yes	04/22/2019	Active	CB26	
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.2	Private	Bioretention Basins	0.03	-76.20220174	36.92936254	Yes	04/22/2019	Active	CB26	
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.3	Private	Bioretention Urban	0.03	-76.20216955	36.92938827	Yes	04/22/2019	Active	CB26	
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.3	Private	Bioretention Urban	0.03	-76.20216955	36.92938827	Yes	04/22/2019	Active	CB26	
14th Bay Street Residential	9547 9553	14th Bay Street	0.373	0.242	16-0037.4	Private	Bioretention Urban	0.03	-76.20230903	36.92938507	Yes	04/22/2019	Active	CB26	
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.3	Private	Other SWMF	0	761406.4	365156.5	Yes	04/23/2019	Active	IL54	
1424, 1426, & 1428 W Ocean View Ave.	1426	W OCEAN VIEW AVENUE	0.82	0.33	16-0102.1	Private	Infiltration 1	0.38	-76.29216571	36.96733302	Yes	05/01/2019	Active	CB26	
20 Rivanna Building Canopy & Drive Aisle	6315	NORTH CENTER DRIVE	0.18	0.124	18-0066.1	Private	Permeable Pavement 1	0.08	-76.19033545	36.84755361	Yes	05/02/2019	Active	IL54	
1855 Kingston Ave. Duplex	1855	KINGSTON AVENUE	0.168	0.0804	16-0097.1	Private	Infiltration 2	0.12	-76.22401871	36.93759918	Yes	06/07/2019	Active	CB26	
1855 Kingston Ave. Duplex	1855	KINGSTON AVENUE	0.168	0.0804	16-0097.2	Private	Infiltration 1	0.05	-76.22414644	36.93728732	Yes	06/07/2019	Active	CB26	
WNOR Tower Replacement	600	E INDIAN RIVER ROAD	6.67	0.06	19-0006.1	Private	Other SWMF	0	-76.26926	36.83396	Yes	06/07/2019	Active	IL54	
3 SFR Columbia Avenue	1636	COLUMBIA AVENUE	0.35	0.155	17-0068.3	Private	Detention Basin	0.115	-76.26572838	36.88172631	Yes	06/14/2019	Active	IL56	
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.2	Private	Grass Channel	0.33	-76.19241704	36.91891579	Yes	08/15/2019	Active	CB26	
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.3	Private	Grass Channel	0.27	-76.19241704	36.91891579	Yes	08/15/2019	Active	CB26	
3 SFR Columbia Avenue	1636	COLUMBIA AVENUE	0.35	0.155	17-0068.2	Private	Detention Basin	0.117	-76.26591265	36.88166827	Yes	08/15/2019	Active	IL56	
Coastal Villas by the Bay	7922	SHORE DRIVE	1.65	1.18	15-0025.1	Private	Bioretention 2	0.77	-76.19241704	36.91891579	Yes	08/19/2019	Active	CB26	
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.1	Private	Bioretention 2	0.14	-76.24181217	36.94668646	Yes	09/17/2019	Active	CB26	
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.2	Private	Bioretention 2	0.12	-76.24172022	36.94654792	Yes	09/17/2019	Active	CB26	
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.3	Private	Bioretention 2	0.12	-76.24173811	36.94639201	Yes	09/17/2019	Active	CB26	
941 Hillside Ave Subdivision	941	HILLSIDE AVENUE	0.59	0.27	18-0014.4	Private	Bioretention 2	0.14	-76.24180198	36.94626207	Yes	09/17/2019	Active	CB26	
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.1	Private	Bioretention 2	0.1	-76.22663226	36.93986306	Yes	10/10/2019	Active	CB26	
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.2	Private	Detention Basin	0.23	-76.22655423	36.93987253	Yes	10/10/2019	Active	CB26	
1718 EOV Duplex	1718	E OCEAN VIEW AVENUE	0.23	0.11	18-0009.3	Private	Other SWMF	0.1	-76.22647621	36.94007233	N/A	10/10/2019	Active	CB26	
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.1	Private	Manufactured BMP Systems	1.03	761406.4	365156.5	Yes	10/15/2019	Active	IL54	
4535 E Princess Anne Road-Tidewater Tech parking expansion	4535	E PRINCESS ANNE ROAD	3.36	2.86	18-0104.2	Private	Manufactured BMP Systems	0	761406.4	365156.5	Yes	10/15/2019	Active	IL54	
2330 Bowdens Ferry Road-IP Configuration	2330	BOWDENS FERRY ROAD	4.47	2.12	19-0035.1	Private	Other SWMF	0	-76.30447	36.87554	Yes	11/08/2019	Active	IL56	
Christ & St Luke's Episcopal Church-Outdoor Improvements	560	W OLNEY ROAD	0.52	0.26	18-0095.2	Private	Other SWMF	0	76.175173	36.513635	Yes	11/22/2019	Active	IL54	
4013 Colley Mixed Use	4013	COLLEY AVENUE	0.39	0.25	16-0109.1	Private	Permeable Pavement 1	0.19	-76.29525375	36.88200088	Yes	11/25/2019	Active	IL56	
4013 Colley Mixed Use	4013	COLLEY AVENUE	0.39	0.25	16-0109.2	Private	Other SWMF	0.39	-76.29525375	36.88200088	Yes	11/25/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.1	Private	Permeable Pavement 2	0	12125167.22	3480688.479	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.2	Private	Permeable Pavement 2	0	12125230.08	3480654.816	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.3	Private	Permeable Pavement 1	0.01	12125172.65	3480640.661	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.4	Private	Permeable Pavement 1	0.02	12125172.65	3480640.661	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.5	Private	Permeable Pavement 1	0.03	12125172.65	3480640.661	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.6	Private	Permeable Pavement 2	0.11	-76.30414	36.8621	Yes	12/03/2019	Active	IL56	
Sentara Norfolk parking expansion	600	GRESHAM DRIVE	24.98	0.51	18-0076.7	Private	Permeable Pavement 2	0.32	-76.30414	36.8621	Yes	12/03/2019	Active	IL56	
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.1	Private	RoofTop (Impervious Surface) Disconnection	0.07	-76.26477424	36.94782749	Yes	12/10/2019	Active	IL57	
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.2	Private	RoofTop (Impervious Surface) Disconnection	0.07	-76.26462871	36.94788789	Yes	12/10/2019	Active	IL57	
1st View St. - 3 SFR	9225	1ST VIEW STREET	0.432	0.162	17-0028.3	Private	RoofTop (Impervious Surface) Disconnection	0.07	-76.26451117	36.94795719	Yes	12/10/2019	Active	IL57	
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.1	Private	Detention Basin	0.83	-76.18052413	36.8489149	Yes	12/11/2019	Active	IL54	
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.2	Private	Manufactured BMP Systems	0.19	-76.18037392	36.84912738	Yes	12/11/2019	Active	IL54	
Wawa at Newtown	701	N NEWTOWN ROAD	2.58	2.03	18-0008.3	Private	Other SWMF	2.58	-76.18064751	36.84918022	N/A	12/11/2019	Active	IL54	
VAMAC	5846	CURLEW DRIVE	0.625	0.38	18-0039.1	Private	Dry Swale 2	0.33	-76.20472838	36.84200121	Yes	12/11/2019	Active	IL54	
1050 N Military HWY-Aldi	1050	N MILITARY HIGHWAY	2.25	1.66	18-0092.1	Private	Other SWMF	1.1	-76.1234	36.513	Yes	12/16/2019	Active	IL56	
Coastal Services	805	FORD DRIVE	1.4	1.23	17-0056.1	Private	RoofTop (Impervious Surface) Disconnection	0.19	-76.25318017	36.83234789	Yes	01/06/2020	Active	IL54	
West 38th Street Apartments	1045	38TH STREET	2.21	1.72	19-0071.2	Private	Other SWMF	0	1212629.2	3487089.38	Yes	03/03/2020	Active	IL56	
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.1	Private	Permeable Pavement 1	0.57	-76.19143921	36.92287748	Yes	06/01/2020	Active	CB26	
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.2	Private	Permeable Pavement 1	0.16	-76.19124609	36.92241431	Yes	06/01/2020	Active	CB26	
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.3	Private	Permeable Pavement 1	0.26	-76.19131046	36.92284317	Yes	06/01/2020	Active	CB26	
Villa Marina Apartments	8142	SHORE DRIVE	3.76	2.63	18-0085.4	Private	Manufactured BMP Systems	0.26	-76.19131046	36.92284317	Yes	06/01/2020	Active	CB26	
Priority Ford	3340	N MILITARY HIGHWAY	5.71	5.2	18-0013.1	Private	Manufactured BMP Systems	2.58	-76.21688092	36.88742892	Yes	06/01/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.1	Private	RoofTop (Impervious Surface) Disconnection	0.05	12143077.56	3510524.65	Yes	06/08/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.2	Private	RoofTop (Impervious Surface) Disconnection	0.05	12143077.56	3510524.65	Yes	06/08/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.3	Private	RoofTop (Impervious Surface) Disconnection	0.05	12143044.96	3510527.44	Yes	06/08/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.4	Private	RoofTop (Impervious Surface) Disconnection	0.05	12143009.16	3510516.89	Yes	06/08/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.5	Private	RoofTop (Impervious Surface) Disconnection	0.05	12142997.17	3510520.43	Yes	06/08/2020	Active	CB26	
1101 E Leicester Avenue-3 lot SF subdivision	1101	E LEICESTER AVENUE	0.85	0.18	18-0029.6	Private									

ALL ACTIVE SWMF'S - CITY OF NORFOLK														
Site Title	Street Number	Street Name	Total Site Area	Total Impervious Area	SWMF ID	Ownership Type	SWMF Type	Contributing Drainage Area	Long	Lat	SWMF Maintenance Agreement	Date Online	Status	HUC
Poplar Hall & Va Beach Blvd Sidewalk Improvments		Virginia Beach Blvd	0.34	0.24	20-0043.1	Public	Credit Offset	0.00	-76.20468695	36.85571331	N/A	9/1/2020	Active	IL54
Poplar Hall & Va Beach Blvd Sidewalk Improvments		Poplar Hall Drive	0.34	0.24	20-0043.2	Public	Credit Offset	0.00	-76.20280504	36.85437809	N/A	9/1/2020	Active	IL54
Restaurant at Bay Point Marina		9500 30th Bay Street	1.52	1.24	19-0016.1	Private	Manufactured BMP Systems	0.77	-76.1812449	36.92370418	Yes	9/8/2020	Active	CB26
Lyon Shipyard Building Addition		1818 BROWN AVENUE	0.95	0.95	18-0064.1	Private	Manufactured Treatment Device	0.30	-76.27141403	36.84205624	Yes	9/9/2020	Active	IL54
9 Lot Townhouse Subdivision		8210 Tidewater Drive	1.23	0.53	11-0073.1	Private	Infiltration	0.53	-76.20150757	36.86967719	Yes	9/10/2020	Active	IL57
Lake Taylor Middle School-Parking Lot & Access Dr		1380 Kempville Road	2.98	2.47	20-0029.1	Public	Credit Purchase	0.00	-76.28727653	36.86033306	Yes	9/10/2020	Active	IL54
Frank Spicer Building Parking Lot		119 E Princess Anne Road	0.44	0.37	20-0026.3	Private	Credit Purchase	0.00	-76.21208521	36.83879315	Yes	11/17/2020	Active	IL56
VIRGINIA EYE CONSULTANTS		200 Corporate Blvd	5.19	3.49	20-0075.5	Private	Credit Purchase	0.00	-76.2116927	36.87428575	Yes	11/17/2020	Active	IL54
Continuous Flow Intersection		1469 N MILITARY HIGHWAY	31.05	24.96	572.1	Public	Extended Detention Basin	14.48	-76.19374536	36.87819621	N/A	12/15/2020	Active	CB26
Apple Retail Properties		6290 NORTHAMPTON BOULEVARD	8.10	5.99	17-0030.1	Private	Wet Pond 1	7.88	-76.18975959	36.85301155	Yes	12/17/2020	Active	CB26
Kempsville Behavioral Health Additions		860 KEMPVILLE ROAD	0.93	0.37	18-0049.2	Private	Detention Basin	0.10	-76.18975959	36.85301155	Yes	1/7/2021	Active	IL54
Kempsville Behavioral Health Additions		860 KEMPVILLE ROAD	0.93	0.37	18-0049.1	Private	Bioretention 2	0.46	-76.24554454	36.94893666	Yes	1/7/2021	Active	IL54
Pinewell Station Apartments		719 E OCEAN VIEW AVENUE	6.72	3.50	18-0019.1	Private	Manufactured Treatment Device	1.59	-76.24526808	36.94886077	Yes	1/8/2021	Active	CB26
Pinewell Station Apartments		719 E OCEAN VIEW AVENUE	6.72	3.50	18-0019.2	Private	Credit Purchase	0.00	-76.19161605	36.85434966	N/A	1/8/2021	Active	CB26
Sentara Leigh Cancer Center		6241 E VIRGINIA BEACH BOULEVARD	7.45	6.26	17-0044.1	Private	Manufactured Treatment Device	1.46	-76.19161605	36.85434966	Yes	1/13/2021	Active	IL54
Sentara Leigh Cancer Center		6241 E VIRGINIA BEACH BOULEVARD	7.45	6.26	17-0044.2	Private	Manufactured Treatment Device	2.51	-76.24862119	36.85735946	Yes	1/13/2021	Active	IL54
Combined Operations Facility Improvements		1316 BALLENTINE BOULEVARD	1.04	0.89	19-0001.1	Public	Manufactured Treatment Device	0.03	-76.18864038	36.92535293	Yes	1/15/2021	Active	IL56
Pretty Lake Apartments & Yacht Club		4521-4621 Pretty Lake Ave	6.96	3.28	18-0043.6	Private	Credit Purchase	0.00	-76.18850232	36.92534821	Yes	1/20/2021	Active	CB26
OASIS WATERLINE		4521 and 4621 Pretty Lake Ave	0.07	0.06	20-0078.1	Private	Credit Purchase	0.00	-76.25582379	36.90995563	N/A	1/20/2021	Active	CB26
Green Clean		7442 Tidewater Drive	1.36	0.91	20-0059.1	Private	Credit Purchase	0.00	-76.20600043	36.93097094	Yes	1/27/2021	Active	IL56
9560 10th Bay St-Duplex		9560 10TH BAY STREET	0.19	0.09	18-0025.1	Private	Infiltration 1	0.07	-76.27476848	36.83585324	No	2/11/2021	Active	CB26
Building 7 Expansion at Colonna's Shipyard		400 E. Indian River Road	0.86	0.49	20-0084.1	Private	Credit Purchase	0.00	-76.23831707	36.86510569	Yes	2/16/2021	Active	IL53
ARTFX Building Addition		3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.3	Private	Bioretention 1	1.48	-76.23823894	36.86512891	Yes	2/18/2021	Active	IL54
ARTFX Building Addition		3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.2	Private	Wet Swale 1	1.01	-76.23823894	36.86512891	Yes	2/18/2021	Active	IL54
ARTFX Building Addition		3801 E PRINCESS ANNE ROAD	6.84	5.45	17-0073.1	Private	Bioretention 1	3.12	-76.20209335	36.87276562	Yes	2/18/2021	Active	IL54
Moore's Bridges WTP Chemical Feed System		6040 WATER WORKS ROAD	36.89	5.34	17-0090.2	Public	Detention Basin	5.00	-76.20195378	36.87279396	N/A	3/4/2021	Active	CB26
Moore's Bridges WTP Chemical Feed System		6040 WATER WORKS ROAD	36.89	5.34	17-0090.1	Public	Manufactured Treatment Device	5.00	-76.19316614	36.87351961	N/A	3/4/2021	Active	CB26
Norfolk Academy Football Field		1585 WESLEYAN DRIVE	4.16	2.30	15-0044.1	Private	Permeable Pavement 1	2.30	-76.19316614	36.87351961	Yes	3/11/2021	Active	IL54
Norfolk Academy Football Field		1585 WESLEYAN DRIVE	4.16	2.30	15-0044.2	Private	Infiltration 1	2.30	-76.24302579	36.92916818	Yes	3/11/2021	Active	IL54
Sunset Dr. at Chesapeake Blvd Drainage		1011 SUNSET DRIVE	2.25	2.25	16-0048.1	Public	Manufactured Treatment Device	2.25	-76.30013638	36.87929696	N/A	4/6/2021	Active	CB26
WEST 38TH STREET APARTMENTS CIVIL SITE PLANS		1045 38TH STREET	2.49	1.51	21-0092.2	Private	Credit Purchase	0.00	-76.27581311	36.96661394	Yes	4/6/2021	Active	IL56
1009 W. Ocean View Duplex		1009 W OCEAN VIEW AVENUE	0.17	0.11	17-0076.1	Private	Infiltration Practices	0.09	-76.19792471	36.92841649	Yes	4/7/2021	Active	IL57
1009 W. Ocean View Duplex		1009 W OCEAN VIEW AVENUE	0.17	0.11	17-0076.2	Private	Infiltration Practices	0.09	-76.30232548	36.85934195	Yes	4/7/2021	Active	IL57
9542 17th Bay Street Lots 13 & 14		2542 17th Bay Street	0.20	0.18	20-0085.4	Private	Credit Purchase	0.00	-76.27932969	36.86614622	Yes	4/7/2021	Active	CB26
EYMS Ed. & Admin. Bldg		315 COLLEY AVENUE	2.39	1.54	18-0006.1	Private	Bioretention 1	0.54	-76.19368112	36.87353878	Yes	4/8/2021	Active	IL56
1855 CHURCH STREET MIXED USE DEVELOPMENT		1855 Church Street	0.39	0.34	20-0069.1	Private	Credit Purchase	0.00	-76.19310981	36.87244181	N/A	4/12/2021	Active	IL56
Norfolk Academy Leadership Center		1585 WESLEYAN DRIVE	0.75	0.44	15-0052.1	Private	Bioretention- Urban	0.23	-76.19310981	36.87244181	Yes	4/13/2021	Active	IL54
Norfolk Academy Lower School Addition		1585 WESLEYAN DRIVE	2.60	1.37	16-0031.1	Private	Bioretention- Urban	0.19	-76.19303471	36.87194416	Yes	4/13/2021	Active	IL54
Norfolk Academy Lower School Addition		1585 WESLEYAN DRIVE	2.60	1.37	16-0031.2	Private	Rooftop or Impervious Surface Disconnect	0.20	-76.1932171	36.87184706	Yes	4/13/2021	Active	IL54
Norfolk Academy Lower School Addition		1585 WESLEYAN DRIVE	2.60	1.37	16-0031.3	Private	Bioretention 1	0.48	-76.19368381	36.87312802	Yes	4/13/2021	Active	IL54
Norfolk Academy Lower School Addition		1585 WESLEYAN DRIVE	2.60	1.37	16-0031.4	Private	Dry Swale 1	0.23	-76.19416392	36.87264070	Yes	4/13/2021	Active	IL54
Norfolk Academy Refectory		1585 WESLEYAN DRIVE	0.25	0.14	16-0033.1	Private	Rooftop or Impervious Surface Disconnect	0.07	-76.24258174	36.90565817	Yes	4/13/2021	Active	IL54
Norfolk Academy STEAM Addition		1585 Wesleyan Drive	0.07	0.02	16-0078.1	Private	Rooftop or Impervious Surface Disconnect	0.02	-76.24252039	36.90558659	Yes	4/15/2021	Active	IL54
Mt Gilead Church parking addition		1057 Kennedy Street	0.80	0.61	18-0032.3	Private	Manufactured Treatment Device	0.80	-76.21802123	36.91398395	Yes	5/3/2021	Active	IL56
Mt Gilead Church parking addition		1057 Kennedy Street	0.80	0.61	18-0032.2	Private	Manufactured Treatment Device	0.80	-76.21820152	36.91453121	Yes	5/3/2021	Active	IL56
Grandy Village Phase VI		619 WILEY DRIVE	12.69	5.26	16-0034.1	Public	Wet Pond	7.71	-76.21819989	36.91450638	N/A	5/10/2021	Active	IL54
Norfolk Botanical Garden- NATO Tower Renovations		6700 Azalea Garden Road	0.81	0.21	17-0053.1	Public	Permeable Pavement	0.45	-76.21778468	36.91442308	N/A	5/11/2021	Active	CB26
847-925 Ingleside Road Stormwater Retrofits		847-925 INGLESIDE ROAD	0.80	0.00	18-0101.1	Private	Compost Amendment	0.87	-76.24796319	36.84134504	No	5/11/2021	Active	IL54
847-925 Ingleside Road Stormwater Retrofits		847-925 INGLESIDE ROAD	0.80	0.00	18-0101.2	Public	Other Retrofit- Runoff Reduction	0.87	-76.19848042	36.90345288	N/A	5/11/2021	Active	IL54
847-925 Ingleside Road Stormwater Retrofits		847-925 INGLESIDE ROAD	0.80	0.00	18-0101.4	Public	Other Retrofit- Runoff Reduction	0.87	-76.23516495	36.84642762	No	5/11/2021	Active	IL54
847-925 Ingleside Road Stormwater Retrofits		847-925 INGLESIDE ROAD	0.80	0.00	18-0101.3	Public	Vegetated Filter Strip	0.87	-76.23470402	36.84681317	No	5/11/2021	Active	IL54
5th-7th Bay Redevelopment		2512 Pleasant Ave	11.16	5.71	16-0013.3	Private	Infiltration 2	1.56	-76.23470402	36.84681317	Yes	5/12/2021	Active	CB26
5th-7th Bay Redevelopment		2512 Pleasant Ave	11.16	5.71	16-0013.4	Private	Infiltration 2	1.21	-76.23470402	36.84681317	Yes	5/12/2021	Active	CB26
Parker Ave. Drainage Improvements		1455 38TH STREET	2.88	2.02	18-0073.1	Public	Manufactured Treatment Device	2.88	-76.21067023	36.93325662	N/A	5/13/2021	Active	IL56
Woodland Avenue Baptist Church		2736 Woodland Ave	0.43	0.28	12-0048.1	Private	Infiltration	0.15	-76.2107294	36.93307166	No	5/14/2021	Active	IL54
5th-7th Bay Redevelopment		2512 Pleasant Ave	11.16	5.71	16-0013.2	Private	Infiltration 2	1.58	-76.30980287	36.87922885	Yes	5/14/2021	Active	CB26
5th-7th Bay Redevelopment		2512 Pleasant Ave	11.16	5.71	16-0013.5	Private	Infiltration 2	0.66	-76.21139442	36.93327481	Yes	5/14/2021	Active	CB26
5th-7th Bay Redevelopment		2512 Pleasant Ave	11.16	5.71	16-0013.6	Private	Manufactured Treatment Device	1.36	-76.20957052	36.93401159	Yes	5/14/2021	Active	CB26
BAYLOR PARKING		118 W 26th Street	1.08	1.00	18-0093.1	Private	Manufactured Treatment Device	0.21	-76.21129787	36.93366594	Yes	5/14/2021	Active	IL56
SHOREWOOD COVE- BUILDING ADDITION		295 Corporate Blvd	7.03	0.02	20-0018.1	Public	Infiltration Practices	0.61	-76.28475397	36.87108524	Yes	5/17/2021	Active	IL56
THE FUSION MULTI-FAMILY DEVELOPMENT		225 W Olney Road	2.19	2.08	21-0005.3	Private	Credit Purchase	0.00	-76.21205093	36.83407056	Yes	5/19/2021	Active	IL56
1400 Sewells Point Rd- Site Improvement		1400 Sewells Point Road	8.27	5.84	20-0037.1	Private	Manufactured Treatment Device	2.94	-76.29176165	36.85593901	Yes	6/8/2021	Active	IL54
1400 Sewells Point Rd- Site Improvement		1400 Sewells Point Road	8.27	5.84	20-0037.2	Private	Manufactured Treatment Device	1.58	-76.22750972	36.86811784	Yes	6/8/2021	Active	IL54
1400 Sewells Point Rd- Site Improvement		1400 Sewells Point	8.27	5.84	20-0037.3	Private	Manufactured Treatment Device	2.91	-76.22736655	36.86784903	Yes	6/8/2021	Active	IL54
1400 Sewells Point Rd- Site Improvement		1400 Sewells Point Road	8.27	5.84	20-0037.4	Private	Manufactured Treatment Device	1.61	-76.22801598	36.86820885	Yes	6/8/2021	Active	IL54
814 Brennan Ave-5 lot subdivision		814 BRENNAN AVENUE	0.63	0.20	16-0091.5	Private	Bioretention- Micro 1	0.09	-76.22825151	36.86802553	Yes	6/16/2021	Active	IL56
814 Brennan Ave-5 lot subdivision		814 BRENNAN AVENUE	0.63	0.20	16-0091.4	Private	Bioretention- Micro 1	0.08	-76.22876541	36.84341281	Yes	6/16/2021	Active	IL56
1039 W 25th Street Warehouse		1039 W 25th Street	0.31	0.29	21-0015.5	Private	Credit Purchase	0.00	-76.22875977	36.84340316	Yes	6/18/2021	Active	IL56
Colonna's Shipyard Shafting Workshop		465 E. Indian River Road	1.15	1.07	21-0028.1	Private	Credit Purchase	0.00	-76.30055468	36.8747808	Yes	6/29/2021	Active	IL54

FY2021 Updated Number of Acres Served and Treated by the MS4

Acres Served by MS4 per HUC				
HUC	Impervious	Pervious	Total	
JL56	5468.48	4914.13	10382.61	
JL54	3730.24	3105.52	6835.76	
JL53	207.36	80.93	288.29	
CB26	2904.81	3731.26	6636.07	
JL57	1088.72	1501.04	2589.76	
Acres Served by MS4 per Chesapeake Bay Segment				
Segmentshed	Impervious	Pervious	Total	
SBEMH	192.27	67.86	260.13	
CB8PH	3074.47	3933.62	7008.09	
EBEMH	3965.76	3289.52	7255.28	
ELIPH	1565.00	701.82	2266.82	
LAFMH	3669.52	4061.21	7730.73	
JMSPH	933.18	1279.04	2212.22	
Acres Served by MS4 per Local Watershed				
Watershed	Impervious	Pervious	Total	
Lafayette River	3924.09	4227.72	8151.80	
Mason Creek and Willoughby Bay	1161.29	1564.37	2725.66	
Eastern Branch Elizabeth River	1940.66	1524.98	3465.65	
Lake Whitehurst	1144.81	1566.45	2711.26	
Broad Creek	1837.50	1670.39	3507.89	
Little Creek	1063.04	1345.59	2408.63	
Chesapeake Bay	457.57	566.79	1024.36	
Main Branch Elizabeth River	1668.31	796.15	2464.46	
Southern Branch Elizabeth River	191.70	67.39	259.09	
James River	12.76	4.13	16.90	
Acres Treated by Stormwater Controls				
	Impervious	Pervious	Total	
Acres Treated	1521.76	1532.68	3054.44	



**DEPARTMENT OF PUBLIC WORKS
OPERATIONS DIVISION**
**Storm Water Pollution Prevention Protocol for the
Maintenance of Roads, Streets and Parking Lots**

DATE WRITTEN: September 18, 2018
DATE REVISED: July 15, 2021
PREPARED BY: June Whitehurst, Environmental Programs Manager
REVIEWED BY: Maurice S. Gunn, Assistant City Engineer; John M. White, Storm Water Engineer
FILE PATH: K:\0000 - PW\Admin\SOPs\0600 - Comb Ops\Operations SOPs\SOP 630
P2 Maintenance of Roads, Streets & Parking Lots\SOP 630 P2 Maintenance
of Roads, Streets and Parking Lots.doc
DISTRIBUTION: Public Works Operational Crews

PURPOSE / OBJECTIVE:

To define guidelines, protocols, and procedures Operations will utilize to prevent pollutants from entering the storm water system from roads, streets and parking lot maintenance.

To ensure compliance with the requirements outlined under Part I.B.2.c of the City's MS4 permit.

BACKGROUND:

The City of Norfolk is mandated by federal and state law, as well as the City's MS4 VPDES Permit, VA0088650, to monitor and control pollutants in storm water discharges from City storm water conveyances. Part I.B.2.c of the MS4 permit requires the City to "*develop and implement written protocols for permittee-maintained road, street, and parking lot maintenance designated to minimize pollutant discharge.*" As part of the MS4 permit, general description of pollution prevention requirements for maintenance of roads, streets and parking lots are also covered under section 2.3 of the City's MS4 Program Plan, dated June 2017 and revised December 2020.

The City is also mandated by the state through the City's Industrial Storm Water General Permit VAR051796, and General Vehicle Wash and Laundry Facilities Permit VAG750131 to ensure pollution prevention practices are implement at the McKann yard to meet effluent limitations for sediment, oil and grease, and nutrients. The permit also regulates pH of the runoff from the site.

RESPONSIBILITIES:

Department of Public Works, Division of Environmental Storm Water Management is the administrator of the MS4 VPDES Permit, VA0088650.

Department of Public Works, Division of Streets & Bridges oversees the maintenance and repair of roads and streets, and some parking lot maintenance.

Environmental staff ensures compliance with the VPDES MS4 permit associated with pollution prevention practices.

PROCEDURES:

Street Sweeping - The City has implemented an aggressive street sweeping program that prevents debris and pollutants from entering the storm water system from city-owned roads, streets and parking lots. The sweeping schedule is listed below.

- Downtown business district - Swept daily 11:00 p.m. and 6 a.m., Sunday night through Friday morning.



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- City-wide streets with curb and gutters (except downtown) - Swept monthly Tuesday through Friday, with Monday as a make-up day. The monthly sweeping cycle is completed in four weeks.
- Underpasses and dead ends – Swept by hand to support the street sweeping efforts.
- NRHA communities - Swept twice per month, once with a regular mechanical sweeper and once with a mini-vacuum sweeper.
- Primary roads - Swept once per month by regenerative air sweepers during night operations.
- Special event - Cleanups occur immediately following parades, races, and other events.
- Municipal yards - Swept based on storm water pollution prevention plans. These usually occur either quarterly or twice per year.
- Norfolk Public School parking lots - Swept twice per year.
- City Parks parking lots – Swept once per quarter.
- City Beach parking lots – Swept every Monday and Friday from Memorial Day to Labor Day.
- Other City parking lots – Swept on a special request basis.

Road, Street and Parking Lot Maintenance

- Proper E&S measures are implemented per the City's E&S program.
- Illicit discharges and/or spills are identified and addressed upon discovery to prevent the spills from reaching the storm drains. See section 2.5 of the MS4 Program Plan for further details.
- Storage of bulk material in the field will be managed in a manner to prevent pollution to the storm drains. For small maintenance projects that do not require lay-down areas or formal E&S measures, bulk materials such as sand, dirt, etc. will be stored away from storm drains and in a manner that will prevent the loss of the material to the storm drain.
- Concrete chute waste water will be captured in a bag for proper disposal.
- Inlet protection will be installed during saw cutting activities of concrete roadways. Collection of excess waste water will occur where applicable. Street sweeping will occur to collect dry materials associated with the operation.
- Inlet protection will be installed in areas where milling activities.

Snow Activities

- Salt is stored at two locations in covered buildings.
- Urea-based deicing agents are never used.
- Brine is applied on bridges, overpasses, and arterials when conditions dictate its use. The brine residue gets diluted when the snow and ice melt.
- Street sweeping efforts are made to remove residual materials from roadways, streets and parking lots following snow events.

Equipment Maintenance

- Pre-trip inspections are completed daily prior to vehicle and equipment usage to avoid spills/leaks while performing maintenance.
- Spill equipment is stored on vehicles and equipment to quickly respond to spills or leaks.

Training

- Annual training is performed for staff once per year that covers pollution prevention practices both in the field, as well as in the yard. Illicit discharge detection is covered as well as general spill response practices and good housekeeping
- Annual 8-Hour Awareness Hazwoper training is performed for specific staff that respond to spills/leaks for proper cleanup efforts.

Bulk Material Storage at the Yard



DEPARTMENT OF PUBLIC WORKS
OPERATIONS DIVISION

**Storm Water Pollution Prevention Protocol for the
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- The McKann yard is covered by individual storm water permits associated with the Asphalt operations and the Street Sweeping wash rack area. Best management practices are implemented throughout the yard to prevent sediment, oil and grease, and nutrients from discharging from the site. It also regulates the pH in the runoff from the site.
- A Storm Water Pollution Prevention Plan (SWPPP) has been developed and implemented for the McKann yard. Outlined in the SWPPP are the requirements for storage of bulk material associated with maintenance for roads, streets and parking lots. Also outlined in the SWPPP are sweeping operations for the yard and proper measures that may be used to prevent sediment from entering the storm water system.
- Proper spill equipment is kept on hand at the yard to perform chemical spill cleanups either in the yard or in the field.
- Chemicals are stored in a manner to prevent the release to the storm drainage system.

Approved:

Maurice S. Gunn
Assistant City Engineer
Public Works, Division of Streets & Bridges

John M. White
Storm Water Engineer
Public Works, Division of Environmental Storm Water Management

HIGH PRIORITY MUNICIPAL YARD STUDY



June Whitehurst,
Environmental Programs Manager
May 1, 2017

Introduction:

The City of Norfolk (City) is mandated by federal and state law, as well as the City's Municipal Separate Storm Sewer System (MS4), Virginia Pollutant Discharge Elimination System (VPDES) Permit, VA0088650 (effective July 1, 2016), to monitor and control pollutants in storm water discharges from City storm water conveyances. As outlined in Part I.B.2.i of the MS4 permit, the City is required to identify all City-owned high priority municipal facilities that have a high potential of discharging pollutants.

High priority municipal facilities are defined as those municipal yards that are owned and operated by the City which includes composting facilities, equipment storage and maintenance facilities, materials storage yards, pesticide storage facilities, public works yards, recycling facilities, salt storage facilities, solid waste handling and transfer facilities, and vehicle storage maintenance yards. A comprehensive analysis was conducted in Spring 2017 by the Department of Public Works, Division of Environmental Storm Water Management staff, to identify City-owned high-priority facilities that may require a separate VPDES industrial stormwater permit and/or a storm water pollution prevention plan (SWPPP). The analysis completed utilized a GIS table-top exercise, field verification, and Storm Water environmental staff professional knowledge of City operations. The initial list will be better refined throughout the 5-year permit term as comprehensive site evaluations are conducted and SWPPPs are developed.

High Priority Municipal Facility Analysis:

Facility parcel information was obtained from a layer within the City's GIS to locate all City-owned properties. The table-top analysis utilized the 2016 aerial photography to visually inspect each City-owned parcel. Specific parcel categories were excluded from the analysis, including vacant lots, office buildings, parking lots, streets, and sidewalks. During this exercise, a list of parcels that required additional field verification based on the nature of their business was compiled.

Initial field assessments of city facilities included public works yards, utilities yards, parks & forestry yards, facility maintenance, fleet maintenance, public schools, libraries, community centers, police stations, and fire stations. During the field assessment, the areas were inspected for the presence of equipment and/or material storage, outdoor stockpiles, bulk waste containers, above ground chemical storage tanks, and any other obvious pollution sources from standard operations. Table 1 outlines the facilities inspected, date inspected, and initial assessment as to whether it meets the requirements for the development of a SWPPP.

Table 1: City-owned Parcel Assessment for SWPPP Development

Site Name	Site Address	Date Assessed	High Priority SWPPP Requirement (Yes/No)
Facilities Management	2840 Dana Street	9/21/2016	Yes
Fleet Maintenance	1188 Lance Road	9/21/2016	Yes

Parks and Urban Forestry	2839 Dana Street	1/30/2017	Yes
Public Works Combined Ops	2233 McKann Avenue	N/A - VDPES Permit; SWPPP Already Developed	Yes
Public Works Waste Management	1176 Pineridge Road	N/A - VDPES Permit; SWPPP Already Developed	Yes
School Transportation Services	5555 Raby Road	9/23/2016	Yes
Utilities - Wastewater Combined Operations	1316 Ballentine Road	9/12/2016	Yes
Utilities Water Treatment - 37th Street	3719 Parker Avenue	9/20/2016	Yes
Utilities Water Treatment - Moores Bridges	6040 Water Works Road	9/21/2016	Yes
1st Precinct/Investigations/Records/EOC	3661 E Virginia Beach Blvd	9/8/2016	No
2nd Precinct / Training	2500 N Military Hwy	9/8/2016	No
Admin, environmental, lab and medical	830 South Hampton Ave	1/13/2017	No
Animal Management Center	5585 Sabre Road	8/26/2016	No
Attucks Theatre	1010 Church Street	8/18/2016	No
Azalea Gardens Middle School	7721 Azalea Garden Road	8/1/2016	No
Barrad Park	1136 Vista Street	8/18/2016	No
Barron F Black Branch Library	6700 E Tanners Creek Drive	8/2/2016	No
Bayview Elementary + Rec center	1434 E Bayview Blvd	8/1/2016	No
Berkley Campostella Early Childhood Center	1530 Cypress Street	8/31/2016	No
Berkley Community Park	903 South Main Street	8/26/2016	No
Blyden Branch Library	879 E Princess Anne Road	8/18/2016	No
Booker T Washington High School	111 Park Avenue	8/4/2016	No
Calcott Elementary School	137 E Westmont Ave	7/28/2016	No
Calvert Square early Childhood Center	975 Bagnale Road	8/23/2016	No
Camp Allen Elementary School	501 C Street	8/8/2016	No
Campostella Center	1130 Leake Street	8/16/2016	No
Campostella Elementary School	1106 Campostella Road	7/27/2016	No
Chesterfield Academy	2915 Westminster Ave	8/8/2016	No

Coleman Place Elementary School	2445 Palmyra Street	8/3/2016	No
Coronado School (Open campus)	1025 Widgeon Road	8/22/2016	No
Crossroads Rec Center + ES	7020 Tidewater Drive	8/5/2016	No
Diggs Town Park	1401 Melon Street	8/31/2016	No
Dream Keepers Academy-old building	2600 E Princess Anne Ave	8/4/2016	No
East Ocean View Community Center	9520 20th Bay Street	8/1/2016	No
Easton Preschool	6045 Curlew Drive	8/30/2016	No
Fairlawn Elementary School	1132 Wade Street	8/8/2016	No
Fairlawn Rec Center	1014 Kempsville Road	8/8/2016	No
Fire Station 1	736 Cecelia Street	8/23/2016	No
Fire Station 10	4100 E Virginia Beach Blvd	8/30/2016	No
Fire Station 11	3127 Verdun Court	8/18/2016	No
Fire Station 12	1650 W Little Creek Road	8/18/2016	No
Fire Station 13	176 Maple Avenue	8/26/2016	No
Fire Station 14	1460 Norview Ave	8/18/2016	No
Fire Station 16	7924 Camelia Road	8/22/2016	No
Fire Station 2	2501 Church Street	8/30/2016	No
Fire Station 7	1211 W 43rd Street	8/18/2016	No
Fire Station 9 and Training Center	115 Thole Street	8/22/2016	No
Fred Huette Center	1000 Botetourt Gardens	1/13/2017	No
Ghent Elementary School	200 Shirley Ave	8/8/2016	No
Granby Elementary School	7101 Newport Ave	8/5/2016	No
Granby High School	7101 Granby Street	8/5/2016	No
Granby Municipal Building	400 Granby Street	1/13/2017	No
Harrison Opera House	160 W Virginia Beach Blvd	1/13/2017	No
Horace C Downing Branch Library	555 E Liberty Street	8/26/2016	No
Human Services	741 Monticello Ave	1/13/2017	No
Huntersville Community Center	880 Goff Street	7/27/2016	No
Ingleside Elementary School	976 Ingleside Road	8/4/2016	No
Ingleside Rec Center	940 Ingleside Road	8/4/2016	No
Jacox Elementary School	1300 Marshall Ave	8/4/2016	No
James Blair Middle School	730 Spotswood Ave	8/8/2016	No
James Monroe Elementary	520 W 29th Street	8/9/2016	No
Janaf Branch Library	5900 E Virginia Beach Blvd	8/29/2016	No
Jordan-Newby Branch Library	961 Park Ave	8/4/2016	No

Lafayette Branch Library	1610 Cromwell Drive	8/3/2016	No
Lafayette Winona Middle School	1701 Alsace Ave	8/3/2016	No
Lake Taylor High School	1380 Kempsville Road	8/8/2016	No
Lake Taylor Middle School	1380 Kempsville Road	8/8/2016	No
Lake Taylor Transitional Care Hospital School	1309 Kempsville Road	8/29/2016	No
Lakewood Park and Athletics	1600 Willow Wood Drive	8/3/2016	No
Lamberts Point Community Center	1251 W 42nd Street	8/12/2016	No
Larchmont Branch Library	6525 Hampton Blvd	8/12/2016	No
Larchmont Elementary + Rec Center	1145 Bulling Ave	8/9/2016	No
Larrymore Elementary School	7600 Halprin Drive	8/9/2016	No
Lindenwood Elementary School	2700 Ludlow	7/27/2016	No
Little Creek Branch Library	7853 Tarpon Place	8/1/2016	No
Little Creek Elementary School	7900 Tarpon Place	8/1/2016	No
Louise W Eggleston Center	1161 Ingleside Road	Noncity Facility	No
Madison Career Center	3700 Bowden Ferry Road	8/18/2016	No
Mary D Pretlow Branch Library	9640 Granby Street	7/28/2016	No
Meadowbrook Building + ES	7620 Shirland Ave	8/15/2016	No
Merrimac Landing Rec Center	8809 Monitor Way	7/28/2016	No
Maury High School	322 Shirley Ave	8/8/2016	No
Norfolk Fitness and Wellness Center	7300 Newport Ave	8/15/2016	No
Norfolk Juvenile Detention Center / Home School	1260 Security Lane	8/15/2016	No
Norfolk Skills Center	922 W 21st Street	CLOSED 2009	No
Norfolk Technical Vocation Center	1330 N Military Highway	8/29/2016	No
Northside Community Center	8400 Tidewater Drive	8/1/2016	No
Northside Middle School	180 E Evans Street	7/28/2016	No
Norview ES and Rec Center	6380 Sewells Point RD	8/2/2016	No
Norview High School	6501 Chesapeake Blvd	8/2/2016	No
Norview Middle School	6325 Sewells Point Road	8/3/2016	No
NTVC Annex	1320 N Military Highway	8/29/2016	No
Oakwood Elementary School (abandoned?)	900 Ashbury Ave	8/22/2016	No
Ocean View Elementary School	9501 Mason Creek Road	being rebuilt	No

Oceanair Elementary School	600 Dudley Ave	8/1/2016	No
P.B. Young Elementary School	543 E Olney Road	8/13/2016	No
Park Place Community Center	606 West 29th Street	8/12/2016	No
Poplar Hall Elementary School	5523 Pebble Lane	8/8/2016	No
Richard Bowling Elementary School- old building soon to be SECEP	2861 E Princess Anne Road	8/5/2016	No
Public Works Salt Dome	7658 Central Business Park Drive	9/21/2016	No
Ruffner Middle School	610 May Ave	7/27/2016	No
Sarah Constant Shrine and Beach	324 W Ocean View Ave		No
SECEP Administrative Offices	6160 Kempsville Circle Ste 300B	8/30/2016	No
Sewells Point Elementary School	7928 Hampton Blvd	8/9/2016	No
Sherwood Forest Community Center	4537 Little John Drive	8/3/2016	No
Sherwood Forest Elementary School	3035 Sherwod Forest Lane	8/3/2016	No
Slover Library	235 E Plume Street	1/13/2017	No
St. Helena Elementary School	903 S Main Street	8/9/2016	No
St. Mary's home for disabled children	6171 Kempsville Circle	8/30/2016	No
Station 15	1425 Fisherman's Road	8/22/2016	No
Station 4	5909 Poplar Hall Drive	8/30/2016	No
Station 6	714 Pembroke Ave	1/13/2017	No
Station 8	526 Frederick Street	8/16/2016	No
Stuart Early Childhood Center	446 Virginia Ave	CLOSED	No
Suburban Park Elementary School	310 Thole Street	8/5/2016	No
Tanners Creek Elementary School	1335 Longdale Drive	8/2/2016	No
Tarrallton ES + Rec Center	2080 Tarrallton Drive	8/1/2016	No
Tarrallton Park		8/1/2016	No
Tidewater Park Elementary School	1045 E Brambleton Ave	7/27/2016	No
Titustown Rec Center	7545 Diven Street	8/15/2016	No
Van Wyck Branch Library	1368 Debree Ave	1/13/2017	No
Vivian Mason Center	700 E Olney Road	8/23/2016	No
W.H Taylor Elementary School	1122 W Princess Anne Road	8/9/2016	No
Wells Theatre	108 E Tazewell Street	1/13/2017	No

Willard Model School	1511 Willow Wood Drive	8/3/2016	No
Willoughby Elementary School	9500 4th View Street	7/28/2016	No
Young Terrace Community Center	804 Whitaker Lane	8/23/2016	No
Youth Resource Center	501 Boush Street	1/13/2017	No

Conclusion:

Through this process, the following nine facilities have been identified to meet the high priority municipal facility definition. VDPES Industrial permits and SWPPPS have previously been obtained for two of the facilities as outlined in Table 2. The additional seven facilities will be assessed for separate VDPES industrial permit coverage and SWPPPs developed outlined in Table 3.

Table 2: VDPES Industrial Permits Obtained with Corresponding SWPPPs:

Site Name	Site Address	VDPES Permit #	FINAL SWPPP Date
Public Works Combined Ops	2233 McKann Avenue	VAR051796	11/2008
Public Works Waste Management	1176 Pineridge Road	VAR052006	8/2010

Table 3: Municipal Facilities Requiring Further Assessment and SWPPPs:

Site Name	Site Address	FINAL SWPPP Date	Comments
Facilities Management	2840 Dana Street	6/2017	None
Fleet Maintenance	1188 Lance Road	6/2017	None
Parks and Urban Forestry	2839 Dana Street	6/2017	None
School Transportation Services	5555 Raby Road	6/2017	None
Utilities - Wastewater Combined Operations	1316 Ballentine Road	6/2017	None
Utilities Water Treatment - 37th Street	3719 Parker Avenue	6/2017	None
Utilities Water Treatment - Moores Bridges	6040 Water Works Road	6/2017	None

Storm Drain Medallion Marking Project

City of Norfolk

Introduction:

The City of Norfolk (City) is required to follow the City's Municipal Separate Storm Sewer System (MS4), Virginia Pollutant Discharge Elimination System (VPDES) Permit, VA0088650 (effective July 1, 2016). Part I.B.2.i of the MS4 Permit requires the City to install and maintain markings on all stormwater inlets on City-owned properties that have greater than 2-acres of impervious surface.

Facilities that were marked included all high priority municipal facilities, public schools, vacant land, Norfolk parks and golf courses, cemeteries, museums, and libraries.

Stormwater Inlet Marking Analysis:

To obtain the most accurate data, the Environmental and GIS teams worked together to ensure that this project was carried out successfully. Through GIS, staff was able to obtain up-to-date maps of all the locations that fit the criteria of being a City-owned parcel having greater than 2-acres of impervious area. Stormwater GIS staff used data from the Departments of Real Estate, Storm Water, and Planning to preprocess the data through a GIS exercise using the following steps:

1. GIS layers collected - Storm Water's Green Infrastructure data, structures, and parcels, as well as multiple codes from the Real Estate GIS Layer that exhibited City-owned parcels.
2. An analysis was completed using the Spatial Analysis Tool within the Zonal tab, followed by the Tabulate Area function.
3. A new Parcel layer was then created that showed all City of Norfolk owned Parcels that had 2 acres or more of impervious area, as well as the structures on these parcels.
4. Once staff had the data of parcels that met the criteria of being City-owned and greater than 2-acres of impervious acres were selected, a list of parcels was prepared, and maps were created.

Stormwater infrastructure was clearly defined for staff to easily access and identify areas that required marking. Initially all structures, regardless of being a catch basin or drop inlet were marked with a medallion that was hammer drilled in place for durability. In the table below, all the sites are listed with a description of the property and medallion installation date. The catch basins were evaluated by staff for the installation of permanent catch basin lids with the imprint "Dump No Waste" and "Drains To Waterway." Three hundred (300) catch basin lids were ordered and over several weeks, staff coordinated using GIS maps and previous knowledge of the sites to install these catch basin lids. These locations currently have a medallion installed, as well as a catch basin lid for long-lasting durability.

	Medallion Project			
Address	Description	Comments	Medallion Installed Date	Catch basin lid installed
9500 4th View St	613 Norfolk City Schools	7 medallions installed	2/4/2021	4 lids installed 7/15/2021
1600 Saint Julian Av	610 Norfolk Vacant Land	1 medallion installed	4/2/2021	0 catch basins
3586 Mississippi Av	610 Norfolk Vacant Land	4 medallions installed	4/2/2021	0 catch basins
2400 Berkley Avenue Ex	610 Norfolk Vacant Land	3 medallions installed	4/5/2021	0 catch basins
3310 Miller Store Rd	610 Norfolk Vacant Land	Land is no longer owned by the City of Norfolk/housing development Osprey Watch	N/A	0 catch basins
7447 Central Business Park Dr	611 Norfolk General Municipal	4 medallions installed	3/17/2021	0 catch basins
1501 Pritchard St	611 Norfolk General Municipal	5 medallions installed	3/5/2021	0 catch basins
201 E Brambleton Av	611 Norfolk General Municipal	No medallions installed- found no structures during inspection	3/3/2021	0 catch basins
7658 Central Business Park Dr	611 Norfolk General Municipal	2 medallions installed	3/25/2021	0 catch basins
545 Market St	611 Norfolk General Municipal	4 medallions installed	3/4/2021	0 installed. Verified 6/30/2021
1000 Monticello Ave	611 Norfolk General Municipal	10 medallions installed	3/12/2021	12 lids installed 6/24/2021
101 Park Av	611 Norfolk General Municipal	5 medallions installed	3/3/2021	3 installed 06/24/2021
140 Park Av- Harbor Park	611 Norfolk General Municipal	22 medallions installed	3/3/2021	21 installed 7/1/2021

966 Bellmore Av	611 Norfolk General Municipal	6 medallions installed	3/4/2021	0 installed. Verified 6/30/2021
800 E City Hall Av	611 Norfolk General Municipal	9 medallions installed	3/4/2021	2 installed 6/29/2021
3661 E Virginia Beach Blvd	611 Norfolk General Municipal	6 medallions installed	3/5/2021	0 catch basins
3700 Powhatan Av	611 Norfolk General Municipal	5 medallions installed	3/8/2021	0 catch basins
434 Saint Pauls Blvd	611 Norfolk General Municipal	3 medallions installed	3/4/2021	2 installed 6/25/2021
160 W Virginia Beach Blvd	611 Norfolk General Municipal	9 medallions installed	3/5/2021	8 installed 6/30/2021
1100 Monticello Av	611 Norfolk General Municipal	2 medallions installed	3/17/2021	12 installed 06/24/2021
5583 Raby Rd	611 Norfolk General Municipal	5 medallions installed	3/12/2021	0 installed. Verified 6/23/2021
1188 Lance Rd	611 Norfolk General Municipal	8 medallions installed	3/17/2021	1 installed 6/23/2021
2500 N Military Hwy	611 Norfolk General Municipal	22 medallions installed	3/8/2021	0 catch basins
4012 Bowdens Ferry Rd	611 Norfolk General Municipal	17 medallions installed	3/17/2021	10 installed 6/25/2021
901 Asbury Av	611 Norfolk General Municipal	14 medallions installed	3/8/2021	14 installed 6/25/2021
140 Park Av	611 Norfolk General Municipal	26 medallions installed	3/3/2021	21 lids installed 6/29/2021
1260 Child Care Ct	611 Norfolk General Municipal	22 medallions installed	3/5/2021	12 installed 6/29/2021
2839 Dana St	611 Norfolk General Municipal	7 medallions installed	3/25/2021	1 installed 6/23/2021

1316 Ballentine Blvd	611 Norfolk General Municipal	23 medallions installed	3/15/2021	5 lids installed 6/23/2021
811 E City Hall Av	611 Norfolk General Municipal	11 medallions installed	3/25/2021	2 installed 6/30/2021
810 Union St	611 Norfolk General Municipal	12 medallions installed	3/4/2021	0 lids installed.
2233 McKann Ave	611 Norfolk General Municipal	5 medallions installed	12/11/2020	0 lids installed.
1309 Kempsville Rd	611 Norfolk General Municipal	17 medallions installed	3/5/2021	6 installed 6/29/2021
435 Virginia Ave	613 Norfolk City Schools	No medallions installed- found no structures during inspection	1/21/2021	0 lids installed.
310 Thole St	613 Norfolk City Schools	3 medallions installed	1/21/2021	2 lids installed 7/14/2021
5523 Pebble La	613 Norfolk City Schools	No medallions installed- found no structures during inspection	2/3/2021	0 lids installed.
1335 Longdale Dr	613 Norfolk City Schools	2 medallions installed	1/27/2021	*Catch basins to be installed before end of 2021.
8720 Granby St	613 Norfolk City Schools	1 medallion installed	2/3/2021	0 lids installed.
3035 Sherwood Forest La	613 Norfolk City Schools	6 medallions installed	1/29/2021	*Catch basins to be installed before end of 2021.
610 May Av	613 Norfolk City Schools	10 medallions installed	1/27/2021	7 lids installed 7/15/2021
7928 Hampton Blvd	613 Norfolk City Schools	8 medallions installed	4/13/2021	7 lids installed 7/13/2021
2350 Berkley Avenue Ex	613 Norfolk City Schools	1 medallion installed	2/1/2021	0 catch basins

1434 E Bayview Blvd	613 Norfolk City Schools	11 medallions installed	2/3/2021	1 lid installed 7/28/2021
7101 Newport Av	613 Norfolk City Schools	No medallions installed- found no structures during inspection	2/4/2021	0 lids installed. Verified.
7600 Halprin Dr	613 Norfolk City Schools	1 medallion installed	2/8/2021	0 catch basins
1511 Willow Wood Dr	613 Norfolk City Schools	2 medallions installed	2/3/2021	2 lids installed 7/26/2021
1122 W Princess Anne Rd	613 Norfolk City Schools	3 medallions installed	1/27/2021	0 lids installed.
8021 Old Ocean View Rd	613 Norfolk City Schools	8 medallions installed	1/27/2021	7 lids installed 7/14/2021
600 Dudley Av	613 Norfolk City Schools	7 medallions installed	1/21/2021	1 lid installed 7/14/2021
6501 Chesapeake Blvd	613 Norfolk City Schools	49 medallions installed	2/8/2021	1 lid installed 7/28/2021
7721 Azalea Garden Rd	613 Norfolk City Schools	8 medallions installed. 2 DI's located behind fence on Dominion property.	1/27/2021	0 lids installed due to lids being too big.
976 Ingleside Rd	613 Norfolk City Schools	8 medallions installed	2/1/2021	0 lids installed.
1132 Wade St	613 Norfolk City Schools	16 medallions installed	2/4/2021	2 lids installed 7/27/2021
7900 Tarpon Pl	613 Norfolk City Schools	9 medallions installed	1/29/2021	0 lids installed.
543 E Olney Rd	613 Norfolk City Schools	15 medallions installed	2/25/2021	5 lids installed 7/23/2021
200 Shirley Av	613 Norfolk City Schools	19 medallions installed	1/21/2021	2 lids installed 7/14/2021
1106 Campostella Rd	613 Norfolk City Schools	12 medallions installed	2/22/2021	*Catch basins to be installed before end of 2021.

730 Spotswood Av	613 Norfolk City Schools	9 medallions installed	1/21/2021	0 lids installed.
7101 Granby St	613 Norfolk City Schools	11 medallions installed	2/1/2021	2 installed 7/14/2021
2450 Rush St	613 Norfolk City Schools	17 medallions installed	2/22/2021	*Catch basins to be installed before end of 2021.
1651 43rd St	613 Norfolk City Schools	14 medallions installed	5/18/2021	0 lids installed.
1330 Branch Rd	613 Norfolk City Schools	15 medallions installed	1/20/2021	3 lids installed 7/14/2021
1145 Bolling Av	613 Norfolk City Schools	10 medallions installed	2/1/2021	8 lids installed 7/13/2021
1330 N Military Hwy	613 Norfolk City Schools	13 medallions installed	2/9/2021	5 lids installed 7/15/2021
6325 Sewells Point Rd	613 Norfolk City Schools	18 medallions installed	2/23/2021	14 lids installed 7/26/2021
1425 Norchester Av	613 Norfolk City Schools	13 medallions installed	2/23/2021	12 lids installed 7/26/2021
1380 Kempsville Rd	613 Norfolk City Schools	31 medallions installed-20 catch basins	2/2/2021	26 lids installed 7/28/2021
6401 Chesapeake Blvd	613 Norfolk City Schools	17 medallions installed	2/22/2021	4 lids installed 7/23/2021
1111 Park Ave	613 Norfolk City Schools	43 medallions installed	2/24/2021	16 lids installed 7/27/2021
238 E Princess Anne Rd	614 Norfolk Cemeteries	31 medallions installed	3/31/2021	0 catch basins
4301 Powhatan Avenue A	615 Norfolk Parks, Golf Course	11 medallions installed	4/27/2021	0 lids installed. Verified 6/30/2021.

1136 Vista St	615 Norfolk Parks, Golf Course	No medallions installed- found no structures during inspection	4/16/2021	0 catch basins
100 W Ocean View Avenue	615 Norfolk Parks, Golf Course	8 medallions installed	4/12/2021	0 catch basins
700 E Ocean View Av	615 Norfolk Parks, Golf Course	2 medallions installed	4/12/2021	0 catch basins
4301 Powhatan Avenue B	615 Norfolk Parks, Golf Course	No medallions installed- found no structures during inspection	4/27/2021	0 catch basins
1147 Pineridge Rd	615 Norfolk Parks, Golf Course	2 medallions installed	4/13/2021	0 catch basins
1599 Premium Outlets Blvd	615 Norfolk Parks, Golf Course	No medallions installed- found no structures during inspection	4/16/2021	0 catch basins
430 Washington Park	615 Norfolk Parks, Golf Course	14 medallions installed	4/12/2021	2 lids installed 6/30/2021
6700 Azalea Garden Rd	615 Norfolk Parks, Golf Course	19 medallions installed	4/16/2021	6 lids installed 7/13/2021
3500 Granby St	615 Norfolk Parks, Golf Course	39 medallions installed	5/4/2021	0 catch basins
2719 Parker Av	616 Norfolk Solid Waste Disp	No medallions installed- found no structures during inspection	5/14/2021	0 catch basins
1176 Pineridge Rd	616 Norfolk Solid Waste Disp	4 medallions installed	3/29/2021	3 installed 6/23/2021
1 Waterside Dr	617 Norfolk Museums	3 medallions installed	5/5/2021	1 installed 6/23/2021
1 Memorial Pl	617 Norfolk Museums	5 medallions installed	5/5/2021	4 installed 6/23/2021
6040 Water Works Rd	618 Norfolk Water Distribution	30 medallions installed	3/30/2021	1 installed 6/23/2021
606 W 29th St	619 Norfolk Libraries	1 medallion installed	5/18/2021	0 catch basins

Totals	
Medallions	875
Catch Basin lids	280

KEY	
Parcels	# of Parcels
Norfolk Public Schools	37
Vacant Land	4
Municipal	26
Norfolk Parks/ Golf Course	10
Other	7
Total	84
Total with out schools	47

City staff prepares area for medallions to be installed with hammer drill and adhesive.



Installed medallion and catch basin lids.





**Mobile Car Wash/Detailing
Requirements for Business License**
(revised 04/06/18)

The following is our policy regarding individuals requesting a business license to operate a mobile car detailing and/or washing service:

1. Applicant must contact and meet with Natiara Satsatin in Storm Water Management (823-4010). Address:

2233 McKann Avenue
Norfolk, VA 23509
2. Natiara will review the applicant's equipment and wastewater runoff system and determine if it is sufficient. If it is, Natiara will provide a letter/form to the applicant indicating that they are in compliance with Storm Water requirements.
3. Any person wishing to obtain a business license for mobile car wash/detailing MUST have this letter/form from Natiara to be approved prior to obtaining a business license.
4. The applicant may operate from:
 - a. Their home as a home occupation subject to meeting all the necessary zoning requirements.
 - b. They may also operation from a commercial or industrial location subject to a valid lease.
 - c. Operation from a storage unit with a valid lease is also an option.
5. No more than two (2) vehicles shall ever be serviced at any one (1) location per day.

City of Norfolk
Department of Public Works
Division of Environmental Storm Water Management

Mobile Car Wash Application

Name of Business: _____

Owner Name: _____

Mailing Address: _____

Phone Number: _____

I have read and understand Sec. 41.1-4, Pollution of the Stormwater system, of the Norfolk City Code. I also understand that a violation of this section of code is a Class I Misdemeanor. In addition, I have received and agree to read the storm water information packet.

If ANY of the information on this form changes, a new application must be submitted within 10 days of the change.

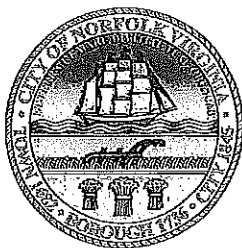
Owner Sign

Date

Witness Sign

Date

Please feel free to contact this division at, (757) 823-4000, between 7am and 3:30pm, Monday through Friday, if you have any questions.



NORFOLK

Department of Public Works, Field Engineering & Environmental Management

Mobile Car Wash and Automotive Detailing Facilities

Dear Owner:

As a licensed business owner, it is your responsibility to read and understand the City Codes that may affect your business practices. We want to provide you with some educational material to ensure you avoid possible violations related with pollution of the storm water system.

While performing operations associated with mobile car washing or automotive detailing, please ensure that all rinse water is maintained on site, either through collection and discharge into a sanitary sewer system or infiltration into the ground. Functioning as a commercial entity, you are not authorized to discharge rinse water to the stormwater system; there are no exemptions. Absolutely nothing associated with vehicle washing may be discharged into the street or storm water system. This includes "clean" rinse water not containing detergents, and materials that are considered "Bio-Degradable" and "Environmentally Friendly."

Provided is a copy of the City code, Chapter 41.1, *Storm Water Management*, for your review. Section 41.1-4(c) of the code states that it is unlawful to discharge commercial rinse water into the City's storm water system, including streets, ditches, etc. unless permitted to do so by the Department of Environmental Quality. A violation of this code is a class 1 misdemeanor with a maximum penalty of \$2500/day and/or up to 1 year in jail.

Also provided is a brochure, *Remember You Are Not Just Washing a Car...*, that provides additional detail. If you have specific questions regarding this letter or requirements associated with your business, please feel free to contact the Environmental Management staff Monday through Friday 7:00am-3:30pm at 757-823-4000. Thank you for your assistance in this matter.

Sincerely,

Casey Magruder
Environmental Program Administrator

Cc: File

City of Norfolk Public Education/Outreach - FY2021

Event Type	Event Location	Event Description	Presenter	Start Date	End Date	Total # Hours	Number Attending	Comment
Public Outreach	Citywide	HRUBS Insert - Scoop the Poop	Michelle Williams	07/01/2020			20,000	
Public Outreach	Citywide	HRUBS ENewsletter - Scoop the Poop	Michelle Williams	08/17/2020			18,000	
Public Outreach	Citywide	HRUBS Insert - HHW	Michelle Williams	08/01/2020			20,000	
Public Outreach	Citywide	HRUBS ENewsletter - HHW	Michelle Williams	08/17/2020			18,000	
Public Outreach	Citywide	HRUBS Insert - Star Homes/Businesses	Michelle Williams	09/01/2020			20,000	
Public Outreach	Citywide	HRUBS ENewsletter - Star Homes/Businesses	Michelle Williams	09/15/2020			18,000	
Public Outreach	Citywide - Resident Newsletter	Bay Star Homes/Bay Star Businesses	Michelle Williams/Communications Dept.	08/25/2020				
Public Outreach	Employee Newsletter - Email	Bay Star Homes/Bay Star Businesses	Michelle Williams	08/25/2020				
Public Outreach	Pinewell Civic League	Street Sweeping Yard Sign and Giveaways	Michelle Williams	09/11/2020			75	Info to Civic League President to encourage people to move their cars on street sweeping day.
Public Outreach	Easton Forest Civic League	Street Sweeping Yard Sign and Giveaways	Michelle Williams	09/16/2020			50	Also SW. Only Rain Down the Drain info, for new resident packets.
Public Outreach	Campostella Civic League	Street Sweeping Yard Sign and Giveaways	Michelle Williams	09/17/2020			75	
Civic League Mtg	Zoom	Ghent Neighborhood League Civic Meeting	John White; Justin Shafer	09/17/2020		2.00	25	
Civic League Mtg	Zoom	Ghent Task Force Meeting	Michelle Williams	09/11/2020	09/11/2020	1.00	25	
Public Outreach	Social Media	Star Homes, Lakes and Business Program Combined Campaign	Michelle Williams / Rachael Gaul	08/31/2020	09/30/2020		23,726	10 different social media posts with environmental tips on the above variety of subjects during the month, combined with Bay Star Home/Business sign up opportunities.
Public Outreach	City Facebook Page & Nextdoor Post	Stop the Trash, Feed the Can	Michelle Williams	09/28/2020			25,000	
Public Outreach	Keep Norfolk Beautiful Facebook Page	Stop the Trash 24" x 36" Sidewalk Stickers	Michelle Williams	09/23/2020	07/15/2020			
Public Outreach	Evelyn Butts Transfer Station Bus Stop; Princess Anne and Monticello Bus Stop; Pretlow Library Bus Stop							
Public Outreach	City Facebook page	Landscapers - Yard Debris in Street	Michelle Williams	09/30/2020			23,726	
Public Outreach	DuPont Circle	Resident Letter	Michelle Williams	09/09/2020			15	
Public Outreach	East Belvedere	Resident Letter - Yard Debris from Landscapers	Michelle Williams				24	
Public Outreach	Virtual	Elizabeth River Trail Master Planning Committee	Justin Shafer	10/14/2020		2.00	15	
Public Outreach	Social Media	Leaves Campaign - two posts per week on FB, Twitter, Nextdoor	Michelle Williams	10/20/2020	12/04/2020			
Public Outreach	News Flash on Utilities Website, Home Page	Website Advertisement	Michelle Williams	10/21/2020	11/30/2020			
Community Events	Easton Forest	Easton Forest Bio-tification Event	Michelle Williams/KNB	10/31/2020	10/31/2020	2.00		Street Sweeping and Pet Waste rack cards and giveaways handed out at KNB's litter event.
Public Outreach	East Ocean View 300-400 Block	Pollution Prevention Letters	Michelle Williams					47 letters mailed to neighborhood - education reminder about grass clippings and pine straw/leaves
Public Outreach	Norfolk Workforce Development Center	America Recycles Day	Michelle Williams/KNB	11/14/2020	11/14/2020	3.00	200	
Schools	Nauticus	Sail Nauticus After School Program	Michelle Williams	12/15/2020		2.00	7	
Schools	Nauticus	Sail Nauticus After School Program	Michelle Williams	12/17/2020			7	
Schools	Nauticus	Sail Nauticus After School Program	Michelle Williams	01/04/2021		2.00	6	
Schools	Nauticus	Sail Nauticus After School Program	Michelle Williams	01/06/2021			12	
Public Outreach	WebEx	Southside Task Force Meeting	Michelle Williams	02/02/2021		2.00	39	
Civic League Mtg	Zoom	Talbot Hall Civic League	Rey Hernandez	01/27/2021		2.00	39	
Schools	James Monroe Elementary School	Distributed Green Learning Guides to school for all 3rd graders	Michelle Williams	03/09/2021			60	
Public Outreach	Bond Heights	Neighborhood Cleanup	Michelle Williams	03/27/2021		2.00	25	
Public Outreach	Mailing	Central Brambleton Newsletter Mailing	Michelle Williams	01/26/2021			235	
Other	Zoom	Central Brambleton Public Meeting	Michelle Williams/CW Gaskill	02/11/2021		2.00	6	
Public Outreach	Berkley Civic League	Public Education Handouts	Michelle Williams	02/16/2021			75	
Public Outreach	Nextdoor - Central Brambleton Neighborhoods	Central Brambleton Newsletter	Michelle Williams	02/04/2021				
Public Outreach	Crossroads Civic League	Public Education Campaign - Handouts	Michelle Williams	02/11/2021			75	
Public Outreach	Wards Corner Civic League	Wards Corner Mailing - Stormwater flooding meeting invitation	Michelle Williams	03/26/2021			320	
Public Outreach	Citywide	HRUBS Insert	Michelle Williams	04/01/2021			20,000	
Public Outreach	Virtual	Residential BMP Webinar - Rainwise Yards & Landscapes	Michelle Williams/Justin Shafer	04/12/2021		1.50	35	
Public Outreach	Virtual - WebEx	Wards Corner Public Meeting	Michelle Williams/John White/Justin Shafer	07/12/2021		2.00	25	
Public Outreach	Citywide	HRUBS E-Newsletter - Scoop the Poop	Michelle Williams	04/15/2021			18,000	
Public Outreach	13th & 14th Bay Street	Mailing - flooding/drainage problems	Rey Hernandez	05/11/2021			33	
Public Outreach	Citywide	Spring Grass Cleanup Campaign	Michelle Williams	05/21/2021	06/10/2021			
Public Outreach	Citywide	HRUBS Insert - Grass Cleanup	Michelle Williams	07/01/2021			20,000	
Public Outreach	Villa Circle	Shoreline Management Mailing	Justin Shafer	06/11/2021			35	
Public Outreach	Citywide	HRUBS E-Newsletter	Michelle Williams	06/16/2021			18,000	
Public Outreach	Virginia Zoo, Waterside, Downtown Granby St., Lavalette Boat Ramp, Haven Creek Boat Ramp for physical decals and Social Media for information	Clean the Bay Day (month) Sidewalk Decal Campaign	Michelle Williams	05/31/2021	07/01/2021			

Communication Outline

Public Works Operations, Stormwater

MISSION: To improve water quality and reduce flooding city-wide

GOAL: To engage and reach every resident within the City to promote positive behaviors and actions that improve water quality and flooding. This will be achieved through educational programming, interactive outreach and teamwork.

IMPLEMENTATION PROCESS: Seasonal campaigns with a focused messaging.

Each seasonal campaign will touch on a different TMDL message and be designed with multiple sensory appeal. In addition, stormwater will continue to coordinate with Hampton Roads Planning District Commission campaigns through the HR Green initiative.

Storm Water will also continue to work with all City groups to combine Norfolk's environmental messages to provide a cohesive public outreach effort.

SUMMER 2020: *No festivals or community meetings due to Covid-19

GRASS CLIPPINGS: Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of this waste and to keep their curb line clear.

Media sources: Brochures, website, video, Bay Star Homes, Social Media postings

HURRICANE PREP/EOC/FLOODING: Flood Awareness plays an active role in Norfolk's government initiatives. Making room for and living with water are essential to Norfolk's future. It is important to know what to expect and work towards proactive solutions that will ensure our long-term success. Outreach will include messages about what to do in preparation, what to do during an actual event, along with reminders not to drive through high water.

Media sources: Website, social media, Bay Star Homes, HRUBS inserts

KEEP IT CLEAN-PUMP...DON'T DUMP: Boaters should use pump-out stations at local marinas instead of dumping waste over board. Though permitted by law, treated waste is still high in pollutants, and the treatment process does not reduce bacteria to a level that is safe for shellfish consumption.

Media sources: Brochures, Bay Star Homes, boater forums, Summer HRSD Pump-out programs

BAY STAR HOMES: This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Star program is city-wide and regional.

Media Sources: Mailings to specific neighborhoods, websites, civic league newsletters

SCOOP THE POOP: Pick up your pet waste, even in your own backyard. Pet waste increases bacteria and nutrient levels in waterways, leading to algae blooms, fish kills, fishing bans and beach closures.

Media Sources: HRUBS insert, Bags-on-board holders, tip cards, Bay Star Homes, pet waste station grants, website, social media, video, providing scoop the poop giveaways to the SPCA, Animal Cares Center, Norfolk Admirals, and individual neighborhoods where needed.

HOUSEHOLD HAZARDOUS WASTE/ELECTRONICS RECYCLING: Disposing of hazardous material inappropriately does affect water quality. Norfolk encourages residents to take these materials to HHW collection centers versus disposing of this with your regular trash or via a storm drain.

Media sources: HRUBS insert and email, Bay Star Homes, website

RETAIN YOUR RAIN: Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

Media Sources: Social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

FALL 2020:

TEST, DON'T GUESS ABOUT FERTILIZING: Homeowners and commercial property owners should only fertilize if needed and with quantities that are required. Coated and water-soluble slow-release fertilizers help roots develop and wash away less easily. Do not apply slow or time-released nitrogen at a rate above one pound per 1,000 square feet. Apply only what is needed.

Secondary Messaging: Soil Testing

Media Sources: Bay Star Homes, brochure, website, community meetings, festivals

LEAVES: Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of leaves and to keep their curb line clear.

Media sources: Community meetings/events, brochures, website, social media, video, Bay Star Homes, sweeper wraps, HRUBS insert, magazine ad

STREET SWEEPING PROGRAM: The Street Sweeping equipment used by the City is meant to collect small debris and litter that decrease water quality. It is the responsibility of citizens and property owners to collect their yard waste and properly dispose of it – the City's Street Sweeping program is not liable for large debris pile pickups.

Fall Message: Leaves in storm drains and resident's responsibility; proper yard waste disposal

Media sources: Community meetings, rack card, website, social media, Bay Star Homes, spotlights/news articles, social media postings, sweeper wraps, magazine ad, **new video, new sweeper mascot**

STORM DRAIN AWARENESS - ONLY RAIN DOWN THE STORM DRAIN: This slogan encompasses the stormwater message. Anything other than clean rainwater that enters the storm drain is a pollutant as well as a violation of a State-issued, EPA mandated permit. Pollutants that enter storm drains flow directly to our water bodies causing water quality problems.

Media sources: Compass ads, community meetings/events, brochures, website, social media, in-school field trip programming, City ordinance/codes, storm drain medallion marking, HRUBS inserts, festivals

BAY STAR HOMES: This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Star program is city-wide and regional.

Media Sources: Community meetings, mailings to specific neighborhoods, festivals, websites, HRUBS insert

HOUSEHOLD HAZARDOUS WASTE/ELECTRONICS RECYCLING: Disposing of hazardous material inappropriately does affect water quality. Norfolk encourages residents to take these materials to HHW collection centers versus disposing of this with your regular trash or via a storm drain.

Media sources: HRUBS insert/email, Community meetings/events, Bay Star Homes, in-school field trips, website, America Recycles Day

RETAIN YOUR RAIN: Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

Media Sources: Community meetings/events, social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

Winter 2020/21:

Don't Feed Wild Ducks and Geese – Feeding wildlife discourages natural migration patterns and increases nutrient and bacteria pollution due to their waste.

Media sources: Community meetings, brochures, website, Bay Star Homes programming

STREET SWEEPING PROGRAM: The Street Sweeping equipment used by the City is meant to collect small debris and litter that decrease water quality. It is the responsibility of citizens and property owners to collect their yard waste and properly dispose of it – the City's Street Sweeping program is not liable for large debris pile pickups.

Winter Message: Holiday Schedules, Leaves/debris in curb line reminder

Media sources: Community meetings, brochures, website, Bay Star Homes, Sweeper wraps, spotlights/news articles, social media postings, new video

Optional-As Needed Winter Storm Awareness/Snow and Ice – Winter storm awareness is important to everyone. As needed, we will actively remind residents of their responsibility to clear their sidewalks and the protocol for Public Works snow removal. This will include the message of not following the plows too closely and to give us room to prep/clear the roadways.

Media sources: Community meetings, press releases, social media

BAY STAR HOMES: This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Star program is city-wide and regional.

Media Sources: Community meetings, mailings to specific neighborhoods, festivals, websites

RETAIN YOUR RAIN: Resiliency focused outreach and workshops designed to encourage Norfolk's residents to take actions on their property to reduce flooding. This is being coordinated through the City Manager's Resiliency Office.

Media Sources: Community meetings/events, social media posts, website, print material-Decision Tree, Green Infrastructure video, Retain Your Rain App

SPRING 2021:

TEST, DON'T GUESS ABOUT FERTILIZING: Homeowners and commercial property owners should only fertilize if needed and with quantities that are required. Coated and water-soluble slow-release fertilizers help roots develop and wash away less easily. Do not apply slow or time-released nitrogen at a rate above one pound per 1,000 square feet. Apply only what is needed.

Secondary Messaging: Soil Testing, Plant More Plants

SPECIFIC MESSAGE FOR GOLF COURSES: Golf Courses and fertilizer/lawn maintenance.

Media Sources: HRUBS inserts, Bay Star Homes, brochure, website, community meetings, social media, HRPDC spring stormwater campaign.

SCOOP THE POOP: Pick up your pet waste, even in your own backyard. Pet waste increases bacteria and nutrient levels in waterways, leading to algae blooms, fish kills, fishing bans and beach closures.

Media Sources: Bags-on-board holders, Tip cards, festivals, Bay Star Homes, Pet waste station grants, community meetings, school education outreach programs, providing scoop the poop giveaways to the SPCA and Norfolk Animal Cares Center, partnership with Norfolk Admirals for Pucks & Paws games

BAY STAR HOMES: This program is homeowner based and asks residents to make small behavioral changes to their lifestyle and homes in order to decrease their impact on the environment while improving water quality. Bay Stars is city-wide and regional

Media Sources: Community meetings, mailings to specific neighborhoods, festivals/events, website, askHRgreen

BAY STAR BUSINESSES: Promote practices that will help with TMDL. Use with Industrial Permit.

Media Sources: askHRgreen, website, media press release, rack cards for automotive companies, landscaping companies and pet related companies

GRASS CLIPPINGS: Anything blown into the curb line has the potential to end up in our storm drains. This matter causes blockages and impact water quality due to the pollutants that it carries. Residents are asked to properly dispose of this waste and to keep their curb line clear.

Media sources: Community meetings/events, brochures, website, festivals, Bay Star Homes, workshops, spotlights/news articles, City ordinance/code, school education outreach programs

Grass clippings video - website, social media (Fb, Twitter, YouTube)

Know Where Your Car Wash Runoff Goes – Though commercial and mobile car washes are required to have permits in order to discharge soapy liquids, residents are not. We encourage residents to utilize car wash facilities or wash their vehicle on their lawn in order to minimize soapy runoff.

Media sources: HRUBS insert, Community meetings/events, tip card, school education outreach programs, City ordinance/codes, commercial/mobile car wash permit/license



Annual Report 2020-2021



HAMPTON ROADS PLANNING DISTRICT COMMISSION



CHESAPEAKE

Steven Best
Debbie Ritter
Ella Ward
Christopher Price
Robert Geis

FRANKLIN

Frank Rabil
Amanda Jarratt

GLOUCESTER COUNTY

Phillip Bazzani
Carol Steele

HAMPTON

Steve Brown
Donnie Tuck
Mary Bunting

ISLE OF WIGHT COUNTY

Joel Acree
Randy Keaton, Treasurer

JAMES CITY COUNTY

James Icenhour
Scott Stevens

NEWPORT NEWS

David Jenkins, Vice-Chair
McKinley Price
Cynthia Rohlf

NORFOLK

Kenneth Alexander
Courtney Doyle
Andria McClellan, Chair
Danica Royster
Larry “Chip” Filer

POQUOSON

Gordon Helsel
Randall Wheeler

PORTSMOUTH

Shannon Glover
Angel Jones

SMITHFIELD

Carter Williams
Michael Stallings

SOUTHAMPTON COUNTY

William Gillette
Michael Johnson

SUFFOLK

Leroy Bennett
Albert Moor

SURRY COUNTY

Robert Elliott
Melissa Rollins

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Guy Tower
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Sheila Noll
Neil Morgan

Report Documentation

TITLE:

askHRgreen.org Annual Report for Fiscal Year 2020-2021

REPORT DATE

September 2021

GRANT/SPONSORING AGENCY

Local Funds

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ABSTRACT

The Hampton Roads Planning District Commission (HRPDC) is one of 21 Planning District Commissions in the Commonwealth of Virginia and is a regional organization representing the 17 local governments of the Hampton Roads area. This report provides an overview of the askHRgreen.org regional public outreach program and campaign results for fiscal year 2020-2021. It also provides an overview of the individual initiatives and results from each of the four askHRgreen.org environmental education committees: Recycling and Beautification, Stormwater Education, Water Awareness, and Fats, Oils & Grease Education.

ACKNOWLEDGEMENTS

This report was prepared by the HRPDC staff in cooperation with the member localities. Preparation of this report was included in the HRPDC Work Program for Fiscal Year 2021, approved by the Commission in May 2020.

Robert A. Crum, Jr., Executive Director / Secretary

About askHRgreen.org

Launched in 2011, askHRgreen.org is more than just a robust website; it is an award-winning comprehensive public outreach initiative. The program combines traditional and social media with grassroots outreach efforts to not only educate, but inspire residents of Hampton Roads to make changes that have a positive impact on the environment. By combining local expertise and taking advantage of economies of scale, the askHRgreen.org program is able to help local jurisdictions fulfill requirements of MS4 stormwater permits, groundwater withdrawal permits, and state consent orders to reduce sanitary sewer overflows. For citizens, it has become a “one-stop shop” to find answers, resources, and inspiration for a cleaner, greener Hampton Roads. From water-wise landscaping ideas and pointers for preventing water pollution, to recycling tips and simple ways to prevent sewer overflows, all you have to do is askHRgreen.org.

Financial support for askHRgreen.org is made possible by the following member localities and agencies: the cities of Chesapeake, Franklin, Hampton, Newport News, Norfolk, Poquoson, Portsmouth, Suffolk, Virginia Beach, and Williamsburg; the counties of Gloucester, Isle of Wight, James City, Southampton, Surry, and York; the town of Smithfield; and HRSD. Members of locality staff and HRSD comprise four askHRgreen.org committees who meet monthly to develop and implement the regional program.

Recycling and Beautification Committee - A coalition of local government staff members from across Hampton Roads who are working together to share ideas and pool resources for various education programs tailored towards community beautification, litter prevention, waste reduction, and recycling education. This group has been working cooperatively since 1981.

Fats, Oils, and Grease (FOG) Education Committee - A coalition of local government staff members working together with HRSD to protect wastewater infrastructure, reduce sanitary sewer overflows, and improve local water quality. The Committee shares both technical resources and educational strategies to prevent improper disposal of fats, oils, and grease. This cooperative effort has been underway since 2007 when 13 of the region’s localities and HRSD entered into the Regional Special Order by Consent with the Virginia Department of Environmental Quality.

Water Awareness Committee - Regional public utilities staff members working together to educate citizens about aging infrastructure, the value of tap water, and the importance of water conservation. This cooperative effort to promote the vital role water plays in the quality of life of Hampton Roads and the need to conserve it assists localities in meeting requirements of various locality goals as well as water supply and ground water permit education requirements.

Stormwater Education Committee - A cooperative partnership of the region’s 17 member jurisdictions which has served as a formal adjunct to the required public information component of the Virginia Pollution Discharge Elimination System Permits (VPDES) for Phase I and Phase II Municipal Separate Storm Sewer Systems (MS4) since 1997. Local government staff members work together to share ideas and pool resources for various education programs and outreach initiatives -tailored to stormwater pollution prevention.

COVID-19
Impacts of the COVID-19 pandemic continued throughout FY21. Outreach events were limited with some in-person events only resuming late in the fiscal year. Creative public engagement strategies remained vital to the askHRgreen.org mission throughout the year. Use of new virtual platforms were leveraged to hold the first ever askHRgreen.org community webinar and proved an effective means for communicating detailed information to the public. Sidewalk decals brought water quality messaging to area residents at libraries, bus stops, and community centers as well as tourist attractions like local parks, water access points, beaches, and more. Rain barrel giveaways on social media provided a great touchpoint with existing followers and grew a new audience of newsletter subscribers. Litter in communities grew due to a new type of litter, personal protective equipment (PPE), and a reduced number of community cleanups, but was combatted quite successfully by small groups of dedicated volunteers. Despite the ongoing challenges of public education during a global pandemic, the askHRgreen.org team members continued to work diligently to raise awareness and encourage environmental action in the 757.

2020-2021 Highlights

31.5 million opportunities to see or hear about askHRgreen.org

88,544 visitors to askHRgreen.org

Community events with over 3,681 people in attendance

BAY STAR PROGRAMS
3,645 homes 62 businesses

1,865 students impacted by \$4,309 in environmental education mini grants

Launched Start Smart, Recycle Right, a new outreach & education campaign

\$25,000 grant funding for special projects

@askHRgreen
2,955

@askHRgreen
501

eNews Subscribers
6,632

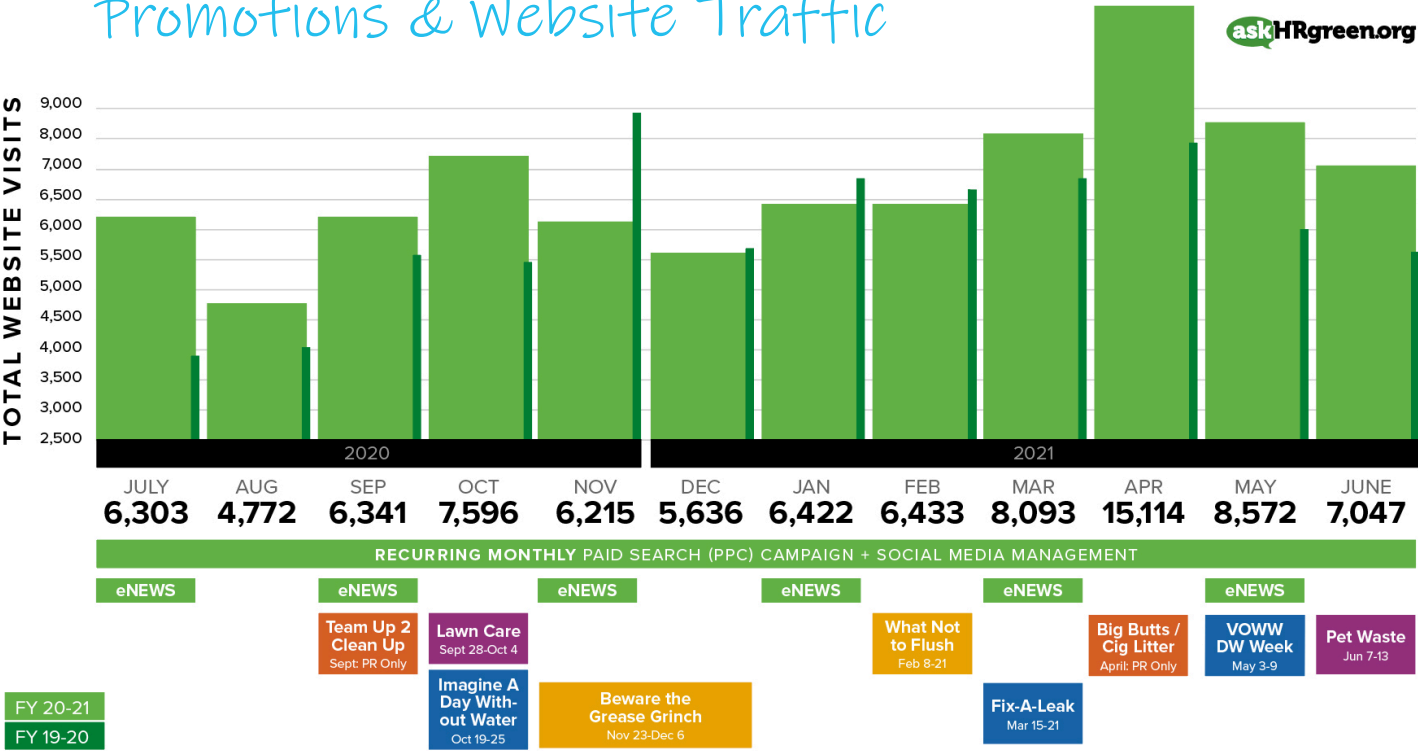
2020-2021 Media Campaigns & Promotions

2020-2021 Activity Calendar

COMMITTEE	CAMPAIGN	MEDIA	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE
R&B	Team Up 2 Clean Up	PR ONLY												
STORMWATER	Lawn Care	PV, R, O, S												
WATER AWARENESS	Imagine A Day Without Water	TV, PV, R, O, S												
FOG	Grease Grinch	TV, PV, R, O, S												
FOG	What Not To Flush	TV, PV, R, O, S												
WATER AWARENESS	Fix-A-Leak	PV, R, O, S												
WATER AWARENESS	VOWW / Drinking Water Week	TV, PV, R, O, S												
R&B	Big Butts/Cigarette Waste	PR ONLY												
STORMWATER	Pet Waste	TV, PV, R, O, S												
ALL	askHRgreen.org Newsletters	E												
ALL	Public Relations													
ALL	Social Media Management													
ALL	Search Engine Marketing													
ALL	askHRgreen.org Blog Articles													

MEDIA KEY / TV = Broadcast TV AT = Advanced TV PV = Preroll Video R = Radio P = Print O = Online S = Social Media E = Email OD = Outdoor

Promotions & Website Traffic



Website Analytics

The askHRgreen.org website continues to be the cornerstone of our outreach efforts where campaign news and events are featured prominently and content is delivered seamlessly to users on all types of devices. In FY21, we saw a 21% increase in website traffic over FY20

	2020-21	2019-20	2018-19	2017-18	2016-17	2015-16
Visits	88,544	73,379	58,893	55,735	58,113	52,530
Unique Visitors	77,212	63,146	49,816	45,661	46,282	42,539
Pageviews	125,529	117,463	86,538	93,589	92,681	93,177
Pages per Visit	1.42	1.60	1.47	1.68	1.59	1.77
Average Visit Duration	0:55	1:02	1:03	1:27	1:12	1:32
Bounce Rate	83%	79%	81%	77%	79%	75%
% New Visits	87%	86%	84%	81%	80%	80%
Mobile Devices	57%	58%	57%	54%	53%	40%
Desktop Devices	43%	42%	43%	46%	47%	60%

AVERAGE
344 PAGES
VIEWED/DAY

Once again, we achieved a nice bump in traffic over FY19-20 — 21% — and (once again) have the highest number of pageviews ever! Like last year, the majority of traffic continues to be new visitors, a clear indication of the growing awareness of our efforts.

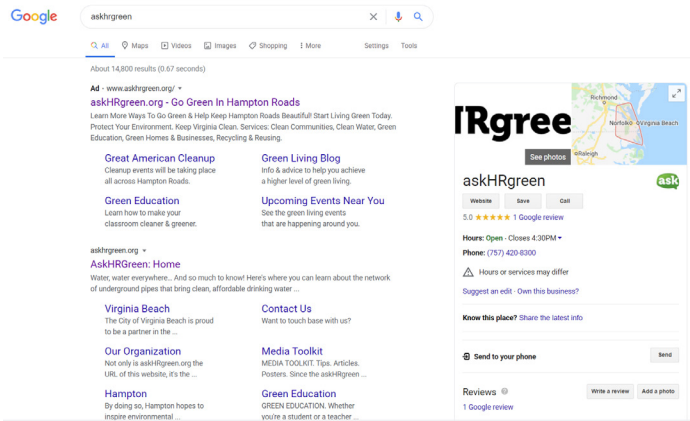
Top Website Traffic Sources & Pages Visited

- 54.45% Organic Search
- 20.73% Direct
- 15.69% Other
- 4.16% Referral
- 4.10% Social
- 0.86% Email

TOP TWENTY VISITED PAGES	
9,843	Home
8,568	Blog Article: 50 Ways to Celebrate Earth Day +472% pageviews
4,659	Good to Know/Do: Recycling Lookup - Virginia Beach +127%
4,022	Events +5% pageviews
3,499	Good to Know/Do: Lawn & Garden Best Practices +72% pageviews
3,055	Blog Article: Disposable/Flushable diaper liners
2,775	Programs: Great American Cleanup +81% pageviews
2,524	Good to Know/Do: Recycling Lookup +127% pageviews
2,262	Good to Know/Do: Electronics Recycling
2,107	Good to Know/Do: Illegal Dumping
2,064	Blog Article: Algae
1,924	Good to Know/Do: Battery Disposal
1,595	Good to Know/Do: Recycling Lookup - Chesapeake New to this list!
1,371	Blog Article: How to Add Compost to Your Lawn
1,313	Good to Know/Do: Plant Native Plants
1,279	Good to Know/Do: Recycling Lookup - Newport News New to this list!
1,202	Blog Article: You Can Prevent Street Flooding
1,145	Good to Know/Do: Recycling Lookup - Norfolk New to this list!
1,119	Good to Know/Do: Recycling Lookup - York County New to this list!
1,116	Blog

Search Engine Marketing

The askHRgreen.org Search Engine Marketing (SEM) program employs Google pay-per-click advertising to increase traffic to the website. By bidding on select keywords and phrases, our ads direct search traffic to relevant content on the askHRgreen.org website. In FY21, we had more than 376,000 Google search impressions – up 10% over FY20. Those searches drove over 16,000 clicks to relevant content on the askHRgreen.org website – an increase of 29% compared to last year. In August of 2020, Google introduced dynamic ads which use our own website content to generate targeted ads to relevant searches. This new feature was highly successful in driving search traffic to the askHRgreen.org website with a phenomenal click thru rate of 17.2%. Dynamic ads help fill in the gaps of our keyword groups and deliver the most relevant askHRgreen.org information to audiences searching online.



Search Engine Marketing Results

	2020-21	2019-20	2018-19	2017-18	2016-17	
Impressions	376,459	342,690	210,695	169,140	107,920	+10%
Clicks	16,103	12,449	11,087	7,330	4,226	+29%
Click Thru Rate (CTR)	4.28%	3.63%	5.26%	4.33%	3.92%	+18%

Top 10 Keyword Ad Groups

	Impressions	Clicks	Impression Share	Click Thru Rate
Dynamic Ads	40,935	7,039	88%	17.20%
Lawn Care	102,214	2,629	61%	2.57%
Electronics Disposal	16,390	1,570	63%	9.58%
Native Plants	39,602	1,049	18%	2.65%
Battery Disposal	13,128	967	69%	7.37%
Recycling at Home	37,467	838	43%	2.24%
Medication Disposal	3,595	513	80%	14.27%
askHRgreen General	1,336	260	69%	19.46%
Soil Testing	5,099	253	50%	4.96%
Tap Water	31,905	248	49%	0.78%

Community Outreach

Events

In a typical year, askHRgreen.org is invited to attend many community events. Events are an important part of public outreach and engagement. These events are a primary source of sign-ups for the Bay Star Homes program and the askHRgreen.org newsletter.

From local fairs to vendor expos to gardening seminars, many in-person events were cancelled throughout FY21. In spring 2021, social distancing guidelines began to relax and some groups resumed in-person, typically outdoor, events. Volunteers were able to staff six events in FY21 reaching about 3,681 people. Half of these events utilized the askHRgreen.org trailer which is filled with a variety of resources from informational brochures to eco-themed promotional items such as reusable shopping bags, stainless steel reusable straws, rain gauges, shower timers, and more. It is hoped that more events, especially those held outdoors, can safely return in FY22.

2020-2021 Community Events			Estimated Attendance
10/10/20	Litter & Recycling Expo	James City	168
4/10/21	Go Green Market	York County	1,500
4/12/21	Rain-Wise Yards & Landscapes	Virtual	63
4/18/21	Earth Day Green Market at Pembroke Mall	Virginia Beach	1,500
5/15/21	Fix-It Fair	Chesapeake	100
6/16/21	HRSD Woodstock Park Project	Virginia Beach	350
			3,681



Bay Star Homes

The Bay Star Homes program entered its fifth year in FY21. This community-based recognition program encourages residents to avoid environmentally-harmful behaviors in their home and be proactive about using voluntary stormwater management practices such as rain barrels, rain gardens, and downspout disconnects on their private property. Residents pledge to do at least eight environmentally-friendly practices as part of the program. Pledges include stormwater best practices as well as other desirable behaviors such as waste reduction, water conservation, and lower energy consumption. With an additional 286 participants signing up in FY21, the total number of participating households for the Bay Star Homes program rose to 3,645.

FY21 Bay Star Homes Registrants	
City/County	Number
Chesapeake	12
Hampton	4
Isle of Wight	1
James City	2
Newport News	12
Norfolk	231
Portsmouth	2
Suffolk	5
Virginia Beach	13
Williamsburg	1
York	3
Total	286



Total Bay Star Homes Registrants	
City/County	Number
Chesapeake	160
Franklin	13
Gloucester	19
Hampton	123
Isle of Wight	11
James City	16
Newport News	240
Norfolk	2,509
Poquoson	17
Portsmouth	42
Smithfield	13
Southampton	4
Suffolk	145
Surry	3
Virginia Beach	248
Williamsburg	3
York	79
Total	3,645

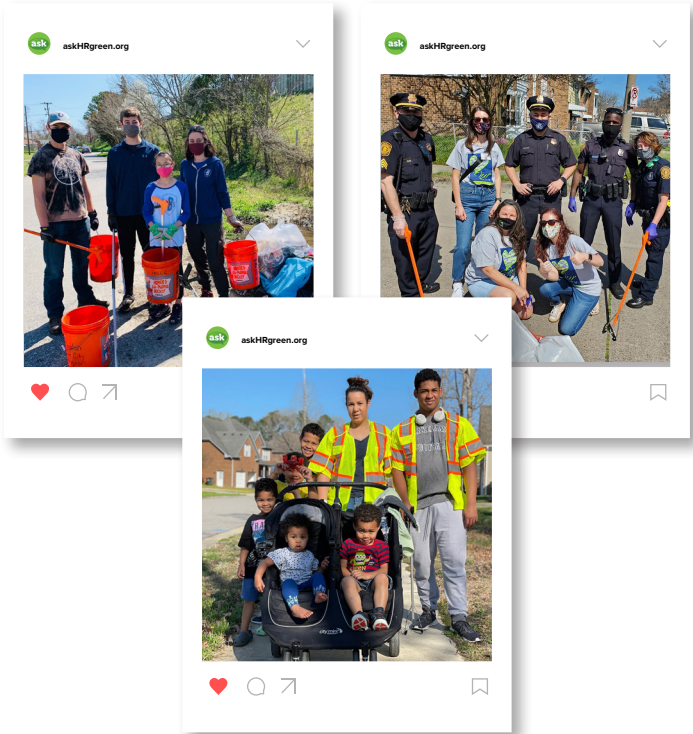


Great American Cleanup

The askHRgreen.org Recycling & Beautification Committee worked together to clean up and beautify Hampton Roads through the national Great American Cleanup (GAC) program. As part of the committee’s “Team Up 2 Clean Up” initiative, GAC engages the public and business community to get involved in beautification projects throughout the region. In FY21, there were two GAC events. The first was the rescheduled regional cleanup from March 2020 which was cancelled due to the emergence of coronavirus. The

spring event was rescheduled for September 18-19, 2020. Due to Hurricane Sally, some events were postponed for later in September, but by the conclusion, more than 15,000 pounds of litter were removed from city streets, rural routes, neighborhood parks, and shorelines. Armed with a safety plan including small group sizes, social distancing, and PPE, over 700 volunteers stepped up to organize and participate in community cleanups. This was quite the accomplishment since there were very few organized events and cleanups relied almost exclusively on volunteer-led events, including four teams totaling 50 volunteers from Huntington Ingalls Newport News Shipbuilding.

The second GAC event for FY21 was the regularly scheduled spring cleanup on March 26-27, 2021. With the buildup of PPE and fewer community cleanups, many areas were experiencing serious litter issues by spring 2021. A population of residents eager to get involved after a long winter of staying at home paired with this undeniable litter problem resulted in a record year for GAC in 2021. Together more than 1,300 volunteers showed up to bag litter from beaches and marshes, rural roadsides, and busy intersections. With more than 150 locations cleaned up throughout the region, volunteers cleared nearly 49,000 pounds of litter—over 24 tons. While there were a few organized cleanups, GAC was still largely reliant on smaller volunteer-led groups, and they did not disappoint.



All together more than 107,500 pounds (54 tons) of litter were removed through the hard work and dedication of over 2,000 volunteers through the GAC program in FY21.

Rain-Wise Yards & Landscaping Workshop

In an effort to leverage new virtual platforms for community outreach, the Stormwater Education Committee planned a free community-focused webinar for spring 2021 to encourage use of residential best management practices. The Committee partnered with the City of Norfolk and local watershed advocacy groups Elizabeth River Project, Lynnhaven River Now, and Wetlands Watch to host the event. Participants learned about problems from inadequate stormwater management, common stormwater management practices for Hampton Roads, living shorelines, conservation landscaping, maintaining stormwater management practices, and local assistance programs to assist with residential practices. The virtual workshop was attended by 63 people and recorded to



askHRgreen.org

JOIN US FOR A FREE WEBINAR:

RAIN-WISE YARDS & LANDSCAPES

**MONDAY, APRIL 12, 2021
12:00 - 1:00 PM**

**REGISTER ONLINE AT:
ASKHRGREEN.ORG/BSHWEBINAR**

Residential Stormwater Best Management Practices

Conservation Landscaping & Maintenance

Resources & Assistance Programs in Hampton Roads

Brought to you thanks to our friends at:

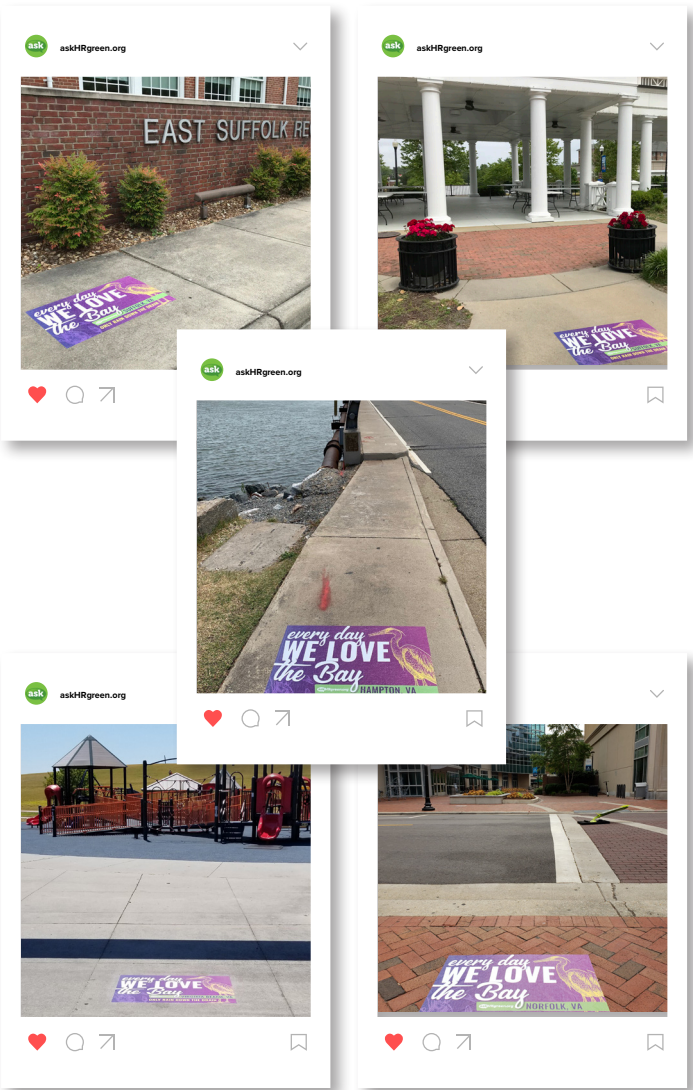
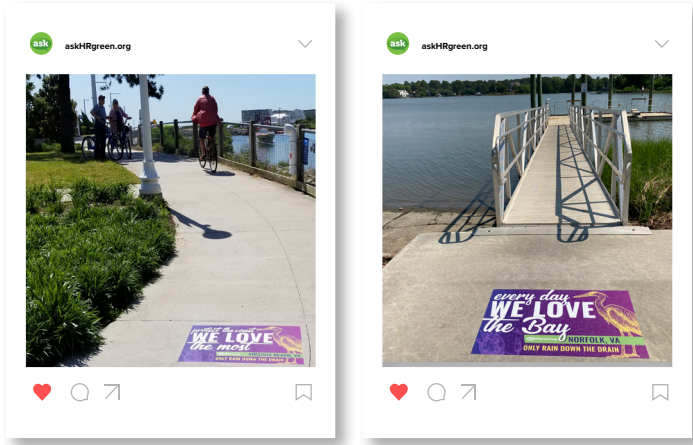


create a resource now available on YouTube. The Committee was very appreciative of the opportunity to partner with local watershed advocacy groups to bring these topics to the public and hopes to develop more virtual offerings in the future.

“Every Day We Love the Bay” Sidewalk Messaging

Piggybacking off the success of past sidewalk messaging campaigns, the Stormwater Education Committee devised a plan to pepper the region’s sidewalks with vinyl decals containing positive messaging about protecting the Chesapeake Bay. Planned originally for summer 2020, the campaign was delayed until 2021 due to the coronavirus. A small pilot project was implemented in September 2020 with only Norfolk and Virginia Beach participating. This soft launch allowed other localities to learn about the installation process for the decals and measure about how long the decals would last.

In coordination with Memorial Day weekend, Clean the Bay Day 2021, and Chesapeake Bay Awareness Week, a full launch of the sidewalk decals was rolled out in May 2021 with more than 50 sidewalk decals placed in public spaces across nine localities. Locations varied from kayak launches and beach accesses to libraries and shopping districts. The decals encourage residents and tourists alike to “love the Bay” and “protect the coast we love the most” by sending only rain down the storm drain. The campaign was promoted through public relations, the askHRgreen.org blog, a Google map of locations, and social media. The decals may last up to six months depending on foot traffic and weather conditions.

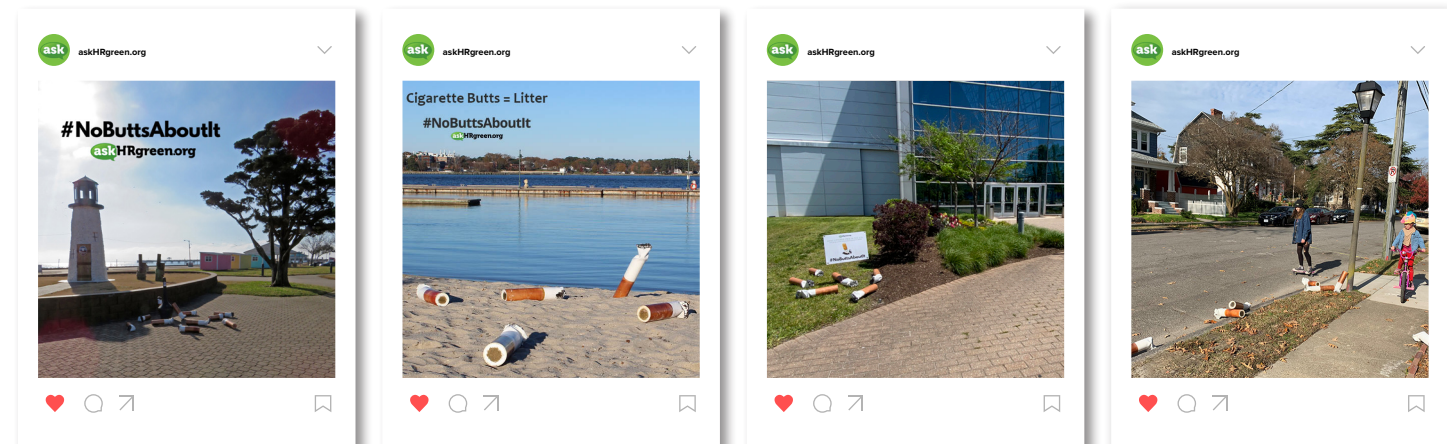


#NoButtsAboutIt

Cigarette butts are the most littered item, worldwide and locally, but coming in such a little package can sometimes make this major form of litter forgettable. Inspired to shed light on this unseen environmental issue, the Recycling and Beautification Committee set out to build larger-than-life sized cigarette butts to raise awareness and inspire action. The No Butts About It initiative, funded in part by a 30-in-30 grant from Keep Virginia Beautiful, included the building of over 60 model cigarette butts, each about two-feet in length. Made of PVC pipe, foam, and painted just right, these giant cigarette butt replicas are part conversation starter, part public art project. Starting in May 2021, the Recycling and Beautification Committee coordinated a two-week launch of the No Butts About It campaign, scheduling public displays of the model cigarette butts in places they were likely to catch a lot of attention. They were placed along waterfronts and beaches, libraries and recreation centers,

public parks, and local attractions. The campaign captured both local and national media attention, raising awareness about the importance of proper disposal of cigarette litter.

#NoButtsAboutIt



Environmental Education Mini Grant Program

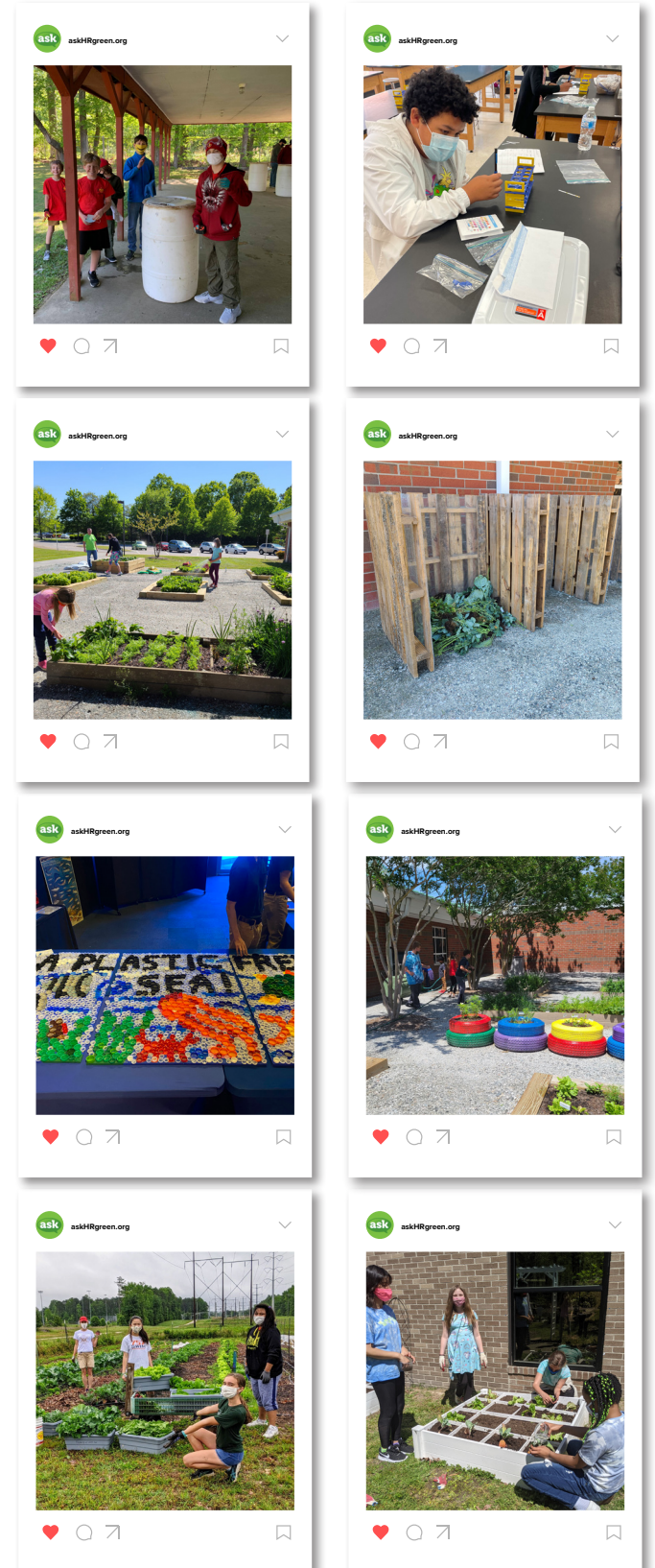
Supporting environmental education in the classroom continues to be a priority of askHRgreen.org. The Environmental Education Mini Grant Program offers all Hampton Roads teachers (K-12), youth leaders, or organizations working with youth grants up to \$500 to fund environmentally-themed projects.

The 2020-2021 school year was challenging as some schools returned to in-person instruction and many others remained virtual. Despite the challenges, askHRgreen.org was able to fund nine mini grant projects for a total of \$4,309.05 in FY21. These nine innovative groups in Hampton Roads leveraged the virtual learning platform and outdoor class time to create safe, environmental opportunities for their young learners. Students worked in schoolyard gardens, watched butterflies grow, built and delivered rain barrels to their community, experienced the negative impacts of single-use plastics, and performed water quality testing on samples from local waterways. These meaningful experiences are sure to foster a sense of connection between our environment and tomorrow's leaders.

Due to the below normal number of applications received for the mini grant program, the askHRgreen.org committees decided it would be the perfect time to reprint copies of the sixth-grade Green Learning Guides. The guides, produced in 2012, were no longer available in hardcopy and the purchase of 5,000 additional copies expanded the educational support askHRgreen.org can provide to students and teachers. Copies of both the third-grade and sixth-grade education guides are now available to teachers and youth-leaders upon request and at public events.

With assistance from the mini grant voting committee, the minigrant program webpage and application were also revamped to streamline and simplify the supplemental information applicants need to submit during the review process. Examples of successful mini grant applications, project ideas, and photos from past projects were added to the website to inspire applicants and also aid in the development of their own local environmental education projects.

Student Outreach



FY21 Environmental Education Mini Grant Projects

Project	Students	Project Description	School/Organization	City/County	Grant
Bat House and Pollinator Garden	600	Students will utilize digital learning tools and green spaces to understand the importance of healthy pollinator populations as well as the positive and negative impacts humans can have on those populations. We will integrate environmental education through the science standards in 3-5th grade around the populations of bats and bees. Students will engage in design thinking to understand the problem and generate solutions to include planting native species and supporting the habitats of critical species.	Thalia Elementary School	Virginia Beach	\$500.00
Rain Barrels and Education	25	Scout seeking to complete Eagle project will have 10-25 Scouts move, wash out, assemble the rain barrels with kits, then deliver and install the rain barrels at homes in the Newport News area. Through Nextdoor, we found about 45 households that want rain barrels. A few will be picked up. We will setup a pop-up shelter for education with the Enviroscape model and we have a display to explain the use of rain barrels for household stormwater recycling.	Boy Scouts of America	Newport News	\$500.00
BTW Bay Savers Audit Local Waterway	75	Students will complete water quality testing using water samples from a local waterway. They will test for pH, salinity, turbidity, and nitrates of three different water samples from one water source. Using the data collected, they will rate the quality of the water. After the water quality audit, students will each build a working model (Enviroscape) to represent a watershed. They will use the model to represent rain and infer a water quality rating for the lake in their model. They will then discuss, "What can people do in the environment to prevent water pollution and improve water quality?"	Booker T. Washington Middle School	Newport News	\$500.00
Composting Champions	600	As a part of the newly expanded garden program and the Garden Club, Hermitage Elementary would like to add a three-compartment composter as well as a vermicomposter to teach students about the benefits of composting and reducing waste. The resulting compost would be used in the gardens to amend the soil for the vegetables that are grown year round for the Scratch Cooking program for cafeteria lunches. Hermitage is also planning to expand their Green initiative to start collecting cafeteria scraps that would be suitable for composting.	Hermitage Elementary School	Virginia Beach	\$452.00
Food for the Tummy, Food for the Soul	200	Newtown Elementary's Garden Program has grown exponentially since its first beginnings. We are gearing up for a new growing season and need some help with seeds, plants, and lumber to replace rotting framing. We are adding in composting and natural heat for the green house, such as a heat sink. The students grow and pick the vegetables and learn about so much, including real world skills in growing, harvesting and preparing their own food.	Newtown Elementary School	Virginia Beach	\$450.00
Caterpillars in Classrooms	320	This program is designed to raise at least 48 butterflies in 16 classrooms throughout Portsmouth Public Schools. Second-grade students from 10 separate schools will observe firsthand as caterpillars eat, grow, form a chrysalis, emerge as beautiful butterflies, and eventually flutter away. As the designated release site, Hoffer Creek Wildlife Preserve's Pollinator Garden offers many native wildflower species that provide plenty of nectar to support various butterflies and other insects.	Hoffler Creek Wildlife Foundation, Inc.	Portsmouth	\$407.05
Planet or Plastic?	45	Our project will enhance programming of our newest changing exhibit, National Geographic's Planet or Plastic?, showing our dependence on plastics, the destructive effects plastics has on our environment, and how we can change the future. Being a gallery exhibit, this project will be adding COVID-19 safe-and-interactive programming while also connecting all of our existing exhibit spaces to plastics, waste prevention and waste collection.	Nauticus Foundation	Norfolk	\$500.00
Renovating Main Entrance Garden	10	To renovate the current main entrance garden to include pollinator friendly and native plants, create a raised bed vegetable garden which is adjacent to the main entrance garden, teach students about pollinator friendly plants which can help pollinate a raised vegetable garden; teach students about the importance of native plants in a home garden and how to plant and care for a vegetable garden. This area may also be used as a potential outdoor classroom for the environmental science classes.	Oscar Smith High School	Chesapeake	\$500.00
Sweets for Students	30	We have had great success with growing sweet potatoes at our Teaching Farm. The life cycle from ordering slips to harvesting potatoes is long and we have been able to host numerous "service learners" to participate - even through COVID. Students have even volunteered at our farm & info stand to educate visitors and sell, by donation, the sweets. There are so many life skills learned by our student volunteers.	Williamsburg Community Growers	Lightfoot	\$500.00
1,865					\$4,309.05

Business Outreach

Bay Star Business Program

The askHRgreen.org Stormwater Education Committee launched the Bay Star Business program in 2018 to engage the Hampton Roads business community in protecting local water quality. To become part of the free, pledge-based program, business owners sign up online by committing to environmental practices such as conserving water, recycling, cleaning up and preventing litter, properly maintaining company vehicles, organizing a community cleanup, and more. Most action items are also no- or low-cost changes which can help a business run more efficiently while conserving natural resources. Participating businesses receive a welcome packet filled with business-centric information from askHRgreen.org and Bay Star Business window clings to display in their office or on company vehicles. Bay Star Business partners are also recognized through the askHRgreen.org website and social media accounts. The increased exposure is an incentive for participating and an easy way for consumers in the region to identify businesses working for cleaner waterways. In FY21, the Bay Star Business program added 11 new partners for a total of 62 diverse participants including multi-family housing developments, restaurants, car washes, and retail establishments.



Bay Star Business Partners	
City/County	Number
Chesapeake	6
Hampton	8
James City County	2
Newport News	11
Norfolk	15
Suffolk	2
Virginia Beach	15
York	2
Portsmouth	1
Total	62

“Thank You for Washing Wisely” Campaign

As part of the Bay Star Business program, the Stormwater Education Committee launched a targeted campaign to promote the benefits of using a commercial car wash when washing your car. When residents or mobile detailing companies wash vehicles on paved driveways, parking lots, or roadways, dirty wash water often enters storm drains and flows directly to local waterways. The soap and dirt both pose a risk to the health of local waterways and marine habitats. The askHRgreen.org program promotes the use of car washes as an easy way to reduce water pollution. As part of Thank You for Washing Wisely, local car washes were offered lawn signs, window decals, and microfiber towels to distribute to patrons for signing up to participate. The signage communicates that customers who choose a commercial car wash are “washing responsibly” and enjoying a “clean car, clean bay.”

In total, 13 separate car wash locations joined the Thank You for Washing Wisely campaign. Outreach to promote washing responsibly to the public and recruit additional car wash locations across Hampton Roads will continue in FY22.



Fats, Oils, and Grease (FOG) Commercial Training and Certification Program

The regional FOG training and certification program is designed to educate local food service workers and grease haulers on how to prevent sanitary sewer backups caused by improper handling and disposal of fats, oils, and grease. FOG certification requirements vary by locality, and the free training and certification program is available through the HRFOG.com website. In FY21, the FOG Education Committee developed two new rack cards to educate employees of food service establishments on best management practices. The hydro-mechanical grease interceptor cleaning guide helps restaurants understand how to self-clean smaller (less than 25 gallons per minute) indoor grease control devices. The Committee also developed a rack card to assist food service establishments in understanding proper cooking oil management. Tips such as keeping container lids closed and not mixing brown grease with cooking oil are important to the proper collection and recycling of cooking oil. Both new rack cards were translated into Chinese and Spanish in order to better serve the staff of food service establishments in the region.

Why Clean Your Hydro-mechanical Grease Interceptor (HGI) Frequently?

FEWER SMELLS & ODORS The longer waste sits, the stronger the odors.

NO CLOGS Regular cleanings help keep sewer pipes clean and reduce backups due to clogged lines.

LONGER LIFE Rotting foods create acids which eat away at the internal components and tank, reducing the lifespan of your HGI and leading to increased repair and repl.

CLEAN WIT easier cleaning

MANAGING COOKING OIL

Safe Storage and Disposal Tips

CLEANIN

- A trash can bag, or se
- Absorbent (unscented)
- Proper han
- opening the
- bar, rubber
- Tools for re
- water and i
- scraper or
- Paper tow
- Measuring
- clear cup)

Before

- Obtain app
- clean your
- less than 2
- Adhere to
- by your loc
- Make sure
- of debris at
- equipment
- Line the tr
- absorbent
- Refer to th
- of the unit.

SERVICE

- Used cooking oil is picked up by vendors/ haulers who reuse or recycle it into other products.
- Before the oil storage container is full, call your vendor for service.
- Keep a log on site to record the date of each disposal by the vendor and the approximate volume of cooking oil removed.

askHRgreen.org

How To Clean Your Small HGI (25 gpm and under)

- Carefully remove the lid and observe installation of internal parts to ensure proper reinstallation after cleaning.
- Measure (in inches) and document the following: the total fluid depth, the thickness of the grease, and (toward the end of the process) the thickness of the solids.
- Remove the entire contents of the HGI by scooping ec, lts, baffles, hot water, ank, baffles, . Schedule

HANDLING OIL SPILLS

Spills can happen during deposits or withdrawals from a cooking oil recycling container. If there is a spill, follow these steps to assess the situation and clean it up immediately:

- Stop/contain the spill and prevent it from reaching storm drains with absorbent pads and socks. (Do not attempt to clean up spills by rinsing/hosing or using degreasers.)
- If you cannot absorb the spill, call a professional cleanup and recovery company to collect and remove the grease and wash water to prevent it from entering the storm drain.
- For smaller spills that can be cleaned with a spill kit, follow these steps:
 - Use a spill kit that includes:
 - Kitty litter
 - Disposable gloves
 - Disposal bags
 - Zip ties
 - Absorbent pads and socks
 - Apply absorbent material (kitty litter, pads, or socks) on the spill area.
 - After allowing the absorbent material to sit for a period of time, sweep carefully to avoid generating dust.
 - Collect materials and residues and place them in a waste container/bag.
 - Put the waste container/bag into a dumpster.
 - Clean the spill area with water, being sure to capture the excess water that is generated. DO NOT allow all or the cleanup material/wash water to enter the storm drain. It may be necessary to use absorbent socks around the storm drains to prevent this from happening.
 - Send any excess water collected through a drain that passes through a grease control device.
 - If any grease makes it to the storm drain, call your local FOG, Oil, and Grease (FOG) program manager or stormwater department.

in the lid, has been all excess lie the bag occurs, you i dumpster L to dump waste into clearouts, r outdoors.

ation pple HGI maintain OG.com

The FOG Education Committee also spent much of FY21 modernizing technical documents, training resources, and certification programs. With outside help from nationally-recognized FOG expert Ken Loucks, “The Interceptor Whisperer,” the Committee updated the regional model FOG ordinance and the Hampton Roads Regional Technical Standards for Grease Control Devices to reflect current industry standards and best practices. These changes were also incorporated into the FSE and Hauler training and certification programs available through HRFOG.com. The regional guidance serves as a template for local adoption and implementation in Hampton Roads and is consistent with other modern FOG programs across the United States.

Cigarette Waste Receptacle Grant Program

The Recycling and Beautification Committee partnered with the Stormwater Education Committee to launch a brand new community grant program that offers free cigarette waste receptacles to businesses and other public facilities experiencing a cigarette litter problem. The Cigarette Waste Receptacle Grant was modeled after the Pet Waste Station Grant and requires the awardee to install and maintain the cigarette waste receptacle.

Based on data from Keep America Beautiful, the proper placement of a cigarette waste receptacle at transition points (i.e. walking from a car into a business location) is strongly correlated with a decrease in cigarette litter. It seems that when made easy and convenient, smokers will make the right choice to dispose of their cigarette butts properly. Launched in May 2021, the grant program had already received 20 applications from area businesses like restaurants, community clubhouses, and office parks. So far, 26 cigarette waste receptacles have been placed in Hampton Roads during the first two months of this new program.

CIGARETTES ARE...

- the most littered item in America.
- made of plastics that do not biodegrade.
- responsible for 32% of litter in storm drains.

#NoButtsAboutIt

HELP US FIGHT CIGARETTE LITTER.

APPLY FOR A FREE CIGARETTE WASTE RECEPTACLE TO INSTALL AT YOUR BUSINESS.

While supplies last, askHRgreen.org is offering FREE cigarette waste receptacles through a new grant program. The grant is open to any business or community organization in Hampton Roads experiencing a cigarette litter problem. Applicants must take on the task of maintaining the cigarette waste receptacle which includes securing the receptacle and emptying it regularly to prevent overflowing.

One leading cause of cigarette litter is the lack of access to a conveniently located cigarette waste receptacle when smokers are extinguishing their cigarettes. Giving smokers a safe, convenient disposal option at these transition points in the community keeps cigarette butts off the ground and out of local waterways. Your business can help make a difference!

Supplies are limited, so apply today!

Submit your grant application online at www.askHRgreen.org/CigaretteWaste

askHRgreen.org

Apply now at www.askHRgreen.org/CigaretteWaste

Recycling Education & Waste Reduction

In recent years, the focus of the Recycling and Beautification Committee has turned from the quantity of recyclables collected to waste reduction and improving the quality of materials collected in residential recycling programs. The Start Smart, Recycle Right campaign captures both these important priorities by encouraging consumers to “start smart” with their purchasing decisions and then “recycle right” by only placing accepted items in the recycling cart. With turbulent recycling markets and changing municipal recycling contracts, reducing waste has become increasingly important. For start smart, consumers are encouraged to consider product packaging when making their purchase. For example, eggs or butter can be purchased in paper cartons instead of plastic containers and reusable shopping bags can replace single use plastic bags.

Reducing contamination from non-recyclable items entering the recycling stream remains another important strategy for improving recycling in Hampton Roads. A “back to basics” approach to recycling is promoted by the campaign with residents encouraged to focus on

Start Smart

Recycle Right

EMPTY • CLEAN • DRY

Recycle Right

Let's get back to the basics...

EMPTY METAL CANS

- Steel and Tin Cans
- Aluminum Cans

PAPER PRODUCTS

- Printer Paper
- Newsaper
- Magazines
- Cardboard Rolls
- Flattened Cardboard Boxes

EMPTY PLASTIC BOTTLES & JUGS WITH A NECK OR SPOUT

- Beverages
- Non-toxic Cleaning Products

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org

Never Toss

Avoid these common contamination culprits...

DIAPERS

BATTERIES

LIGHT BULBS

HOSES

CLAM SHELL PACKAGES

GREASY CONTAINERS

PLASTIC BAGS

AEROSOL CANS

Before you toss anything into the recycling bin, ask is it empty, clean, and dry and accepted where I live?

Start Smart

Recycle Right

Every community is different. Find out what's recyclable and what's not in your Hampton Roads community at askHRgreen.org/Recycle

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org

2020-21 Promotional Campaigns

recycling paper, plastic bottles, and metal cans. The Start Smart, Recycle Right campaign was developed in FY21 using \$10,000 in funds from the Virginia Department of Environmental Quality’s Litter and Recycling Competitive Grant program. A soft launch of the campaign took place in January of 2021 with a press release and social media promotions. A paid media campaign is planned for early FY 2021-2022.

Paid Media. Throughout the year, specific messages about recycling were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. A new toolkit of resources was developed to support the Start Smart, Recycle Right campaign. A series of four videos were created each focusing on an important message: the journey of recycling, reducing contamination, how to recycle right, and a 30-second ad to use in mass media campaigns. In support of the Start Smart, Recycle Right message, the Committee created a unique logo and a new recycling rack card featuring the new paper, plastic bottles, and cans focus. The Committee also purchased fridge magnet notepads which residents can use to keep recycling basics top of mind.

Public Relations. Public relations efforts supported the Start Smart, Recycle Right campaign through a news release, TV interviews, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook and Instagram. Outreach included sharing waste reduction tips, upcycling projects, and recycling basics. Recycling was also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

Litter Prevention

Litter prevention is a main focus for the Recycling and Beautification Committee. Through the Team Up 2 Clean Up program, residents and business owners are encouraged to organize small community cleanups in areas around their homes, businesses, schools, places

of worship, and more. Through Team Up 2 Clean Up, volunteers are matched with available resources including lendable litter kits which are made available at a variety of community accessible spots such as libraries and recreation centers. Volunteers are also encouraged to participate in focused regional cleanup events for Great American Cleanup. In FY21, there were two Great American Cleanup initiatives, the rescheduled FY20 Great American Cleanup held September 18-19, 2020 and the regularly scheduled Great American Cleanup for FY21 held on March 26-27, 2021. Due to the reduced number of community cleanups since 2020 and the rise of PPE litter into the landscape, communities were in desperate need of litter cleanups and litter prevention messaging in FY21. All together more than 107,500 pounds (54 tons) of litter were removed through the hard work and dedication of 2,300 volunteers through the Great American Cleanup events alone.

Paid Media. Throughout the year, specific messages about litter prevention were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. Local litter control coordinators made lendable litter kits available in easily accessible

TEAM UP 2 CLEAN UP
Hampton Roads



Hampton Roads, in partnership with Keep Virginia Beautiful, will host a two-day cleanup in honor of the Great American Cleanup.

Join volunteers across Hampton Roads to organize or participate in a community initiative. Let's work together to improve our community while practicing social distancing.

HOW YOU CAN CELEBRATE

TEAM UP 2 CLEAN UP SEPT 18-19

Be a part of the Great American Cleanup, the nation's largest community improvement program, which takes place annually in an estimated 20,000 communities nationwide.

HOW YOU CAN PARTICIPATE

BUSINESSES, CIVIC LEAGUES & SCHOOL GROUPS

Form a small team (or two) within your group and transform a cleanup site through the power of teamwork.

INDIVIDUALS AND FAMILIES

Clean your block! Gather your family together and challenge your neighbors.

HOW YOU CAN SIGN UP

GO TO askHRgreen.org/great-american-cleanup

CHOOSE your city and project preferences.

SMILE because you're doing a great thing!

EVENT INFO

SIGN UP askHRgreen.org/great-american-cleanup

SEPT
18-19
2020

TOGETHER WE'RE GOING TO CLEAN UP, GREEN UP AND SPRUCE UP THROUGH:

RIVER CLEANUPS

DUMPSITE CLEANUPS

COMMUNITY GARDENS

RECYCLING EVENTS

PARK SHELTER REPAIRS

RECREATIONAL TRAIL MAINTENANCE

OTHER BEAUTIFICATION PROJECTS



askHRgreen.org

REMEMBER, SAFETY FIRST

All volunteers should maintain a safe distance (at least 6 feet) while participating in any cleanup activities. Protective gear (rubber or nitrile gloves) should be worn at all times when handling litter and use of a trash grabber/pole is advised.

MAR
26-27
2021

TOGETHER WE'RE GOING TO CLEAN UP, GREEN UP AND SPRUCE UP THROUGH:

RIVER CLEANUPS

DUMPSITE CLEANUPS

COMMUNITY GARDENS

RECYCLING EVENTS

PARK SHELTER REPAIRS

RECREATIONAL TRAIL MAINTENANCE

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locations to help distribute litter clean up supplies including trash bags, gloves, grabbers, safety vests, and buckets.

Public Relations. Public relations outreach about litter prevention and cleanups was conducted via news releases and articles in the askHRgreen.org newsletter. The public relations campaign resulted in 16 news stories with nearly 760,000 impressions and an exposure value of over \$20,000.

Social Media. We engaged with the community via Facebook and Instagram. Outreach topics included the negative impacts of litter (especially straws, plastic bags, and PPE), engaging volunteers in community cleanups, and reporting the results of local litter cleanups. Litter prevention was also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

Cigarette Litter Prevention

Cigarette butts are the most commonly littered item worldwide. As a coastal community, cigarette litter prevention in Hampton Roads is a priority as cigarette butts make their way into local waterways, becoming a source of marine debris and water pollution. In order to shed light on this little form of litter causing big environmental impacts, the Recycling & Beautification Committee built over 60 large scale model cigarette butts for the #NoButtsAboutIt outreach campaign. Made of PVC pipe and foam and painted to perfection, each model cigarette butt is about two-feet in length. When



gathered in small groups, the cigarette butts are a great conversation starter and a powerful, thought-provoking public art installation. The Committee included lawn signs with the #NoButtsAboutIt cigarette butt displays to highlight cigarette litter facts such as cigarettes butts are the most littered item, cigarette butts are not biodegradable, and the need for properly placed cigarette receptacles to collect cigarette butts.

Paid Media. Throughout the year, specific messages about cigarette litter were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The committee purchased 500 pocket ashtrays to distribute to smokers for safe collection of cigarette butts. The committee also partnered with the Stormwater Education Committee to launch the cigarette waste receptacle grant program, offering free receptacle for local businesses and community organizations.

Public Relations. The public relations effort for #NoButtsAboutIt was a resounding success. The news release was picked up statewide and even made waves in national publications. In total, there were 18 different news stories on the cigarette litter prevention campaign

cigarette receptacles

41% of smokers report they do not have receptacles for cigarette butts at work.

cigarette filters

They don't biodegrade. 95% of cigarette filters are made of a type of plastic which persists in the environment.

cigarette butts

The most littered item in the U.S. – 32% of all litter collected

#NoButtsAboutIt

accounting for over \$80,000 in exposure value and more than 1.8 million impressions. The campaign was also featured on the askHRgreen blog and in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook and Instagram. Photos of the cigarette butt displays at landmarks throughout the region were featured along with stats about the impact of cigarette litter. Featured locations included downtown Hampton, Virginia Zoo, and the Plot in downtown Norfolk. General cigarette litter prevention messaging was incorporated as well. Cigarette litter prevention was also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

Fats, Oils & Grease (FOG) Disposal

The FOG Committee focuses each year on helping residents and local restaurants understand the sources of FOG (fats, oils, and grease) and best management practices that should be followed in order to keep this waste from contributing to sewer blockages and backups. This focal area was addressed with the following strategies:

Paid Media. The “Grease Grinch” campaign ran for two weeks from November 23 – December 6. Ads included television, radio, digital display ads and retargeting, native content, social media, and video pre-roll. Throughout the year, specific FOG messages were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.



Outreach Materials. The FOG Committee continued to distribute relevant promotional items including sink strainers, grease can lids, sponges, spatulas, and more.

Public Relations. Public relations supported public education and outreach through a variety of media channels including news releases, print coverage (The Virginian-Pilot and Daily Press), and multiple articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook and Instagram. Outreach topics included the negative impacts of improper grease disposal, fatbergs, canning the grease, and the importance of maintaining infrastructure.

What Not to Flush

The FOG Committee continues to educate the public about proper flushing etiquette and the harmful side effects of flushing personal hygiene products, wipes, dental floss, cotton swabs, and more.

Paid Media. The “What Not to Flush” media campaign ran from February 8-21. The two-week promotion included television, radio, digital display ads and retargeting, native content, social media, and video pre-roll. Throughout the year, specific what not to flush messages were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.



Outreach Materials. While outreach activities were limited in FY21, the FOG Committee continued to distribute washcloths, toilet stress squeezers, and “what not to flush” stickers in support of the message.

Public Relations. Public relations supported the message through a variety of media channels including news releases and the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook and Instagram. Outreach topics included the

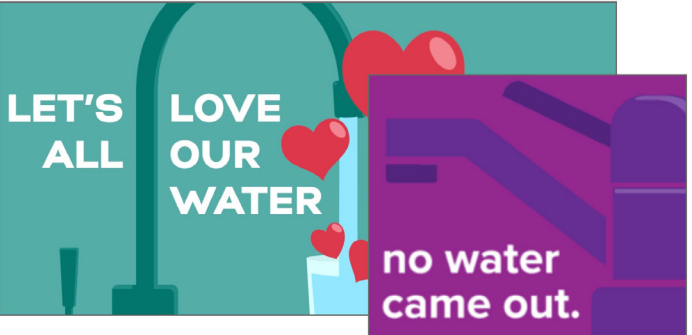
damaging side effects of flushing trash, photos showing clogs due to wipes and rags, proper medication disposal, and the myth of flushable wipes. With the increased use of disinfecting wipes due to health and safety concerns regarding COVID-19, proper disposal of wipes continued to be an important topic to promote via all of our outreach channels.

Communicating the Value of Water

Water is not “just” water. It is clean hands and a meal on the table. Water can put out a fire or become a thirst-quenching drink. From handwashing to cooking to sanitizing and cleaning, water drives our quality of life in Hampton Roads. This became so clear during the COVID-19 pandemic. In addition to emphasizing the value of local water systems, the Water Awareness Committee also spent much of 2020-2021 showing appreciation for the hundreds of essential water workers who never took a day off during the pandemic so that Hampton Roads residents could maintain access to safe, clean tap water. The Committee communicated the vital role of water and essential water workers in the following ways:

Paid Media. Throughout the year, specific messages about tap water were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. The Water Awareness Committee also conducted two media campaigns during FY21 that leveraged national water awareness initiatives as an opportunity for local outreach:

- *Imagine a Day Without Water.* Celebrated each October, Imagine a Day Without Water is a national outreach campaign designed to highlight all the ways we use water each day. A one-week media



campaign ran from October 19-25 featuring radio, TV, static and retargeted digital display ads, native content ads, social media, and video pre-roll. The campaign utilized both the poem-inspired Imagine a Day Without Water creative featuring fun graphics and vibrant colors and the Love Our Water Workers creative which shows appreciation for our local water workers and all the ways their important work impacts our day-to-day quality of life.

- *Drinking Water Week.* A one-week media campaign ran from May 3-9 as part of the national Drinking Water Week awareness campaign from American Water Works Association. The campaign included radio, TV, static and retargeted digital display ads, social media, video pre-roll, and digital advanced TV. The campaign included a new radio ad based on the Love Our Water Workers creative and added this audio recording as the voiceover to the video asset to create a more dynamic video ad.



Outreach Materials. The committee continued to distribute a variety of promotional items including reusable water bottles, mood pencils, sponges, toothbrushes, and more.

Public Relations. Public relations exposure came from features on various media channels including news releases, print articles, and articles in the askHRgreen.org newsletter. Of particular note, an op-ed penned by HRPDC staff was published for Virginia Annual Drinking Water and Wastewater Professionals Appreciation Day (June 30) in both the Daily Press and Virginian-Pilot. The op-ed thanked the region’s water workers for working throughout the pandemic, detailed the complex infrastructure involved in delivering drinking water, and

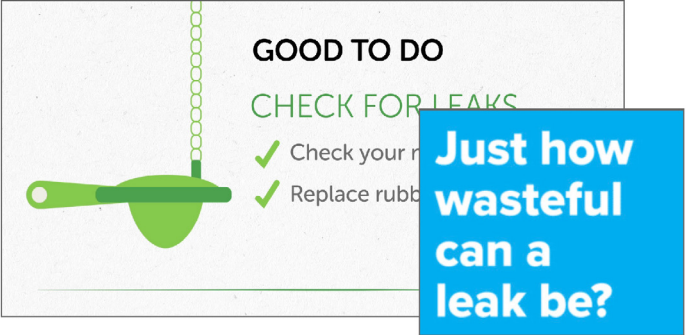
featured assistance programs for residents unable to pay their water and wastewater utility bill due to COVID-19.

Social Media. We engaged with the community via Facebook and Instagram. The askHRgreen.org social media branding campaign promoted multiple value of water messages in support of both Drinking Water Week and Imagine a Day Without Water. A Yeti tumbler giveaway was promoted through Facebook and Instagram with users asked to tag and thank an essential worker. This proved to be an engaging outreach tool to raise awareness for our hardworking essential water workers and all essential employees.

Water Conservation

Water conservation continues to be a messaging priority for the Water Awareness Committee. According to the EPA, household’s leaks can account for nearly 10,000 gallons of water wasted every year and ten percent of homes have leaks that waste 90 gallons or more per day. This is not only an important environmental issue but an economic concern for the region’s ratepayers. Fixing leaks, along with other simple indoor and outdoor water conservation measures, are key messages for the Water Awareness Committee.

Paid Media. As part of Fix-a-Leak Week, a nationwide campaign from EPA, a one-week media campaign ran from March 15-21. The campaign included radio, TV, static and targeted digital ads, video pre-roll, native content ads, and social media. The campaign used existing creative of “man on the street” interviews with Hampton Roads residents about water waste and how to find and fix a leaking toilet. The radio creative parodies the annoying sounds of household leaks and encourages residents to



fix leaks. Throughout the year, specific messages about water conservation were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The Water Awareness Committee distributed numerous promotional items to help residents conserve water including rain gauges, shower timers, toilet leak detection dye tabs, seed bookmarks, and hose nozzles.

Public Relations. Conservation messages were weaved into public relations through news releases, print coverage, and articles in the askHRgreen.org newsletter.

Social Media. We engaged with the community via Facebook and Instagram. A special “April Showers” rain barrel giveaway promotion provided one free rain barrel per week in April to social media followers who signed up for the askHRgreen newsletter. In total, we gained over 350 unique new newsletter subscribers as a result of this very popular promotion. Water conservation messages were also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

Storm Drains & Illicit Discharges

The Stormwater Education Committee continues to educate the public about storm drains: what they are, where they go, and how they can contribute to local water pollution. The popular “only rain down the drain” message was incorporated into a variety of outreach campaigns during FY21 including the “Every Day We Love the Bay” sidewalk messaging campaign, Thank You for Washing Wisely car wash campaign, and the Rain-Wise Yards and Landscaping virtual workshop.

Paid Media. Throughout the year, storm drain topics were included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. Information about storm drains and the “only rain down the drain” message were also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

Outreach Materials. The Committee maintains a comprehensive library of brochures and rack cards addressing best management practices for preventing both commercial and residential illicit discharges. askHRgreen.org also continues to promote the storm drain marking program and received four applications for the program in FY21.

Public Relations. Public relations supported this focal area through news releases and features in the askHRgreen.org newsletter. Public relations support was critical to promotion of both the “Every Day We Love the Bay” sidewalk messaging campaign and the “Thank You for Washing Wisely” car wash campaign.

Social Media. We engaged with the community via Facebook and Instagram. Outreach included awareness of local water quality problems, simple residential BMPs, and only rain down the drain messages. Social media was also an important part of promoting the “Every Day We Love the Bay” sidewalk messaging campaign by featuring the different locations across the region.

Chesapeake Bay Restoration Fund (CBRF) Grant. While the Committee did not receive a CBRF grant for use in 2020, delays in administering the FY19 grant provided the opportunity to hold rain barrel workshops in July 2020. The workshops were reimagined with safety in mind. The Hampton workshop was split into two smaller groups to maintain social distancing among participants. The Suffolk event was transitioned to a “take and make” virtual workshop. Residents picked up their supplies



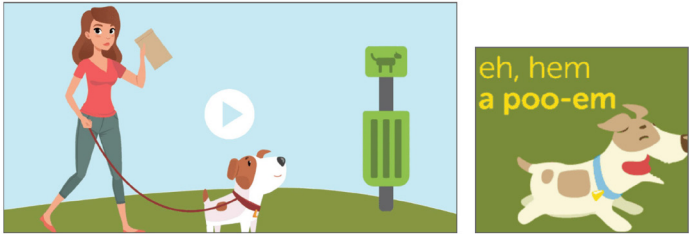
at curbside then assembled the rain barrels in their own home with the help of instructional tools, guides, and videos. The modest \$20 registration fee is a strong incentive for residents to participate and, despite the pandemic, both workshops sold out quickly.

Pet Waste

In FY21, the Stormwater Education Committee continued to raise awareness about the importance of scooping the poop and the harmful impacts of bacteria-laden waste on local water quality.

Paid Media. The committee ran a one-week media campaign from June 7-13. The campaign used existing creative featuring a whimsical “poo-em” about cleaning up after your pet and the harmful impacts of pet waste on local water quality. The campaign included TV, video pre-roll, radio, static and retargeted digital display ads, and social media. Throughout the year, pet waste and “scoop the poop” messages were also included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials. The committee purchased 2,500 bottles of hand sanitizer with a scoop the poop message.



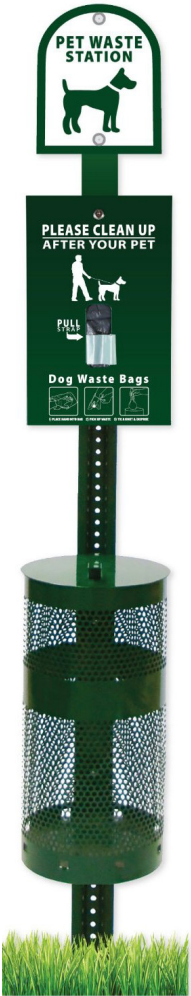
The hand sanitizer included a carabiner to attach to a dog leash and was a sought-after item due to the coronavirus pandemic. The Scoop the Poop rack card was also rebranded during FY21 and 5,000 rack cards were purchased.

Public Relations. The pet waste message was promoted in news releases, print articles, interviews with local radio and TV shows, and featured in the askHRgreen.org newsletter.

Social Media. Social media is an important tool for sharing the “scoop the poop” message, and we utilized Facebook and Instagram in our outreach efforts. The public was

encouraged to sign the scoop the poop pledge, which resulted in 58 new pledges. Some who completed the pledge also included their pet’s name, a picture and their favorite place to walk. These pictures and details were used to extend the social media campaign through additional posts thanking residents who took the pledge and spotlighting their furry friends.

Pet Waste Station Grant Program. Since 2013, the askHRgreen.org Pet Waste Station Grant Program has helped make it easy for residents to keep their streets and community spaces free of pet waste. Geared toward neighborhood associations, community groups, and property management companies, the regional program offers communities an opportunity to receive a free pet waste station. Approved applicants are responsible for installing the station, emptying the trash regularly, and



New Pet Waste Stations in FY21	
Chesapeake	2
Newport News	4
Norfolk	2
Suffolk	5
Virginia Beach	5
	18

Total Pet Waste Stations Awarded FY14 to FY21	
Chesapeake	43
Franklin/Southampton	8
Gloucester	5
Hampton	32
Isle of Wight	6
James City	32
Newport News	82
Norfolk	17
Poquoson	5
Portsmouth	21
Smithfield	8
Suffolk	41
Virginia Beach	75
Williamsburg	5
York	20
	400

replacing the bags as needed. The neighborhood is also tasked with spreading the word about the location of the new pet waste station, the negative impact of pet waste on local water quality, and encouraging its use among dog-walking neighbors. Since the launch of the program, 400 pet waste stations have been put to use across the region. Of those, 18 were awarded and installed during FY21.

Lawn Care & Fertilizer

Educating the public about proper lawn care and fertilizing practices continues to be a priority for the Stormwater Education Committee. Residents can make a big impact on local water quality with simple changes around their yard. Keeping grass and leaves out of storm drains, soil testing before fertilizing, mulch mowing, and replacing turf grass with native plants are all simple actions any homeowner can implement in their yard.

Paid Media. The committee picked up the existing animated chalkboard art creative for this media campaign, first used in FY20, for a second run from September 28 to October 4, 2020. The campaign included one-week with radio, TV, static and targeted display ads, video pre-roll, and social media. The campaign creative highlights important best management practices including mulch mowing grass and fallen leaves, soil testing, composting, and keeping storm drains clear of yard waste and debris. The creative also highlights the negative impacts on aquatic life and marine habitat when best practices aren't followed. A variety of lawn care topics are also included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. Lawn care and fertilizing tips are also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.



Outreach Materials. The committee maintains a supply of brochures and rack cards focusing on soil testing and lawn care best practices. There is also a specific rack card geared towards commercial landscapers.

Public Relations. Fertilizer and lawn care best management practices are commonly included in various public relations strategies throughout the year including news releases, interviews with local TV and radio stations, and features in the askHRgreen.org newsletter.

Social Media. Facebook and Instagram were utilized for sharing fertilizing and lawn care best management practices.

Rain-Wise Yards & Landscaping Workshop. The virtual workshop held in partnership with the City of Norfolk and local watershed advocacy groups Elizabeth River Project, Lynnhaven River Now, and Wetlands Watch featured common stormwater management practices for Hampton Roads, including living shorelines and conservation landscaping.

2020-2021 Media Campaign Results

SEPTEMBER 28 - OCTOBER 4 “Fall Leaves & Lawn Care”
Radio, TV, digital display ads, video pre-roll, social media

Impressions: 753,509
Video Views: 47,080
Clicks/Actions: 1,211

BUDGET: \$9,920 | VALUE: \$15,960 | CPM: \$13.17
ROI: 1.61:1

NOVEMBER 23 - DECEMBER 6 “Grease Grinch”
Radio, TV, digital display ads, social media, video pre-roll

Impressions: 5,243,104
Video Views: 29,417
Clicks/Actions: 1,648

BUDGET: \$15,923 | VALUE: \$23,229 | CPM: \$3.04
ROI: 1.46:1

MARCH 15-21 “Fix-a-Leak”
Radio, TV, digital display ads, native content ads, social media, video pre-roll

Impressions: 795,408
Video Views: 20,883
Clicks/Actions: 1,671

BUDGET: \$9,920 | VALUE: \$21,420 | CPM: \$12.47
ROI: 2.16:1

JUNE 7-13 “Pet Waste Disposal”
Radio, TV, digital display ads, social media, video pre-roll

Impressions: 1,244,422
Video Views: 19,117
Clicks/Actions: 1,579

BUDGET: \$9,920 | VALUE: \$12,420 | CPM: \$7.97
ROI: 1.25:1

OCTOBER 19-25 “Imagine a Day Without Water”
Radio, TV, digital display ads, native content ads, social media, video pre-roll

Impressions: 4,609,524
Video Views: 17,712
Clicks/Actions: 1,097

BUDGET: \$11,500 | VALUE: \$15,664 | CPM: \$2.49
ROI: 1.36:1

FEBRUARY 8-21 “What Not To Flush”
Radio, TV, digital display ads, native content ads, social media, video pre-roll

Impressions: 5,113,040
Video Views: 23,530
Clicks/Actions: 1,227

BUDGET: \$15,920 | VALUE: \$24,601 | CPM: \$3.11
ROI: 1.55:1

MAY 3-9 “Drinking Water Week/Value of Water”
Radio, TV, digital display ads, social media, video pre-roll

Impressions: 4,649,477
Video Views: 23,544
Clicks/Actions: 883

BUDGET: \$15,900 | VALUE: \$19,541 | CPM: \$3.42
ROI: 1.23:1

2020-2021 askHRgreen.org Public Relations Value

Date	Media Outlet	Topic	Length	Circ/Imp	PR Value
Wednesday, Sept. 2, 2020	The Suffolk-News-Herald	Upcoming cleanup long overdue	15 column inches	10,431	\$1,455.87
Wednesday, Sept. 2, 2020	Tidewater News	Upcoming cleanup long overdue	15 column inches	3,500	\$715.23
Wednesday, Sept. 2, 2020	The Smithfield Times	Upcoming cleanup long overdue	15 column inches	4,987	\$562.50
Wednesday, Sept. 2, 2020	Windsor Weekly	Upcoming cleanup long overdue	352 words each	2,000	\$75.75
Tuesday, Sept. 8, 2020	WAFX-WNOR	Katie Cullipher interview with Mike Arlo	30 minutes	7,000	\$4,500.00
Sunday, Sept. 13, 2020	The Virginian-Pilot Tabs	Giving Back: askHRgreen.org Great American Cleanup	4 column inches	259,867	\$1,948.50
Tuesday, Sept. 15, 2020	The Virginia Gazette	Organizations encourage county residents to form small groups for GAC	27 column inches	14,020	\$2,882.64
Saturday, Oct. 3, 2020	The Virginian-Pilot	Mini-grants are now available for environmental education	30 column inches	232,007	\$14,613.75
Saturday, Nov. 14, 2020	The Virginian-Pilot	Take the pledge and become a good recycler (askHRgreen.org mention)	Mention	232,007	\$243.57
Wednesday, Nov. 18, 2020	Gazette Journal, Gloucester-Matthews	Avoid Brown Friday! How to properly dispose of greasy, kitchen scraps	14.5 column inches	9,243	\$607.71
Tuesday, Nov. 24, 2020	The Virginian-Pilot	What you should do with grease after Thanksgiving	16 column inches	232,007	\$7,794.00
Tuesday, Nov. 24, 2020	Daily Press	What you should do with grease after Thanksgiving	16 column inches	95,728	\$168.00
Tuesday, Nov. 24, 2020	news.yahoo.com	https://news.yahoo.com/grease-thanksgiving-194200095.html	15.5 column inches	75,000	\$7,500.00
Tuesday, Dec. 22, 2020	WAVY-TV	Eco-friendly Christmas interview with Katie Cullipher	2:36 minutes	205,500	\$7,931.25
Saturday, Dec. 26, 2020	WYDaily News	Holiday recycling, the do's and don'ts	120 column inches	30,000	\$2,250.00
Tuesday, Dec. 29, 2020	WAVY-TV	Guide to Christmas tree recycling in Hampton Roads	Online report	10,000	\$1,500.00
Saturday, Jan. 16, 2021	WTKR-TV	Local agencies start new recycling awareness program	4 live shots at 1:30 minutes /6 minutes	164,000	\$4,230.00
Monday, Jan. 25, 2021	The Virginian-Pilot	Sustained distinguished performance	Mention HRPDC; .5 inches	232,007	\$243.56
Friday, Feb. 26, 2021	The Virginian-Pilot	Litter increases during pandemic have been nightmare for region	Mention; 2.5 column inches	232,007	\$1,217.82
Friday, Feb. 26, 2021	Daily Press	Litter increases during pandemic have been nightmare for region	Mention; 2.5 col-umn inches	95,728	\$140.04
Saturday, Feb. 27, 2021	The Virginian-Pilot	Ample room to improve consumption habits in post-pandemic world	3.5 column inches	232,007	\$1,704.93
Saturday, Feb. 27, 2021	Daily Press	Ample room to improve consumption habits in post-pandemic world	3.5 column inches	95,728	\$208.65
Monday, March 8, 2021	WTKR-TV	Litter picker uppers needed for Great American Cleanup	Online report	10,000	\$1,500.00
Wednesday, March 10, 2021	WVEC-TV	Local volunteers needed for Great American Cleanup	Online report	10,000	\$1,500.00
Sunday, March 21, 2021	The Bridges	Giving Back: Great American Cleanup	3.5 column inches	16,458	\$376.77
Sunday, March 21, 2021	The Beacon	Giving Back: Great American Cleanup	3.5 column inches	44,132	\$895.59
Sunday, March 21, 2021	The Clipper	Giving Back: Great American Cleanup	3.5 column inches	21,638	\$454.59
Sunday, March 21, 2021	The Compass	Giving Back: Great American Cleanup	3.5 column inches	17,363	\$454.59
Friday, March 26, 2021	WAVY-TV	Volunteers needed for Great American Cleanup Project in Hampton Roads	Online report	10,000	\$1,500.00
Friday, April 09, 2021	WAVY-TV "The Hampton Roads Show"	Recycling do's and don'ts, interview with Katie Cullipher	5:30 minutes	40,000	\$2,250.00
Saturday, May 1, 2021	The Virginian-Pilot	No butts about it ... group launches campaign to combat cigarette remains pollution	40 column inches	232,007	\$19,485.00
Saturday, May 1, 2021	Daily Press	No butts about it ... group launches campaign to combat cigarette remains pollution	40 column inches	95,728	\$2,385.00
Saturday, May 1, 2021	The Virginia Gazette	No butts about it ... group launches campaign to combat cigarette remains pollution	40 column inches	14,020	\$4,270.59
Saturday, May 1, 2021	MSN News	See giant cigarette butts around Hampton Roads? Here's what's going on	372 words	75,000	\$7,500.00
Saturday, May 1, 2021	news.yahoo.com	See giant cigarette butts around Hampton Roads? Here's what's going on	372 words	75,000	\$7,500.00
Saturday, May 1, 2021	Daily Advent	See giant cigarette butts around Hampton Roads? Here's what's going on	372 words	10,000	\$900.00
Saturday, May 1, 2021	Flipboard digital magazine app	See giant cigarette butts around Hampton Roads? Here's what's going on	372 words	10,000	\$900.00
Saturday, May 1, 2021	WTKR-TV (CBS) News	Large cigarette butts are showing up in Hampton Roads, but why?	1:40 minutes	164,000	\$4,230.00
Saturday, May 1, 2021	WTVR-TV (CBS) News; Richmond	Large cigarette butts are showing up in Hampton Roads, but why?	1:40 minutes	136,000	\$3,510.00

Date	Media Outlet	Topic	Length	Circ/Imp	PR Value
Saturday, May 1, 2021	Goodwordnews.com	Big cigarette butts appear in Hampton Roads	497 words	10,000	\$900.00
Saturday, May 2, 2021	The Suffolk News-Herald	Huge cigarette butt sculptures coming to Suffolk	715 words	10,431	\$750.00
Saturday, May 2, 2021	WFMZ-TV (CBS) News; Allentown, Pa.	City showing off its big butts (cigs that is)	1:22 minutes	719,000	\$18,543.00
Wednesday, May 5, 2021	Gloucester Gazette	No butts about it. Campaign seeks to snuff out cigarette litter	400 words	9,243	\$45.00
Thursday, May 5, 2021	WTKR-TV (CBS) "Coast Live"	Local litter prevention on Coast Live, interview with Mike	5:00 minutes	188,000	\$4,854.00
Friday, May 7, 2021	WVEC-TV (ABC) News	Giant cigarette butts are popping up all over Hampton Roads. Here's why.	2:10 minutes	5,000	\$450.00
Friday, May 7, 2021	City of VA Beach "Live the Life" Blog	Cigarette butt sculptures land at Virginia Beach Convention Center	N/A	5,000	\$1,500.00
Tuesday, May 10, 2021	The Smithfield Times	Big problems come from smallest litter	296 words	4,987	\$225.00
Tuesday, June 1, 2021	WAVY-TV "The Hampton Roads Show"	No butts about it interview with Katie Cullipher	4.37 minutes	40,000	\$2,250.00
Wednesday, June 2, 2021	WY Daily News	New initiative to remind residents to keep waterways clean	Online report	30,000	\$2,250.00
Wednesday, June 23, 2021	Gloucester Gazette	New decals tout best advice for keeping bay clean	15 column inches	9,243	\$628.68
Wednesday, June 30, 2021	The Virginian-Pilot	An abundance of gratitude for an essential service	645 words	232,007	\$243.57
Wednesday, June 30 2021	Daily Press	An abundance of gratitude for an essential service	645 words	95,728	\$178.83
				4,814,759	\$154,923.98

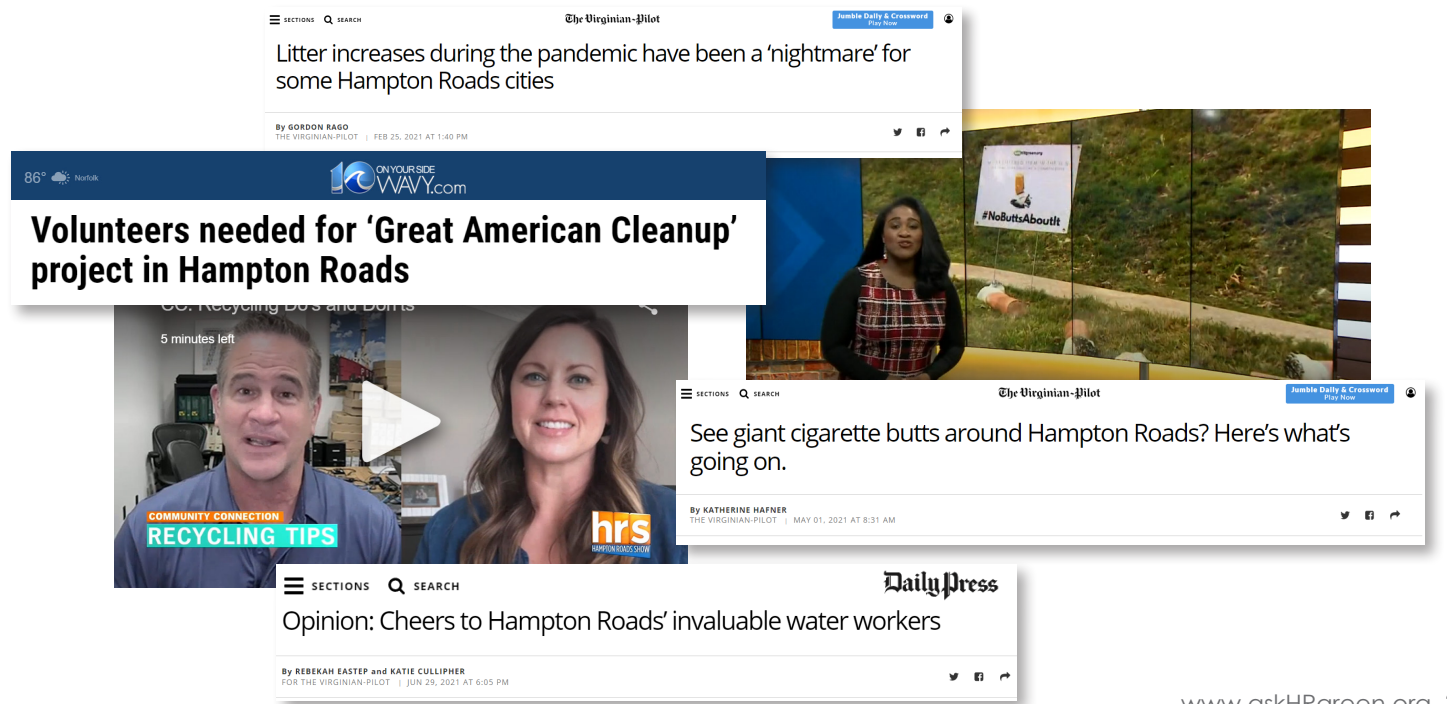
Total circulation or audience4,814,759 +232% from FY20

Total articles and interviews52

Total PR budget\$10,975

Total publicity value\$154,923 +62% from FY20

Return on Investment (ROI)14:1



Combined Media Results

PAID ADVERTISING WEEKS	52 consecutive
TOTAL MEDIA IMPRESSIONS	31,493,862
TOTAL VIDEO VIEWS	181,283
TOTAL CLICKS/ACTIONS/ENGAGEMENTS	158,548
TOTAL PROMOTIONAL CAMPAIGN BUDGET	\$160,320
TOTAL MEDIA ADDED VALUE	\$43,832
TOTAL MEDIA EXPOSURE VALUE	\$447,121
COST PER THOUSAND IMPRESSIONS	\$5.09
RETURN ON INVESTMENT (ROI)	2.79:1


Terms

- added value**
Earned but unpaid advertising value.
- ad group**
In Search Engine Marketing (SEM), an ad group contains one or more ads which target a shared set of keywords.
- average position**
A ranking system that determines where your search engine marketing ad will display on a web search results page (i.e. top of page v. bottom of page).
- bounce rate**
The percentage of visitors who enter the site and “bounce” (leave the site) rather than continue viewing other pages within the same site.
- click through rate (CTR)**
A way of measuring online advertising. The CTR of an advertisement is defined as the number of clicks on an ad divided by its impressions, expressed as a percentage.
- cost-per-click (CPC)**
The cost associated with a person clicking on a display ad in search engine marketing.
- exposure value**
The combination of advertising cost, added value, and public relations value.
- frequency**
The number of times an individual (among the target audience) is exposed to the message.
- impressions**
The number of times an advertisement or public relations placement can be seen or heard by an audience.
- public relations value**
The equivalent advertising cost of a public relations article, interview, internet placement, etc. times three. Because a public relations placement has a higher value with an audience than advertising, it is assigned a higher value.

- reach**
The number or percentage of people within the target audience who are exposed to an advertising message at least once over a specific period of time.
- search engine marketing (SEM)**
The process of attracting traffic to a website from search engine results pages on a pay-per-click basis.
- search engine marketing (SEO)**
The process of improving the quality of a website so that it appears higher in natural (“organic”) search results.
- unique visitors (users)**
The number of people who visit a website within a specific period of time. If they visit more than one time within the period, their initial visit as well as their subsequent visits are counted as sessions. A user may have one session or multiple sessions.

Appendix A

Search Engine Marketing Results
July 2020 - June 2021

Campaign report July 2020 - June 2021 Total				
				
July 1, 2020 - June 30, 2021				
Annual Campaign Totals	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	376,459	16,103	50%	4.28%
July 1, 2019 - June 30, 2020	342,690	12,449	51%	3.63%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic ads	40,935	7,039	88%	17.20%
Lawn Care	102,214	2,629	61%	2.57%
Electronics Disposal	16,390	1,570	63%	9.58%
Native Plants	39,602	1,049	18%	2.65%
Battery Disposal	13,128	967	69%	7.37%
Recycling At Home	37,467	838	43%	2.24%
Medication Disposal	3,595	513	80%	14.27%
AskHRGreen General	1,336	260	69%	19.46%
Soil Testing	5,099	253	50%	4.96%
Tap Water	31,905	248	49%	0.78%

July 1, 2020 - July 31, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	46,318	942	41%	2.03%
July 1, 2019 - July 31, 2019	18,365	1089	69%	5.93%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Lawn Care	17,812	365	53%	2.05%
Electronics Disposal	1,736	156	75%	8.99%
Recycling At Home	4,855	75	37%	1.54%
Battery Disposal	1,223	72	58%	5.89%
Native Plants	2,315	58	31%	2.51%
Rain Barrels	1,003	41	41%	4.09%
Tap Water	6,127	31	15%	0.51%
Medication Disposal	235	28	86%	11.91%
Soil Testing	528	24	61%	4.55%
Plastic Bag Recycling	374	20	61%	5.35%
August 1, 2020 - August 31, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	50,011	1,449	46%	2.90%
Aug 1, 2019 - Aug 31, 2019	17,329	1050	68%	6.06%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	4,421	580	85%	13.12%
Lawn Care	15,805	257	50%	1.63%
Electronics Disposal	1,960	164	65%	8.37%
Battery Disposal	1,829	114	54%	6.23%
Recycling At Home	4,125	78	35%	1.89%
Native Plants	2,732	46	18%	1.68%
Tap Water	4,437	34	33%	0.77%
Soil Testing	780	34	48%	4.36%
Medication Disposal	263	26	72%	9.89%
AskHRGreen General	155	21	56%	13.55%

September 1, 2020 - September 30, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	42,713	1,484	62%	3.47%
Sept 1, 2019 - Sept 30, 2019	16,777	1055	66%	6.29%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	4,250	709	90%	16.68%
Lawn Care	14,260	313	60%	2.19%
Electronics Disposal	1,606	141	62%	8.78%
Battery Disposal	1,485	70	71%	4.71%
Recycling At Home	3,394	63	39%	1.86%
Native Plants	2,095	32	11%	1.53%
Soil Testing	572	29	47%	5.07%
AskHRGreen General	167	23	71%	13.77%
Medication Disposal	227	21	68%	9.25%
TMDL	1,021	17	43%	1.67%

November 1, 2020 - November 30, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	28,857	1,482	62%	5.14%
Nov 1, 2019 - Nov 30, 2019	14,451	1066	69%	7.38%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	4,538	831	91%	18.31%
Lawn Care	5,149	167	63%	3.24%
Electronics Disposal	1,356	143	60%	10.55%
Recycling At Home	3,506	86	46%	2.45%
Battery Disposal	1,101	78	71%	7.08%
Native Plants	3,143	54	15%	1.72%
AskHRGreen General	114	23	74%	20.18%
Medication Disposal	184	19	74%	10.33%
Tap Water	2,113	16	68%	0.76%
Soil Testing	253	15	38%	5.93%

October 1, 2020 - October 31, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	37,250	1,582	62%	4.25%
Oct 1, 2019 - Oct 31, 2019	17,037	993	69%	5.83%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	4,437	783	91%	17.65%
Lawn Care	10,102	309	61%	3.06%
Electronics Disposal	1,585	143	62%	9.02%
Battery Disposal	1,276	83	72%	6.50%
Recycling At Home	4,037	58	39%	1.44%
Native Plants	2,731	53	11%	1.94%
Tap Water	2,220	26	61%	1.17%
Medication Disposal	306	25	72%	8.17%
Soil Testing	365	20	42%	5.48%
TMDL	1,015	18	51%	1.77%

December 1, 2020 - December 31, 2020				
Total Monthly Campaign	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
	28,113	1,567	66%	5.57%
Dec 1, 2019 - Dec 31, 2019	9,608	691	73%	7.19%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	5,777	1,016	89%	17.59%
Electronics Disposal	1,574	162	60%	10.29%
Battery Disposal	1,188	106	76%	8.92%
Recycling At Home	3,773	77	45%	2.04%
Lawn Care	2,815	76	58%	2.70%
Native Plants	1,982	34	15%	1.72%
Medication Disposal	246	19	76%	7.72%
Tap Water	2,593	16	67%	0.62%
TMDL	1,002	15	48%	1.50%
AskHRGreen General	63	11	56%	17.46%

January 1, 2021 - January 31, 2021		PPC Clicks	Impression Share	Click Thru Rate
Total Monthly Campaign	PPC Impressions			
	33,011	1,524	59%	4.62%
Jan 1, 2020 - Jan 31, 2020	13,563	946	70%	6.97%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	5,171	872	87%	16.86%
Battery Disposal	1,440	130	74%	9.03%
Lawn Care	4,137	122	58%	2.95%
Electronics Disposal	1,542	117	50%	7.59%
Recycling At Home	3,769	72	38%	1.91%
Native Plants	3,134	65	12%	2.07%
AskHRGreen General	136	38	75%	27.94%
Medication Disposal	326	26	82%	7.98%
TMDL	1,008	20	55%	1.98%
Soil Testing	429	20	39%	4.66%

February 1, 2021 - February 28, 2021		PPC Clicks	Impression Share	Click Thru Rate
Total Monthly Campaign	PPC Impressions			
	23,123	1,269	58%	5.49%
Feb 1, 2020 - Feb 29, 2020	17,526	994	54%	5.67%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	3,476	617	89%	17.75%
Lawn Care	4,461	160	64%	3.59%
Electronics Disposal	1,012	102	58%	10.08%
Recycling At Home	2,823	79	48%	2.80%
Native Plants	2,938	78	16%	2.65%
Battery Disposal	999	69	69%	6.91%
Medication Disposal	349	57	84%	16.33%
AskHRGreen General	133	22	71%	16.54%
Soil Testing	314	17	54%	5.41%
Tap Water	2,270	14	61%	0.62%

March 1, 2021 - March 31, 2021		PPC Clicks	Impression Share	Click Thru Rate
Total Monthly Campaign	PPC Impressions			
	7,806	180	91%	2.31%
March 1, 2020 - March 31, 2020	51,856	1013	37%	1.95%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Lawn Care	4,225	74	91%	1.74%
Dynamic Ad Group	221	24	99%	10.86%
Native Plants	317	21	88%	6.62%
Recycling At Home	749	16	90%	2.14%
Tap Water	802	9	93%	1.12%
Fertilizer Tips	150	5	90%	3.33%
Electronics Disposal	57	4	78%	7.02%
Great American Cleanup	79	3	86%	3.80%
Medication Disposal	34	3	89%	8.82%
Battery Disposal	50	3	82%	6.00%

April 1, 2021 - April 30, 2021		PPC Clicks	Impression Share	Click Thru Rate
Total Monthly Campaign	PPC Impressions			
	30,164	1,668	47%	5.53%
April 1, 2010 - April 30, 2020	53,932	1,081	36%	2.00%
Top 10 Keyword Groups	PPC Impressions	PPC Clicks	Impression Share	Click Thru Rate
Dynamic Ad Group	3,219	613	83%	19.04%
Lawn Care	9,596	308	65%	3.21%
Native Plants	8,103	216	12%	2.67%
Medication Disposal	708	156	88%	22.03%
Electronics Disposal	1,007	96	50%	9.53%
Battery Disposal	793	88	72%	11.10%
Recycling At Home	1,756	66	39%	3.76%
AskHRGreen General	95	29	79%	30.53%
Soil Testing	488	19	47%	3.89%
Rain Barrels	456	18	36%	3.95%

May 1, 2021 - May 31, 2021				
	PPC			Click Thru
Total Monthly Campaign	Impressions	PPC Clicks	Impression Share	Rate
	26,286	1,693	53%	6.44%

May 1, 2020 -May 31, 2020	52,544	1,226	45%	2.33%
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	PPC			Click Thru
Top 10 Keyword Groups	Impressions	PPC Clicks	Impression Share	Rate
Dynamic Ad Group	3,613	681	86%	18.85%
Lawn Care	7,216	255	67%	3.53%
Native Plants	5,987	222	18%	3.71%
Electronics Disposal	1,308	131	63%	10.02%
Medication Disposal	391	82	83%	20.97%
Battery Disposal	951	79	74%	8.31%
Recycling At Home	2,136	75	42%	3.51%
Soil Testing	603	46	60%	7.63%
AskHRGreen General	145	40	67%	27.59%
Tap Water	1,323	29	44%	2.19%

June 1, 2021 - June 30, 2021				
	PPC			Click Thru
Total Monthly Campaign	Impressions	PPC Clicks	Impression Share	Rate
	22,807	1,263	64%	5.54%

June 1, 2020 -June 30, 2020	59,702	1,245	47%	2.09%
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	PPC			Click Thru
Top 10 Keyword Groups	Impressions	PPC Clicks	Impression Share	Rate
Dynamic Ad Group	1,812	313	88%	17.27%
Lawn Care	6,606	223	79%	3.38%
Electronics Disposal	1,647	211	73%	12.81%
Native Plants	4,125	170	32%	4.12%
Recycling At Home	2,544	93	63%	3.66%
Battery Disposal	793	75	83%	9.46%
Medication Disposal	326	51	80%	15.64%
Tap Water	1,615	35	63%	2.17%
Soil Testing	442	22	58%	4.98%
Rain Barrels	84	16	69%	19.05%

Summary for FY21 Environmental Education Mini Grants

Total Projects Funded in FY21: 9
 FY21 Mini Grant Budget: \$10,000.00
 Total Grant Funds Awarded: \$4,309.05

Name of Project	Number of Students	School/Facility	City/County	Awarded
Bat House and Pollinator Garden	600	Thalia Elementary School	Virginia Beach	\$500.00
Rain Barrels and Education	25	Boy Scouts of America	Newport News	\$500.00
BTW Bay Savers Audit Local Waterway	75	Booker T. Washington Middle School	Newport News	\$500.00
Composting Champions	600	Hermitage Elementary School	Virginia Beach	\$452.00
Food for the Tummy, Food for the Soul	200	Newtown Elementary School	Virginia Beach	\$450.00
Caterpillars in Classrooms	320	Hoffler Creek Wildlife Foundation, Inc.	Portsmouth	\$407.05
Planet or Plastic?	45	Nauticus Foundation	Norfolk	\$500.00
Renovating Main Entrance Garden	10	Oscar Smith High School	Chesapeake	\$500.00
Sweets for Students	30	Williamsburg Community Growers	Lightfoot	\$500.00
Totals	1,865			\$4,309.05

Projects continued from FY20:

Name of Project	Number of Students	School/Facility	City/County	Awarded
Composting Know-How	100	Williamsburg Community Growers	Lightfoot	\$500.00
Native Pollinator Habitat Stewardship	865	Spratley Gifted Center	Hampton	\$500.00

Project	Bat House and Pollinator Garden
Recipient	Thalia Elementary School
Locality	Virginia Beach
Award	\$500.00

Project Description: The students will utilize the our digital learning platform and the school's green spaces to engage in problem/environmental based learning followed through with authentic service tasks on the school property. Students will understand the importance of healthy pollinator populations as well as the positive and negative impacts humans can have on those populations. We will integrate environmental education through the science standards in 3-5th grade around the populations of bats and bees. Students will engage in design thinking to understand the problem and generate solutions to include planting native species and supporting the habitats of critical species. By June of 2021 the bat houses will be installed and several projects of planting native species will have been implemented.

A mini grant summary was not received for this project.

Project	Rain Barrels and Education
Recipient	Boy Scouts of America
Locality	Newport News
Award	\$500.00

Project Description: Working with Scouts seeking an Eagle project to gain the Eagle rank. The Scout will have 10-25 Scouts (depending upon State regulations) move, wash out, assemble the rain barrels with kits, then deliver and install the rain barrels at homes in the Newport News area. Through Nextdoor, we have found about 45 households that want rain barrels. A few will be picked up. We will setup a pop up shelter for education with the EnvironScape model. We have a display to explain its use the household stormwater recycling by Master Naturalists. The barrels are donated by Coca-Cola.

Project Outcome: The rain barrel project went well. The Scouts and families receiving the rain barrels learned about stormwater recycling importance and watershed importance. The value of the stormwater is in the use of watering plants around the home and controlling runoff. Instruction sheets of usage was given to each homeowner. Youth learn about importance of native plants and water quality.

What did the students enjoy the most about this project? The Scouts enjoyed doing the work of washing the barrels with a pressure washer, drilling the holes in the barrels, and installing the connector parts. The Scout had to adjust his plans for a different way of picking up the barrels. He had the Scouts organized into groups for each phase of the manufacturing. The Scout had a model of the intended installation and a map for the delivery to homes. The Scouts enjoyed making the rain barrels with the use of tools, measuring devices and following plans.

How could a similar project be improved? Every Scout working on the rain barrel project has to plan his own project and therefore it's a little different each time. Depending upon the number of Scouts and vehicles available a map of the deliveries worked out well. The Scout had a lot of happy homeowners. All homeowners expressed appreciation for the delivery and installation. Many don't have a means of transporting the barrels or tools to install to the downspout.



Project	BTW Bay Savers Audit Local Waterway
Recipient	Booker T. Washington Middle School
Locality	Newport News
Award	\$500

Project Description: Students will complete water quality testing using water samples from a local waterway. They will test for pH, salinity, turbidity, and nitrates of 3 different water samples from one water source. Using the data collected, they will rate the quality of the water. After the water quality audit, students will each build a working model (Enviroscape) to represent a watershed. They will pour water over the model to represent rain and infer a water quality rating for the lake in their model. They will then discuss, "What can people do in the environment to prevent water pollution and improve water quality?" The students will:

- Carry out investigations and take metric measurements using appropriate tools. They will conduct a water audit by measuring pH, turbidity, nitrates, and salinity.
- Construct, interpret, and analyze data by organizing data sets to reveal patterns and suggest relationships.
- Construct conclusions and explanations that include quantitative data and valid and reliable evidence obtained from the students' own investigations. They will describe the overall health of the ecosystem. The students will use the conclusions to propose ways to maintain water quality within a watershed.
- Explain the factors that affect water quality in our area and how those factors can affect an ecosystem.
- Develop and use models to explain causes of water quality and decide on mitigation strategies to improve local waterways. Investigate and understand that land and water have roles in watershed systems' natural processes, human activities, and biotic and abiotic factors. Students will understand that all these contribute to the health of a watershed system.

Project Outcomes: Students completed all of the water quality testing of 3 different water sources in Newport News. Each student analyzed his/her data and gave each indicator a grade. They evaluated those grades and gave the water an overall grade of "C".

They also built a model of a mini wetland to simulate how a wetland filters water. Some were successful in filtering their dirty water and others were not. Those that were not successful were able to evaluate what they could change to successfully filter the water.

These activities successfully incorporated 3 areas of the 6th grade science curriculum-
 Scientific Investigations- 6.1 a-d
 Watersheds- 6.8 a. d.
 Environment- 6.9 c. e.

What did the students enjoy the most about this project?

Hands-on using real science equipment
 Testing local water
 Finding Grade Point Average (GPA) for the final grade (water quality)
 Building the wetland
 Getting dirty
 Watching the water flow through the wetland model
 The anticipation of whether the water will be clean or dirty

Being successful by making clean water

How could a similar project be improved? Only planned one class period (1.5 hours) for the activities. Next time, I will plan for 2 class periods, because I think the class would have benefited by having a discussion about successes and possible changes at the end of each activity.

Next time, I will collect the water samples closer to the time for the activities. I think some of the data may have not been accurate because the water had been sitting for a time.

The students need more opportunities "grading" water quality and calculating grade point average.



Project	Composting Champions
Recipient	Hermitage Elementary School
Locality	Virginia Beach
Award	\$452

Project Description: As a part of the newly expanded garden program and the Garden Club, Hermitage Elementary would like to add a three compartment composter as well as a vermicomposter to teach the students about the benefits of composting and reducing waste. The resulting compost would be used in the gardens to amend the soil for the vegetables that are grown year round for the Scratch Cooking program for cafeteria lunches. Hermitage is also planning to expand their Green initiative to start collecting cafeteria scraps that would be suitable for composting.

The three compartment composter would be built from upcycled pallets, which will reduce the overall cost of the project as well as teach the students about upcycling. The vermicomposter would also be utilized in the gardens with the castings being made into "worm tea" to feed the garden. The students would learn how vegetable and garden scraps and weeds can turn into usable nutrient rich soil for the garden. They will learn about reducing the amount of waste they produce by making it into a useful product. The vermicomposter would teach students about the importance of insects and other organisms in the soil and the part that they play in creating the soil that we walk on. The resulting casting would be utilized in the garden as well.

Project Outcomes: Students were able to help with the process of building a 3-compartment composter as well as a worm bin for vermicomposting. We are able to utilize the composters for green waste with our new garden expansion. Students are able to see how food waste and garden scraps can be utilized in the garden and how the different composting methods work. Third graders were given a lesson on soil (SOL 3.7) and were able to be hands-on in exploring the types of soil and how compost helps in the garden. First graders were able to explore Life Processes (SOL 1.4) and Earth Resources (SOL 1.8) and were able to see how soil provides nutrients to plants and how compost helps the plants grow. Systems is a theme that goes across all grade levels. Kindergarten to Fifth grade has been able to benefit from this project. Our Scratch Cooking program in which we harvest vegetables from the gardens to serve at lunches has benefited. We recently harvested 92.6 pounds of fresh vegetables to serve at lunch. The students have enjoyed seeing the composting process and how it works.

What did the students enjoy the most about this project? The students enjoy the worm bin and feeding the worms. Every time we check on them and the scraps are gone they are amazed. They love seeing the process of making compost. We also make worm tea with the castings and use that to water the gardens. Students are able to observe how adding nutrients that are found in the compost help to make the garden thrive. Students also like adding to the 3-compartment composter. They are learning about taking temperature readings to see if it is getting too hot and learn to turn it over, add water, or make the pile smaller. They have also learned how to use the PH and moisture meters as well as the other tools to use in the garden.

How could a similar project be improved? Covid definitely made the process of building the composters challenging. We had to adhere to the physical distancing guidelines as well as the masking requirements. The project took a bit longer because of this. We had to have less help than we would have liked in the actual building process, but students are able to help with the process of composting anytime and are enjoying it.



Project	Food for the Tummy, Food for the Soul
Recipient	Newtown Elementary School
Locality	Virginia Beach
Award	\$450

Project Description: Newtown Elementary's Garden Program has grown exponentially since its first beginnings. We now have a sizeable vegetable garden to complement our butterfly, herb and other gardens. We have added a Green House. The district has launched a Scratch Cooking program they want supplied by a student led garden project with the students cooking what they grow. We have received grant money to fence the garden in and for furniture. The district has added outdoor wifi access points to make them digitally ready. We are gearing up for a new growing season and need some help with seeds, plants, lumber to replace rotting framing. We are adding in composting and natural heat for the green house, such as a heat sink. The students grow and pick the vegetables and learn about so much. They truly love the garden experience. Our families love our Thirsty Thursday concept when they get to come in and learn some as well. Last year we added a cooking club component onto our garden project. Students learn real world skills in growing, harvesting and preparing their own food. Along with that we have been incorporating math objectives such as arrays and patterns. Below are other objectives our garden can be for in teaching:

- Living and non-living parts of the environment
- Geometric shapes in nature
- Life cycles of plants, butterflies and more
- Organic methods for growing vegetables
- Sustainability lessons using our composters and rain barrels
- Different uses of plants and proper planting times

Project Outcomes: This was another banner year for the school gardens even with the pandemic. The pandemic did make things more of a struggle, but we had a period in the fall where we were able to be face to face and have a garden club and again since February. Through other grant programs and donations, we were able to fence in the garden and add seating. This drew out the teachers and classes. Classes were held specifically focused on Math and Science SOLs for measurement and symmetry as well as the life cycles of plants and butterflies. The district added in a WIFI access point in the garden and it can be used as an outdoor classroom.

What did the students enjoy the most about this project? They loved learning about the different ways things can be food and the fact that other parts of the plant are edible too. But they really liked using the tools for the wood construction and the lifecycle of the butterfly. The Symmetry lesson was also a big hit. This year because of the pandemic they simply loved being outside.

How could a similar project be improved? By showing teachers the instructional impact on the students. Show them that math, reading, writing, science and even social studies can be brought into lessons in the gardens. Giving the students relevance and concrete learning will stick with them and increase their vocabulary with greater sticking power than just reading about it. You also have to show them how easy it is to maintain when everyone pitches in.



Project	Caterpillars in Classrooms
Recipient	Hoffler Creek Wildlife Foundation, Inc.
Locality	Portsmouth
Award	\$407.05

Project Description: Caterpillars in Classrooms is a program designed to raise at least 48 butterflies in 16 classrooms throughout Portsmouth Public Schools. Second-grade students from 10 separate schools will observe firsthand as caterpillars eat, grow, form a chrysalis, emerge as beautiful butterflies, and eventually flutter away. As the designated release site, Hoffer Creek Wildlife Preserve's (HCWP) Pollinator Garden offers many native wildflower species that provide plenty of nectar to support various butterflies and other insects. Hoffer Creek Wildlife Foundation (HCWF) assumes responsibility for providing all necessary materials for this pilot program. Supplies include locally collected larvae, butterfly enclosures, natural food sources, and caterpillar care instructions to maximize the project's success.

Based on guidance from the Butterfly Society of Virginia and research conducted by Cecilia Boyd, an HCWF volunteer with a master's degree in biology, Caterpillars in Classrooms focuses on the black swallowtail butterfly. This native species is common throughout Portsmouth. These butterflies lay their eggs in late April, and offspring are fully developed by early June, just in time for the end of the school year.

The fascinating growth and development of black swallowtail butterflies in the classroom, whether in-person or virtual, allows students to form a tangible connection to the natural world and fosters an excitement for learning. Teachers benefit from a unique advantage for educating their pupils about the significance of native pollinators, the plants they rely on for survival, and environmental stewardship.

This project also reinforces the 2nd-grade Standards of Learning principles regarding life processes, living systems, and earth resources.

The Pollinator Garden at HCWP is an easily accessible natural area that provides an immersive experience year-round for Portsmouth Public School students. Seed bombs spread by visitors in the Spring of 2020 sowed Indian Blanket, Calliopsis, and other wildflowers in the garden. Continuing to improve this area by planting the black swallowtail butterfly's host plant, Golden Alexander, will ensure they are supported in this habitat and have a place to lay eggs of their own in the future.

Project Outcomes: The major success of Caterpillars in Classrooms was introducing students to the life cycle of butterflies in a way that most had not seen before. Across all classrooms, the one non-varying aspect of this project was the students' excitement in checking on the growth of the caterpillars each day. When tested on the butterfly life cycle, students excelled. All but one classroom raised their caterpillars to the butterfly stage and released them at Hoffer Creek Wildlife Preserve. Despite some unforeseen challenges, the overall outcome of this project met the initial goal of providing a unique educational tool for teachers and fostering the students' excitement for learning.

What did the students enjoy the most about this project: With so many different aspects to this project, it is not easy to choose just one as the overall favorite. Some students were captivated by the growth of the caterpillars and were surprised at how small they were in the beginning. In addition, many were impressed by how much food the caterpillars ate as they matured. Portsmouth Public Schools provided *My, Oh My, a Butterfly* and *The Very Hungry Caterpillar* for the classes to read together. These books provided an extra level of engagement that the students enjoyed. The formation of the chrysalis also stood out as an exciting moment for many. A few of the classes had fun wrapping up the project by naming their butterflies after they emerged.

How could a similar project be improved? The valuable lessons learned throughout Caterpillars in Classrooms will undoubtedly improve the project for future participants. A few classrooms reported that one or more of their caterpillars did not make it to the chrysalis stage. Unfortunately, there was even one classroom that lost all of its caterpillars near the beginning of the project. More food sources and potentially

more caterpillars will be provided per enclosure to account for this possibility moving forward. Many of the chrysalises attached to less than stable areas within the enclosures. Providing small, sturdy branches will give caterpillars more options for attaching. Restrictions due to COVID-19 created challenges like limiting the frequency that students could see the caterpillars and hindering attendance for the release of the butterflies. In the future, releases will be done at the school so that the entire class can be present.

Video Link:

https://drive.google.com/u/0/open?id=14r5WXLzlhYmxk66H_1m0fAAyHxkl7hhQ

Project	Paper or Plastic
Recipient	Nauticus Foundation
Locality	Norfolk
Award	\$500

Project Description: Our project will enhance programming of our newest changing exhibit, National Geographic's Planet or Plastic? This changing exhibit is a gallery format, with many pictures showing human's dependence on plastics, the destructive effects plastics has on our environment and how we can change the future. Being a gallery exhibit, this project will be adding COVID-19 safe-and-interactive programming to the gallery exhibit while also connecting all of our existing exhibit spaces to plastics, waste prevention and waste collection.

This project will directly educate our Nauticus Youth Volunteers. We currently have about 45 youth volunteers that help teach our guests through cart style programming and help us to achieve our organization's mission (exist to benefit our community through education, impactful experiences and by sharing access to maritime resources). We are always looking for ways to share new experiences with our Nauticus Youth Volunteers so they can expand on their knowledge, grow as environmental stewards and create an impact.

This particular project, enhancing a gallery-style exhibit, will engage our volunteers by developing creative approaches to teaching a static exhibit, learning how to discuss a challenging topic with a wide age range, and implementing lifestyle changes to better the environment.

Project Outcomes: Very successful! We had 24,560 guests here on campus! We were even able to make a virtual program to mirror our onsite exhibit to expand our reach, Plastic Pollution and Solutions! This program explores human impact SOLs in a fun, engaging way and ties into our new traveling exhibition by National Geographic, Planet or Plastic?. We were able to run it for 138 classes, 4140 students! SOL's: K.11, 1.8, 3.8, 5.9, 6.9, LS.9, BIO.8, ES.6, ES.8, ES.10, ES.12.

What did the students enjoy the most about this project? The hands on nature of seeing the impact (both good and bad) that they make on the environment. We talk about our local animals, including some we have here in our aquariums, and showed how our actions affect them, but quickly move into the many ways we can all take action to save the planet, like reducing, reusing, recycling, repairs, etc! We were very creative and this allowed students to connect to the human impact SOLs in ways they don't normally get the chance to in school!

How could a similar project be improved? Now that we are so comfortable doing these types of programs we want to expand and improve to do even more! We plan to buy better animal containers to allow our animal ambassadors to engage more. We also want to be even more hands on, as we were obviously still limited by Covid. But this limitation just caused us to think very creatively on how to be interactive and engaging without the traditional prop components.

Video:



IMG_1602.MOV





Project	Renovating the Main Entrance Garden
Recipient	Oscar Smith High School
Locality	Chesapeake
Award	\$500

Project Description:

- To renovate the current main entrance garden to include pollinator friendly and native plants.
- To create a raised bed vegetable garden which is adjacent to the main entrance garden.
- To teach students about pollinator friendly plants which can help pollinate a raised vegetable garden.
- To teach students about the importance of native plants in a home garden.
- To teach students how to plant and care for a vegetable garden.
- To be used as a potential outdoor classroom for the environmental science classes so students can learn about, and see in person, examples of native and pollinator friendly plants which can facilitate discussions on the importance of such plants.

Project Outcomes: Students started by clearing away the old garden bed materials. Next, they mulched the area which would become the new garden. Studnets added 4 raised beds (we are starting small and we

left room to add additional garden beds next year). Then students planted the pollinator and native plants along the perimeter of the new garden beds. This project is still continuing as we are adding more mulch and continuing to pull weeds.

What did the students enjoy the most about this project? The students really enjoyed seeing the garden change and become beautiful. They enjoy working on the garden. We have created a schedule to continue working through the summer to maintain the garden. The students also enjoyed being able to see their friends, through social distancing, and work together on a shared project. They are really excited for the next year and want to continue to add to the garden by renovating the front flower garden by the main entrance as well.

How could a similar project be improved? We need to figure out an eco-friendly weed control. We are currently using newspapers to help control the grass/weed spread. It is time consuming as every few weeks we need to replace the newspapers. Next year, hopefully, we will also be able to have more students involved in the project. Due to Covid restrictions we had to limit the number of students able to work on the garden at one time. Students were also at home so they were able to help after school as often as during a normal school year. Next year we will have a garden coordinator position whose job will be scheduling and overseeing of the maintenance of the garden project.

Projects continued from FY19:

Project	Plants & Air Quality
Recipient	York County Beautification Committee
Locality	Yorktown
Award	\$500

Project Description: This project will fund the use of an Air Quality Egg learning system in York County high schools. This will enable students to collect data on air quality, as well as to analyze the impact on air quality by amending their environment with native plants.

Update: Due to Covid-19 and the York County School Division using a hybrid modality for instruction this year, the teachers were not able to incorporate the air quality eggs into their curriculum as outlined in our grant proposal. Both teachers, Amber Lamonte, York High and Veronica Warwick, York River Academy, have plans to utilize the eggs in the 2021/22 School Year. We appreciate HRgreen giving us an extension to complete this project as the grant funding has been utilized to purchase the eggs needed for this project.

Projects continued from FY20:

Project	Composting Know-How
Recipient	Williamsburg Community Growers
Locality	Lightfoot
Award	\$500

Project Description: To educate our community gardeners, visitors, student volunteers and service learners about our new composting system with signage. We have 65 garden plots and about 3 acres under production on our teaching farm. Composting is part of our environmental education walking tour with kiosks designed by Jamestown High School Envirothon students. Pre-Covid we had many student groups

visiting. We still have students volunteers, as well as community members. We want to educate them all about the 3 R's, how and why to compost, and our system.

Project Outcome: Students learned the value of composting in terms of adding nutrients, holding moisture, weed control, etc. They learned about compost care-aeration, browns/greens, temperature. They learned the pros and cons of adding things like coffee grounds, egg shells, stalks, seeds and woody debris.

What did the students learn most about this project? When they add the composted soil to the farm rows, they comment on the rich, dark soil that was made from waste. A student helped design the signs with font, spacing, text, and color.

How could a similar project be improved? The bins were used so much that we ended up having to move them and make them slightly larger. We think that is a good thing!





Project	Native Pollinator Habitat Stewardship
Recipient	Spratley Gifted Center
Locality	Hampton
Award	\$865

Project Description: The Spratley Gifted Center has a large schoolyard habitat. It has recently been weeded and cleaned up. We are in need of native plants and pollinator plants to add to our habitat. We would like to attract more pollinators such as bees and butterflies. The students engage in many environmental stewardship lessons in the habitat area. We would like to provide nectar and larval host plant sources to a variety of pollinator species. Students will benefit from having an area for real-life observation, hands-on exploration, and can feel pride in their environmental stewardship.

Project Outcome: The project was able to be completed near the end of the year. Vegetables were planted and harvested, bird feeders were put up and filled, and the habitat was used by in person students. This met SOL's for natural resources in science.

What did the students enjoy most about the project? The students enjoyed watching the birds eat from the feeders and being responsible for filling them. They also enjoyed planting the vegetables and being able to harvest and eat what they grew. They looked forward to visiting the habitat area each day.

How could a similar project be improved? It was difficult to carry out due to the pandemic. Hopefully next year we will be back to some sort of normalcy.

Project to continue into FY22

Project	Sweets for Students
Recipient	Williamsburg Community Growers
Locality	Lightfoot
Award	\$500

Project Description: We have had great success with growing sweet potatoes at our Teaching Farm. The life cycle from ordering slips to harvesting potatoes is long and we have been able to host numerous "service learners" to participate - even through COVID. Students have even volunteered at our farm & info stand to educate visitors and sell, by donation, the sweets. There are so many life skills learned by our student volunteers. See our Facebook page for great pictures of the students.

This project was funded in FY21 but will be completed during the 2021-2022 school year and included in the FY22 summary.

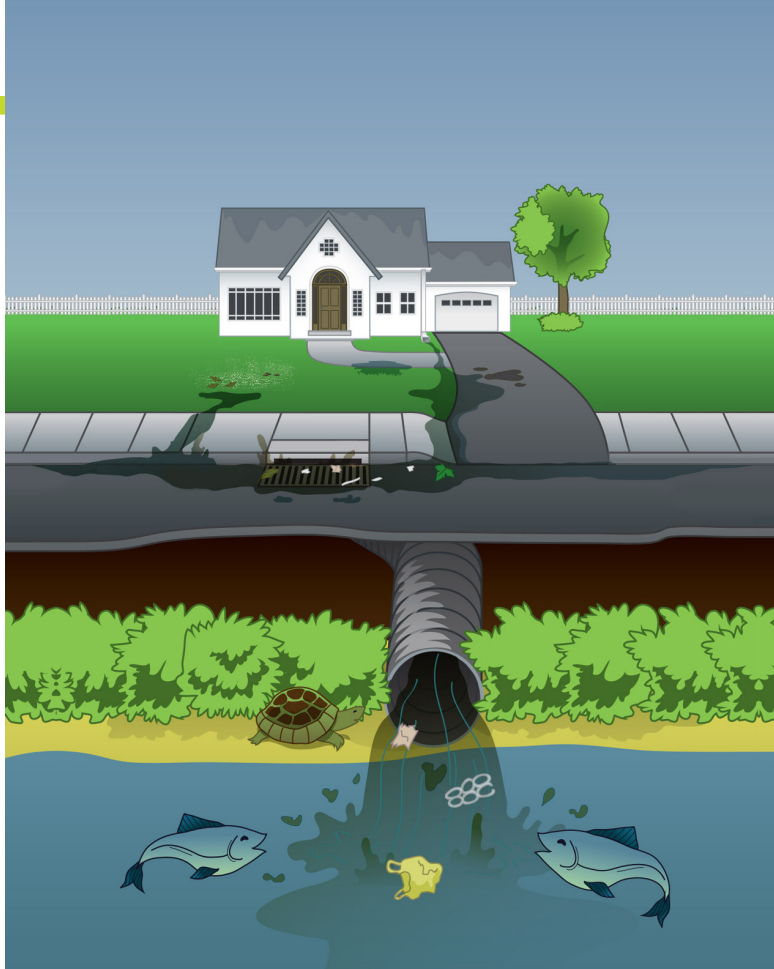
CITY OF NORFOLK PUBLIC WORKS

Fee Reduction Program



ways you can reduce your stormwater fee

This Policy supersedes and repeals all prior policies or regulations on this subject.



Why Norfolk has a Stormwater Fee...

The City of Norfolk is mandated under the Municipal Separate Storm Sewer System (MS4), Phase I Virginia Pollutant Discharge Elimination System (VPDES) permit to reduce pollutants from storm water runoff. In the absence of federal and state funding, revenue for the environmental storm water management program is derived primarily from storm water fees outlined in Chapter 41.1 of the City Code and §15.2-2114 of the Virginia Code. The

City currently assesses all property owners a fee based on a 2,000 square foot equivalent residential unit (ERU). This fee is utilized to cover the cost of services for the collection, treatment and discharge of storm water runoff. This fee structure is comparable to the fees charged by other Hampton Roads Phase I municipalities, including Newport News, Hampton, Chesapeake, Portsmouth and Virginia Beach.

Fee Reductions = Pollution Reductions

The City of Norfolk's Environmental Storm Water Fee Reduction policy is designed to encourage commercial, industrial, and residential property owners to take measures which can reduce the impact their properties have on the quality of our waterways by reducing the amount of pollutants entering the storm water system. It is important to note that the storm water fee reduction

program is intended to provide incentives for pollution reduction efforts.

In order to receive the reduction from the storm water utility, the property owner must submit an application including required supporting documentation to the Director of Public Works or his designee for review and approval.

How It Works....

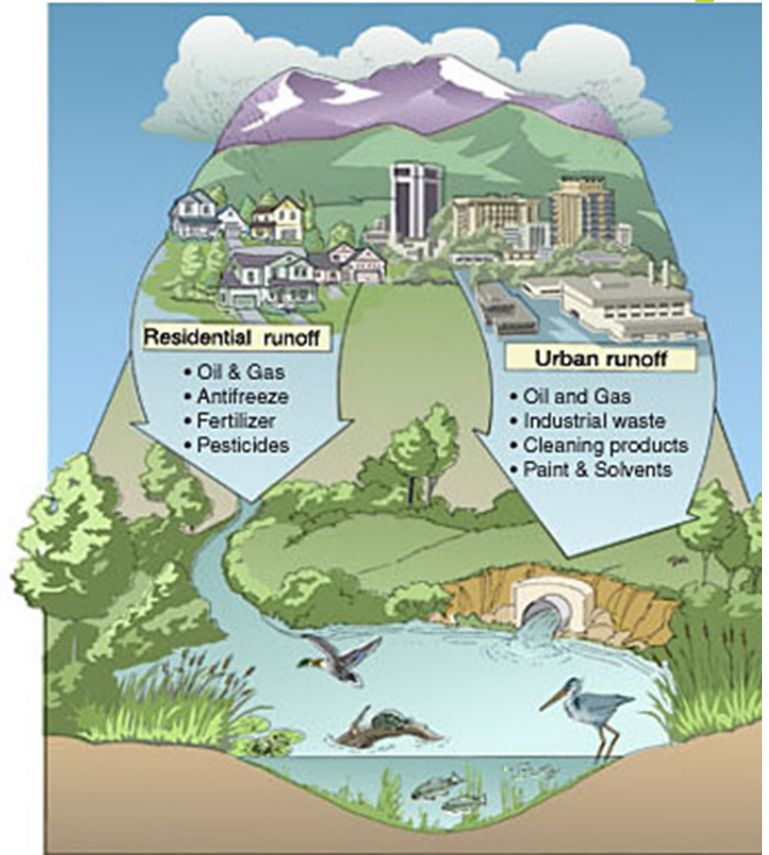
Fee charges under the Environmental Storm Water Management Program may be reduced under the following circumstances:

- Installation of **Residential** (one but no more than four residential/dwelling units) storm water management facilities
- Installation of **Non-residential** (property not meeting the residential criteria, including, but not limited to, industrial, commercial, recreational, cultural, multi-family-5 units or more) storm water management facilities

See City code 41.1-1 for complete definitions

Fee reduction criteria are routinely reviewed by City staff to ensure compliance with the reduction program. If the City determines the site characteristics surrounding the reduction are no longer valid, the discount shall be eliminated from the account. Because the reduction is designed to reduce pollutants entering the storm water system, the fee discount may be eliminated if the property owner is found to violate City Code 41.1-4, Pollution of the Storm Water System.

If a property owner desires to modify their request, a new application must be completed and submitted.



The maximum reduction any one entity may receive through this reduction program **is a 60%** reduction in their total storm water utility fee. When comparing total land use of impervious area within Norfolk, 40% is publicly owned and is of benefit to all property owners within Norfolk. Therefore everyone must contribute to the maintenance of the system.

What is a SWMF?

Storm Water Management Facilities (SWMF) are facilities which have been shown to be effective in helping to remove pollutants from storm water runoff. As an incentive for SWMF construction, storm water fee reductions may be given for construction and maintenance of SWMFs as outlined in the current Norfolk Design & Construction Manual. These SWMFs, when properly constructed and maintained, have been shown to reduce runoff pollution from the site.



Residential Fee Reduction Program

The City is providing a discount to residential property owners who install storm water management facilities (SWMF) voluntarily on their property to aid in storm water (sw) runoff and/or pollutant removal. The discount will be based on the type of SWMF installed on the residential property and the area treated.

Once your SWMF has been approved and installed, homeowners are required to complete an annual inspection report on June 1st each year thereafter for continued fee reduction consideration.

In order to qualify for a storm water fee reduction, the SWMF design and related calculations must be developed and reviewed by the City's Storm Water Engineer or his designee. The design of the SWMF shall meet the minimum drainage requirements as outlined in Table 1 and comply with the Norfolk Design & Construction Manual, Virginia Storm Water BMP Clearing House Manual, Virginia Tech Rain

Garden Guide, or other City approved design specifications. Multiple SWMFs may be installed per property to stack load reductions; however, the stacked SWMFs may not treat the same drainage area. The maximum credit per site is 60%.

At A Glance:

Example:

**Property owner installs
1 rain garden and 2 rain barrels**

**20% credit rain garden
+ 10% credit rain barrel
+ 10% credit rain barrel
= 40% fee reduction**

Multiple SWMFs may be installed per property to stack load reductions, but they may not treat the same drainage area.

Residential SWMF Construction

The SWMF must be installed as outlined in the plan. Consultation with a qualified contractor is recommended, but not required. Property owners are required to follow all local, State, and Federal laws and acquire all required land disturbing, construction, and environmental permits. Site plan review may be required.

Right to Inspection



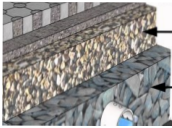
The City may inspect the SWMF at any time during the year. If the on-site stormwater storage is no longer functioning or has not been maintained, the City reserves the right to cancel the credit for up to three years.

Residential SWMF Inspections

The SWMF inspector will perform inspections throughout the installation process to ensure compliance with the approved plan requirements. Any supporting documents providing proof that the SWMF was installed and functioning as designed must be provided to the City prior to any rate reduction. The property must be fully stabilized to avoid sediment runoff prior to the reduction being approved.

The owner must complete an annual inspection of the SWMF. Inspections should include a photo of the SWMF and a written summary of any discrepancies with the SWMF and corrective actions taken. The inspection should be submitted to the Division no later than June 1 of each year and will be retained by the Division. Failure to submit the annual inspection will void the rate reduction starting on July 1.

Table 1: Residential SWMF Options

SWMF Types	Visual	% Credit	Min Drainage Area (sf)	Other Required Documentation
Rain Barrels		10	300	Barrel Volume Roof Area Treated (sf)
Grass Swale		10	500	Drainage Area Treated Swale length and average depth
Buffer Area		10	N/A	Planting Plan Drainage Area Buffer Length & Width
Nutrient Management Plan		10	100% of the site	Approved Plan
Cistern		10	300	Rain Cistern Volume Roof Area Treated (sf) Water Use
Bioswale		20	500	Planting Plan Drainage Area Treated Swale length and average depth
Rain Garden		20	500	Planting Plan Drainage area treated Surface area and average depth
Permeable Pavement with Underdrain		20	300	Drainage area treated Surface area of pavement
Rooftop Disconnect with Soil Amendments		20	300	Length & Width of flow path Amendment Depth
Green Roof		50	800	Green Roof Surface area Planting Plan
Living Shoreline		50	N/A	Planting Plan Applicable Permits Length and Width of shoreline project

Residential SWMF Definitions

Rain Barrels/Cisterns: A tank used to catch rainwater running off roofs from a downspout.

Nutrient Management Plan: Program designed to manage the amount, source, placement, form and timing of the application of nutrients and soil amendments

Vegetated Filters: Bioswale, Grass Swale, Buffer Area. These are areas of dense turf, meadow grasses, trees or other vegetation with a minimum slope to absorb runoff from roof downspouts.

Rain Garden: Rain gardens are landscaped areas slightly below ground level that capture and filter stormwater runoff from a roof or other impervious (paved) surface.

Permeable Pavement: Pervious pavement may include concrete blocks, grid pavers, or pervious concrete or asphalt with a stone

reservoir underneath. The reservoir temporarily stores surface runoff before seeping it into the soil below. Gravel is not considered pervious pavement.

Rooftop/Downspout Disconnect: This is the process of separating roof downspouts from the storm system and redirecting roof runoff onto pervious surfaces where soil amendments have been applied, most commonly a lawn.

Green Roof: Living roof is a roof of a building that is partially or completely covered with vegetation and a growing medium, planted over a waterproof membrane.

Living Shoreline: A shoreline protection option that allows for natural coastal processes to remain through the strategic placement of plants, stone, sand fill, and other structural and organic materials.



Non-Residential Property Fee Reduction Program

As an incentive for SWMF construction, fee reductions will be allowed for construction of approved SWMF's which reduce runoff pollution from the site. In order for a non-residential property to qualify for a storm water fee reduction, the SWMF design and related calculations must be developed and certified by a professional engineer or surveyor licensed to practice in the Commonwealth of Virginia. Pollutant loadings and SWMF effectiveness must be computed in accordance with the methods outlined in the Norfolk Design & Construction Manual.

The percent fee reduction will be computed to the nearest percent using the following formula:

$$\begin{aligned} &\% \text{ Fee Reduction} \\ &= \\ &(\% \text{ SWMF Efficiency Rating}) \\ &(\text{Area served by SWMF in acres} / \\ &\text{Total Site Area}) \end{aligned}$$

Multiple SWMFs may be installed for each property to stack load reductions; however, the stacked SWMF may not treat the same drainage area.

Up to 60% maximum credit per site

Non-Residential SWMF Construction

When constructing SWMFs, site plan review requirements and criteria must be followed. The design will be reviewed and approved through the site plan review process. If the formal process is not required (due to size limitations), the requirements and criteria still apply and the Division's Storm Water Engineer or his/her designee must review the proposed site plan prior to installation. A Declaration of Covenants must be signed by the property owner and filed with the Clerk of the Court prior to approval from the Division (copy of the Declaration will be kept on file at the Division).

A pre-construction meeting shall be arranged with the City's SWMF inspector at a minimum 48-hours prior to construction. The SWMF must be installed as outlined in the plan. Any modifications must be made by the engineer of record and the site plan adjusted as such, with approval from the Division. All sediment control measures must be installed prior to any land disturbing activity. All land disturbing permits and General Construction and Environmental Permits must be obtained where necessary.



Non-Residential SWMF Inspections

The SWMF inspector will perform inspections throughout the installation process to ensure compliance with site plan requirements. Any as-built or certifications providing proof that the SWMF was installed and functioning as designed must be provided to the City prior to any rate reduction. The property must be fully stabilized to avoid sediment runoff prior to the reduction being approved.

The owner must complete annual inspections of the SWMF. Inspections must be completed by a certified inspector and documented along with all discrepancies noted and corrective actions taken. These annual reports will be submitted to the Division no later than June 1 of each year. The inspection forms will be retained by the Division for the specific SWMF installed. Failure to submit the annual inspection reports will void the rate reduction starting on July 1.

The following items must be completed and submitted with your application to the Division to receive the reduction.

- Completed application for the Storm Water Fee Reduction/Waiver
- Proof of ownership of the facility
- Storm water system maintenance schedule
- Site Plan and Water Quality Calculations

Right to Inspection

The City may inspect the SWMF at any time during the year. If the on-site stormwater storage is no longer functioning or has not been maintained, the City reserves the right to cancel the credit for up to three years.

Residential and Non-Residential Application Checklist

- ☒ Applicant Name:
Name of individual property owner
- ☒ Property Address:
List address number and street name
Include city and zip code.
- ☒ Mailing address include if different from
property address.
- ☒ Parcel ID number:
Each piece of land has its own parcel ID
number. This information can be found on
the City's website under Norfolk Air
- ☒ Phone number:
The primary contact for the applicant
- ☒ Email address:
The primary contact for the applicant
- ☒ Credits applying for:
Select the credit for which the applicant
is applying. If you are doing a residential
project, check the first box. The other
options relate to commercial properties
and apartment complexes.
- ☒ SWFM type applying for
Check ALL that apply
- ☒ Attach ALL SWMF plans.
- ☒ Checked and complied with all
applicable City codes
- ☒ Applicant signature/date

.....

**Questions? Call 823-4010 or send a letter
to SW Fee Reduction Program,
Attn., Storm Water Engineer,
2233 McKann Ave, Norfolk VA 23509**

Maintenance Requirements

Storm Water Management Facilities (SWMFs) installed on a property must be maintained to ensure continued function.

Restrictions on Credits

Transfer of credit:

The property credit applies only to the applicant. Credits do not transfer if home ownership changes. A new application must be submitted for new account holders to receive the credit.

The SWMF must meet all applicable City of Norfolk building, planning and zoning code requirements.

Right to Inspection

The City may inspect the SWMF at any time during the year. If the on-site stormwater storage is no longer functioning or has not been maintained, the City reserves the right to cancel the credit for up to three years.

.....

Fee reductions associated with SWMF installation on residential and non-residential properties will become effective starting the first day of the following month after approval from the Director of Public Works or his designee. Retroactive rates reductions will not be considered. Rate reductions will be reviewed by the Director of Public Works or his designee annually during the month of June to ensure continued compliance with the rate reduction requirements. Failure to submit annual inspection reports for the previous year by June 1 may void the storm water rate reduction starting on July 1 and would require reapplication.

Stormwater Credit General Application

Applicant Name: _____

Property Address: _____

City/Zip: _____

Mailing address: (if different than property address) _____

City/Zip: _____

Parcel ID number: _____ Phone Number: _____

Email address: _____

Check One:

☐ This is the first credit application for this property.

☐ This is a credit renewal request.

☐ This is a reapplication after a credit suspension.

Credit applying for:

☐ Single-family residential property - **Complete Part 2 on next page**

☐ Multi-family/non-residential SWMF - **Supply Supporting Documentation**

- Proof of ownership
- Storm water maintenance schedule
- Copy of approved site plan
- Copy of storm water calculations
- As built or certifications if applicable

Applicant/Contact Signature: _____

Date: _____

Mail to: City of Norfolk, Stormwater Utility, Attn: Stormwater Credit Applications
2233 McKann Avenue, Norfolk, VA 23509

Single Family Residential Stormwater Credit Application - Part 2

Applicant Name: _____ Parcel ID Number: _____

Credit Applying For: *Check all that apply*

☐ **RAIN GARDEN**

Drainage Area Treated: _____ Surface area & average depth: _____

Date of construction: _____ ☐ Planting plan attached

☐ **ON-SITE STORMWATER STORAGE**

☐ Rain barrels

☐ Cistern

☐ other

Roof area treated (sf): _____ Volume of on-site storage _____ gallons

Water use: _____

☐ **PERMEABLE PAVEMENT WITH UNDERDRAIN**

☐ Paving blocks ☐ grid or grass pavers ☐ pervious concrete or asphalt

Surface area of pavement (sf): _____ Drainage area treated (sf): _____

☐ Stone reservoir is at least 10 inches deep at all points

☐ Compliant with city code

☐ **VEGETATED FILTER**

☐ Bioswale

☐ Living Shoreline

☐ Buffer area

☐ Grass swale

Drainage area treated (sf): _____ Length & average depth: _____ ☐ Planting plan attached

☐ **LAWNCARE NUTRIENT MANAGEMENT PLAN**

☐ Approved plan attached

☐ **GREEN ROOF**

Roof surface area (sf): _____ ☐ Planting plan attached

☐ **ROOFTOP DISCONNECTS WITH SOIL AMENDMENTS**

Length & width of flow path (sf): _____ Amended soil depth (sf): _____

☐ **PHOTOGRAPH OF MEASURE AS INSTALLED IS ATTACHED**

Single Family Residential Stormwater Credit Application - Part 2

Sketch of property with SWMF shown. (Attach additional plans as needed)

All applicable local codes:

_____ (initial) I, the applicant, have complied with all local codes applicable to the installation of the SWMF.

Owner certification:

_____ (initial) I hereby certify that I own and live at the property and I further declare, under penalty of perjury, that the information provided by me in this application is the truth to the best of my knowledge and belief.

Applicant/Owner Signature: _____ Date: _____

Mail to:

City of Norfolk Public Works, Stormwater Utility, Attn: Stormwater Credit Applications
2233 McKann Avenue, Norfolk VA 23509

**City of Norfolk,
Stormwater Utility
2233 McKann Avenue
Norfolk, VA 23509
757.823.4010
www.norfolk.gov**



Adopted: October 2016

[illegible]

Chemical Spill Response Training
Instructor: Chris Pappas, Sigma Consulting & Training, Inc.
Norfolk, VA Session: Monday, September 28, 2020

	Employee Last Name	Employee First Name	Department	Employee Signature
1	Banks	Craig	Waste Management	<i>Craig Banks</i>
2	Bethea	Wesley	Storm Water - Street Sweeping	<i>Wesley Bethea</i>
3	Billups	Marquis	Storm Water - Pump Stations	<i>Marquis Billups</i>
4	Boose	Tommie	Waste Management	
5	Bright	Levon	PW Streets & Bridges	<i>Levon Bright</i>
6	Bullock	Clarence	Waste Management	<i>Clarence Bullock</i>
7	Carter	Donnie	Waste Management	<i>Donnie Carter</i>
8	Childress	Andrew	Parking Division	<i>Andrew Childress</i>
9	Coston	Alvin	Waste Management	
10	Delahaya	Robert	PW Streets & Bridges	<i>Robert Delahaya</i>
11	Doan	Audrey	Storm Water - Environmental	<i>Audrey Doan</i>
12	Dodd	Eric	Waste Management	<i>Eric Dodd</i>
13	Eddins	Jerold	Waste Management	<i>Jerold Eddins</i>
14	Edmonds	William	Waste Management	
15	Evans	Hodari	Storm Water - Street Sweeping	<i>Hodari Evans</i>
16	Flythe	Tim	Utilities	(on page 4, # 73)
17	Foster	Nathaniel	PW Streets & Bridges	<i>Nathaniel Foster</i>
18	Foster	Stephen	Parking Division	(on page 4, # 75)
19	Garcia	Justin	PW Streets & Bridges	
20	Grant	Charles	Storm Water - Street Sweeping	(on page 4, # 82)
21	Green	Tim	Storm Water - Operations	
22	Hall	Xavier	Storm Water - Operations	<i>Xavier Hall</i>
23	Harris	James	Utilities	<i>James Harris</i>
24	Hawkins	William	Parking Division	(on page 4, # 80)

Chemical Spill Response Training
Instructor: Chris Pappas, Sigma Consulting & Training, Inc.
Norfolk, VA Session: Monday, September 28, 2020

	Employee Last Name	Employee First Name	Department	Employee Signature
25	Henry	Shawn	Storm Water - Operations	Shawn Henry
26	Hoskins	Lindon	Storm Water - Operations	L. E. Hoskins
27	Howard	Richard	Storm Water - Pump Stations	R. Howard
28	Hurdle	Ted	Utilities	Ted Hurdle
29	Ingram	Ryan	Storm Water - Environmental	Ryan Ingram
30	Jefferson	Androse	Waste Management	Androse Jefferson
31	Johnson	Anthony	PW Streets & Bridges	Anthony Johnson
32	Johnson	Clifford	Waste Management	Clifford Johnson
33	Johnson	Kasey KS Kacey	Storm Water - Pump Stations	Kasey Johnson
34	Kramer	Greg	Utilities	Greg Kramer
35	Latimer	Jasmine	Waste Management	Jasmine Latimer
36	Lewis	Marlon	Storm Water - Operations	Marlon Lewis
37	Lowe	Sid	Utilities	
38	Mack	Peter	Storm Water - Environmental	Peter Mack
39	Magruder	Casey	Storm Water - Environmental	Casey Magruder
40	Mead	Kacy	PW Streets & Bridges	(on page 4, #72)
41	Mills	Jonathan	Waste Management	Jonathan Mills
42	Morrison	Joseph	Storm Water - Operations	Joseph Morrison
43	Mullings	Juan	PW Streets & Bridges	Juan Mullings
44	Perry	James	Waste Management	James Perry
45	Proffer	Scott	Storm Water - Pump Stations	Scott Proffer
46	Quick	Kyle	Storm Water - Operations	Kyle B. Quick
47	Revels SD	Larry	Storm Water - Street Sweeping	Larry Revels
48	Shafer	Justin	Storm Water - Environmental	Justin Shafer

Chemical Spill Response Training
Instructor: Chris Pappas, Sigma Consulting & Training, Inc.
Norfolk, VA Session: Monday, September 28, 2020

	Employee Last Name	Employee First Name	Department	Employee Signature
49	Sharp	Charles	Waste Management	Charles Sharp
50	Slater	Matthew	Waste Management	
51	Smith	Bashond	PW Streets & Bridges	Bashond Smith
52	Smith	Fred	Storm Water - Street Sweeping	Fred A. Smith
53	Smythe	Bryan	PW Streets & Bridges	Bryan Smythe
54	Speller	Alan	Waste Management	Alan Speller
55	Speller	Eric	Storm Water - Pump Stations	Eric Speller
56	Sutherby	Jacob	Waste Management	
57	Thompson	Calvin	PW Streets & Bridges	Calvin Thompson
58	Tillman	Albert	Storm Water - Pump Stations	Albert Tillman
59	VanLear	Chrisi	Storm Water - Environmental	Chrisi VanLear
60	Watford	Nathaniel	Storm Water - Street Sweeping	Nathaniel Watford
61	White	Calvin	Utilities	(on page 4, # 81)
62	Whitehurst	June	Storm Water - Environmental	June Whitehurst
63	* Williams	Michelle	Storm Water - Environmental	Michelle Williams
64	Williams	Elliott	Storm Water - Operations	Elliott Williams
65	Williams	Vidal	Storm Water - Operations	Vidal Williams
66	Willis	Marquill	Storm Water - Street Sweeping	Marquill Willis
67	Wilson	Laurie	Utilities	page 4, # 74
68	Wilson	Travon	Storm Water - Pump Stations	Travon Wilson

* Family emergency - left @ 8:40 a.m.

51

Chemical Spill Response Training
Instructor: Chris Pappas, Sigma Consulting & Training, Inc.
Norfolk, VA Session: Monday, September 28, 2020

	Employee Last Name	Employee First Name	Department	Employee Signature
69	Carter	Michael	Storm Water Pump ^{Station}	Michael Carter ☺ #8
70	REID	DARYL	FACILITY MAINT.	Daryl Reid
71	HARRIS	BRAD	Facility Main	Brad Harris
72	MEAD	KACY	S & B	Kacy Mead #37
73	Flythe	Timothy	Utilities, WD	Timothy Flythe #15
74	Laurie	Wilson	Utilities WD	L. Wilson #64
75	Foster	Stephen	Parking Div	Stephen Foster #17
76	Stewart	Roger	Stormwater	R. Stewart
77	Andrews	SAW	storm water	Samuel M. Andrews #2
78	McFadden	Asbury	Waste Management	Asbury McFadden
79	William			
80	Hawkins	William	Parking Division	William Hawkins #22
81	White	Calvin	Utilities	Calvin White #58
82	Crump	Charles	Storm water	Charles Crump #18
83	Diondre			
84	White	Diondre	Parks and forestry	Diondre White
85				
86				
87				
88				
89				
90				

Total 65

City of Norfolk - Public Works, Environmental Storm Water Management

DRY WEATHER MONITORING - FY21

Total Number of MS4 Outfalls - 990

Date	Address or Intersection	Findings	Resolution Date	Resolution
7/1/2020	2701 E Ocean View AVE	No findings	No need for resolution.	
7/1/2020	6000 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	6000 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	6000 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	6030 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	6100 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	6106 E Virginia Beach Blvd	No findings	No need for resolution.	
7/1/2020	719 Maury Ave	No findings	No need for resolution.	
7/1/2020	1343 Branch Rd	No findings	No need for resolution.	
7/1/2020	2390 E Little Creek Rd	No findings	No need for resolution.	
7/1/2020	7607 Evelyn Butts Ave	No findings	No need for resolution.	
7/1/2020	7615 Merrit St	No findings	No need for resolution.	
7/2/2020	1000 E Bayview Blvd	No findings	No need for resolution.	
7/2/2020	1530 E Little Creek Rd	No findings	No need for resolution.	
7/2/2020	1542 E Little Creek Rd	No findings	No need for resolution.	
7/2/2020	1670 Cougar Ave	No findings	No need for resolution.	
7/2/2020	8110 Anglewood Ct	No findings	No need for resolution.	
7/7/2020	2721 Myrtle Ave	No findings	No need for resolution.	
7/7/2020	3103 E Virginia Beach Blvd	No findings	No need for resolution.	
7/7/2020	3013 E Virginia Beach Blvd	No findings	No need for resolution.	
7/7/2020	3025 E Virginia Beach Blvd	No findings	No need for resolution.	
7/7/2020	3111 E Virginia Beach Blvd	No findings	No need for resolution.	
2/26/2021	6159 Edison Ave	No findings	No need for resolution.	
2/26/2021	6149 Edison Ave	No findings	No need for resolution.	
2/26/2021	6148 Edison Ave	No findings	No need for resolution.	
3/3/2021	866 Little Bay Ave	No findings	No need for resolution.	
3/3/2021	866 Little Bay Ave	No findings	No need for resolution.	
3/3/2021	926 Little Bay Ave	No findings	No need for resolution.	
3/3/2021	9631 12th View St	No findings	No need for resolution.	
3/3/2021	9633 12th View St	No findings	No need for resolution.	
3/3/2021	1201 W Ocean View Ave	No findings	No need for resolution.	
3/3/2021	6155 Newark Ave	No findings	No need for resolution.	
3/3/2021	6258 Newark ave	No findings	No need for resolution.	
3/11/2021	5701 Chambers St	No findings	No need for resolution.	
3/11/2021	400 N Military Highway	No findings	No need for resolution.	
3/11/2021	400 N Military Highway	No findings	No need for resolution.	
3/11/2021	400 N Military Highway	No findings	No need for resolution.	
3/11/2021	400 N Military Highway	No findings	No need for resolution.	
3/11/2021	450 N Military Highway	No findings	No need for resolution.	
3/11/2021	450 N Military Highway	No findings	No need for resolution.	
3/11/2021	450 N Military Highway	No findings	No need for resolution.	
3/11/2021	450 N Military Highway	No findings	No need for resolution.	
4/9/2021	1203 W Little Creek Rd	No findings	No need for resolution.	
4/9/2021	7616 Merrit St	No findings	No need for resolution.	

City of Norfolk
Storm Water MS4 and VDOT Infrastructure Coordination

The City of Norfolk is required to coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity as described below:

(1) Annual Coordination Meeting – Norfolk shall meet annually with VDOT for purposes of overall coordination on priority issues for Norfolk’s MS4 program plan (including operations and maintenance elements) and TMDL action planning relevant to the interconnectivity of the MS4s.

The City of Norfolk participated with VDOT in a regional web conference call meeting on 5/20/2021.

(2) Mapping – Norfolk shall inform VDOT of the status of its mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically interconnected MS4s and working to resolve such uncertainty. Norfolk shall coordinate with VDOT to identify any areas within the municipal boundaries that drain to the VDOT MS4.

The City of Norfolk performs routine updates to the GIS infrastructure system. Norfolk GIS staff coordinate with VDOT GIS staff outside of the annual coordination meeting to obtain an updated VDOT MS4 service area layer. Norfolk GIS will identify and confirm areas of connectivity based on the VDOT GIS layer.

(3) Chesapeake Bay TMDL Action Plans – Norfolk shall inform VDOT of the means, methods, and schedule by which Norfolk will implement the reductions required by the Chesapeake Bay TMDL Special Condition (Part I.D.1) when those means and methods may impact the physically interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of best management practices (BMPs) may be accelerated or otherwise improved by mutual cooperation.

Norfolk shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL Action Plan developed by VDOT or the permittee. The unaccounted areas shall be quantified (acres) in the Chesapeake Bay TMDL Action Plan submitted by Norfolk.

The City of Norfolk continues to implement the June 2018 Chesapeake TMDL action plan. The Norfolk Bay TMDL Action Plan addresses specific projects identified to account for required load reductions. At this time, there are not VDOT coordinated projects identified in the Action Plan. Additionally, Norfolk excluded VDOT as part of the City’s MS4 Service Area. VDOT may view the City’s Bay TMDL action plan provided on the City’s website at:
https://www.norfolk.gov/DocumentCenter/View/38025/Final-Report---Chesapeake-Bay-TMDL-Action-Plan---06_28_2018_FINAL?bidId=

The City of Norfolk designed the Norfolk International Terminal (NIT) shoreline project utilizing a National Fish and Wildlife Foundation grant. This project was designed by Norfolk to assist with addressing Bay TMDL requirements. However, Norfolk was unable to fund the construction of the shoreline project due to limited grant funding. Norfolk coordinated with the Port of Virginia and VDOT on the development of the NIT shoreline project. VDOT, Norfolk and the Port of Virginia is considering entering into an MOA where VDOT may be able to utilize a portion of the credits for TMDL compliance.

The City of Norfolk is also designing the Pleasant Point shoreline. This design is currently underway, with construction pending in FY22. The project extends up to the VDOT land (I-264

underpass). It is unlikely that this project would be extended on to VDOT land. The VDOT portion of the shoreline appears to have been restored in the past 10-years and is a securely armored revetment.

There are no known lands identified as “unaccounted areas” between VDOT and Norfolk’s MS4. Norfolk is in the process of reviewing and where necessary, updating the MS4 service area as required by the MS4 permit. Norfolk will coordinate with VDOT to obtain an up to date MS4 VDOT service area. Norfolk’s updated service area is due to DEQ in December 2020. Once completed, Norfolk will provide VDOT a full set of the Norfolk updated service area.

(4) Other TMDL Action Plans – Norfolk shall inform VDOT of TMDL Action Plans and major milestones implemented for other (i.e., non-Chesapeake Bay) TMDLs when those plans may impact the physically interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of BMPs may be accelerated or improved by mutual cooperation.

The City of Norfolk currently has a TMDL for bacteria in the Elizabeth River. Norfolk’s Elizabeth River Bacteria TMDL action plan is geared toward education, outreach, and program implementation with no structural BMPs identified. Norfolk is willing to partner with VDOT on any education, outreach and/or programs throughout the City. If VDOT currently has a bacteria TMDL, Norfolk encourages VDOT to participate in the Hampton Roads Planning District Commission HRStorm subcommittee to discuss education and outreach.

Norfolk’s Elizabeth River TMDL Action Plan may be found on the City’s website.
https://www.norfolk.gov/DocumentCenter/View/38026/Norfolk-ER-Bacteria-TMDL---Final-Action-Plan---06-28-2018_FINAL?bidId

(5) Credit for TMDL Implementation – Permit specific BMP retrofit requirements shall not be double counted in the calculation of load reductions. If the permittee undertakes the project, the permittee shall be entitled to full credit for the project, but may share credit with VDOT on mutually agreeable terms, which shall be in writing.

The City of Norfolk designed the Norfolk International Terminal (NIT) shoreline project utilizing a National Fish and Wildlife Foundation grant. This project was designed by Norfolk to assist with addressing Bay TMDL requirements. However, Norfolk was unable to fund the construction of the shoreline project due to limited grant funding. Norfolk coordinated with the Port of Virginia and VDOT on the development of the NIT shoreline project. VDOT, Norfolk and the Port of Virginia are considering entering into an MOA where VDOT may be able to utilize a portion of the credits for TMDL compliance credits.

(6) Illicit Discharge Detection & Elimination – Norfolk shall continue to be responsible for implementing a program for illicit discharge detection and elimination, including dry weather field screening, for the permittee’s portion of the physically interconnected MS4. As part of the annual coordination meeting, described in item (1) above, Norfolk shall coordinate with VDOT on the identification of high-risk industrial facilities. Norfolk shall establish procedures for notifying VDOT when an illicit discharge is identified in the VDOT MS4.

The City of Norfolk maintains a list of high risk industrial facilities as required by the MS4 permit. Norfolk will provide a GIS layer of the industrial high risk facilities to VDOT as part of our GIS coordination efforts.

The City of Norfolk currently functions under an SOP that outlines the requirements of the IDDE program. This SOP is reviewed annually by Norfolk staff and includes procedures for VDOT staff notification during IDDE in areas where interconnectivity may occur.

(7) Water Quality Monitoring – Norfolk shall conduct water quality monitoring as required by Part I.B.2.I) and Part I.C of this state permit. The permittee shall make available to VDOT all monitoring data collected from areas where the physically interconnected MS4 discharges to the VDOT MS4 or received flow from the VDOT MS4. Norfolk and VDOT are encouraged to cooperate with one another to establish a joint monitoring network.

The City of Norfolk has three (3) different monitoring requirements to fulfill for the MS4 permit.

1. Dry Weather Monitoring is performed on 50 sites throughout the city annually. Additionally, the City has implemented a preventative maintenance inspection program. During this PM inspection program, if any dry weather flow is identified in addition to the 50-sites, the discharge is addressed. If the discharge has been identified to impact the VDOT MS4 service area, VDOT will be notified under the IDDE SOP. Data associated with this monitoring is documented in the City's MS4 annual report and may be found at the City's website: <https://www.norfolk.gov/1689/Stormwater>
2. The City partners with the Hampton Roads Planning District Commission (HRPDC), Hampton Roads Sanitation District (HRSD) and USGS in the development of the Regional Wet Weather Monitoring study. HRPDC staff compile the findings from HRSD and USGS and compile a trend analysis report annually that may be found at the City's MS4 annual report found on the City's website: <https://www.norfolk.gov/1689/Stormwater>
3. The City also performs a Street Sweeping Monitoring program as part of the MS4 permit compliance. This program is designed to address sweeping efficiencies in the Coastal Plain that may be used for TMDL compliance. The City performs quarterly sampling as outlined in the sweeping monitoring program criteria and provides a trend analysis summary each year in the MS4 annual report. Norfolk provided the final findings of the study to DEQ during the application process for the new MS4 permit. This data is also included in the City's annual report posted on the City's website: <https://www.norfolk.gov/1689/Stormwater>

(8) Annual Reports – As part of its Annual Report, Norfolk shall document coordination efforts with VDOT that occurred during the reporting year pursuant to requirements (1) through (7) above.

The City of Norfolk will provide meeting minutes pertaining to the coordination efforts with VDOT in the annual report.

Agenda

May 20, 2021 VDOT MS4 Coordination Meeting

MCM #7

- ❖ **Introductions**
- ❖ **IDDE Updates**
- ❖ **Chesapeake Bay TMDL Special Condition Action Plan and Crediting**
 - ❖ **Other TMDL Action Plans-Coordination efforts with adjacent MS4's**
- ❖ **Points of Interconnectedness**
 - ❖ **Provided by Cities-Points of Interconnectedness (POI) identified where a City MS4 discharges onto VDOT**
 - ❖ **Maintenance needs-Locations of interconnectedness where maintenance is needed to relieve drainage/flooding /nuisance issues. Open issues?**
 - ❖ VDOT and City of Va Beach Update from 2020
 - ❖ **HRBT Updates**
- ❖ **Substantial map updates**
 - ❖ **VDOT-Story Map**
- ❖ **Closing Comments**

VDOT Coordination Meeting

May 20, 2021

City of Norfolk Representation:

Casey Magruder – Environmental Program Administrator, Justin Shafer – Project Manager, Chrise VanLear – Environmental Program Supervisor

VDOT:

Chris Swanson, Scott Crafton, Jennifer Dail, Michelle Fults, Jennifer Lightfoot, Tracey Harmon, Alex Foraste

IDDE

VDOT continues to coordinate with localities and maintenance contractors. Training videos are required by contractors (mowing, etc.). Jennifer Dail requested that if there were changes with POCs for the municipalities to please e-mail them to her.

Norfolk mentioned that June Whitehurst remains the POC for IDDE instances, with Casey Magruder as back up.

TMDL Updates

Chesapeake Bay TMDL:

VDOT is making great progress at achieving reduction goals. In the James River they anticipate 91% N, 38 % P, and 17% sediment reductions. They feel confident that they have many projects planned to reach 36% reduction by the end of the permit cycle.

Norfolk is also in good shape and have exceeded all reduction requirements for the second permit cycle. Still fighting for more appropriate crediting for street sweeping. The entire city boundary is now included in the MS4 service area, and the Little Creek and James River tributaries have been recombined into one. The City still plans to use SWIFT program, as well as more projects that are being planned.

Elizabeth River TMDL:

VDOT is wrapping up an effectiveness assessment and may adjust BMP's to address bacteria.

Norfolk is continuing with sanitary sewer upgrades and removing several septic tanks a year. The monitoring program with HRSD has been a little slow due to COVID-19. Preliminary results have shown a lot of wildlife sources, and not so much human. Norfolk is doing enhanced pet waste campaigns and have posted "Don't Feed the Wildlife" signs in City parks.

Points if Interconnectedness

VDOT asked for notification from localities when POI's are found. VDOT also asked for suggestions from localities on locations of interconnectedness where maintenance is needed to relieve drainage, flooding, and nuisance issues.

Norfolk continues to notify VDOT when POI's are found. Norfolk did mention a maintenance issue that was found at Lake Taylor that was brought to VDOT's attention in February 2021, but there has been no action. VDOT to follow-up with the City.

VDOT and the City of Virginia Beach provided an update/presentation on the large project on Reon Road at the VDOT Operations Center.

The HRBT expansion is moving quickly. Most of the work so far has been on the south island. Work with a tunnel boring machine will start in 2022.

Substantial Map Updates

VDOT provided a review of their Story Map, covering their MS4 permit's MCM's.

Norfolk continues to update the GIS grid by grid, as well as with As-builts. GIS staff will coordinate to ensure the GIS layers of both VDOT and Norfolk are up to date.

Closing Comments

VDOT mentioned that DEQ will be using an EPA contractor for the next MS4 permit reissuance. Hampto and Chesapeake provided updates on recent MS4 audits.

**REGIONAL WATER QUALITY MONITORING PROGRAM
ANNUAL REPORT**

FISCAL YEAR 2020-2021

**This effort was included in the HRPDC Work Program for FY 2020-2021, approved by the
Commission at its Executive Committee Meeting on October 15, 2020**

**Prepared by the staff of the
Hampton Roads Planning District Commission
in cooperation with the
Regional Stormwater Workgroup**

September 2021

REPORT DOCUMENTATION

TITLE

Regional Water Quality Monitoring Program
Annual Report

REPORT DATE

September 2021

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LOCAL FUNDS

ABSTRACT

This document describes activities and findings related to the Regional Water Quality Monitoring Program. The program was developed to better inform scientific models in the Coastal Plain for the purposes of Chesapeake Bay Total Maximum Daily Load (TMDL) compliance. Six Phase I MS4 permit holders in Hampton Roads participate in this program for permit compliance.

ACKNOWLEDGMENTS

The Hampton Roads Planning District Commission (HRPDC), in cooperation with the Regional Stormwater Workgroup, the US Geological Survey (USGS) and the Hampton Roads Sanitation District (HRSD) prepared this report. Figures found in this report courtesy of Aaron Porter, USGS.

Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2020-2021, approved by the Commission at its Executive Committee Meeting of October 15, 2020.

Funding was provided by the six local governments that are Phase I MS4 permittees, through the HRPDC Regional Stormwater Management Program.

Regional Water Quality Monitoring Program Annual Report

Introduction

In 2015, the six Phase I MS4 localities within Hampton Roads, partnered with the U.S. Geological Survey (USGS) and the Hampton Roads Sanitation District (HRSD) to create a regional stormwater monitoring network. The goal was to better characterize nutrient and sediment concentrations associated with urban stormwater in the coastal plain. This network is dual-purposed, simultaneously addressing local water quality issues and fulfilling MS4 permit requirements, while providing useful data to support Chesapeake Bay Program modeling efforts. As a requirement of the Phase I MS4 permits, this report summarizes findings from the last year, and includes assessments from all reporting years. The Chesapeake Bay Program's watershed model is responsible for estimating loads of total nitrogen (TN), total phosphorus (TP), and total suspended solids (TSS) across all landscapes throughout the watershed. The only monitoring to inform the models for in-stream nutrient and sediment loads is through the non-tidal network (NTN), primarily covering rural areas. There are no calibration stations within the coastal plain, nor stations that reflect urban centers, and therefore no verifiable loading rates of these constituents. With the Hampton Roads monitoring network, USGS now has data from multiple land use types to inform future versions of the Bay model within the tidal region. These land use types represent 40 to 80% impervious land cover, while the NTN represents less than 40% impervious cover. By providing high frequency and high-quality data through the USGS quality control and quality assurance framework, the Hampton Roads region will be well-represented with accurate estimates of loading rates for future phases of the watershed model (potentially in Phase 7).

Specific program objectives include to: 1) collect high-quality data representative of the region and 2) use data to compute annual nutrient and sediment loading rates that are comparable to those calculated for the Chesapeake Bay Total Maximum Daily Load (TMDL). Additional information provided by the program includes: 1) a comparison of loading rates in Hampton Roads compared to other urban areas, 2) the differences in loading rates across land use types, and 3) the impacts of hydrology and season on the constituent concentrations and loading rates. To date there are five complete years of data collected at eight sites, and four complete years at four sites, over a range of hydrologic conditions, allowing for preliminary analysis of the results.

Monitoring Network

The six Phase I MS4 localities (Chesapeake, Hampton, Newport News, Norfolk, Portsmouth, and Virginia Beach) participate in the Hampton Roads Regional Water Quality Monitoring Program (RWQMP). Each locality has two monitoring sites, draining land between 30 and 300 acres with no tidal water influence, representative of three types of urban land uses (high-density residential, single-family residential, and commercial/industrial), and ranging between 36% and 80% imperviousness (Fig. 1; Table 1). Site selection was also based on the goal of having very few, if any, best management practices (BMPs)

upstream of the sampling area. By characterizing the range in loadings that are typical of a given land-use type that do not yet have BMPs implemented, variability can be assessed within land use types, and meaningful comparisons can be made between the three dominant land use types in the region. This should significantly enhance the understanding of how management activities can be directed efficiently in the future.

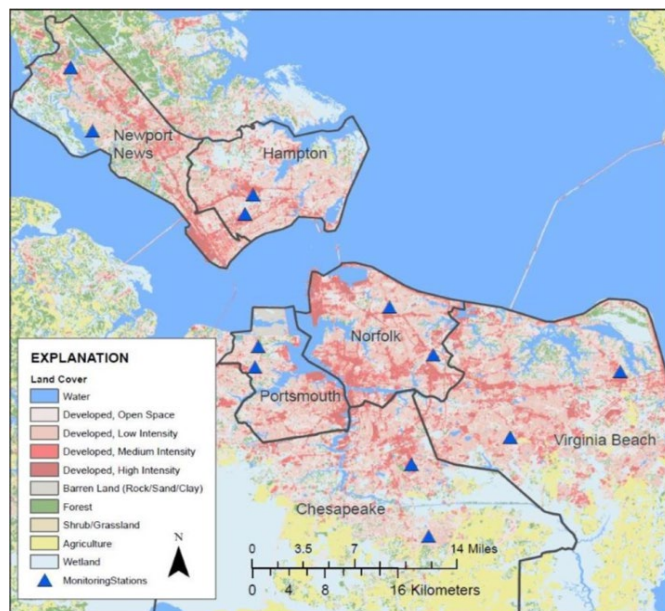


Figure 1. Locations of the 12 water quality monitoring stations, overlaid on land cover, in Hampton Roads, VA.

Table 1. The locality names, station names, and land use types.

Locality	Station Name	Land Use Type
Chesapeake	Professional Place	Commercial
Chesapeake	Ramsgate Lane	Single-family Residential
Hampton	Coliseum Drive	Commercial
Hampton	Garrett Drive	Single-family Residential
Newport News	Lakewood Park Drive	Single-family Residential
Newport News	Rivers Ridge Circle	High Density Residential
Norfolk	Sheppard Avenue	Single-family Residential
Norfolk	USAA Drive	Commercial
Portsmouth	Craneybrook Lane	High Density Residential
Portsmouth	Daisy Drive	Single-family Residential
Virginia Beach	Lindsley Drive	High Density Residential
Virginia Beach	Ludlow Drive	Single-family Residential

Operation of the monitoring network is the joint responsibility of USGS and HRSD. Data collection is supervised by the USGS Virginia Water Science Center to ensure that data quality meets the requirements established by USGS. Discrete sample collection and analysis plus system maintenance are conducted by HRSD's Central Environmental Laboratory (CEL) while data analysis, interpretation, and reporting are conducted by USGS. All 12 stations collect real-time, high frequency data including flow (stage, velocity, and discharge), turbidity, specific conductance, and water temperature. Discrete samples for nutrients and sediments are taken during storm events over a range of flows and quarterly for baseflow sampling. Nutrient concentrations consist of measurements of TN, total Kjeldahl nitrogen (TKN), organic nitrogen, nitrate + nitrite, ammonia + ammonium, TP, and orthophosphate. Sediments are measured as TSS.

Monitoring Protocols

Each station is equipped with a continuous flow meter, a water quality sonde for continuous water quality monitoring, a refrigerated automated sampler for the collection of stormwater water quality samples, an internal data logger for recording and storing all measured values, a satellite telemetry unit to transmit data hourly, a power system supporting all components (AC power with battery backup), and a ruggedized housing that protects all equipment (Fig. 2). Continuous flow is measured at 5-minute intervals and flow meters are connected to the data logger and satellite telemetry system to provide data in near real time. Instruments are operated in accordance to manufacturer guidance, and USGS guidance (see <http://water.usgs.gov/osw/pubs.html>). Continuous water quality monitors measure water temperature, specific conductance, and turbidity and are operated in accordance to standard protocol (Wagner et al. 2006).

Discrete sampling for nutrients and sediment are triggered by the datalogger when stormflow conditions exist (as indicated by flow and water quality conditions). Samples are retained in the refrigerated sampler ($\leq 6^{\circ}\text{C}$) until retrieved by HRSD field staff. Samples are retrieved within 24 hours of collection, transported in coolers ($\leq 6^{\circ}\text{C}$), and delivered to the laboratory for preservation and analysis. The analytes measured have defined laboratory methods within 40 CFR Part 136, and TN is calculated as the sum of TKN and nitrate + nitrite. Detailed standard operating procedures for nutrient and sediment analysis are maintained at HRSD's CEL and are available upon request.

All data collected for this monitoring program, including continuous time series data and discrete sample data, is retained in the USGS National Water Information System (NWIS) and



Figure 2. Ruggedized housing and components present at each stormwater monitoring station.

made publicly available online via NWISweb (<http://waterdata.usgs.gov/HRStormwater>). Continuous data from the flow meter and water quality monitors are transmitted via GOES satellite hourly and uploaded directly into NWIS via automated processes. These data are made publicly available on NWISweb within minutes of the hourly transmission. Discrete sample data is entered into the Laboratory Information Management System (LIMS) at HRSD. These data are electronically transferred monthly to USGS for entry into NWIS, at which time they are publicly accessible via NWISweb.

Results

Monitoring station installation began in April 2015 with all stations on-line and collecting data by December 2016. Between July 1, 2020 and June 30, 2021, across multiple storm events, over 380 event-triggered samples were collected for nutrients and sediment (Fig. 3). The intent of the program is to quantify loads during non-storm and storm events in order to compare baseline loads to high intensity or prolonged rainfall events. A drought in spring 2021 limited the number of samples collected during those months. Monthly samples were collected but there were very few, if any, storm samples during that time frame. For consistency, monthly samples were collected at each station on a fixed schedule regardless of hydrologic condition. This allowed for better characterization of spatial and temporal patterns, including load contributions from groundwater, or baseflow, and trends in concentration.

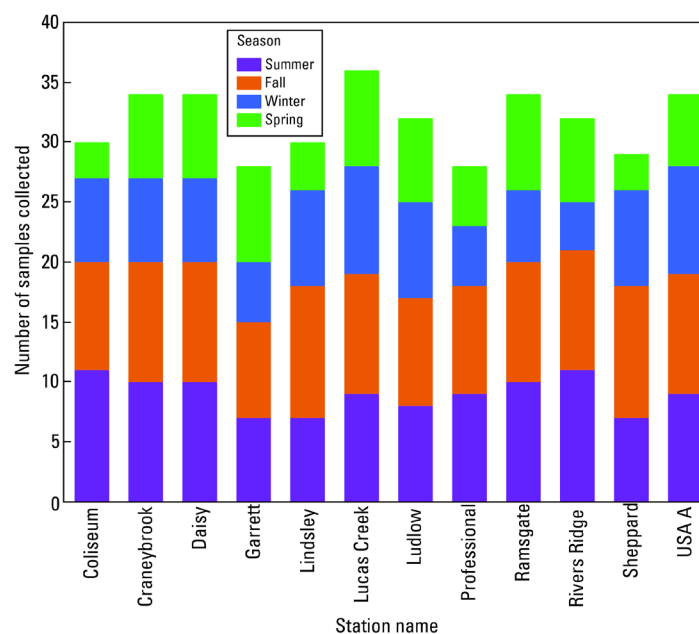


Figure 3. Total sampling events per season for each station between July 1, 2020 and June 30, 2021.

Precipitation and Streamflow

While the annual rainfall totals have varied across the region over the course of the study (Fig. 4), most of the rainfall events in any given year were less than 0.25 inches (Fig 5.). 2016 continues to be the wettest year on record for the study, and while the higher frequency storms are less than 0.25 inches, the bulk of the rainwater that flows through the storm systems comes from larger events that generate greater than 1 inch of precipitation.

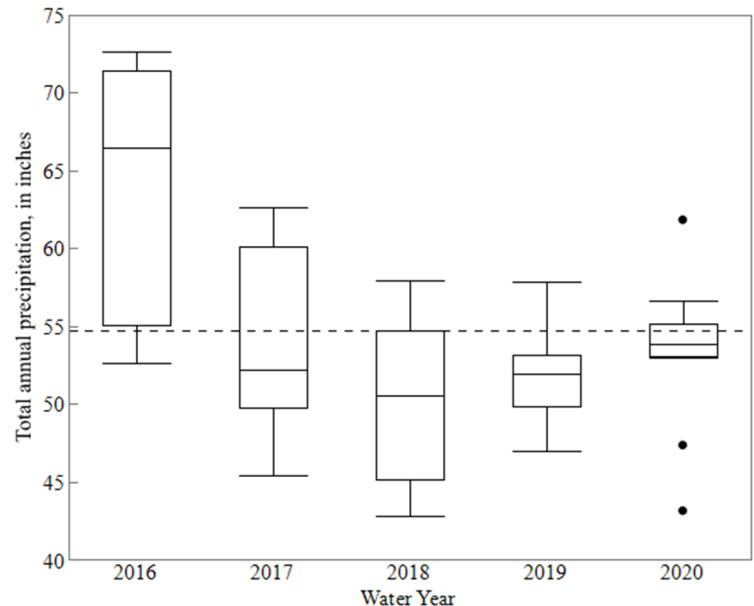


Figure 4. Annual rainfall totals (in) from nearby rainfall gages.

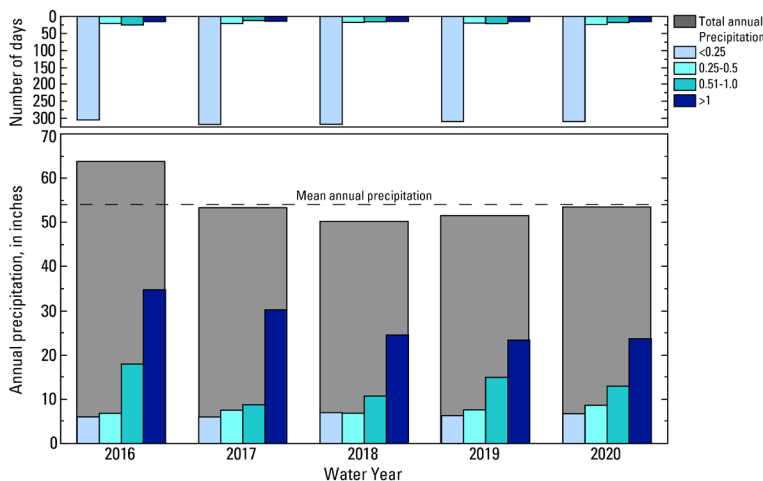


Figure 5. Number of days (top panel) and annual precipitation (bottom panel) for different types of precipitation events.

Similar to previous years, more stormflow was measured at the watersheds with the greatest amount of impervious surface within the watershed. Commercial sites had the most impervious surface compared to other land use types with turf grass and tree cover. This was translated into a flashiness index, or how quick (or slow) a stream will

respond to short-term changes in precipitation. Similar to the findings of imperviousness, the

commercial and high-density residential sites depicted higher flashiness than the single-family residential sites (Fig. 6).

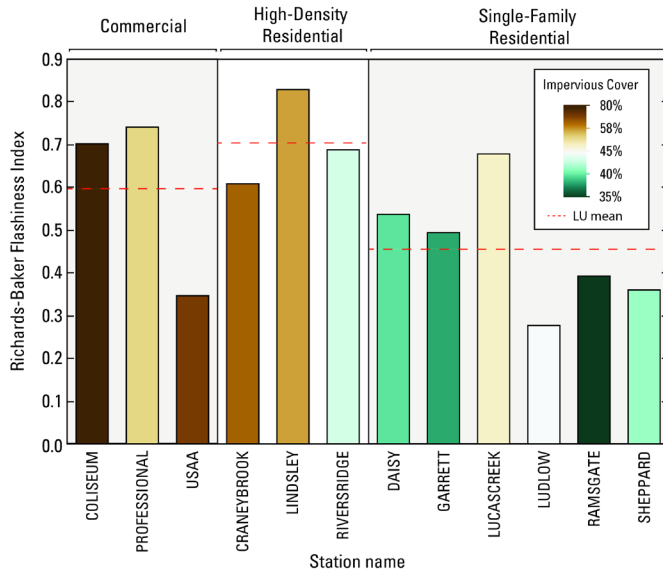


Figure 6. Flashiness index in relation to impervious cover percent for all 12 stations in the RWQMP network.

Through principal component analysis (PCA), seven event-based metrics for stormflow were also analyzed with land use type and precipitation event. This analysis re-confirmed that land use is a key indicator of differences in watershed hydrology in the region and teased out specific parameters leading to those differences. Commercial watersheds were characterized

by run-off events with greater volume, magnitude, and rate of change over the course of the event. Single-family residential watersheds were characterized by run-off events that produced a more stable hydrograph. Seasonal variables were also included, and the volume, magnitude, and rate of change are greater in the warm season than the cool season, reflecting typical thunderstorm patterns in the summer. One other factor included tree canopy over turf compared to impervious surfaces, which turned out to be negatively correlated with the volume, magnitude, and rate of change of storm hydrographs.

Total Nitrogen

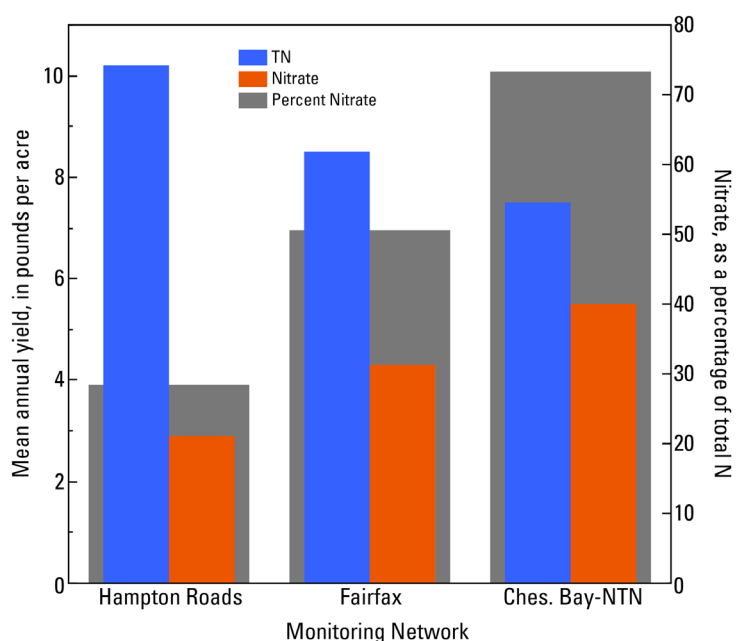


Figure 7. Mean annual TN and nitrate yield (left axis) and nitrate as a percent of TN (right axis) across different monitoring networks.

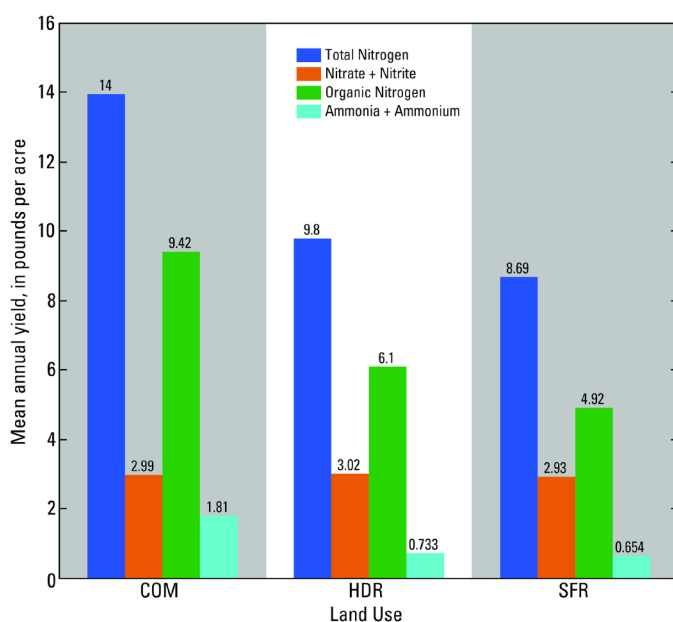


Figure 8. Mean annual yields for TN, nitrate + nitrite, organic nitrogen, and ammonia + ammonium for all watersheds.

TN yields in Hampton Roads are slightly higher compared to the NTN and the Fairfax Stream Monitoring network; however, Hampton Roads TN samples are composed primarily of organic N while inorganic N (in the form of nitrate) dominates in the NTN and Fairfax networks (Fig. 7). Inorganic forms of TN like nitrate are more bioavailable to organisms in the receiving waters but nitrate is only 28% of the TN yield in Hampton Roads, while it is higher in Fairfax (51%) and the NTN (73%). Within the Hampton Roads network, TN yields are highest in the commercial watersheds (driven by differences in organic N), there is little nitrate variation among watersheds, and the ammonia/ammonium yields are very low across all watersheds (Fig. 8). See

Appendix A for mean annual TN yields for all stations.

Total Phosphorus and Total Sediment

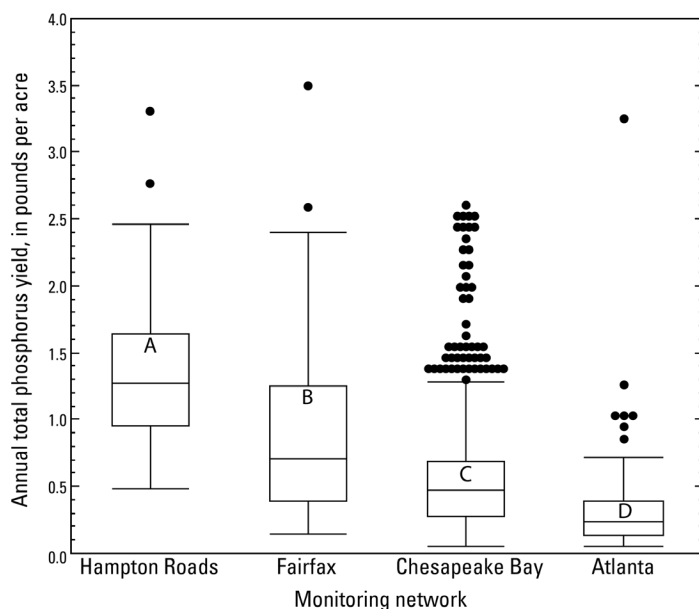


Figure 9. Boxplot of annual TP yields across monitoring networks.

Annual TP yields are also greater in Hampton Roads compared to other networks (Fig. 9), but soil characteristics are likely the driver rather than anthropogenic inputs since coastal plain soils have low to moderate phosphorus retention potential. TP yields are also greatest in the commercial watersheds, and much like TN, are driven by organic P rather than the more bioavailable orthophosphate-P (Fig. 10A & B and Appendix A). Similarly, TSS is

highest in the commercial watersheds as soils are mobilized during storm events in areas with greater imperviousness (Fig. 10C and Appendix A), while TSS yields in Hampton Roads continue to be lower than other monitoring networks (data not shown).

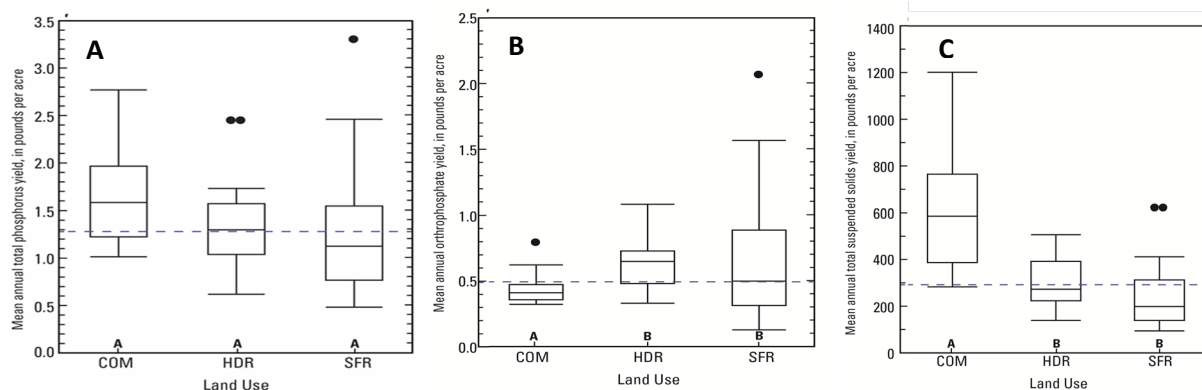


Figure 10. Boxplot of annual TP (A), orthophosphate-P (B), and TSS yields (C) across monitoring stations in Hampton Roads.

Transport of Loads

Comparisons were made to look at the composition of all constituents in baseflow (dry weather conditions) versus stormflow (wet weather conditions). Half of the nitrate load is generated during baseflow and stormflow while TN, primarily comprised of organic N, is transported more during stormflow (Fig. 12; NPN = non-particulate N, or nitrate). Organic N and other forms of particulate bound N are generally thought to be mobilized by overland runoff with

sources from atmospheric deposition, pet waste, leaf litter, lawn clippings, and excess fertilizer.

87% of orthophosphate loadings-P occur during periods of runoff as it is washed off the land surface and mobilized from soils (Fig. 12). TP is also transported by overland flows (82%) rather than groundwater sources. The vast majority of suspended solids (sediment and coarse

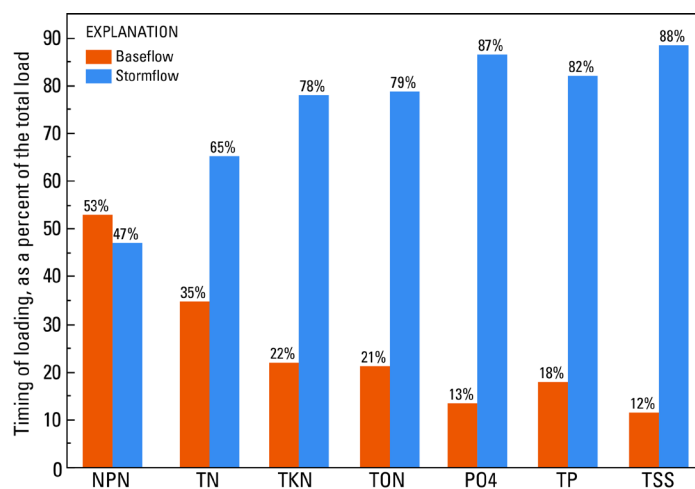


Figure 12. Proportion of constituent loads based on hydrologic source, baseflow or stormflow for the Hampton Roads monitoring network.

particulates such as decomposing leaf litter) are mobilized by storm runoff. The proportion transported during low flows may be algae and/or fine particulate organic matter (Fig. 12). An analysis of the ‘first flush’ phenomenon also showed that TSS is rapidly mobilized during the first flush of runoff and transported to the stormwater conveyance system.

Discussion

Overarching themes continue to present themselves as data is collected in this network. With over five years of data collected at most sites, each year of analysis confirms findings from the previous year while also prompting new questions and allowing for better comparisons with other urban networks. Observations show that 1) the intensity and frequency of storm events is extremely important to loads and yields in concert with the amount of imperviousness, 2) baseflow contributions of groundwater can be just as important as stormflow events, 3) the bioavailability of TN could be an important factor for future management decisions, and 4) while TP is a high contributor compared to other monitoring networks, it may be due to the region’s inability to retain TP, causing it to pass through more quickly.

Storm events and imperviousness

Annual discharges as well as nutrient concentration variability among land use types is still evident. As previously observed, constituent concentrations are greatest at sites with single-family and high-density residential sites compared to commercial sites, in contrast, annual yields normalized to drainage size tend to be higher at commercial sites. This variability is likely a function of percent imperviousness and is due to runoff volume rather than the concentration of inputs. As watershed imperviousness increases, the proportion of flow from storm runoff increases, and the proportion of flow from groundwater decreases. Impervious cover also increases the speed and volume of runoff and limits groundwater recharge. This year, a flashiness index was calculated to confirm that high intensity events move most of the particulate material through the systems. PCA also confirmed and strengthened that while most differences are attributed to imperviousness, other factors like tree canopy, seasonality, and storm event characteristics could potentially be good predictors of constituent loading.

Baseflow

As more data accumulates, we can continue to compare yields from runoff volume to baseflow or groundwater. This monitoring program is unique in that it captures dry weather baseflow that is primarily groundwater comprised of inorganic N while other monitoring programs run by USGS capture the baseflow of natural streams. This has been observed in stormwater systems in Minnesota, where baseflow is common during summer months and TN loading is predominant during those times (Janke et al. 2013). Management decisions can be based off the fact that more TN is mobilized during baseflow conditions while TP and TSS are mobilized during stormflow conditions.

Nitrogen bioavailability

The Chesapeake Bay Program's TMDL is only based off of TN loads, however complex interactions occur with all nitrogen constituents, and not all TN should be treated equal. Understanding what types of nitrogen are fueling algal blooms, and subsequently low dissolved oxygen, can help inform management decisions on which type of nitrogen should be controlled or reduced. Since runoff or stormflow in the Hampton Roads network is mostly comprised of organic N and storms can account for nearly 50% of the total annual flow in the monitoring system, it may be valuable to understand the bioavailability of the organic N fraction in the receiving waters of the stormwater system. Different types of organic N, whether naturally formed, from runoff, or as a byproduct of wastewater treatment, can be bioavailable in estuarine communities, but it depends heavily on the type and composition of organic N (Seitzinger et al. 2002, Filippino et al. 2011, Mesfioui et al. 2012). Organic N in this system could be from algae formed inside the pipe, resuspension of material as it travels through the system, or from outside sources washed from lawns and impervious surfaces. It is yet to be determined, however, if this type of organic nitrogen is bioavailable to organisms in the surface waters in the lower portion of the Bay. Typically, the lower portion of the Bay is limited by nitrogen and inorganic nitrogen is the preferred source of nitrogen for algal growth (Fisher et al., 1992). There is research on-going linking certain harmful algae growth to mixotrophy, or the ability of algae to prefer organic and inorganic nitrogen as their nutrient source (Hofmann et al., 2021, Mulholland et al. 2009). Once bioavailability is determined, managing for organic N on commercial sites for stormflow versus inorganic N on residential sites could be a valuable strategy. These types of bioassays for

bioavailability are costly and a consistent laboratory method has yet to be developed, however project partners are looking for ways to explore finding funding for this research.

For management purposes, approved BMPs do not have load reduction estimates for specific forms of nitrogen, they only account for bulk nutrient removal. However, some practices could be better at removing organic N versus inorganic N. For example, any BMP that is associated with settling of particles could remove more organic N and any BMP that performs denitrification (converting nitrate to nitrogen gas) would remove more nitrate. Many BMPs could fall into these categories however (living shorelines, floating treatment wetlands, oyster reefs, etc.), and more research is needed to determine efficiencies associated with nitrate or organic N removal and how to maximize those reductions. Evaluating BMPs that are able to reduce nitrogen during more extreme events and considering alternatives, like water storage, is a future research need that could be addressed within the Chesapeake Bay Program partnership.

Total Phosphorus in the coastal plain

Like TN, TP loads are generated at higher yields from commercial sites and are also being transported more during storm events as opposed to the baseflow. In comparison to other monitoring networks, TP and orthophosphate-P are relatively high, but this is likely a function of the coastal plain soils, not necessarily an increase in the source of TP as run-off. The adsorption of TP in soils in the region is very low as they contain more aluminum bound to P than iron bound to P (Aura, 1978; Walbridge and Struthers, 1993). Aluminum-bound P has a lower affinity than iron-bound P, and therefore, P is desorbed at a higher rate in this region. Also, the soils are mostly sandy, and that has a low affinity for P. While not directly measured, combining this phenomenon with TP from lawn, street, and other impervious surface run-off and the mineralization of organic materials would lead to high yields of TP compared to other monitoring networks. Looking at bioavailability of TP constituents versus TN constituents would also help managers decide on strategies that may reduce TN versus TP. While BMP reduction efficiencies in Virginia are tied to TP, production of algae in receiving waters in the coastal plain are likely due to increased TN, as it is the limiting nutrient. Understanding the sources of organic P, whether or not it is tied to particles or dissolved, and its bioavailability in relation to TN would be helpful to understand for management purposes. Conversely, TSS did

not vary from site to site. In comparison to other monitoring programs across the state conducted by the USGS, TSS concentrations are much lower in the coastal plain.

This monitoring program is allowing regional managers to see a more holistic picture of baseflow and runoff for the region and the importance of TN versus TP across different land uses. It is also allowing for comparisons of other urban networks to provide better insights in the types of nutrients entering the Bay from the coastal plain. We are starting to see trends in annual yields in relation to annual precipitation, while acknowledging that extremes occur and produce the majority of the loads. Through continued monitoring and research, we can get closer to calculating runoff ratios based on impervious surfaces, investigate and apply management strategies that target the bioavailable nutrients, and inform decision-makers using the best available science for the region. It is the goal of this monitoring program to factor in storm variability, baseflow, and land use type over an extended period of time to establish demonstrable loading rates in the coastal plain. This will provide valuable data to a future version of the Chesapeake Bay watershed model and contribute to current calibrations of the Phase 6 model. Over the course of the next few years, localities will continue to collaborate with USGS and HRSD to collect data, evaluate loading rates over the long term, and conduct further research to answer some of these important management questions for the health of the Bay and local waterways.

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Appendix A

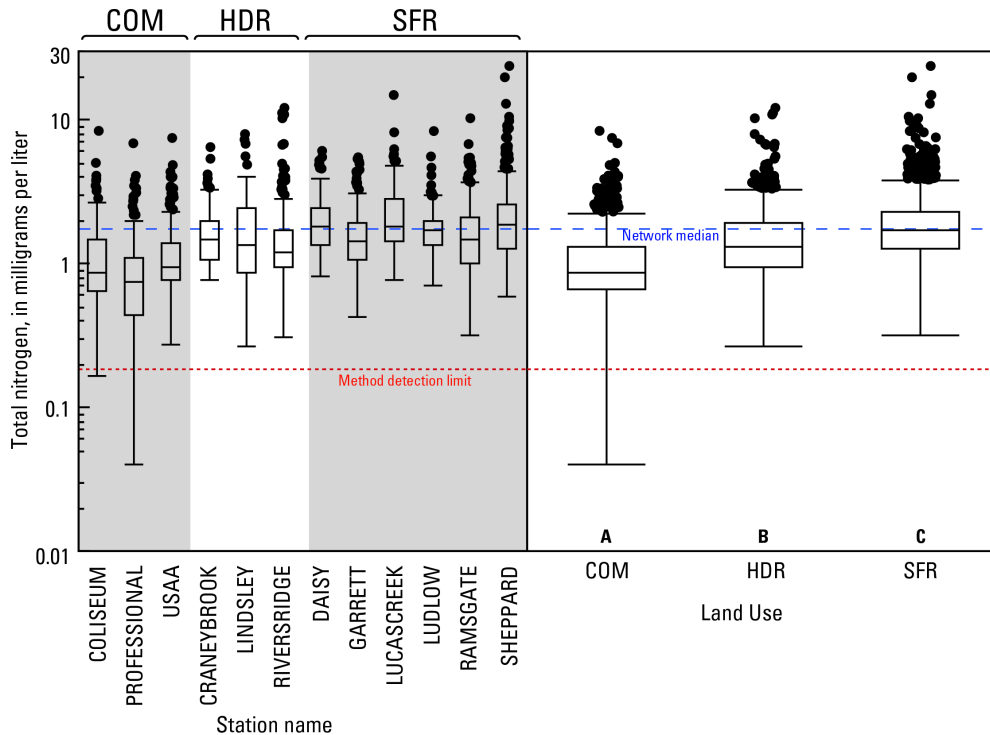


Figure A1. Total nitrogen concentrations by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.

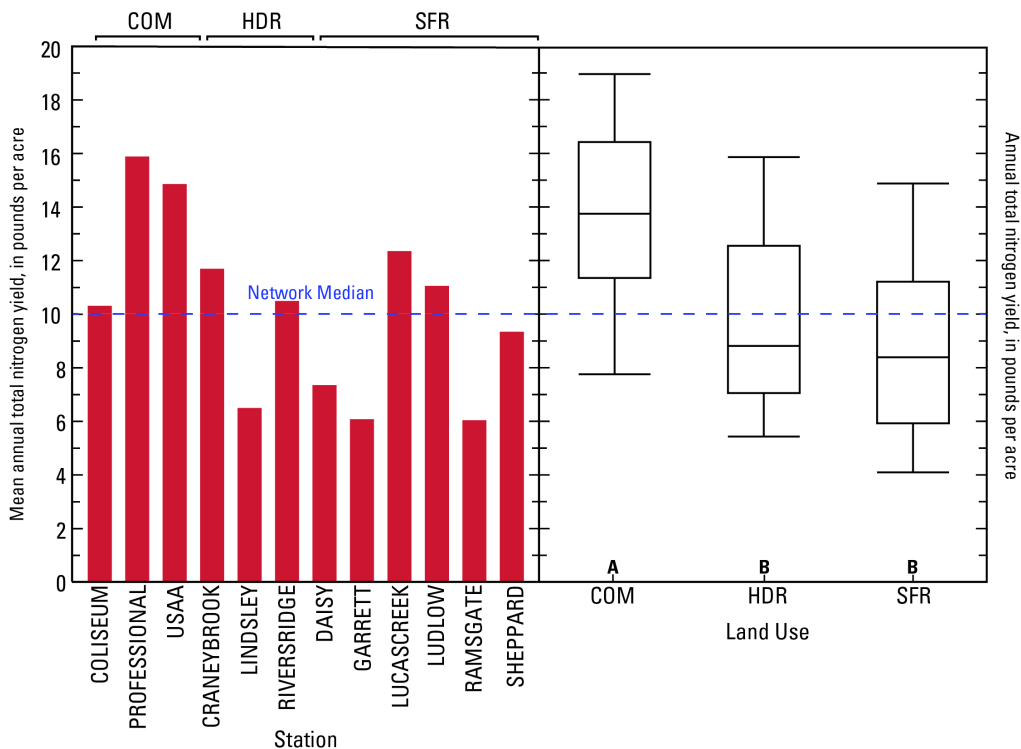


Figure A2. Mean annual total nitrogen yields by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.

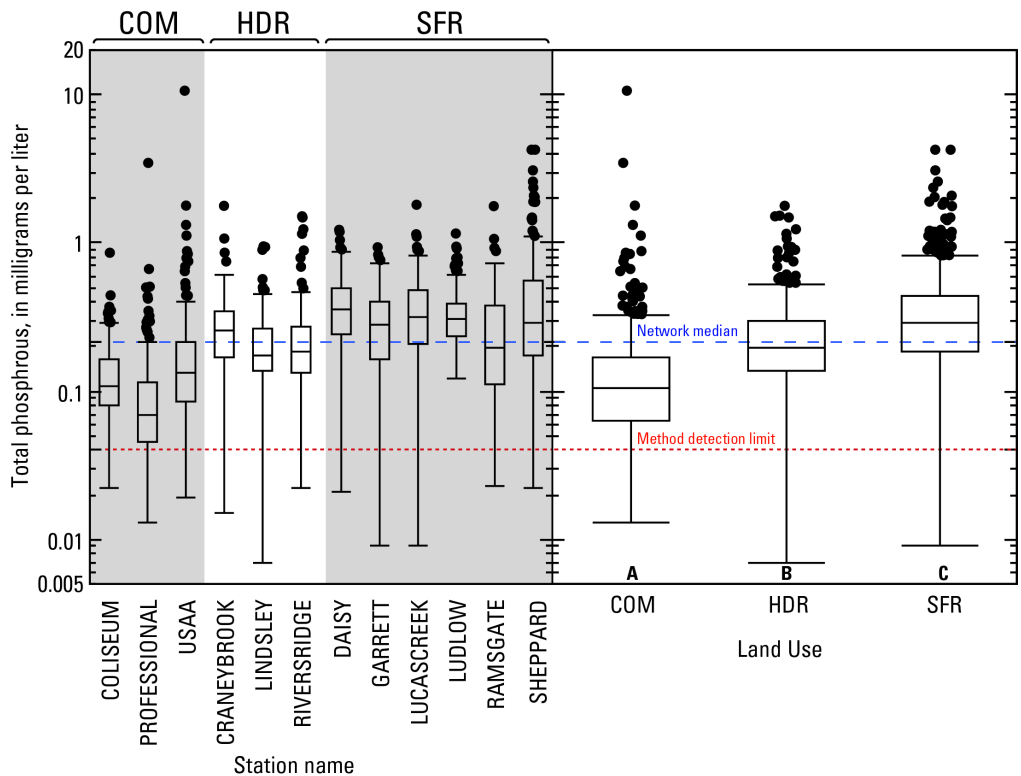


Figure A3. Total phosphorus concentrations by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.

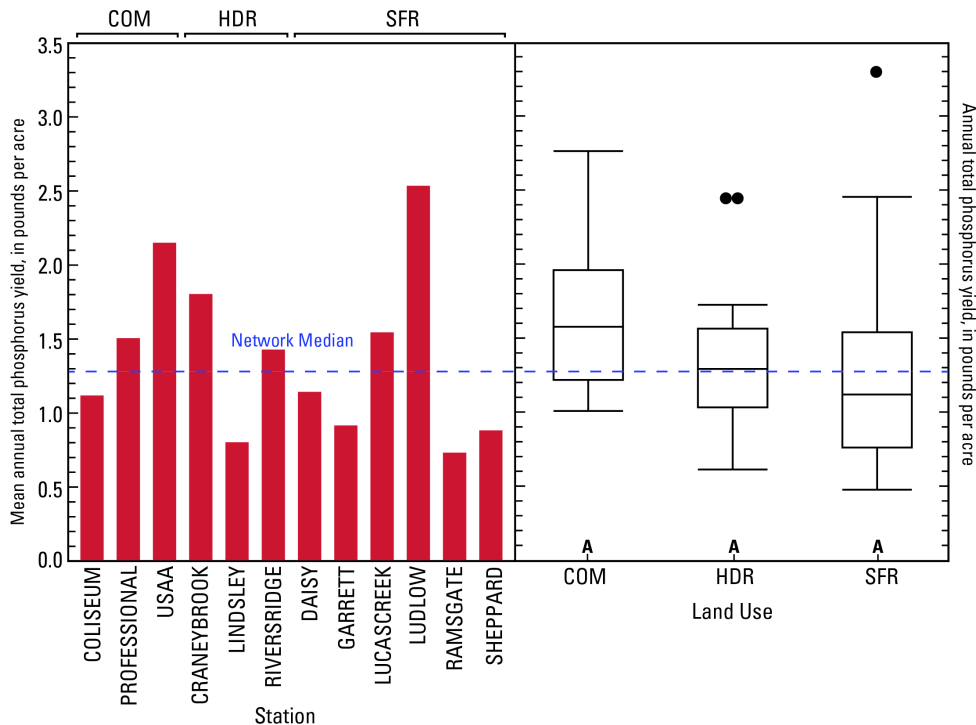


Figure A4. Mean annual total phosphorus yields by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.

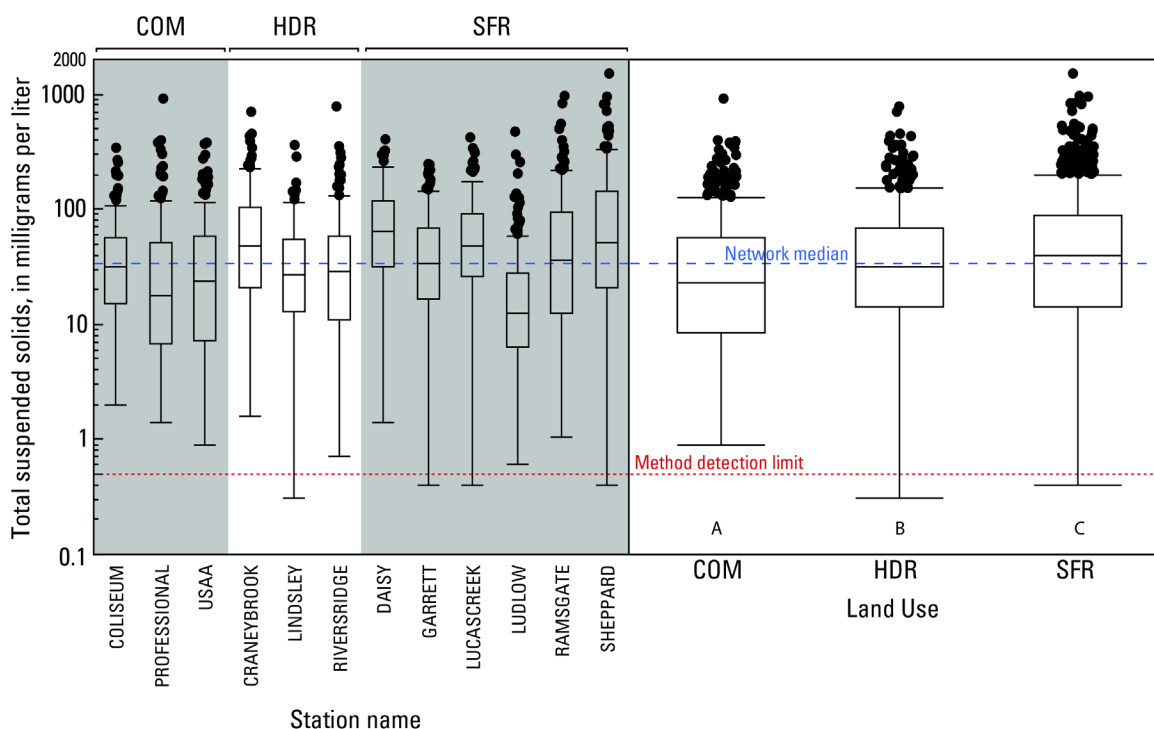


Figure A5. Total suspended sediment concentrations by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.

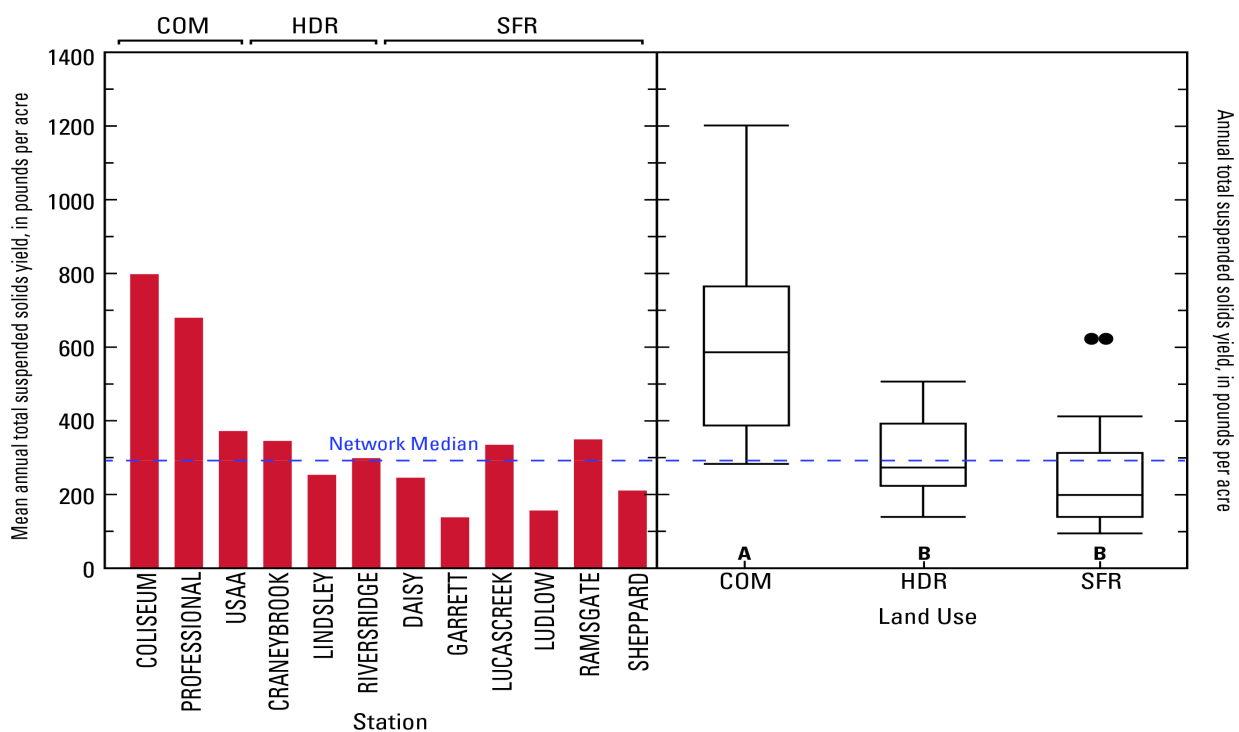


Figure A6. Mean annual total suspended sediment yields by individual station and averaged over land use types during the water year, Oct. 1, 2019 – Sept. 30, 2020.



Final Report-Norfolk Street Sweeping Monitoring Study

Date: December 22, 2020

To: Norfolk Department of Public Works
Environmental Stormwater Management
2233 McKann Avenue
Norfolk, VA 23509

From: Whitman, Requardt & Associates, LLP

Subject: Year 3 Street Sweeping Sample Data Summary

Work Order Number: 19515.006

Contract Number: 27566

Project: Norfolk WO.6 Street Sweeping
Sampling – Year 3 Data Analysis

BACKGROUND

The City of Norfolk is required by the terms of Municipal Separate Storm Sewer System (MS4) Permit No. VA0088650 issued by the Virginia Department of Environmental Quality (DEQ) to develop and implement a street sweeping monitoring program to evaluate pollutant reductions attributable to the sweeping program. Whitman, Requardt & Associates, LLP was retained by the City of Norfolk to compile and summarize the data collected during the multi-year sampling program for inclusion in the City's Annual Report to the Virginia DEQ. WRA has compiled and summarized the data collected and reported for the entire sampling period ending with samples collected in Q2 2020.

A summary of the sampling program and findings keyed to previously developed monitoring program objectives is summarized on the following pages.

PERMIT REQUIREMENTS

This Memorandum summarizes the results of a multi-year effort to collect and analyze street sweeping sampling data in fulfillment of the requirements of Part I.C.2, Street Sweeping Program Monitoring, of VSMP MS4 Permit No. VA0088650 having an effective date of July 1, 2016. Specific permit requirements include collecting and analyzing street sweeping material for total nitrogen (TN) and total phosphorus (TP) concentrations from at least three (3) sites within the City of Norfolk to determine the efficiency of both mechanical broom sweepers and regenerative air vacuum sweepers. Monitoring is required to be performed a minimum of once per quarter between January 1 and December 31.

MONITORING PROGRAM OBJECTIVES

The objectives of the street sweeping monitoring program were formalized in a monitoring plan guiding the work. The selected objectives, consistent with the terms of the MS4 permit, include:

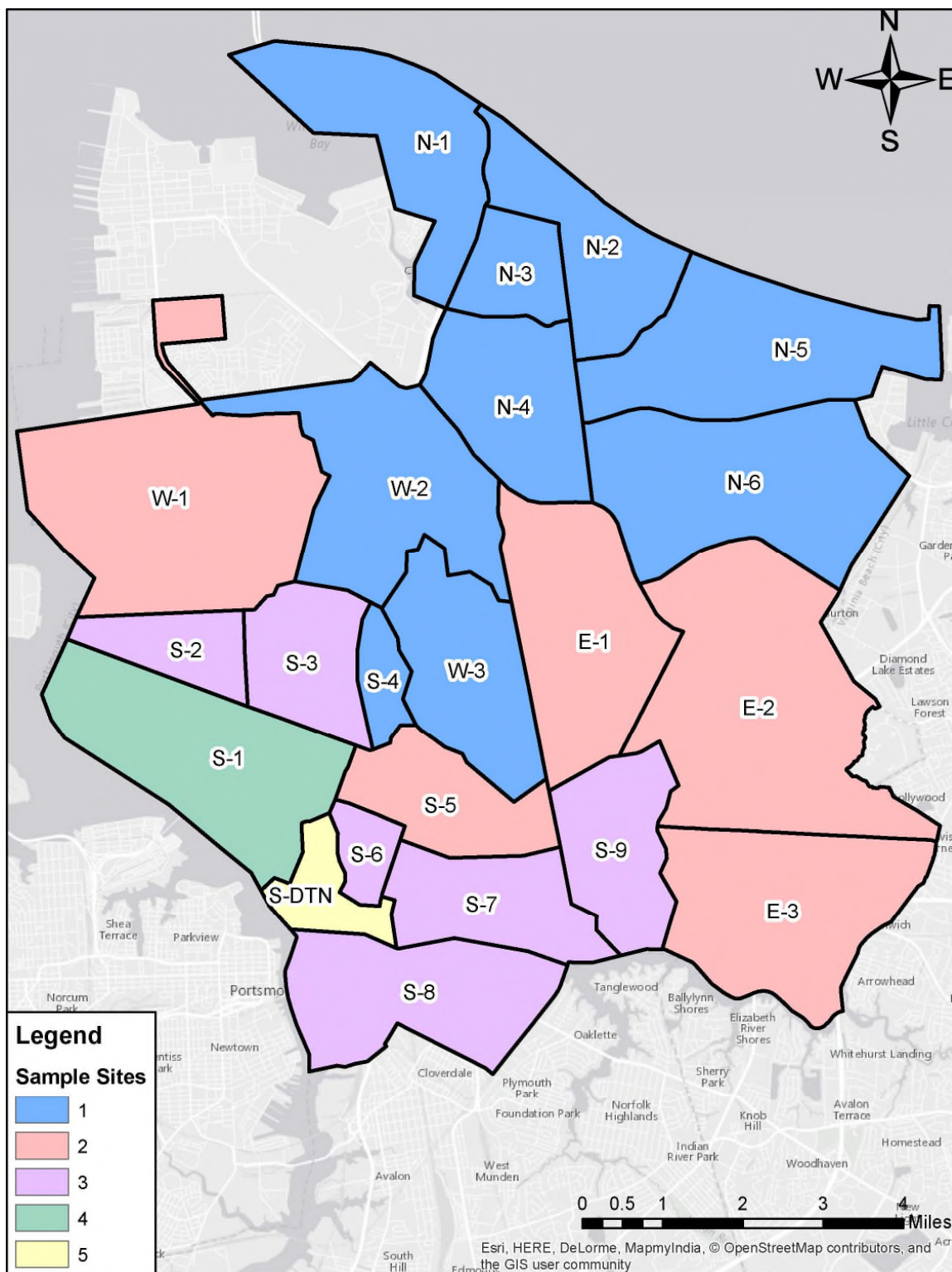
- Objective 1: Collect data from both regenerative air vacuum sweepers and mechanical broom sweepers to permit comparisons between sweepers and against previous expert panel findings;
- Objective 2: Collect data to enable assessment of the efficiency of operational practices such as performing a single pass with a mechanical broom sweeper followed by a second pass of either a mechanical broom sweeper or a regenerative air vacuum sweeper; and,

- Objective 3: Collect data to assess material on the street prior to sweeping and material remaining on the street following sweeping operations.

MONITORING SITE SELECTION

The definition of a site as applied to the street sweeping monitoring program was not defined within VSMP MS4 Permit No. VA0088650. For the purpose of the street sweeping monitoring program, a “site” was deemed to be a geographical area sharing common characteristics of land use and impervious cover. The primary advantages of treating an area as a site include: (1) the fusion of the sampling results tends to smooth out any irregularities associated with sampling small areas; (2) the practicality of obtaining a sample from a “site” is less impacted by poor weather or on-street parking on any given day; and (3) the results are more broadly applicable to a larger area with a commensurate reduction in data tracking for permit compliance.

Figure 1 illustrates the five (5) selected sampling sites along with the street sweeping zones comprising each site.

Figure 1. Street Sweeping Zones and Monitoring Sites

MONITORING OBJECTIVE 1 RESULTS:

Objective 1 of the monitoring program was to collect data from both regenerative air vacuum sweepers and mechanical broom sweepers to permit comparisons between sweepers and against previous expert panel findings. To meet this objective, both regenerative air vacuum sweepers and mechanical broom sweepers were used on the same day within the applicable sweeping zone. Multiple grab samples of sweeper waste from both pieces of equipment were appropriately composited and sent for laboratory analysis. Samples were analyzed for TP, TKN, and Nitrate. Samples were sieved prior to analyses and all analyses were performed on each sieved fraction.

This objective was met through eight (8) separate sampling events as described in the monitoring plan. To meet this objective, sweeper waste samples were collected from both broom and vacuum sweepers as follows:

- Site 1 (Q4 – 2017, Sweeping Zone N-2);
- Site 1 (Q2 – 2018, Sweeping Zone N-5);
- Site 2 (Q1 – 2018, Sweeping Zone E-3);
- Site 2 (Q3 – 2019, Sweeping Zone S-5);
- Site 3 (Q3 – 2018, Sweeping Zone S-9);
- Site 3 (Q4 – 2018, Sweeping Zones S-2/S-3);
- Site 4 (Q2 – 2019, Sweeping Zone S-1); and,
- Site 4 (Q1 – 2020, Sweeping Zone S-1).

A summary of the data associated with monitoring objective 1 is provided in **Table 1**.

Sample data were compared using paired t-tests to investigate potential differences in the population means of the broom and vacuum sweeper waste samples. Tests were performed on grain size fractions and on both TN and TP concentrations for each grain size fraction. There was insufficient analytical TP and TN data to permit analysis of similarities/differences between sweeper types for the fine-grained fraction. A significance level of $p=0.05$ was used for all analyses under the null hypothesis that the sample means are drawn from the same population.

A summary of the test results is provided in **Table 2**.

In analyzing the results of t-tests, the calculated P-value is compared to the significance level ($p=0.05$). If the P-value exceeds the significance level, we accept the null hypothesis, i.e., there is no difference in the population means. Conversely, when the P-value is less than the significance level we reject the null hypothesis and conclude that there is a difference in the population means. Based on the information provided in **Table 2**, we can state the following with 95% confidence:

- there are no differences in the mean percentages of the fine-, medium-, and coarse-grained fractions of the vacuum and broom sweeper wastes;
- there is no difference in the mean TN concentrations in the medium- and coarse-grained fractions of the vacuum and broom sweeper wastes;
- there is no difference in the mean TP concentrations in the medium- and coarse-grained fractions of the vacuum and broom sweeper wastes;
- for the vacuum sweepers, there is no difference in the mean TN and TP concentrations in the medium- and coarse-grained soil fractions;
- for the broom sweepers, there is no difference in the mean TN concentrations in the medium- and coarse-grained soil fractions; and,

- for the broom sweepers, the TP concentration of the coarse-grained soil fraction is greater than that of the medium-grained soil fraction.

The mass of dirt collected per unit area was not measured during the sampling program. Therefore, it is unknown if the vacuum sweepers are more “efficient” than the broom sweepers or vice versa. However, based on the street dirt present on Norfolk streets, the above results suggest that the material collected by the broom sweepers possesses the same characteristic grain sizes and pollutants concentrations as the material collected from the vacuum sweepers.

Table 1. Monitoring Objective 1 – Data Summary

Year	Quarter	Site	Sweeping Zone	Vacuum SW Sample ID	Broom SW Sample ID		Fine		Medium		Coarse	
							Vacuum	Broom	Vacuum	Broom	Vacuum	Broom
2017	Q4	1	N-2	17-Q4-N2-V-SW	17-Q4-N2-B-SW	Sieve Fraction (%)	8.5	27.1	69.4	52.5	22.1	20.4
						TN (mg/kg)	4,200	3,670	3,190	1,850	1,100	2,860
						TP (mg/kg)	859	800	244	313	526	705
2018	Q1	2	E-3	18-Q1-E3-V-SW	18-Q1-E3-B-SW	Sieve Fraction (%)	13.6	2.1	29.0	24.0	57.4	73.9
						TN (mg/kg)			1,513	3,290	1,853	5,502
						TP (mg/kg)			200	300	200	700
2018	Q2	1	N-5	18-Q2-N5-V-SW	18-Q2-N5-B-SW	Sieve Fraction (%)	1.5	6.3	90.0	33.1	8.5	60.6
						TN (mg/kg)	118,165		3,377	2,495	2,820	2,830
						TP (mg/kg)	31,200		354	336	544	541
2018	Q3	3	S-9	18-Q3-S9-V-SW	18-Q3-S9-B-SW	Sieve Fraction (%)	0.4	4.8	82.5	67.5	17.1	27.7
						TN (mg/kg)			2,890	1,280	4,500	3,770
						TP (mg/kg)			359	234	361	378
2018	Q4	3	S-2/S-3	18-Q4-S23-V-SW	18-Q4-S23-B-SW	Sieve Fraction (%)	1.1	5.4	68.8	69.9	30.1	24.7
						TN (mg/kg)			5,921	1,710	6,820	801
						TP (mg/kg)			481	380	457	436
2019	Q2	4	S-1	19-Q2-S1-V-SW	19-Q2-S1-B-SW	Sieve Fraction (%)	1.5	2.2	46.4	65.8	52.1	32.0
						TN (mg/kg)			4,795	8,451	16,500	4,912
						TP (mg/kg)			487	613	1,330	702
2019	Q3	2	S-5	19-Q3-S5-V-SW	19-Q3-S5-B-SW	Sieve Fraction (%)	1.7	1.8	78.5	68.4	19.8	29.8
						TN (mg/kg)		2,880	396	651	5,170	2,200
						TP (mg/kg)		1,210	74	318	671	511
2020	Q1	4	S-1	20-Q1-S1-V-SW	20-Q1-S1-B-SW	Sieve Fraction (%)	0.7	4.5	83.6	11.8	15.7	83.7
						TN (mg/kg)			4,220	3,180	7,300	13,400
						TP (mg/kg)			660	509	621	1,330

Table 2. Monitoring Objective 1 - Statistical Test Results

Parameter	Grain Size Fraction		Mean Values		P Value
			Vacuum	Broom	
Sieve (%)	Fine		3.6	6.8	0.315
	Medium		68.5	49.1	0.112
	Coarse		27.8	44.1	0.165
TN (mg/kg)	Fine				
	Medium		3,288	2,863	0.627
	Coarse		5,758	4,534	0.558
	Medium	Vacuum	3,288		0.147
	Coarse	Vacuum	5,758		
	Medium	Broom	2,863		0.272
TP (mg/kg)	Coarse	Broom	4,534		
	Fine		357	375	0.726
	Medium		589	662	0.623
	Coarse				
	Medium	Vacuum	357		0.272
	Coarse	Vacuum	588		
	Medium	Broom	375		<u>0.014</u>
	Coarse	Broom	662		

MONITORING OBJECTIVE 2 RESULTS

Objective 2 of the monitoring program was to collect data to enable assessment of the efficiency of operational practices such as performing a single pass with a broom sweeper followed by a second pass by either a mechanical broom sweeper or a regenerative air vacuum sweeper. Practicality dictated that mechanical broom sweepers were used for the second pass of each sampling event as the equipment was already available and on site. This monitoring objective was met through four (4) separate sampling events, one each at:

- Site 1 (Q1 – 2019, Sweeping Zone W-2);
- Site 2 (Q3 – 2018, Sweeping Zone W-1);
- Site 3 (Q2 – 2020, Sweeping Zone S-6); and,
- Site 4 (Q4 – 2018, Sweeping Zone S-1).

To meet the monitoring objective, samples were collected from the sweepers performing only a single pass on selected streets and sweepers performing two passes on selected streets. Multiple grab samples from both pieces of equipment were composited and sent for laboratory analysis. Samples were analyzed for TP, TKN, and Nitrate. Samples were sieved prior to analyses and all analyses were performed on each sieved fraction.

A summary of the data associated with monitoring objective 2 is provided in **Table 3**.

Table 3. Monitoring Objective 2 – Data Summary

Year	Quarter	Site	Sweeping Zone	Pass 1 SW Sample ID	Pass 2 SW Sample ID		Fine		Medium		Coarse	
							Pass 1	Pass 2	Pass 1	Pass 2	Pass 1	Pass 2
2018	Q3	2	W-1	18-Q3-W1-B-SW-1P	18-Q3-W1-B-SW-2P	Sieve Fraction (%)	11.8	8.9	74.8	82.4	13.4	8.7
						TN (mg/kg)			2,820	3,310	3,790	4,750
						TP (mg/kg)			236	378	429	416
2018	Q4	4	S-1	18-Q4-S1-B-SW-1P	18-Q4-S1-B-SW-2P	Sieve Fraction (%)	0.8	0.6	47.5	44.3	51.7	55.1
						TN (mg/kg)			3,844	1,692	5,900	8,817
						TP (mg/kg)			395	258	386	227
2019	Q1	1	W-2	19-Q1-W2-B-SW-1P	19-Q1-W2-B-SW-2P	Sieve Fraction (%)	6.4	6.2	36.5	23.8	57.1	70.0
						TN (mg/kg)			1,910	2,630	1,710	2,810
						TP (mg/kg)			132	321	254	328
2020	Q2	3	S-6	20-Q2-S6-B-SW-1P	20-Q2-S6-B-SW-2P	Sieve Fraction (%)	8.4	1.4	26.3	39.3	65.3	59.3
						TP (mg/kg)			53	395	254	361
						TN (mg/kg)			443	1,210	855	1,530

Sample data were compared using t-tests to investigate potential differences in the population means of the broom sweeper waste samples collected after the first and second passes of the sweeper. Tests were performed on grain size fractions and on both TN and TP concentrations for each grain size fraction. There was insufficient analytical TP and TN data to permit analysis of similarities/differences for the fine-grained fraction. A significance level of $p=0.05$ was used for all analyses under the null hypothesis that the sample means are drawn from the same population.

A summary of the results is provided in **Table 4**.



As before, if the P-value exceeds the significance level ($p=0.05$), we accept the null hypothesis, i.e., there is no difference in the population means. Conversely, when the P-value is less than the significance level we reject the null hypothesis and conclude that there is a difference in the population means. Based on the information provided in **Table 4**, we can state the following with 95% confidence:

- there are no differences in the mean percentages of the fine-, medium-, and coarse-grained fractions of the broom sweeper wastes after one and two sweeper passes;
- there is no difference in the mean TN concentrations in the medium- and coarse-grained fractions of the broom sweeper waste after one and two sweeper passes; and,
- there is no difference in the mean TP concentrations in the medium- and coarse-grained fractions of the broom sweeper waste after one and two sweeper passes.

The above results suggest that while additional street dirt is being collected during the second pass of sweeping by the broom sweeper, the material possesses the same characteristic grain sizes and pollutants concentrations as the material collected following one pass of the sweeper.

Table 4. Monitoring Objective 2 - Statistical Test Results

Parameter	Grain Size Fraction	Mean Values		P Value
		Pass 1	Pass 2	
Sieve (%)	Fine	6.9	4.3	0.208
	Medium	46.3	47.4	0.850
	Coarse	46.8	48.3	0.769
TN (mg/kg)	Fine			
	Medium	2,254	2,210	0.954
	Coarse	3,064	4,476	0.069
TP (mg/kg)	Fine			
	Medium	204	388	0.272
	Coarse	331	333	0.972

MONITORING OBJECTIVE 3 RESULTS

Objective 3 of the monitoring plan was to collect data to assess material on the street prior to sweeping and material remaining on the street following sweeping operations. This objective was met through the same eight (8) sampling events listed in “Monitoring Objective 1 Results”, above.

Both regenerative air vacuum sweepers and mechanical broom sweepers were used on the same day within the applicable sweeping zone. Street dirt samples were collected both before and after sweeping operations. Samples were collected using an industrial vacuum cleaner (Shop-Vac TM) capable of moving a minimum of 100 cubic feet per minute of air with a minimum of 90 inches of sealed suction pressure.

Street dirt samples were collected by vacuuming from the curb to the crown of the street until sufficient volume was obtained to fill a 2-gallon plastic freezer bag. Samples were subsequently sieved into fine-, medium-, and coarse-grained fractions.

Monitoring Objective 3 was met through the following eight (8) sampling events:

- Site 1 (Q4 – 2017, Sweeping Zone N-2);
- Site 1 (Q2 – 2018, Sweeping Zone N-5);
- Site 2 (Q1 – 2018, Sweeping Zone E-3);
- Site 2 (Q3 – 2019, Sweeping Zone S-5);
- Site 3 (Q3 – 2018, Sweeping Zone S-9);
- Site 3 (Q4 – 2018, Sweeping Zones S-2/S-3);
- Site 4 (Q2 – 2019, Sweeping Zone S-1).
- Site 4 (Q1 – 2020, Sweeping Zone S-1).

A summary of the data associated with changes in the distribution of grain sizes on the street, both before and after sweeping operations is provided in **Table 5**.

As with the other monitoring objectives, samples were compared using t-tests to investigate potential differences in the population means of the street dirt both prior to and following sweeping with both vacuum and broom sweepers. Tests were performed on each grain size fraction. A significance level of $p=0.05$ was used for all analyses under the null hypothesis that the sample means are drawn from the same population.

A summary of the results is provided in **Table 6**.

As before, if the P-value exceeds the significance level ($p=0.05$), we accept the null hypothesis, i.e., there is no difference in the population means. Conversely, when the P-value is less than the significance level we reject the null hypothesis and conclude that there is a difference in the population means. Based on the information provided in **Table 6**, we can state the following with 95% confidence:

- there are no differences in the mean percentages of the fine-, medium-, and coarse-grained fractions of the street dirt prior to and following sweeping operations by broom sweepers;
- there is no difference in the mean percentages of the fine-, medium-, and coarse-grained fractions of the street dirt prior to and following sweeping operations by vacuum sweepers; and,
- there are no differences in the mean percentages following sweeping operations of the broom and vacuum sweepers for the fine-, medium-, and coarse-grained fractions of the street dirt.

While it may be particular to the street dirt present in the city of Norfolk, the sampling and analysis program results suggest that there is no difference between the street dirt grain size composition remaining on the street following sweeping operations for either broom or vacuum sweepers. Further, it appears that both types of sweepers remove street dirt soil grain size fractions consistent with those present on the street prior to sweeping.



Table 5. Monitoring Objective 3 – Data Summary – Grain Size Distribution

Year	Quarter	Site No.	Sweeping Zone	Parameter	Fine			Medium			Coarse		
					Before	After - Vacuum	After - Broom	Before	After - Vacuum	After - Broom	Before	After - Vacuum	After - Broom
2017	Q4	1	N-2	Sieve (%)	9.8		15.4	86.1		71.6	4.1		13.0
2017	Q4	1	N-2	Sieve (%)	23.3	26.9		55.2	48.3		21.5	24.8	
2018	Q1	2	E-3	Sieve (%)	15.0		20.3	81.3		79.5	3.7		0.2
2018	Q1	2	E-3	Sieve (%)	15.3	32.2		73.3	67.1		11.4	0.7	
2018	Q2	1	N-5	Sieve (%)	12.0		4.5	80.0		87.5	8.0		8.0
2018	Q2	1	N-5	Sieve (%)	13.6	0.0		84.7	88.1		1.7	11.9	
2018	Q3	3	S-9	Sieve (%)	7.3		9.3	87.3		87.2	5.4		3.5
2018	Q3	3	S-9	Sieve (%)	4.9	0.3		90.4	94.5		4.7	5.2	
2018	Q4	3	S-2/S-3	Sieve (%)	22.2		4.2	73.9		91.7	3.9		4.1
2018	Q4	3	S-2/S-3	Sieve (%)	21.7	16.8		73.6	74.6		4.7	8.6	
2019	Q2	4	S-1	Sieve (%)	6.0		6.6	87.5		84.5	6.5		8.9
2019	Q2	4	S-1	Sieve (%)	11.5	7.0		82.7	88.2		5.8	4.8	
2019	Q3	2	S-5	Sieve (%)	5.0		7.7	74.7		90.1	20.3		2.2
2019	Q3	2	S-5	Sieve (%)	3.7	10.8		92.8	80.1		3.5	9.1	
2020	Q1	4	S-1	Sieve (%)	5.6		8.3	38.8		90.0	55.6		1.7
2020	Q1	4	S-1	Sieve (%)	6.2	5.7		81.2	50.1		12.6	44.2	

Table 6. Monitoring Objective 3 - Statistical Test Results – Grain Size Distribution

Grain Size Fraction	Mean Values			P Value
	Before Sweeping	Vacuum - After	Broom - After	
Fine	12.5	12.5		0.985
Medium	79.2	73.9		0.254
Coarse	8.2	13.7		0.249
Fine	10.4		9.5	0.780
Medium	76.2		85.3	0.241
Coarse	13.4		5.2	0.281
Fine		12.5	9.5	0.544
Medium		73.9	85.3	0.120
Coarse		13.7	5.2	0.147

ADDITIONAL FINDINGS:

Additional analysis of street dirt monitoring data was performed to determine if there are spatial or seasonal differences (trends) which can provide further insight to the street sweeping program. In particular, investigations into differences of grain size distributions and TN and TP concentrations with each grain size fraction were evaluated. These evaluations were performed across all sites and seasons.

A summary of the data associated with spatial and seasonal variations of street dirt grain sizes is provided in **Table 7**, while variations in TN and TP concentrations within each grain size fraction are provided in **Table 8** and **Table 9**, respectively.

Based on the information provided in **Table 7**, we can state the following with 95% confidence:

- across all sites and seasons, the mean value of the percentage of the medium-grained size of street dirt is greater than the mean values for both the fine and coarse-grained fractions; and,
- with one exception, across all sites and seasons, there is no difference in the mean value of the percentages of the fine- and coarse-grained sizes of street dirt. The exception being that the fine-grained fraction mean of 10.8% exceeds the coarse-grained fraction mean of 5.5% for Q2.

Based on the information provided in **Table 8**, we can state the following with 95% confidence:

- with one exception, across all sites and seasons, there is no difference in the mean value of the TN concentrations for the fine-, medium, and coarse-grained soil fractions. The exception being that for Site 2, the coarse-grained fraction TN mean concentration of 8,103 mg/kg exceeds both the fine- and medium-grained fraction means of 3,465 and 2645 mg/kg, respectively.

Based on the information provided in **Table 9**, we can state the following with 95% confidence:

- across all sites and seasons, there is no difference in the mean value of the TP concentrations for the fine- and coarse-grained soil fractions; and,
- in Q3 and Q4, and at Sites 2 and 3, the TP concentration in the fine-grained soil fraction exceeds the mean TP value in the medium-grained fraction.

A common premise is that fine-grained soils must be removed during street sweeping operations for effective pollutant removal. However, as demonstrated above the medium-grained soil fraction of Norfolk street dirt exceeds the fine- and coarse-grained percentages across all sites and seasons – typically by a factor of 6 to 10.

It is noteworthy that TN concentrations in the street dirt fractions are nearly universally consistent across all sites and seasons. The ramifications of this are that TN removal is driven by the mass of dirt removed and not by any particular size fraction.

TP concentrations in fine-grained soils exceed TP concentrations in medium-grained soils above half of the time, but only by a factor of 2 to 3. There is no difference in TP concentrations between fine- and coarse-grained dirt. These results, coupled with the findings from Table 6, suggest that effective TP removal is not dominated by the removal of any particular size fraction but by consistent removal across all size fractions

Table 7. Street Dirt - Statistical Test Results – Grain Size Distribution

	Sieve Fraction (%)			P value
	Fine	Medium	Coarse	
Q1	10.5	68.6		<u>0.012</u>
	10.5		20.8	0.456
		68.6	20.8	<u>0.022</u>
Q2	10.8	83.7		<u>>>0.001</u>
	10.8		5.5	<u>0.048</u>
		83.7	5.5	<u>>>0.001</u>
Q3	5.2	86.3		<u>>>0.001</u>
	5.2		8.5	0.479
		86.3	8.5	<u>>>0.001</u>
Q4	19.2	72.2		<u>0.002</u>
	19.2		8.6	0.093
		72.2	8.6	<u>>>0.001</u>
Site 1	14.7	76.5		<u>0.001</u>
	14.7		8.8	0.322
		76.5	8.8	<u>>>0.001</u>
Site 2	9.8	80.5		<u>>>0.001</u>
	9.8		9.7	0.996
		80.5	9.7	<u>>>0.001</u>
Site 3	14.0	81.3		<u>>>0.001</u>
	14.0		4.7	0.136
		81.3	4.7	<u>>>0.001</u>
Site 4	7.3	72.6		<u>0.011</u>
	7.3		20.1	0.364
		72.6	20.1	<u>0.019</u>

Table 8. Street Dirt - Statistical Test Results – TN Concentrations

	TN (mg/kg)			P value
	Fine	Medium	Coarse	
Q1	4,920	3,225		0.055
	4,920		5,878	0.308
		3,225	5,878	0.055
Q2	4,733	6,288		0.534
	4,733		11,764	0.184
		6,288	11,764	0.268
Q3	2,911	2,425		0.579
	2,911		6,358	0.184
		2,425	6,358	0.134
Q4	5,072	4,144		0.688
	5,072		3,814	0.514
		4,144	3,814	0.844
Site 1	3,894	4,983		0.626
	3,894		13,044	0.202
		4,983	13,044	0.249
Site 2	3,465	2,645		0.462
	3,465		8,103	0.018
		2,645	8,103	0.013
Site 3	4,977	4,448		0.703
	4,977		3,198	0.208
		4,448	3,198	0.275
Site 4	4,834	4,215		0.846
	4,834		5,776	0.774
		4,215	5,776	0.573

Table 9. Street Dirt - Statistical Test Results – TP Concentrations

	TP (mg/kg)			P value
	Fine	Medium	Coarse	
Q1	850	404		0.163
	850		537	0.278
		404	537	0.143
Q2	890	728		0.698
	890		1,051	0.823
		728	1,051	0.643
Q3	854	428		<u>0.040</u>
	854		868	0.971
		428	868	0.288
Q4	926	349		<u>0.031</u>
	926		708	0.340
		349	708	0.119
Site 1	838	545		0.236
	838		1,145	0.638
		545	1,145	0.382
Site 2	822	310		<u>0.011</u>
	822		953	0.705
		310	953	0.124
Site 3	860	438		<u>0.048</u>
	860		530	0.226
		438	530	0.705
Site 4	1,050	666		0.502
	1,050		536	0.388
		666	536	0.620

Cumulative Progress Towards Compliance Targets Through June 2021

James River Basin

Description	Pollutant of Concern (POC)		
	(lb/yr)		
	TN	TP	TSS
Required POC Reductions:			
Baseline Requirement	540.00	144.60	68195.00
Additional 15% Requirement	81.00	21.70	10229.00
Total Reduction Requirement	621.00	166.30	78,424.00
Reduction Credits:			
BMPs Installed on Unregulated Lands	313.00	53.60	41804.00
BMPs Installed to Meet Redevelopment Requirements	1083.12	258.51	141429.11
BMPs Installed Prior to July 1, 2009	325.00	82.00	46146.00
BMPs Retrofitting Prior Developed Lands	3393.22	1020.25	645927.96
POC Reductions by Street Sweeping	22283.00	8913.00	2673922.00
Total Reduction Credits	27,397.34	10,327.36	3,549,229.08

Cumulative Progress Towards Compliance Targets Through June 2021

Little Creek Watershed & Chesapeake Bay Beaches

Description	Pollutant of Concern (POC)		
	(lb/yr)		
	TN	TP	TSS
Required POC Reductions:			
Baseline Requirement	129.80	29.40	11345.00
Additional 15% Requirement	19.50	4.40	1702.00
Total Reduction Requirement	149.30	33.80	13,047.00
Reduction Credits:			
BMPs Installed on Unregulated Lands	184.80	24.10	7991.00
BMPs Installed to Meet Redevelopment Requirements	397.77	96.15	23178.33
BMPs Installed Prior to July 1, 2009	1003.00	158.00	54491.00
BMPs Retrofitting Prior Developed Lands	179.91	58.79	44890.30
POC Reductions by Street Sweeping	4892.00	1957.00	586958.00
Total Reduction Credits	6,657.48	2,294.04	717,508.63

Control Measures Implemented During FY 21 Reporting Period											
Site Number	SWMF ID	Site Name	General Location	Zip	BMP Type	Online Date	HUC 6	Phosphorous Removed (lbs/yr)	Nitrogen Removed (lb/yr)	Sediment Removed (lbs/yr)	Retrofit Type (if applicable)
11-0073	111-0073.1	9 Lot Townhouse Subdivision	8210 Tidewater Drive	23518	Infiltration	9/10/2020	JL57	0.52	2.3	236.67	
12-0048	12-0048.1	Woodland Aveune Baptist Church	2736 Woodland Ave	23504	Infiltration	5/14/2021	JL54	0.16	0.65	66.98	
14-0053	14-0053.1	2800 Church Street	2800 CHURCH STREET	23504	Bioretention 2	7/30/2020	JL56	0.64	5.07	263.46	
15-0044	15-0044.1	Norfolk Academy Football Field	1585 WESLEYAN DRIVE	23502	Permeable Pavement 1	3/11/2021	JL54	2.92	20.82	1027.06	
15-0044	15-0044.2	Norfolk Academy Football Field	1585 WESLEYAN DRIVE	23502	Infiltration 1	3/11/2021	JL54	1.28	8.45	1027.06	
15-0052	15-0052.1	Norfolk Academy Leadership Center	1585 WESLEYAN DRIVE	23502	Bioretention- Urban	4/13/2021	JL54	0.26	2.18	102.706	
16-0013	16-0013.2	5th-7th Bay Redevelopment	2512 Pleasant Ave	23518	Infiltration 2	5/14/2021	CB26	2.07	14.61	443.152	
16-0013.3	16-0013.3	5th-7th Bay Redevelopment	2512 Pleasant Ave	23518	Infiltration 2	5/12/2021	CB26	1.69	11.98	437.543	
16-0013.4	16-0013.4	5th-7th Bay Redevelopment	2512 Pleasant Ave	23518	Infiltration 2	5/12/2021	CB26	1.33	9.41	339.376	
16-0013.5	16-0013.5	5th-7th Bay Redevelopment	2512 Pleasant Ave	23518	Infiltration 2	5/14/2021	CB26	0.69	4.86	185.114	
16-0013.6	16-0013.6	5th-7th Bay Redevelopment	2512 Pleasant Ave	23518	Manufactured Treatment Device	5/14/2021	CB26	0.46	6.16	355.916	
16-0031	16-0031.1	Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	23502	Bioretention- Urban	4/13/2021	JL54	0.2	1.69	84.844	
16-0031	16-0031.2	Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	23502	Rooftop or Impervious Surface Disconnect	4/13/2021	JL54	0.05	0.39	89.3095	
16-0031	16-0031.3	Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	23502	Bioretention 1	4/13/2021	JL54	0.42	3.53	214.343	
16-0031	16-0031.4	Norfolk Academy Lower School Addition	1585 WESLEYAN DRIVE	23502	Dry Swale 1	4/13/2021	JL54	0.17	1.31	102.706	
16-0033	16-0033.1	Norfolk Academy Refectory	1585 WESLEYAN DRIVE	23502	Rooftop or Impervious Surface Disconnect	4/13/2021	JL54	0.04	0.26	31.2583	
16-0034	16-0034.1	Grandy Village Phase VI	619 WILEY DRIVE	23504	Wet Pond	5/10/2021	JL54	5.14	33.32	3442.882	
16-0048	16-0048.1	Sunset Dr. at Chesapeake Blvd Drainage	1011 SUNSET DRIVE	23503	Manufactured Treatment Device	4/6/2021	CB26	0.81	10.18	588.8323	
16-0078	16-0078.1	Norfolk Academy STEAM Addition	1585 Wesleyan Drive	23502	Rooftop or Impervious Surface Disconnect	4/15/2021	JL54	0.01	0.1	8.93095	
16-0091	16-0091.4	814 Brennan Ave-5 lot subdivision	814 BRENNAN AVENUE	23502	Bioretention- Micro 1	6/16/2021	JL56	0.05	0.345821	35.72381	
16-0091	16-0091.5	814 Brennan Ave-5 lot subdivision	814 BRENNAN AVENUE	23502	Bioretention- Micro 1	6/16/2021	JL56	0.05	0.389048	40.18929	
17-0004	17-0004.1	LAKE TAYLOR	1380 KEMPSVILLE ROAD	23502	Wet Pond 2	8/1/2020	JL54	477.5	1719.14	63464.85	Retrofit of Existing BMP
17-0030	17-0030.1	Apple Retail Properties	6290 NORTHAMPTON BOULEVARD	23502	Wet Pond 1	12/17/2020	CB26	6.13	19.5	2062.222	
17-0044	17-0044.1	Sentara Leigh Cancer Center	6241 E VIRGINIA BEACH BOULEVARD	23502	Manufactured Treatment Device	1/13/2021	JL54	1.1	6.29	1045.814	
17-0044	17-0044.2	Sentara Leigh Cancer Center	6241 E VIRGINIA BEACH BOULEVARD	23502	Manufactured Treatment Device	1/13/2021	JL54	1.1	3.66	608.3223	
17-0053	17-0045.1	Norfolk Botanical Garden-NATO Tower Renovations	6700 Azalea Garden Road	23504	Permeable Pavement	5/11/2021	CB26	0.262823	0.85	141.6641	
17-0073	17-0073.1	ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	23502	Bioretention 1	2/18/2021	JL54	3.31	13.487	1393.229	
17-0073	17-0073.2	ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	23502	Wet Swale 1	2/18/2021	JL54	1.57	2.53392	420.8257	
17-0073	17-0073.3	ARTFX Building Addition	3801 E PRINCESS ANNE ROAD	23502	Bioretention 1	2/18/2021	JL54	1.68	13.98	660.891	
17-0076	17-0076.1	1009 W. Ocean View Duplex	1009 W OCEAN VIEW AVENUE	23502	Infiltration Practices	4/7/2021	JL57	0.05	0.61	26.79286	
17-0076	17-0076.2	1009 W. Ocean View Duplex	1009 W OCEAN VIEW AVENUE	23502	Infiltration Practices	4/7/2021	JL57	0.08	0.91	40.188929	
17-0090	17-0090.2	Moores Bridges WTP Chemical Feed System	6040 WATER WORKS ROAD	23502	Detention Basin	3/4/2021	CB26	3.86	22.63	1308.52	

Control Measures Implemented During FY 21 Reporting Period											
17-0090	17-0090.1	Moore's Bridges WTP Chemical Feed System	6040 WATER WORKS ROAD	23502	Manufactured Treatment Device	3/4/2021	CB26	1.08	22.63	1308.516	
18-0006	18-0006.1	EVMS Ed. & Admin. Bldg	315 COLLEY AVENUE	23510	Bioretention 1	4/8/2021	JL56	0.47	2.3334	241.1357	
18-0019	18-0019.1	Pinewell Station Apartments	719 E OCEAN VIEW AVENUE	23503	Manufactured Treatment Device	1/8/2021	CB26	1.23	0.73	416.108	
18-0019	18-0019.2	Pinewell Station Apartments	719 E OCEAN VIEW AVENUE	23503	Credit Purchase	1/8/2021	CB26	1.12	30.41	0	
18-0025	18-0025.1	9560 10th Bay St-Duplex	9560 10TH BAY STREET	23518	Infiltration 1	2/11/2021	CB26	0.11	0.54	19.6333	
18-0032	18-0032.2	Mt Gilead Church parking addition	1057 Kennedy Street	23513	Manufactured Treatment Device	5/3/2021	JL56	0.62	2	333.3273	
18-0032	18-0032.3	Mt Gilead Church parking addition	1057 Kennedy Street	23513	Manufactured Treatment Device	5/3/2021	JL56	0.62	2	333.3273	
18-0043	18-0043.1	Pretty Lake Apartments & Yacht Club	4521-4621 Pretty Lake Ave	23518	Credit Purchase	1/20/2021	CB26	1.02	10.24	0	
18-0048	18-0048.1	Colley Avenue Self Storage	2300 COLLEY AVENUE	23517	Infiltration Practices	8/6/2020	JL56	1.72	5.48	567.115	
18-0049	18-0049.2	Kempsville Behavioral Health Additions	860 KEMPSVILLE ROAD	23502	Detention Basin	1/7/2021	JL54	0.07	0.25	41.66591	
18-0049	18-0049.1	Kempsville Behavioral Health Additions	860 KEMPSVILLE ROAD	23502	Bioretention 2	1/7/2021	JL54	0.62	1.98	205.4119	
18-0064	18-0064.1	Lyon Shipyard Building Addition	1818 BROWN AVENUE	23501	Manufactured Treatment Device	9/9/2020	JL54	0.26	0.75	124.9977	
18-0073	18-0073.1	Parker Ave. Drainage Improvements	1455 38TH STREET	23508	Manufactured Treatment Device	5/13/2021	JL56	0.95	17.225	1119.978	
18-0093	18-0093.1	BAYLOR PARKING	118 W 26th Street	23517	Manufactured Treatment Device	5/14/2021	JL56	0.162332	0.526855	87.4978	
18-0101	18-0101.1	847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	23502	Compost Amendment	5/11/2021	JL54	0.46	2.58	357.2381	New SWM Retrofit
18-0101	18-0101.2	847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	23502	Other Retrofit- Runoff Reduction	5/11/2021	JL54	0.46	2.007	333.3273	New SWM Retrofit
18-0101	18-0101.4	847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	23502	Other Retrofit- Runoff Reduction	5/11/2021	JL54	0.46	2.58	333.3273	New SWM Retrofit
18-0101	18-0101.3	847-925 Ingleside Road Stormwater Retrofits	847-925 INGLESIDE ROAD	23502	Vegetated Filter Strip	5/11/2021	JL54	0.46	2.58	357.2381	New SWM Retrofit
19-0001	19-0001.1	Combined Operations Facility Improvements	1316 BALLENTINE BOULEVARD	23504	Manufactured Treatment Device	1/15/2021	JL56	0.19	0.03	12.4997	
19-0016	19-0016.1	Restaurant at Bay Point Marina	9500 30th Bay Street	23518	Manufactured BMP Systems	9/8/2020	CB26	0.8	3.48	201.5115	
19-0082	19-0082.1	Norfolk Fire Training Facility	115 Thole Street	23505	Credit Purchase	7/10/2020	JL56	0.32	1.62	0	
20-0018	20-0018.1	SHOREWOOD COVE- BUILDING ADDITION	295 Corporate Blvd	23502	Infiltration Practices	5/17/2021	JL56	0	0	0	
20-0026	20-0026.3	Frank Spicer Building Parking Lot	119 E Princess Anne Road	23510	Credit Purchase	11/17/2020	JL56	0.01	0.08	0	
20-0029	20-0029.1	Lake Taylor Middle sSchool- Parking Lot & Access Dr	1380 Kempsville Road	23502	Credit Purchase	9/10/2020	JL54	0.95	6.27	0	
20-0037	20-0037.1	1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	23502	Manufactured Treatment Device	6/8/2021	JL54	1.15	7.37	1224.978	
20-0037	20-0037.2	1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	23502	Manufactured Treatment Device	6/8/2021	JL54	0.32	3.96	658.3214	
20-0037	20-0037.3	1400 Sewells Point Rd- Site Improvement	1400 Sewells Point	23502	Manufactured Treatment Device	6/8/2021	JL54	2.24	7.3	1212.478	
20-0037	20-0037.4	1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	23502	Manufactured Treatment Device	6/8/2021	JL54	1.24	4.03	670.8212	
20-0037	20-0037.5	1400 Sewells Point Rd- Site Improvement	1400 Sewells Point Road	23502	Credit Purchase	7/20/2020	JL54	2.94	22.37	0	
20-0043	20-0043.1	Poplar Hall & Va Beach Blvd Sidewalk Improvments	Virginia Beach Blvd	23502	Credit Offset	9/1/2020	JL54	0	0	0	
20-0043	20-0043.2	Poplar Hall & Va Beach Blvd Sidewalk Improvments	Poplar Hall Drive	23502	Credit Offset	9/1/2020	JL54	0	0	0	
20-0059	20-0059.1	Green Clean	7442 Tidewater Drive	23505	Credit Purchase	1/27/2021	JL56	0.15	1.14	0	
20-0069	20-0069.2	1855 CHURCH STREET MIXED USE DEVELOPMENT	1855 Church Street	23504	Credit Purchase	4/12/2021	JL56	0.1	0.51	0	
20-0075	20-0075.2	VIRGINIA EYE CONSULTANTS	200 Corporate Blvd	23504	Credit Purchase	11/17/2020	JL54	1.74	17.47	0	

Control Measures Implemented During FY 21 Reporting Period											
20-0078	20-0078.1	OASIS WATERLINE	4521 and 4621 Pretty Lake Ave	23518	Credit Purchase	1/20/2021	CB26	0	0	0	
20-0084	20-0084.1	Building 7 Expansion at Colonna's Shipyard	400 E. Indian River Road	23523	Credit Purchase	2/16/2021	JL53	0.44	4.42	0	
20-0085	20-0085.1	9542 17th Bay Street Lots 13 & 14	2542 17th Bay Street	23518	Credit Purchase	4/7/2021	CB26	0.1	1	0	
21-0005	21-0005.1	THE FUSION MULTI-FAMILY DEVELOPMENT	225 W Olney Road	23510	Credit Purchase	5/19/2021	JL56	1.21	11.76	0	
21-0015	21-0015.5	1039 W 25th Street Warehouse	1039 W 25th Street	23517	Credit Purchase	6/18/2021	JL56	0.36	2.74	0	
21-0028	21-0028.1	Colonna's Shipyard Shafting Workshop	465 E. Indian River Road	23523	Credit Purchase	6/29/2021	JL54	0.35	1.69	0	
21-0029	21-0029.1	WEST 38TH STRTEET APARTMENTS CIVIL SITE	1045 38TH Street	23508	Credit Purchase	4/6/2021	JL56	0.2	1.01	0	
S72	S72.1	Continous Flow Intersection	1469 N MILITARY HIGHWAY	23502	Extended Detention Basin	12/15/2020	CB26	10.86	36.32788	6033.224	
								Total Phosphorus Removed (lbs/yr)	Total Nitrogen Removed (lbs/yr)	Total TSS Removed (lbs/yr)	
								553.17	2183.02	96491.05	

Control Measures Expected to be Implemented and Cumulative Progress Through FY22

Below are redevelopment and retrofits projects currently under construction which should reach completion by the end of FY22. Other small projects may start and complete in FY22, but cannot be estimated at this time. Assuming the projects below all complete construction, by end of FY22 Norfolk will have achieved 10,395 lbs/yr TP, 27,653 lbs/yr TN, and 3,582,747 lbs/yr TSS in the James River watershed. In the Little Creek and Chesapeake Bay Beaches watershed Norfolk will have achieved 2,302 lbs/yr TP, 6,714 lbs/yr TN, and 720,693 lbs/yr TSS. This cumulative progress far exceeds 1st permit cycle required reductions for all pollutants of concern in both river basins, but Norfolk continues to plan, implement and track projects and programs of all types towards required pollutant reduction targets.

Site ID	SWMF ID	Site Description	HUC	SWMF Type	TP Removal (lbs/yr)	TN Removal (lbs/yr)	TSS Removal (lbs/yr)
15-0047	15-0047.1	Gosnold Drainage Improvements	JL56	Manufactured Treatment Device	0.68	2.21	366.66
16-0091	16-0091.1	814 Brennan Ave-5 lot subdivision	JL56	Bioretention- Micro 1	0.05	0.26	26.79
16-0091	16-0091.2	814 Brennan Ave-5 lot subdivision	JL56	Bioretention- Micro 1	0.05	0.30	31.26
16-0091	16-0091.3	814 Brennan Ave-5 lot subdivision	JL56	Bioretention- Micro 1	0.05	0.30	31.26
16-0092	16-0092.1	Lindenwood Barraud Park Shoreline Restoration	JL56	Shoreline Management	4.96	21.79	2250.60
16-0092	16-0092.2	Lindenwood Barraud Park Shoreline Restoration	JL56	Shoreline Management	4.96	21.79	2250.60
16-0092	16-0092.3	Lindenwood Barraud Park Shoreline Restoration	JL56	Shoreline Management	4.96	21.79	2250.60
17-0008	17-0008.1	Pump Station 10 Service Area-Maryland Ave PS	JL56	Grass Channel	New Dev	New Dev	New Dev
17-0046	17-0046.1	Americana Townhomes	CB26	Wet Pond 1	1.05	3.34	413.49
17-0047	17-0047.1	Devonshire Avenue Sidewalk Improvements	JL56	Manufactured BMP Systems	New Dev	New Dev	New Dev
17-0047	17-0047.2	Devonshire Avenue Sidewalk Improvements	JL56	Manufactured BMP Systems	New Dev	New Dev	New Dev
17-0047	17-0047.3	Devonshire Avenue Sidewalk Improvements	JL56	Manufactured BMP Systems	New Dev	New Dev	New Dev
17-0048	17-0048.1	Johnstons Rd & SW Improvements	JL56	Manufactured BMP Systems	New Dev	New Dev	New Dev
17-0048	17-0048.2	Johnstons Rd & SW Improvements	JL56	Manufactured BMP Systems	New Dev	New Dev	New Dev
17-0051	17-0051.1	Norfolk Square Contractor's Office	JL54	Infiltration 2	0.40	1.77	183.08
17-0069	17-0069.1	Home 2 Suites	JL54	Manufactured Treatment Device	1.17	3.79	629.16
17-0094	17-0094.1	Norfolk Terminal L.P.	JL54	Manufactured Treatment Device	17.57	57.03	9470.66
18-0010	18-0010.1	VB Blvd Improvements at Newtown Rd	JL54	Manufactured Treatment Device	0.18	1.25	208.33
18-0010	18-0010.2	VB Blvd Improvements at Newtown Rd	JL54	Manufactured Treatment Device	0.09	0.63	104.16
18-0020	18-0020.1	829-831 Little Bay Ave Duplex	JL57	Detention Basin	0.05	0.18	29.17
18-0020	18-0020.2	829-831 Little Bay Ave Duplex	JL57	Infiltration 2	0.23	0.99	102.71
18-0028	18-0028.1	Osprey Watch	CB26	Wet Pond 1	New Dev	New Dev	New Dev
18-0043	18-0043.1	Pretty Lake Apartments & Yacht Club	CB26	Manufactured Treatment Device	Qty	Qty	Qty
18-0043	18-0043.2	Pretty Lake Apartments & Yacht Club	CB26	Manufactured Treatment Device	Qty	Qty	Qty
18-0043	18-0043.3	Pretty Lake Apartments & Yacht Club	CB26	Manufactured Treatment Device	Qty	Qty	Qty
18-0043	18-0043.4	Pretty Lake Apartments & Yacht Club	CB26	Manufactured Treatment Device	Qty	Qty	Qty

18-0043	18-0043.5	Pretty Lake Apartments & Yacht Club	CB26	Manufactured Treatment Device	Qty	Qty	Qty
18-0053	18-0053.1	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.11	0.21	30.85
18-0053	18-0053.10	The Tern Subdivision Plan	CB26	Infiltration 2	1.16	7.31	330.96
18-0053	18-0053.11	The Tern Subdivision Plan	CB26	Infiltration 2	0.23	1.79	64.51
18-0053	18-0053.12	The Tern Subdivision Plan	CB26	Infiltration 2	0.54	4.29	154.26
18-0053	18-0053.13	The Tern Subdivision Plan	CB26	Infiltration 2	0.26	2.03	72.92
18-0053	18-0053.2	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.14	0.21	39.27
18-0053	18-0053.3	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.16	0.21	44.88
18-0053	18-0053.4	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.27	0.21	75.73
18-0053	18-0053.5	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.12	0.21	33.66
18-0053	18-0053.6	The Tern Subdivision Plan	CB26	Bioretention- Micro 2	0.11	0.21	30.85
18-0053	18-0053.7	The Tern Subdivision Plan	CB26	Bioretention 2	0.14	0.21	39.27
18-0053	18-0053.8	The Tern Subdivision Plan	CB26	Infiltration 2	0.72	5.69	204.75
18-0053	18-0053.9	The Tern Subdivision Plan	CB26	Infiltration 2	0.88	6.94	249.62
18-0061	18-0061.1	River Tower at Harbor's Edge	JL54	Permeable Pavement 1	0.16	0.69	71.45
18-0061	18-0061.2	River Tower at Harbor's Edge	JL54	Permeable Pavement 1	0.09	0.39	40.19
18-0069	18-0069.1	Sentara Healthcare Orthopedic Site Plan	JL54	Manufactured Treatment Device	1.65	5.37	891.65
18-0069	18-0069.2	Sentara Healthcare Orthopedic Site Plan	JL54	Manufactured Treatment Device	1.78	5.77	958.32
18-0069	18-0069.3	Sentara Healthcare Orthopedic Site Plan	JL54	Manufactured Treatment Device	0.98	3.19	529.16
18-0087	18-0087.1	Southside Library	JL54	Bioretention 1	1.02	5.45	562.65
18-0087	18-0087.2	Southside Library	JL54	Bioretention 1	Qty	Qty	Qty
18-0095	18-0095.1	Christ & St Luke's Church-Outdoor Improvements	JL54	Permeable Pavement 1	0.13	0.56	58.05
18-0100	18-0100.1	SF DEMO & PARKING LOT	JL56	Permeable Pavement 1	0.06	0.26	26.79
18-0100	18-0100.2	SF DEMO & PARKING LOT	JL56	Permeable Pavement 1	0.06	0.26	26.79
18-0102	18-0102.1	Aspire at East Beach Senior Housing	CB26	Manufactured Treatment Device	0.66	7.65	442.28
19-0004	19-0004.1	Mil-Spec Abrasives	JL56	Wet Pond 1	4.72	15.33	2545.79
19-0004	19-0004.2	Mil-Spec Abrasives	JL56	Compost Amendment	0.18	1.82	187.55
19-0014	19-0014.1	HomeCo Industrial Renovation	JL54	Compost Amendment	0.83	3.85	397.43
19-0014	19-0014.2	HomeCo Industrial Renovation	JL54	Compost Amendment	0.02	0.12	58.05
19-0014	19-0014.3	HomeCo Industrial Renovation	JL54	Compost Amendment	0.49	3.50	388.50
19-0014	19-0014.4	HomeCo Industrial Renovation	JL54	Compost Amendment	0.18	1.26	272.39
19-0026	19-0026.1	Subdivision development plan 828 & 840 Redgate Ave	JL51	Bioretention- Micro 1	0.03	0.13	13.40
19-0026	19-0026.10	Subdivision development plan 828 & 840 Redgate Ave	JL52	Bioretention- Micro 1	0.03	0.13	13.40
19-0026	19-0026.11	Subdivision development plan 828 & 840 Redgate Ave	JL53	Bioretention- Micro 2	0.02	0.09	8.93
19-0026	19-0026.12	Subdivision development plan 828 & 840 Redgate Ave	JL54	Bioretention- Micro 1	0.01	0.04	4.47
19-0026	19-0026.13	Subdivision development plan 828 & 840 Redgate Ave	JL55	Bioretention- Micro 2	0.02	0.09	8.93
19-0026	19-0026.14	Subdivision development plan 828 & 840 Redgate Ave	JL56	Bioretention- Micro 2	0.02	0.09	8.93
19-0026	19-0026.2	Subdivision development plan 828 & 840 Redgate Ave	JL57	Bioretention- Micro 1	0.05	0.22	22.33
19-0026	19-0026.3	Subdivision development plan 828 & 840 Redgate Ave	JL58	Bioretention- Micro 2	0.02	0.09	8.93

19-0026	19-0026.4	Subdivision development plan 828 & 840 Redgate Ave	JL59	Bioretention- Micro 1	0.03	0.13	13.40
19-0026	19-0026.5	Subdivision development plan 828 & 840 Redgate Ave	JL60	Bioretention- Micro 2	0.02	0.09	8.93
19-0026	19-0026.6	Subdivision development plan 828 & 840 Redgate Ave	JL61	Bioretention- Micro 1	0.03	0.13	13.40
19-0026	19-0026.7	Subdivision development plan 828 & 840 Redgate Ave	JL62	Bioretention- Micro 2	0.02	0.09	8.93
19-0026	19-0026.8	Subdivision development plan 828 & 840 Redgate Ave	JL63	Bioretention- Micro 1	0.03	0.13	13.40
19-0026	19-0026.9	Subdivision development plan 828 & 840 Redgate Ave	JL64	Bioretention- Micro 2	0.02	0.09	8.93
19-0028	19-0028.1	CHKD Medical Tower II	JL56	Detention Basin	0.37	1.20	200.00
19-0028	19-0028.2	CHKD Medical Tower II	JL56	Bioretention 1	0.20	0.86	89.31
19-0036	19-0036.1	THE HAGUE SW TREATMENT CONSTRUCTED WETLAND	JL56	Stormwater Wetland	11.80	42.20	4398.49
19-0058	19-0058.1	Harbors edge parking lot	JL56	Permeable Pavement 1	0.08	0.43	44.65
19-0058	19-0058.2	Harbors edge parking lot	JL56	Permeable Pavement 1	0.15	0.65	66.98
19-0058	19-0058.3	Harbors edge parking lot	JL56	Permeable Pavement 1	0.10	0.73	75.91
19-0058	19-0058.4	Harbors edge parking lot	JL56	Permeable Pavement 1	0.09	0.48	49.12
19-0060	19-0060.1	Market Heights Apartment Complex	JL54	Permeable Pavement 1	1.37	6.01	620.70
19-0061	19-0061.1	The Lofts at Front Street	JL56	Permeable Pavement 1	0.02	0.09	8.93
19-0080	19-0080.1	4108 PRETTY LAKE AVENUE DUPLEX	CB26	Cisterns and Rain Barrels	New Dev	New Dev	New Dev
19-0080	19-0080.2	4108 PRETTY LAKE AVENUE DUPLEX	CB26	Cisterns and Rain Barrels	New Dev	New Dev	New Dev
19-0080	19-0080.3	4108 PRETTY LAKE AVENUE DUPLEX	CB26	Bioretention 1	New Dev	New Dev	New Dev
19-0080	19-0080.4	4108 PRETTY LAKE AVENUE DUPLEX	CB26	Bioretention 1	New Dev	New Dev	New Dev
19-0080	19-0080.5	4108 PRETTY LAKE AVENUE DUPLEX	CB26	Bioretention 1	New Dev	New Dev	New Dev
19-0082	19-0082.1	Norfolk Fire Training Facility	JL56	Compost Amendment	Qty	Qty	Qty
19-0086	19-0086.1	STUART SCHOOL APARTMENTS	JL56	Permeable Pavement	Qty	Qty	Qty
19-0091	19-0091.1	PABP APARTMENTS	JL54	Manufactured Treatment Device	0.49	1.61	266.66
19-0091	19-0091.2	PABP APARTMENTS	JL54	Manufactured Treatment Device	2.18	7.07	1174.98
19-0093	19-0093.1	ASPIRE AT EAST BEACH SENIOR HOUSING PHASE II	CB26	Manufactured Treatment Device	0.63	6.92	400.41
20-0003	20-0003.1	Trinity Presbyterian Church	JL56	Detention Basin	New Dev	New Dev	New Dev
20-0004	20-0004.1	EAST BEACH LIVING	CB26	Manufactured Treatment Device	1.65	9.64	557.43
20-0044	20-0044.1	Sewells Point Elementary	JL56	Manufactured Treatment Device	0.09	0.30	50.00
20-0049	20-0049.1	E. Water Street Open Space	JL54	Bioretention 1	0.13	0.73	75.91
20-0049	20-0049.2	E. Water Street Open Space	JL54	Bioretention 1	0.08	0.43	44.65
20-0049	20-0049.3	E. Water Street Open Space	JL54	Bioretention 1	0.30	1.82	187.55
20-0059	20-0059.1	Green Clean	JL56	Cisterns and Rain Barrels	0.10	0.43	44.65
20-0063	20-0063.1	Tabet Manufacturing	JL54	Cisterns and Rain Barrels	0.30	1.34	138.43
20-0073	20-0073.1	East Beach Phase 7-South Subdivision	CB26	Permeable Pavement	Qty	Qty	Qty
20-0075	20-0075.1	VIRGINIA EYE CONSULTANTS	JL54	Permeable Pavement 1	0.19	1.08	111.64
20-0075	20-0075.2	VIRGINIA EYE CONSULTANTS	JL54	Permeable Pavement 1	0.17	0.73	75.91
20-0075	20-0075.3	VIRGINIA EYE CONSULTANTS	JL54	Permeable Pavement 1	0.09	0.56	58.05
20-0075	20-0075.4	VIRGINIA EYE CONSULTANTS	JL54	Other Retrofit- Runoff Reduction	Qty	Qty	Qty
21-0029	21-0029.1	WEST 38TH STRTEET APARTMENTS CIVIL SITE PLANS	JL56	Manufactured Treatment Device	1.17	3.79	629.16

21-0030	21-0030.1	Woodlawn Mausoleum	JL54	Dry Swale 1	New Dev	New Dev	New Dev
21-0030	21-0030.2	Woodlawn Mausoleum	JL54	Credit Purchase	New Dev	New Dev	New Dev
19-0042	19-0042.1	AIM Technical School Parking Lot & SWM	CB26	Wet Pond 1	6.24	22.22	2643.203
19-0042	19-0042.2	AIM Technical School Parking Lot & SWM	CB26	Manufactured Treatment Device	0.56	2.26	130.85
19-0042	19-0042.3	AIM Technical School Parking Lot & SWM	CB26	Manufactured Treatment Device	0.56	1.22	70.66
19-0042	19-0042.4	AIM Technical School Parking Lot & SWM	CB26	Manufactured Treatment Device	0.56	5.43	314.04
New Dev= New Development Project w/out Extra Credit Generated				Total Expected FY22 Reductions	84.28	344.15	39861.67
Qty= Quantity Control Project w/out Adequate Information for Reduction Estimates					TP (lbs/yr)	TN (lbs/yr)	TSS (lbs/yr)

Elizabeth River Bacteria TMDL Implementation

July 2020 - June 2021

In FY21 the City of Norfolk continued implementation of a variety of actions to reduce bacterial impairments, as outlined in the City's Elizabeth River TMDL Action Plan. Although only portions of the Elizabeth River watershed have a bacterial TMDL in Norfolk, activities to reduce these pollutants are conducted city-wide. Implementation activities are broken into two broad categories: 1) Illicit Discharge Detection & Elimination and 2) Programmatic Activities and Monitoring. Information on implementation activity under each category in FY21 is included below.

Illicit Discharge Detection & Elimination Activities:

In FY21 the City of Norfolk continued an aggressive program of addressing and reducing illicit discharges to address both bacterial impairments and other pollutants of concern. Department of Utilities inspected 689,040 linear feet of sanitary sewer pipe to identify deficiencies likely to lead to overflows and addressed 47 sanitary sewer overflows. Department of Public Works staff visually inspected 9,691 stormwater system structures, including more than 50 under dry weather conditions, and addressed 49 illicit discharges in the stormwater system. Department of Public Works also inspected 12 high risk commercial/industrial facilities and continued its use of remote-operated camera for pipe inspection.

Programmatic and Monitoring Activities:

Norfolk continued its extensive education and outreach program in FY21; however, impacts of the COVID-19 pandemic continued and outreach events were limited with some in-person events only resuming late in the fiscal year. Creative public engagement strategies remained vital to the normally extensive education and outreach program throughout the year which consisted of: presentations to 4 "Sail Nauticus" after school camps, pet waste handouts and materials to 4 civic leagues for distribution, adoption and installation of 2 new pet waste stations, 2 HRUBS inserts sent to all Norfolk residents, 3 social media posts, 200 pet waste bag dispensers and information to Norfolk Animal Care Center for distribution with adoptions, and 7 other outreach events that touched directly on management of pet waste and wildlife to reduce bacteria pollution. 228 new households joined Norfolk's Bay Star Homes program in FY21, with 140 pledging to Scoop the Poop. People's interests still lie closer to home so we continued to focus on picking up after pets in their backyard or other places away from paved roads that can still have a negative impact on water quality.

In conjunction with the Hampton Roads Planning District Commission Stormwater Education Committee, Norfolk continued to raise awareness about the importance of scooping the poop and the harmful impacts of bacteria-laden waste on local water quality.

- **Paid Media.** The committee ran a one-week media campaign from June 7-13. The campaign used existing creative featuring a whimsical "poo-em" about cleaning up after your pet and the harmful impacts of pet waste on local water quality. The campaign included TV, video pre-roll, radio, static

and retargeted digital display ads, and social media. Throughout the year, pet waste and “scoop the poop” messages were also included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches. Pet waste messages were also featured in the Facebook branding campaign, increasing the number of users who see this content on Facebook and Instagram.

- **Outreach Materials.** The committee purchased 2,500 bottles of hand sanitizer with a scoop the poop message. The hand sanitizer included a carabiner to attach to a dog leash and was a sought-after item due to the coronavirus pandemic. The Scoop the Poop rack card was also rebranded during FY21 and 5,000 rack cards were purchased.
- **Public Relations.** The pet waste message was promoted in news releases, print articles, interviews with local radio and TV shows, and featured in the askHRgreen.org newsletter.
- **Social Media.** Social media is an important tool for sharing the “scoop the poop” message, and we utilized Facebook and Instagram in our outreach efforts. The public was encouraged to sign the scoop the poop pledge which resulted in 58 new pledges. Some who completed the pledge also included their pet’s name, a picture and their favorite place to walk. These pictures and details were used to extend the social media campaign through additional posts thanking residents who took the pledge and spotlighting their furry friends.

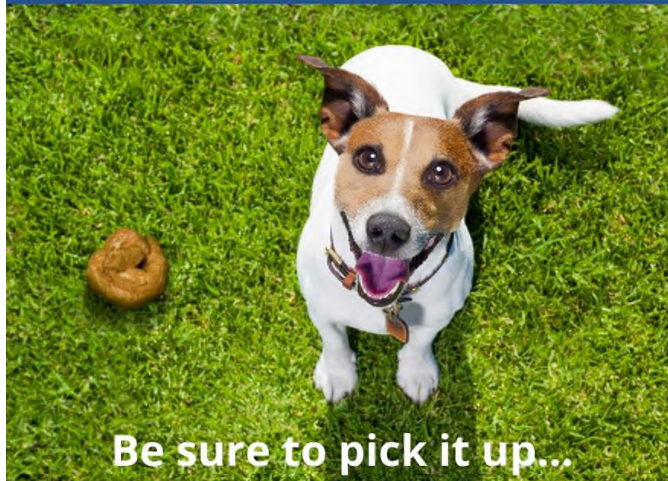
To address the issue of bacterial pollution from wildlife whose behavior is altered by human activity, such as Canada Geese who remain in the area all year round, the City and partners have continued to review and implement several options. Vegetated buffers are now required for all City-owned stormwater pond upgrades or shoreline restorations to discourage congregation of geese in these areas where they frequently feed. Efforts to enhance language in City code and policies to allow, promote, and/or require buffers on private properties are underway. Additionally, “Do Not Feed Geese, Ducks, and Other Wildlife” signs were placed around many City ponds, with more planned for installation in FY22, along with a social media outreach campaign.

In FY21, Norfolk continued its partnership with Hampton Roads Sanitation District, Virginia Department of Health, and other local governments to run the Hampton Roads Boater Pump Out and Education Program. The program works to educate boaters at local marinas and events about proper disposal of sanitary waste on vessels of all sizes. The program also offers pump outs of boats and marinas by appointment. In FY21 in Norfolk, the program provided education to 64 individuals or small groups, conducted 390 pump outs, and collected 4,773 gallons of sewage that may otherwise have found its way into local waters due to equipment failure or discharge. Numbers for direct outreach and education remained lower than past years due to the Covid-19 pandemic.

Norfolk continued partnership with Hampton Roads Sanitation District in FY21 on HRSD’s bacterial source tracking program, with focus on Broad Creek in the Eastern Branch of the Elizabeth. The study assessed wet and dry-weather flow from outfalls into Broad Creek. Results to date have identified one sanitary overflow during dry-weather, which was quickly resolved, and several weak wet-weather signals, which are under further investigation. The study generally suggests pet waste or wildlife may represent the majority of bacterial load in the watershed. Further analysis and refinement of techniques, such as improved quantification of canine fecal loads, continued through FY21.

Example Outreach Materials

Here's the Scoop on your dog's poop...



Be sure to pick it up...
even in your own backyard.

- Dog waste cannot be used as fertilizer.
- It takes 9 weeks for it to decompose and will damage your lawn.
- It can contain harmful bacteria & parasites.
- Rain washes poop from your backyard into the storm drains, which travels to our waterways, untreated.



Rule #1



Scoop #2

Pet waste is the leading source of pollution in the Chesapeake Bay.



Even if it's in your own backyard!



HOW TO —  **KEEP OUR WATERWAYS CLEAN**



Scoop the poop.
Pet waste contains nitrogen and bacteria, which is harmful to our waterways.

askHRgreen.org
#askHRgreen

GOOD TO KNOW 

 Did you know there are bacteria, viruses, and parasites in dog poop? Yuck!

POOP!

 **BAG IT!**

 **TRASH IT!**

 IF I COULD, I WOULD!

FOR A CLEANER, GREENER HAMPTON ROADS

askHRgreen.org    [askHRgreen](https://www.facebook.com/askHRgreen) [askHRgreen](https://www.instagram.com/askHRgreen) [askHRgreen](https://twitter.com/askHRgreen)

No one wants to find these treats in their yard



 **DON'T BE SCARED
JUST SCOOOP THE BOO, I MEAN POO**

Wildlife Management Signs

