CITY OF POQUOSON

500 CITY HALL AVENUE, POQUOSON, VIRGINIA 23662-1996
(757) 868-3000 TELEPHONE (757) 868-3101 FAX

Office of the City Manager
J. Randall Wheeler

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.

City Manager

9/26/2024
Date

VAR 040024 City of Poquoson, VA

Permit Number *MS4Name*

CITY OF POQUOSON
ENGINEERING
500 CITY HALL AVENUE,
POQUOSON, VIRGINIA 23662-1996
(757) 868-3025 (757) 868-3105 fax

October 1st, 2024

Grace Holmes
Tidewater MS4 Coordinator, Tidewater Regional Office
Virginia Department of Environmental Quality
5636 Southern Boulevard, Virginia Beach, VA 23462
Grace.Holmes@deq.virginia.gov

David Taylor
Water Permit Writer- MS4 Permit
Virginia Department of Environmental Quality
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RE: City of Poquoson Permit Year 1 Annual Report for VAR040024

Transmitted via email

The following general information is provided in accordance with Permit Section II.E.3 Annual Report requirements:

Part 1.

D.3. Background Information

a. Name of system, Permittee and State Permit Number: City of Poquoson MS4, Poquoson, Virginia; VAR 040024
b. Reporting Period: Permit year 1 (fiscal year 2024): July 1, 2023-June 30, 2024. Activities planned to meet PY1 requirements and scheduled after FY 2024 are described in individual MCM descriptions and will be covered in the PY2 annual report.
c. A signed certification is attached.

d. Each annual reporting item as specified in an MCM in Part I E is provided in the attached status of compliance spreadsheets, with supplemental data provided in the Appendix.
e. An evaluation of program effectiveness is provided in the attached status of compliance spreadsheets.

D.4. Requirements for permittees receiving initial coverage: N/A.

D.5. Status Report on the Implementation of Other TMDLs: Status report information on the development of Bacterial TMDL action plans in accordance with permit requirements is provided in the attached Status of Compliance spreadsheets and in the Appendix. At this time the city is implementing measures to reduce bacterial contamination of its waterways. The Action Plan will be developed and submitted to DEQ by the permit deadline. As required, additional measures will be implemented in accordance with the permit and action plan.

D.6. Separate Submittal of Annual Report, Program plan, TMDL Action plan, and TMDL implementation status report: In accordance with the permit, these documents are submitted separately. Please be advised that no citizen input was received on last year's program plan. The public is invited to comment on the program plan and annual report year-round.

C. 1. General Information Related to the Program Plan:

a. Roles and Responsibilities are found in the Status of Compliance Spreadsheets and in the Program Plan.
b. Use of another Entity: The City of Poquoson has entered into a regional memorandum of agreement with other localities and the Hampton Roads Planning District Commission to participate in a regional stormwater program. The MOA and the annual status report on regional cooperative efforts are found in the Appendix. The City of Poquoson relies on the Hampton Roads Planning District Commission Regional Stormwater Program to satisfy or partially satisfy various educational and training requirements. Details are provided in the associated MOA, Summary of Regional Stormwater Activities, and Regional Stormwater Education program (HRgreen) annual report. In addition, the City of Poquoson is a member of and relies on VPPSA for household hazardous waste collection events.
c. Included information required by I.P.C.C. is found on the Program Plan and Status of Compliance spreadsheets.
d. List of documents: References are incorporated into the Status of Compliance spreadsheets and the Program Plan.

C.2. Initial coverage: N/A.

C.3. The Program Plan is attached and posted on the city website.

C.4. Revisions to the Program Plan: Minor revisions were made in order more clearly define

roles and responsibilities.

C.5. Documentation of regulatory program approval is provided in the Status of Compliance spreadsheets and Appendix.

C.6. Reliance on another entity to satisfy a minimum control measure: See information provided under Club. Poquoson does not rely on another entity to satisfy all parts of any minimum control measure.

C.7. Reliance on another governmental entity regulated under 9VAC25-870-380: Poquoson only relies on a regional program operated by the Hampton Roads District Planning Commission and participated in by other regional local governments. See Club.

In accordance with Part I.E.,3. e, confirm that no additional outfalls were added to the MS4 after the City's submittal of the outfall map and table in June 2019. Therefore, no updates to these documents were made or required.

The City of Poquoson is constantly engaging its citizens on good clean water practices and how to implement our action items.

Our staffing has remained the same for the reported FY. Laura Nusz acts as DEQ's point of contact for the stormwater construction permit and Chesapeake Bay Preservation Act programs. Laura's contact information is:

Laura Nusz, Environmental Compliance Officer
Laura.Nusz@poquoson-va.gov
(757)868-3040

The city would like to give its many thanks to DEQ for providing and assisting our staff in the permit process. We acknowledge the mutual goals in providing and meeting the standards set forth, and look forward to a lasting good relationship with DEQ.

Sean R. Crawford, P.E.
City Engineer

Cc:
file

Attachments: Annual Report

Notes on Report Layout and Contents

"PY" or "Permit Year" refers to the actual permit year.

"FY" or "Fiscal Year" refers to the reporting period. This report covers FY 24, or July 1, 2023-June 30,2024.

Each BMP is covered in its own Appendix section.

Based on past communications with DEQ and in the interest of brevity, "typical" reporting forms rather than every form generated in the reporting period are provided. For example, instead of providing every monthly dry weather inspection or every monthly Public Works Yard SWPPP inspection form, typical forms are provided. The city retains all forms.

Status of Compliance

Spreadsheets describing actions and status, supplemented by Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
		Program Plan Requirements						
	I.C.1.	Roles and responsibilities	Identify the roles and responsibilities for each department, division, and subdivision in implementing the permit, also include the written agreement for any other entities implementing parts of the Program Plan	List of roles and responsibilities, written agreement	Poquoson Engineering Department	As needed	List of roles and responsibilities; Written agreement(s)	Compliant. The roles and responsibilities are shown in the status of the Program Plan. Agreements are attached in the Appendix
1. Public Outreach and Education								
1.1		Update Public Education and Outreach Program						
1.1a	I.E.1.a.(1) I.E.1.f.(1)	Design a plan to educate citizens on actions they can take to reduce impacts of stormwater pollution on waterways with an emphasis on impaired waters by first identifying no fewer than 3 high-priority water quality issues	Identify at least 3 high priority water quality issues	Issues identified	**askHRgreen.org** Stormwater Education Subcommittee	PY1	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1b	I.E.1.f(2)	Rationale for selecting each of the 3 issues	Explain the importance of each issue	Rationale identified	**askHRgreen.org** Stormwater Education Subcommittee	PY1	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1c	I.E.1.f(3)	Target individuals or groups most likely to have significant stormwater impacts	Identify the audience for each issue	Audience identified	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1d	I.E.a.(2)	Increase public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including legal implications	Communicate hazards	Document communications	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.1e	I.E.d	Strategies listed in Table 1 of permit	Identify two or more strategies to address each issue	Strategies identified	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1f	I.E.1.f.(8)	Schedule for communicating messaging	Document the anticipated time periods the messages will be communicated or made available to the public	Time periods documented	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1g	I.E.1.c.(4)	Provide a contact and telephone number, website, or location where the public can find out more information.	Provide Contact Information	Information Provided	Poquoson Engineering Department	Continuously	**Locality website: https://www.ci.poquoson.va.us/278/Stormwater-Quality**	Compliant. The contact info is available at the locality website listed.
1.2	I.E.d	Regional Media Campaign to Address High Priority Issues						
1.2a		*Scoop the Poop* campaign	Make *Scoop the Poop* information and giveaways available where citizens receive animal licenses and at pet-related events as	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2b		Promote Lawn Care campaign	Run media campaigns and make lawn care best management practice guides available.	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.2c		Promote FOG campaign	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2d		Promote Proper Disposal of Used Oil, Batteries, and Household Hazardous Waste	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2e		Promote Proper Disposal of Cigarette Butts	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.3		Provide for Public Participation						
1.3a		Local Outreach	Post volunteer opportunities on local website.	Number and types of events	**askHRgreen.org** Representative	Annually	https://www.ci.poquoson.va.us/	Compliant. The City posts volunteer opportunities on the City website and holds multiple volunteer events each year.
1.3b		Initiatives	Submit articles for **askHRgreen.org** blog or on locality website or social media for public participation in water quality improvement initiatives.	Number and types of events submitted	**askHRgreen.org** Representative	Annually	Public Participation Spreadsheet	Compliant. The City advertised numerous water quality events. Public Participation Spreadsheet is included in Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.3c		Outreach	Post volunteer opportunities on **askHRgreen.org** calendar or on locality website	Number and types of events submitted	**askHRgreen.org** Representative & HRPDC Environmental Educator	Quarterly	Public Participation Spreadsheet	Compliant. Public Participation Spreadsheet contains info on each City event. The main event for the City is the Poquoson Seafood Festival
1.3d		Distribute educational materials developed through **askHRgreen.org**	Distribute materials developed through **askHRgreen.org** to target audience in locality.	Number of materials distributed	**askHRgreen.org** Representative	Continuously	List of Promotional Items	Compliant. List of promotional items given out is available in the Appendix. Numbers were not tracked, but over 50 of each item were given away.
1.3e		Maintain and enhance **askHRgreen.org** website	Increase website visits each year	Annual askHRgreen.org website visits	HRPDC & **askHRgreen.org**	Permit Cycle	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.4	I.E.d	Participate in regional committees: **askHRgreen.org and** Regional Stormwater Workgroup		Maintain valid MOA	HRPDC	Every 10 years	MOA	Compliant. MOA was renewed in 2023 and is available in the Appendix.
1.4a		Regional Cooperation	Participate in regional programs, including the Regional Stormwater Workgroup and **askHRgreen.org**	Number of meetings attended/Number of meetings held	Poquoson Engineering Department	Annually	Attendance chart	Compliant. Attended 55% of meetings. See attendance chart in Appendix.
1.4b		***askHRgreen.org***	Participate in at least 50% of **askHRgreen.org** Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	Poquoson Engineering Department	Annually	Attendance chart	Compliant. Attended 50% of meetings. See attendance chart in Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.5		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. The City held its main education event in the Poquoson Seafood Festival and increased public involvement in other areas.

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

2. Public Involvement/Participation								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
2.1		Public Involvement						
2.1a	I.E.2.a.(1)	Develop and implement procedures for public to report illicit discharges, spills, and other environmental concerns	Implement procedures	Procedures	Poquoson Engineering Department	PY1	Annual report, Illicit Discharge	Compliant. Procedures were developed in PY1 of the previous permit cycle and were revised in PY1 of the current permit cycle. The public can contact the City using the information on the City's Stormwater Quality website. SOP is included in Appendix.
2.1b	I.E.2.a.(2-4)	Establish methods to receive, respond to, and document public input on the MS4 program	Establish methods	Methods and documentation	Poquoson Engineering Department	PY1	Annual report	Compliant. Instructions on how to comment on the MS4 program are shown on the City's Stormwater Quality website. To date, no comments have been received.
2.1c	I.E.2.h.(1-2)	Update the dedicated webpage for the MS4 program that includes: 1) the MS4 permit and coverage letter, 2) Program Plan, 3) annual reports, 4) a way to report illicit discharges, and 5) methods for how the public can provide input on the Program Plan	Establish a dedicated MS4 webpage	Presence of materials on dedicated MS4 webpage	Poquoson Engineering Department	Before 2/1/24	Annual report	Compliant. See https://www.ci.poquoson.va.us/278/Stormwater-Quality
2.2		Public Participation						

2. Public Involvement/Participation								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
2.2a	I.E.2.c	Offer a minimum of four local activities per year from two or more categories in Table 2	Schedule Events	Activities offered	Poquoson Engineering Department	Annually	Public Participation Spreadsheet	Compliant. See BMP 1.3 in the Appendix.
2.2b	I.E.2.h.(3)	Identify a metric for each public participation activity	Identify metrics	Examples include the weight of debris collected or number of participants	Poquoson Engineering Department	Annually	Planned Public Participation Activities Spreadsheet	Compliant. Spreadsheet is located in the Appendix.
2.2c	I.E.2.h.(3)	Schedule of public participation activities	Document the anticipated time periods the activities will occur	Time periods documented	Poquoson Engineering Department	Annually	Planned Public Participation Activities Spreadsheet	Compliant. Spreadsheet is located in the Appendix.
2.3		Evaluation and Assessment	Evaluate and assess whether the activities are beneficial to improving water quality.		Poquoson Engineering Department	Annually	Annual report	Compliant. Permit requirements were met. The City is providing more than the required number of events.

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.1		Storm Sewer System Map						
3.1a	I.3.a.(1) I.E.3.d.(1)	Update MS4 service area map using the 2000 CUA, 2010 CUA, and the 2020 census urban areas with a population of at least 50,000	Maintain and update mapping	Updated Map	Poquoson Engineering Department	Before 11/1/2025	Service area map	Compliant. Poquoson has contracted a consultant to update the MS4 service area map and will meet the 11/1/2025 deadline. Current map is included in Appendix.
3.1b	I.E.a.(2) I.E.3.d.(1)	MS4 outfall or point of discharge information table	Maintain and update table	Updated Table	Poquoson Engineering Department	Annually	Information Table	Compliant. No new outfalls this year. Table is included in the Appendix.
3.1c	I.E.3.a.(3)	Provide to DEQ an updated GIS-compatible shapefile of the MS4 map	Provide file	Provide to DEQ	Poquoson Engineering Department	No later than 11/1/2025	Shapefile	Compliant. Poquoson has contracted a consultant to create an updated GIS shapefile and will meet the 11/1/2025 deadline.

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.1d	I.E.3.a.(5)	New outfalls or recently approved TMDLs	Update map and table	Updated map and table	Poquoson Engineering Department	No later than Oct 1 each year, incorporate updates through June 30	Map and information table	Compliant. No new outfalls or recently approved TMDLs in PY1.
3.1e	I.E.3.a.(6)	Provide written notification to downstream MS4s	Identify and notify, in writing, any downstream adjacent MS4 of any known physical interconnection established or discovered after permit effective date.	Develop map, written notifications	Poquoson Engineering Department	Annually	Written notifications	Compliant. Poquoson is downstream of all other MS4s. VDOT owns the only upstream MS4. The City has not been contacted by VDOT.
3.1f	I.E.3.b	Prohibit illicit discharges through ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	Poquoson Engineering Department	As necessary	City Code Section 34-86.	Compliant. Relevant City code section included in Appendix.
3.2		IDDE program implementation						
3.2a	I.E.3.c	Maintain and implement written procedures for IDDE	Implement written IDDE procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See BMP 2.1 in the Appendix. FD procedure also included in Appendix.
3.2b	I.E.3.c.(6)	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	Poquoson Engineering Department	Ongoing	List of Activities	Compliant. See Appendix for summary spreadsheet.
3.3		Dry Weather Screening (DWS)						

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.3a	I.E.3.c.(2)	Maintain and implement dry weather screening protocol	Implement written dry weather field screening methodologies for IDDE.	Protocol	Poquoson Engineering Department	Continuously	DWS Protocol	Compliant. See dry weather screening SOP in Appendix.
3.3b	I.E.3.c(2)(a)	Develop a prioritized schedule for field screening and the rationale for the prioritization	Implement the schedule and document the rationale	Schedule	Poquoson Engineering Department	Annually	DWS Protocol	Compliant. FY 2025 plan is included in the Appendix.
3.3c	I.E.3.c(2)(b-e)	Field testing	Perform dry weather screening of a minimum of 50 outfalls or observation points (or all if less than 50 outfalls in MS4)	Documentation of screening performed	Poquoson Engineering Department	Annually	Field sheets	Compliant. Summary sheet included in Appendix. City inspected 91 outfalls and over 90,000 linear feet of outfall ditching.
3.3d	I.E.3.c(2)(g)	Tracking field testing	Track the outfall or observation point unique identifier, time since last precipitation event, estimated quantity of the last precipitation event, site description, observed indicators, whether a discharge was observed and if so, rate of discharge, and visual characteristics	Documentation of screening results	Poquoson Engineering Department	For each DWS event	Field checklists	Compliant. Example field checklist attached.

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.4		Spill reporting						
3.4a	I.E.3.e.(3)	Track spills reaching the MS4	Report spills to the DEQ's Pollution Response Program (PREP), if applicable	Number of internal reports. If applicable, obtain PREP number.	Poquoson Engineering Department	Continuously	Internal Summary Report	Compliant. See Summary sheet and FD example forms in Appendix.
3.4b	I.E.3.e.(3)	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities Superintendent.	Continuously	List from SSORS	Compliant. No SSOs occurred in PY1.
3.5		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. The City exceeded dry weather screening requirements. Illicit discharges this year were all boat related and took place at marinas. Staff from the Engineering Department, Community Development, and the Fire Department coordinate on these

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.1		Legal Authorities						
4.1a	I.E.4.a.(2)	Construction projects	Implement the VESCP program	E&SC Ordinance citation	Poquoson Engineering Department	Continuously	Ordinance	Compliant. New ordinance adopting the combined VESMP regulations was approved by City Council on 6/10/2024. VESMP ordinance: https://library.municode.com/va/poquoson/codes/code_of_ordinances?nodeId=PTIICOOR_CH34EN_ARTIIIERSECO
4.1b	I.E.4.d.(4)	A description of legal authorities to ensure compliance	Legal authorities such as ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Legal authorities	Poquoson Engineering Department	Continuously	Description of ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Compliant. The City has adopted an updated VESMP ordinance which contains it's legal authorities. All agreement in lieu of and land disturbance permits state that contractors will follow ordinance or face enforcement action.
4.2		Compliance and Enforcement						
4.2a	I.E.4.d.(5)	Written E&SC inspection procedures	Implement inspection procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See Appendix for SOPs.

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.2b	I.E.4.d.(7)	Written E&SC procedures for requiring compliance through corrective action or enforcement action	Implement corrective or enforcement action procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See Appendix for SOPs.
4.2c	I.E.4.d.(9)	Roles and responsibilities of each department, division, or subdivision in implementing the E&SC program	Documentation or roles and responsibilities	Documentation	Poquoson Engineering Department	Continuously	Annual Report	Compliant. See Appendix for SOPs.
4.2d	I.E.4.e.(1)	E&SC inspections	Continue to implement construction site BMP inspection provisions of the local E&SC Ordinance	# of inspections	Poquoson Engineering Department	Annually	Summary from Locality tracking system	Compliant. Approximately 1,521 inspections were completed over the last fiscal year. The total permitted disturbed area within the City for FY24 was approximately 100 acres. The majority of disturbed area was from the City's 10 active Construction General Permits (CGP) for large residential subdivision and commercial projects.
4.2e	I.E.4.e.(2)	E&SC enforcement actions	Continue to implement enforcement provisions per local E&SC Ordinance	# enforcement actions	Poquoson Engineering Department	Annually	Summary from Locality tracking system	Compliant. 18 Notice of Repairs/Violation. No Stop Work Orders were issued this PY. Most issues were worked out onsite by talking with contractors.

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.3		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual Report	Compliant. Staff continues to inspect development and enforce compliance with ESC/SWM laws. Large developments are currently under construction and will continue through PY2.

5. Post Construction Storm Water Management in New Development and Redevelopment								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
5.1		Post Construction SW Management Program						
5.1a	I.E.5.a.(1)	Local VSMP	Implement the approved VSMP	Approved VSMP	VSMP Authority Administrator	Ongoing	Approval letter issued by DEQ	Compliant. See letter in Appendix.
5.2		Legal authorities						
5.2a	I.E.5.a.(1)	Stormwater Management Ordinance	Implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment	Stormwater Management Ordinance	Poquoson Engineering Department	Ongoing	SWM Ordinance	Compliant. Ordinance located at: https://library.municode.com/va/poquoson/codes/code_of_ordinances?nodeId=PTIICOOR_CH34EN_ARTIIIERSECO
5.2.b	I.E.5.d.(3)	A description of legal authorities to ensure compliance	Legal authorities such as ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Legal authorities	Poquoson Engineering Department	Continuously	Description of ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Compliant. City requires as-builts of all post construction SWM facilities, requires a maintenance agreement between the City and property owner, requires that all SWM facilities are inspected by a qualified professional and submitted to the City once every 5 years. Maintenance agreements allow City to conduct work on SWM facilities not being properly maintained and charge property owners for work.

5.3		Inspection & Maintenance Program for BMPs						
5.3a	I.E.5.b.(1)	Inspection and maintenance procedures for managing permittee-owned BMPs	Develop and maintain written inspection and maintenance procedures	Procedures developed	Poquoson Engineering Department	Before May 1, 2024	Procedures and template documents used during inspection and maintenance	Compliant. The City is responsible for the maintenance of 6 BMPs. 5 of these are wet ponds, while 1 is constructed wetlands. Included in the Appendix are inspection and maintenance procedures for both types of BMPs.
5.3b	I.E.5.b.(2)	Employees and contractors implementing the VSMP must have appropriate certifications	Require certifications for staff and contractors implementing the SW program	# and type of certifed staff and contractors, as applicable	Poquoson Engineering Department	Ongoing	List of those with Certificates	Compliant. Four certifications attached. City is currently without a SWM program administrator, but will have one by the end of PY2.
5.3c	I.E.5.b.(3)	Inspect permittee-owned BMPs	Inspect permittee-owned BMPs at least annually (or have an approved alternative schedule)	# of inspections	Poquoson Engineering Department	Annually	Inspection records	Compliant. All permitee-owned BMPs were inspected in FY24. Inspection forms are included in the Appendix.
5.3d	I.E.5.b.(4)	Maintain permitee-owned BMPs	Maintain, repair, or retrofit permitee-owned BMPs to ensure they continue to function as designed	Maintenance activities performed	Poquoson Engineering Department	Ongoing	Description of significant maintenance activities	Compliant. Slopes were stabilized and sediment was removed from forebay of City Hall wet pond. Other BMPs will be worked on in FY25.

5.3e	I.E.5.d.(1)(c)	Inspection and enforcement procedures for managing privately-owned BMPs	Develop and maintain written inspection and maintenance procedures	Procedures developed	Poquoson Engineering Department	Before May 1, 2024	Procedures and template documents used during inspection and maintenance	Compliant. Procedures included in Appendix.
5.3f	I.E.5.c.(1)	Inspection and enforcement program for privately-owned BMPs	Implement program, inspect privately owned BMPs at least once every 5 years	# of inspections; # of enforcement activities	Poquoson Engineering Department	Ongoing	Inspection records	Compliant. 13 inspections were conducted of privately owned BMPs in FY24. With 1 being done by City employees, and 12 being submitted by the private BMP owners. 6 BMPs are currently overdue and the City is actively sending out letters warning of enforcement action if reports are not submittted. Example reports and City letters are included in the Appendix.
5.3g	I.E.5.c.(2)	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance	# of Agreements & Inspection Schedules	Poquoson Engineering Department	Ongoing	List of Maintenance Agreements	Compliant. The City has 34 maintenance agreements with private owners. List of all BMPs with maintenance agreements is included in apprendix.
5.3h	I.E.5.c.(3)	**Optional** - Develop and implement a progessive compliance and enforcement strategy	Develop and implement strategy	Strategy	Poquoson Engineering Department	Ongoing	Written Strategy	Given we have not had widespread issues with compliance, we do not see implementing this type of program as necessary.

5.3i	I.E.5.c.(4)	**Optional** - May use inspection reports provided by a private BMP owner as part of the BMP inspection program	Track inspection reports from private BMP owner	# of inspections	Poquoson Engineering Department	Ongoing	Inspection records	The City does use inspection reports provided by the private BMP owner for the majority of private BMPs. See examples from section 5.3f.
5.4		Tracking and Reporting						
5.4a	I.E.5.e.(4)	Report Construction BMPs	Report BMPs installed to control post-construction runoff through the DEQ Construction SW database	Confirmation statement	Poquoson Engineering Department	Ongoing	Confirmation statement	Compliant. New Wet Pond was submitted to the BMP Warehouse.
5.4b	I.E.5.e.(5)	Report other BMPs	Report any BMPs not included in the Construction SW database implemented between July 1 - June 30 in the DEQ BMP Warehouse	Confirmation statement	Poquoson Engineering Department	Annually	Confirmation statement	Compliant. No new BMPs added in FY24.
5.4c	I.E.5.e.(6)	Report BMP inspections	Report any BMP inspections completed between July 1 - June 30 in the DEQ BMP Warehouse	Confirmation statement	Poquoson Engineering Department	Annually	Confirmation statement	Compliant. Sumbitted updated inspection reports.
5.5		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual Report	Compliant. The City is currently only missing inspection reports from six owners and is in the process of obtaining them. The City has sent out letters and is following the procedures for enforcement. We anticipate a few new BMPs being added in PY2, given current construction.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1		SOPs - Operations and Maintenance Activities						
6.1a	I.E.6.a I.E.6.x.(1)	Pollution prevention procedures at permittee-owned facilities	Maintain and implement SOPs to: 1) prevent illicit discharges, 2) ensure proper disposal of waste materials, 3) prevent discharge fo unauthorized wastewater or wash water, and 4) minimize the pollutants in runoff.	BMPs Used to Prevent Pollutant Discharges	Poquoson Engineering Department	Continuously	List of SOPs to comply with MCM 6	Compliant. SOPs are provided in SWPPP plan available on website at https://www.ci.poquoson.va.us/
6.1b	I.E.6.b.(1)	Good housekeeping procedures for road, street, sidewalk, and parking lot maintenance and cleaning	Update and implement an SOP for BMPs for anti-icing and deicing agent application, transport, and storage that prohibits the agents from containing any forms of N or P.	Anti-icing and Deicing BMPs	Poquoson Engineering Department	Before Nov. 1, 2025	Anti-icing and Deicing SOP	Compliant. Will create SOP in FY25.
6.1c	I.E.6.b.(2)	Good housekeeping procedures for renovation or significant exterior maintenance activities	Develop and implement an SOP for renovation and significant exterior maintenance activities not covered under a separate CGP	Renovation and Building Maintenance BMPs	Poquoson Engineering Department	Before Nov. 1, 2026	Renovation and Building Maintenance SOP	Compliant. Will create SOP in FY26.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1d	I.E.6.b.(3)	Good housekeeping procedures for discharging water pumped from construction and maintenance activities	Develop and implement an SOP for discharging water pumped from construction and maintenance activities not coverer under a separate CGP	Discharging Pumped Water BMPs	Poquoson Engineering Department	Continuously	Discharging Pumped Water SOP	Compliant. See Dewatering SOP in Appendix.
6.1e	I.E.6.b.(4)	Good housekeeping procedures for temporary storage of landscaping materials	Develop and implement an SOP for the temporary storage of landscaping materials	Temporary Storage of Landscaping Materials BMPs	Poquoson Engineering Department	Continuously	Temporary Storage of Landscaping Materials SOP	Compliant. See Landscaping Materials SOP in Appendix.
6.1f	I.E.6.b.(5)	Good housekeeping procedures for maintenance of permittee owned or operated vehicles and equipment	Develop and implement an SOP for preventing discharges from leaking permittee vehicles and equipment	Prevent Discharges from Leaking Equipment BMPs	Poquoson Engineering Department	Continuously	Prevent Discharges from Leaking Equipment SOP	Compliant. See Wastewater-Vehicle Washwater SOP in Appendix.
6.1g	I.E.6.b.(6)	Good housekeeping procedures for application of materials	Develop and implement an SOP for the application of pesticides and herbicides that do not exceed the manufacturer's recommendations	Pesticide and Herbicide BMPs	Poquoson Engineering Department	Continuously	Pesticide and Herbicide SOP	Compliant. See Pesticides, Herbicides, & Fertilizer SOP in Appendix.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1h	I.E.6.b.(7)	Good housekeeping procedures for the application of fertilizer	Develop and implement an SOP for fetilizer application that follows the NMP or if not applicable, does not exceed the manufacturer's recommendations	Fertilizer BMPs	Poquoson Engineering Department	Continuously	Fertilizer SOP	Compliant. See Pesticides, Herbicides, & Fertilizer SOP in Appendix.
6.1.i	I.E.6.y.(1)	Good housekeeping procedures	Develop a summary of SOPs developed or modified during the reporting period	SOPs developed or modified	Poquoson Engineering Department	Annually	Summary of SOPs developed or modified	Compliant. Pesticides, Herbicides, & Fertilizer SOP was developed this PY. Other SOPs were developed in previous permit cycle. Other future SOPs are being developed.
6.2		Contractors						
6.2a	I.E.6.c I.E.6.x.(4)	Contractors minimize the discharge of pollutants	Provide contract language, training, SOPs, etc. to contractors to use appropriate control measures to minimize the discharge of pollutants to the MS4	Contract language, SOPs, etc.	Poquoson Engineering Department	Continuously	Summary of mechanisms, such as contract language, SOPs, etc.	Compliant. Contractors are required to follow SOPs and are supervised by Public Works staff to ensure compliance. See SWPPP located on City website at https://www.ci.poquoson.va.us/278/Stormwater-Quality

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.3		Employee Education & Training						
6.3a	I.E.6.d I.E.6.x.(5)	Written training plan	Maintain and implement a training plan for applicable staff	Training Plan	Poquoson Engineering Department	Continuously	Training Plan	Compliant. Training plan is in the Appendix.
6.3b	I.E.6.d.(1)	IDDE Training for field personnel	Provide training to field personnel in the recognition and reporting of illicit discharges	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3c	I.E.6.d.(2)	Road, street, sidewalk, and parking lot maintenance staff training	Provide training to Streets & Landscape Divisions for road, street, sidewalk, and parking lot maintenance	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3d	I.E.6.d.(3)	Good housekeeping at municipal yards	Provide training on good housekeeping and pollution prevention practices to employees working in and around maintenance, public works, or rec facilities	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3e	I.E.6.d.(4)	SWPPP procedures	Provide training on site-specific SWPPP procedures to staff who work in and around those facilities with SWPPPs	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training to be held June 2025.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.3f	I.E.6.d.(5)	Emergency Response employee training	Document spill management training for emergency responders	Certifications obtained	Haz-Mat officer	Annually	Certifications, Document in training plan	Compliant. See Spreadsheet in Appendix.
6.3g	I.E.6.d.(6)	Pesticides & herbicide certifications	Maintain certifications and training for pesticide and herbicide applicators in accordance with Virginia Pesticide Control Act and verify contractors have obtained	Certifications obtained	Poquoson Engineering Department	Continuously	Certifications	Compliant. Certifications are attached.
6.4		High-priority Facilities						
6.4a	I.E.6.g	New HPFs	Identify any new HPFs located in expanded 2020 census urban areas with a population of at least 50,000	# of new HPFs	Poquoson Engineering Department	Before Nov. 1, 2024	List of new HPFs	Compliant. No new HPFs in City service area.
6.4b	I.E.6.h I.E.6.y.(3)	SWPPPs for new HPFs	Develop and implement SWPPPs for HPFs which are located in expanded 2020 census urban areas with a population of at least 50,000	SWPPPs implemented	Poquoson Engineering Department	Before Nov. 1, 2026	SWPPPs for new HPFs	Compliant. No new HPFs in City service area.
6.4c	I.E.6.i	SWPPPs for each HPF	Maintain and implement SWPPPs for each HPF that doesn't have or require separate VPDES coverage; modify as needed	SWPPPs maintained, implemented, and/or modified	Poquoson Engineering Department	Continuously	SWPPPs for HPFs	Compliant. The City's Public Works yard house the City garage, Public Works and Utilities Departments and their equipment and vehicles. SWPPP for site included in Appendix. This is the only HPF in the City.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.4d	I.E.6.x.(2)	HPFs	Review all HPFs to determine which are required to maintain a SWPPP and document rationale for any HPFs that are delisted	Identify HPFs required to have a SWPPP	Poquoson Engineering Department	Continuously	List of HPHs required to have SWPPPs and confirmation statement that all were reviewed	Compliant. All HPFs in City already have a SWPPP.
6.5		Nutrient management plans						
6.5a	I.E.6.p I.E.6.x.(3)	NMPs	Maintain and implement NMPs for all lands owned or operated by the permittee where nutrients are applied to a contiguous area > 1 ac	Total acreage covered by NMPs	Poquoson Engineering Department	Continuously	List of locations with NMPs, along with acreage, dates, and where to find the plans	Compliant. Four sites within the City have been identified. These sites have NMPs supplied by a contractor. Other sites are less than one acre or do not have nutrients applied. List of NMP sites included in Appendix. Full NMP available upon request.
6.5b	I.E.6.q	New areas requiring NMPs	Identify new contiguous areas > 1 ac located within 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	# of locations of newly identified areas requiring NMPs	Poquoson Engineering Department	Before Nov. 1, 2024	List of newly identified areas	Compliant. City added two new NMP sites. They are included in list in Appendix.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.5c	I.E.6.r	NMPs for new areas	Implement NMPs on contiguous areas > 1 ac located in expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	New NMPs implemented	Poquoson Engineering Department	Before Nov. 1, 2026	New NMPs	Compliant. NMPs have been implented one both new sites.
6.6		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. Two new NMP sites were identified and implemented. Training is planned to be held in PY2. All certifications are accounted for.

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

TMDL Special Conditions								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
SC-1		Chesapeake Bay TMDL						
SC-1a	II.A.12.b	Update the Chesapeake Bay TMDL Action Plan	Update the Bay TMDL Action Plan to meet 100% reduction of pollutants of concern (POC)	Updated Bay TMDL Action Plan	SW Program Administrator	Before Nov. 1, 2024	Updated Bay TMDL Action Plan	Compliant. Submitted draft to DEQ as required in PY 1 and will submit full Action Plan prior to Nov. 1, 2024.
SC-1b	II.A.15-16	Update the Chesapeake Bay TMDL Action Plan to account for 2020 Census	Update the Bay TMDL Action Plan to offset increased loads from new sources & grandfathered projects that are located in the expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	Updated Bay TMDL Action Plan to account for 2020 census	SW Program Administrator	End of PY 5	Updated Bay TMDL Action Plan to account for the 2020 census	Compliant. No new urban areas were delineated within the City.
SC-1c	II.A.13	Provide opportunity for public comment on the updated Bay TDML Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Bay TMDL Action Plan	Record of Comments	Compliant. Public comment period will begin October 1st, 2024.

SC-1d	II.A.3	Implement Bay TMDL Action Plan	Implement the Bay TMDL Action Plan to meet 100% of the Level 2 (L2) reductions of POC by the end of the permit cycle	BMPs implemented	SW Program Administrator	End of PY5	Bay TMDL Action Plan	Compliant. Poquoson is on track to meet 100% of the required reduction by the end of PY5.
SC-1e	II.A.14	Submit Bay TMDL Implementation Status Report	Submit the Bay TMDL Implementation Status Report in a method and format specified by the Department	Submit forms and reports electronically	SW Program Administrator	Annually	Bay TMDL Implementation Status report	Compliant. TMDL implementation status report will be submitted alongside Annual Report.
SC-2		Local TMDL						
SC-2a	II.B.2.a	Local TMDL Action Plan for TMDLs approved by EPA prior to July 1, 2018	Develop or update, as applicable, a local TMDL Action Plan	Local TMDL Action Plan	SW Program Administrator	No later than 18 months after permit effective date	Local TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.

SC-2b	II.B.2.b	Local TMDL Action Plan for TMDLs approved by EPA on or after July 1, 2018 and prior to October 31, 2023	Develop and initiate implementation of local TMDL Action Plans	Local TMDL Action Plans	SW Program Administrator	No later than 30 months after the permit effective date	Local TMDL Action Plan	Compliant. TMDL Action Plans developed and submitted to DEQ in May 2021. See Appendix for attached action plans.
SC-2c	II.B.4.d	Identify the significant sources of the POC	Identify the significant sources	Sources identified	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2d	II.B.4.g	Outreach strategy to enhance public (including staff) education on reducing POC discharges	Develop and implement an outreach strategy	Outreach Strategy	askHRgreen and SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2e	II.B.4.h	Schedule of anticipated actions for this permit term	Schedule of anticipated actions provided	Schedule of actions	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2f	II.B.9	Public comment period for the updated Local TDML Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Local TMDL Action Plan	Record of Comments	Compliant. Public comment period took place in April 2021.
SC-3		Bacteria TMDLs						

SC-3a	II.B.5.a	Implement at least 3 strategies from Table 5	Identify strategies	At least 3 strategies implemented	SW Program Administrator	As listed in schedule of anticipated actions	Bacteria TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-4		Sediment, Phosphorous, and Nitrogen TMDLs						
SC-4a	II.B.6.a	Implement one or more BMPs to reduce pollutant loads	BMPs listed in the VA BMP Clearinghouse, BMPs approved by the CBP, or using land disturbance thresholds lower than required	BMPs installed	SW Program Administrator	As listed in schedule of anticipated actions	Sediment, P, or N TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.
SC-4b	II.B.6.d	Submit an update on progress made and the anticipated end date by which the WLA will be met	Identify progress made and anticipated end date	Submit progress update and anticipated end date	SW Program Administrator	Before Nov. 1, 2026	Annual report	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.
SC-5		PCB TMDLs						
SC-5a	II.B.7.a	Develop an inventory of potentially significant sources of PCBs owned or operated by the permittee	Develop potentially significant sources inventory	Potentially significant sources identified	SW Program Administrator	As scheduled in permit	PCB TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.

BMP Warehouse Reporting								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
BMP -1								
BMP-1a	III.B	BMP reporting	Report new BMPs implemented and inspected as applicable between July 1 and June 30	BMPs reported	SW Program Administrator	Annually	Electronic record - DEQ BMP Warehouse	Compliant. New Wet Pond was submitted to the BMP Warehouse.
BMP-1b	III.D	BMP inspection reporting	Report the most recent inspection date for any existing BMP that was previously reported and re-inspected between July 1 and June 30	Inspections reported	SW Program Administrator	Annually	Electronic record - DEQ BMP Warehouse	Compliant. Sumbitted updated inspection reports.
BMP-1c	III.E	Update the DEQ BMP Warehouse	Update the Warehouse if an existing BMP is discovered between July 1 and June 30 that was not previously reported	Warehouse updated, as applicable	SW Program Administrator	Annually	Electronic record - DEQ BMP Warehouse	Compliant. No new existing BMPs were discovered.

Permit Year 1

APPENDIX

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

Public Outreach and Education

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 1	PUBLIC OUTREACH AND EDUCATION
1.1	Education and Outreach Plan
1.2	askHRgreen.org Annual Report
1.3 & 2.2	Public Participation Spreadsheet
1.3	Promotional Items and Distribution: Regional materials provided to City and materials given away by City
1.4	Regional Memorandum of Understanding
1.4	Summary of Regional Cooperation
1.4	Regional Stormwater Workgroup Attendance Chart
1.4	AskHRgreen Attendance Chart

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
		Program Plan Requirements						
	I.C.1.	Roles and responsibilities	Identify the roles and responsibilities for each department, division, and subdivision in implementing the permit, also include the written agreement for any other entities implementing parts of the Program Plan	List of roles and responsibilities, written agreement	Poquoson Engineering Department	As needed	List of roles and responsibilities; Written agreement(s)	Compliant. The roles and responsibilities are shown in the status of the Program Plan. Agreements are attached in the Appendix
1. Public Outreach and Education								
1.1		Update Public Education and Outreach Program						
1.1a	I.E.1.a.(1) I.E.1.f.(1)	Design a plan to educate citizens on actions they can take to reduce impacts of stormwater pollution on waterways with an emphasis on impaired waters by first identifying no fewer than 3 high-priority water quality issues	Identify at least 3 high priority water quality issues	Issues identified	**askHRgreen.org** Stormwater Education Subcommittee	PY1	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1b	I.E.1.f(2)	Rationale for selecting each of the 3 issues	Explain the importance of each issue	Rationale identified	**askHRgreen.org** Stormwater Education Subcommittee	PY1	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1c	I.E.1.f(3)	Target individuals or groups most likely to have significant stormwater impacts	Identify the audience for each issue	Audience identified	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1d	I.E.a.(2)	Increase public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including legal implications	Communicate hazards	Document communications	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.1e	I.E.d	Strategies listed in Table 1 of permit	Identify two or more strategies to address each issue	Strategies identified	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1f	I.E.1.f.(8)	Schedule for communicating messaging	Document the anticipated time periods the messages will be communicated or made available to the public	Time periods documented	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**Regional Education and Outreach Plan**	Compliant. The plan is in the Appendix.
1.1g	I.E.1.c.(4)	Provide a contact and telephone number, website, or location where the public can find out more information.	Provide Contact Information	Information Provided	Poquoson Engineering Department	Continuously	**Locality website: https://www.ci.poquoson.va.us/278/Stormwater-Quality**	Compliant. The contact info is available at the locality website listed.
1.2	I.E.d	Regional Media Campaign to Address High Priority Issues						
1.2a		*Scoop the Poop* campaign	Make *Scoop the Poop* information and giveaways available where citizens receive animal licenses and at pet-related events as	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2b		Promote Lawn Care campaign	Run media campaigns and make lawn care best management practice guides available.	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.2c		Promote FOG campaign	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2d		Promote Proper Disposal of Used Oil, Batteries, and Household Hazardous Waste	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.2e		Promote Proper Disposal of Cigarette Butts	Participate in the **askHRgreen.org** regional media campaign via print, television (local municipal access, cable and local affiliate), radio, and social media	Target audience reached through activities.	**askHRgreen.org** Stormwater Education Subcommittee	Continuously	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.3		Provide for Public Participation						
1.3a		Local Outreach	Post volunteer opportunities on local website.	Number and types of events	**askHRgreen.org** Representative	Annually	https://www.ci.poquoson.va.us/	Compliant. The City posts volunteer opportunities on the City website and holds multiple volunteer events each year.
1.3b		Initiatives	Submit articles for **askHRgreen.org** blog or on locality website or social media for public participation in water quality improvement initiatives.	Number and types of events submitted	**askHRgreen.org** Representative	Annually	Public Participation Spreadsheet	Compliant. The City advertised numerous water quality events. Public Participation Spreadsheet is included in Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.3c		Outreach	Post volunteer opportunities on **askHRgreen.org** calendar or on locality website	Number and types of events submitted	**askHRgreen.org** Representative & HRPDC Environmental Educator	Quarterly	Public Participation Spreadsheet	Compliant. Public Participation Spreadsheet contains info on each City event. The main event for the City is the Poquoson Seafood Festival
1.3d		Distribute educational materials developed through **askHRgreen.org**	Distribute materials developed through **askHRgreen.org** to target audience in locality.	Number of materials distributed	**askHRgreen.org** Representative	Continuously	List of Promotional Items	Compliant. List of promotional items given out is available in the Appendix. Numbers were not tracked, but over 50 of each item were given away.
1.3e		Maintain and enhance **askHRgreen.org** website	Increase website visits each year	Annual askHRgreen.org website visits	HRPDC & **askHRgreen.org**	Permit Cycle	**askHRgreen.org** Annual Report	Compliant. The plan is in the Appendix.
1.4	I.E.d	Participate in regional committees: **askHRgreen.org and** Regional Stormwater Workgroup		Maintain valid MOA	HRPDC	Every 10 years	MOA	Compliant. MOA was renewed in 2023 and is available in the Appendix.
1.4a		Regional Cooperation	Participate in regional programs, including the Regional Stormwater Workgroup and **askHRgreen.org**	Number of meetings attended/Number of meetings held	Poquoson Engineering Department	Annually	Attendance chart	Compliant. Attended 55% of meetings. See attendance chart in Appendix.
1.4b		***askHRgreen.org***	Participate in at least 50% of **askHRgreen.org** Stormwater Education Subcommittee meetings	Number of meetings attended/Number of meetings held	Poquoson Engineering Department	Annually	Attendance chart	Compliant. Attended 50% of meetings. See attendance chart in Appendix.

2024 Phase II MS4 General Permit

BMP	Permit Section	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	PY 1 Status
1.5		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. The City held its main education event in the Poquoson Seafood Festival and increased public involvement in other areas.

High Priority Issues - Education and Outreach Plan Permit Cycle: Nov. 1, 2023 - October 31, 2028

Date Updated - September 5, 2024

	High Priority Issue	Rationale for Selecting this Issue	Target Audience	Strategies Used	Anticipated Schedule - FY24 and beyond
1	Pet Waste: Scoop the Poop	Reducing impacts to waterways with local bacteria impairments and seasonal algal blooms	Dog owners	Paid media campaign (TV, online, social media, newspapers)	April/May 2024
				askHRgreen e-newsletter and social media posts	Ongoing
				Green Learning Guides for 3rd & 6th grade SOLs	Online - ongoing
				Pet waste station grant program	Ongoing
				Printed brochures	Ongoing
				Promotional items - Collapsible pet water bowls, dog waste bag holders and poop emoji squeezers	Ongoing
				Scoop the Poop pledge at askHRgreen.org	Ongoing
				Information on askHRgreen.org	Ongoing
2	Lawn Care	Reducing algal blooms and nutrients concentrations in surface waters	Homeowners	Paid media campaign (TV, radio, online, social media)	September 2023
				askHRgreen e-newsletter and social media posts -fertilizer	Ongoing
				askHRgreen e-newsletter and social media posts -leaves and lawn debris	Ongoing
				Rainbarrel Workshops	Spring 2024
				Promotion of soil test kits	Ongoing
				"Drains to Waterways" storm drain medallions	Ongoing
				Printed brochures	Ongoing
				Promotional items - soil test kits, garden kneelers	Ongoing
				Information on askHRgreen.org	Ongoing
3	Proper Disposal of Fats, Oils, and Greases (FOG)	Preventing sanitary sewer overflows caused by impropoer disposal of fats, oils, and grease	Restaurant owners and employees, grease haulers, and general public	Paid media campaign (TV, radio, online, social media)	August 2023 and November 2023
				askHRgreen e-newsletter and social media posts	Ongoing
				Training and educational resources - www.HRFOG.com	Ongoing
				Promotional items - grease can lids, sink strainers, pot strainers	Ongoing
				Printed brochures, children's activity books	Ongoing
				Information on askHRgreen.org	Ongoing
				Food Service Establishment & Grease Hauler Employee FOG Certification Program at www.hrfog.com	Ongoing
4	Only Rain Down the Drain	Prevention of illicit discharges	Homeowners	Paid media campaign - (tv, online, social media, newspapers)	April 2024
				askHRgreen e-newsletter and social media posts	Ongoing
				Information on askHRgreen.org	Ongoing
				New Stormwater Runoff infographic	June 2024
				Only Rain Down the Drain stickers	April 2024
5	Stormwater Awareness	Education on watersheds and pollution prevention	Elementary Students	Stormwater Education Kits for teachers - science experiments, lessons, books, posters, etc.	Made available in June 2024
				Enviroscape models	Ongoing
				Green Learning Guides for 3rd & 6th grade SOLs	Online - ongoing

askHRgreen.org

ANNUAL REPORT

2023-2024

Prepared By:
HRPDC
EE24-01

HAMPTON ROADS PLANNING DISTRICT COMMISSION

CHESAPEAKE
Amanda Newins
Debbie Ritter
Ella Ward
Christopher Price
Brian Solis

FRANKLIN
Gregory McLemore
Darlene Burcham

GLOUCESTER COUNTY
Christopher Hutson
Carol Steele

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Mary Bunting

ISLE OF WIGHT COUNTY
Joel Acree
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JAMES CITY COUNTY
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NEWPORT NEWS
Phillip Jones
Cleon Long
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Kenneth Alexander
Courtney Doyle
Andria McClellan
Danica Royster
Patrick Roberts

POQUOSON
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PORTSMOUTH
Shannon Glover, Vice-Chair
Steven Carter

SMITHFIELD
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SOUTHAMPTON COUNTY
William Gillette
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SUFFOLK
Leroy Bennett
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SURRY COUNTY
Walter Hardy
Melissa Rollins

VIRGINIA BEACH
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Patrick Duhaney

WILLIAMSBURG
Douglas Pons, Chair
Andrew Trivette

YORK COUNTY
Sheila Noll
Mark Bellamy

Robert A. Crum, Jr., Executive Director/ Secretary

EE24-01

Report Documentation

TITLE:
askHRgreen.org Annual Report for Fiscal Year 2023-2024

REPORT DATE
September 2024

GRANT/SPONSORING AGENCY
Local Funds

AUTHORS:
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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 2023-2024. 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 2024, approved by the Commission in May 2023.

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 leveraging economies of scale, the askHRgreen.org program is able to help local jurisdictions fulfill requirements of MS4 stormwater permits, groundwater withdrawal permits, and the state consent order to prevent 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 assists localities in meeting education requirements of water supply and groundwater permits as well as increasing public awareness of the vital role water plays in the quality of life of Hampton Roads and the need to conserve it.

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.

2023-2024
by the numbers

24.9 million

opportunities to see or hear about askHRgreen.org in FY24

152,880

students impacted by $6,843 in environmental education mini grants

over 200,000

people in attendance at community events with askHRgreen.org

95,604

visits to the askHRgreen.org website

$31,005

grant funding for special projects and programs

3,983

participants in the Bay Star Homes & Bay Star Business programs

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 FY24, we saw a decrease in website traffic over FY23 due largely in part to reduced sessions coming from foreign countries like Indonesia, Singapore, Mexico, and Germany. However, this change translated into improved engagement from our visitors. Our U.S. traffic remained steady and we saw overall improvements in the number of pages per visit, how much time users spent on the site, and how many visitors returned to browse again. The majority of web traffic continues to be new visitors, demonstrating the growing awareness and effectiveness of our outreach efforts and paid media campaigns.

	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17	2015-16	2014-15	2013-14	TOTAL
Visits / Sessions	95,604	166,589	144,282	88,544	73,379	58,893	55,735	58,113	52,530	58,279	55,505	940,150
Unique Visitors	79,236	155,636	130,929	77,212	63,146	49,816	45,661	46,282	42,539	46,994	43,547	806,090
Pageviews	135,675	206,511	188,867	125,529	117,463	86,538	93,589	92,681	93,177	103,228	116,818	1,432,346
Pages per Visit	1.72	1.24	1.31	1.42	1.60	1.47	1.68	1.59	1.77	1.77	2.10	
Average Visit Duration	0:37	0:28	0:38	0:55	1:02	1:03	1:27	1:12	1:32	1:26	1:48	
% New Visits	83%	93%	90%	87%	86%	84%	81.48%	79.62%	80.44%	79.87%	77.74%	
Mobile Devices	68%	75%	71%	57%	58%	57%	54%	53%	40%	39%	34%	
Desktop Devices	32%	25%	29%	43%	42%	43%	46%	47%	60%	61%	66%	

AVERAGE
372 PAGES
VIEWED/DAY

While overall website traffic decreased, we saw a 39% increase in pages per visit, 32% increase in time on site and 143% increase in returning visitors. We also saw increased visits to seven of our top 20 most visited pages, and new pages/topics make the top 20 list with all four committees represented.

WEB TRAFFIC SOURCES

29.7% **Paid** Search, Display, Other
25.3% **Organic Search**
21.3% **Direct**
13.9% **Unassigned**
5.7% **Social** Organic, Paid
3.5% **Referral**
0.3% **Email**
0.3% **Organic Video**

TOP TWENTY VISITED PAGES

14,856 Home +45.8%
9,104 Good to Know/Do: Recycling Lookup +2.7%
8,875 Good to Know/Do: Start Smart, Recycle Right +80.6%
4,780 Good to Know/Do: Electronics Recycling Donating +9.5%
3,982 Campaign: Pet Waste +not in top 20 last FY
3,917 Good to Know/Do: Single-Use Plastic +26.9%
3,775 Good to Know/Do: Fat-free Drains +not in top 20 last FY
3,695 Good to Know/Do: Plant Native Plants +8.29%
3,539 Good to Know/Do: Recycling Lookup - Virginia Beach
3,304 Campaign: What Do You Know About Storm Drains new page
3,244 Program: Great American Cleanup +27.7%
2,382 Events
2,363 Good to Know/Do: Clean, Affordable Tap Water new page
2,165 Campaign: No Wipes In the Pipes +not in top 20 last FY
1,865 Good to Know/Do: Recycling Lookup - Hampton
1,769 Good to Know/Do: Recycling Lookup - York County +not in top 20 last FY
1,719 Good to Know/Do: Lawn Garden Best Practices
1,686 Good to Know/Do: Recycling Lookup - Newport News
1,626 Good to Know/Do: Recycling Lookup Chesapeake
1,609 Good to Know/Do: Illegal Dumping

Search Engine Marketing

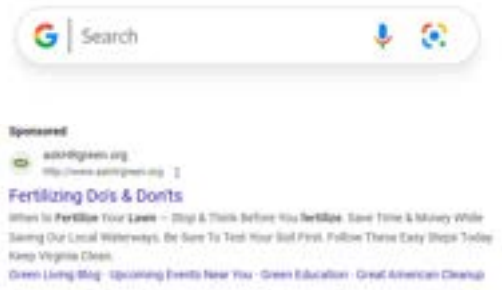
The askHRgreen.org Search Engine Marketing (SEM) program employs Google pay-per-click advertising to increase traffic to the website. By bidding on select keywords and phrases, our ads direct search traffic to relevant content on the askHRgreen.org website. In FY24, we had more than 211,000 impressions of our search ads delivered to users through the Google platform. Those searches drove over 20,600 clicks to relevant content on the askHRgreen.org website. That equates to an incredible click-thru-rate (CTR) of 9.76%. Year-over-year, we continue to optimize our SEM campaign to drive visitors to the askHRgreen.org website for important news, events, information, and resources.

SEARCH ENGINE MARKETING RESULTS

	2023-24	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17
Impressions	**211,072**	216,247	274,428	376,459	342,690	210,695	169,140	107,920
Clicks	**20,607**	20,040	21,771	16,103	12,449	11,087	7,330	4,226
Click Thru Rate (CTR)	**9.76%**	9.28%	7.93%	4.28%	3.63%	5.26%	4.33%	3.92%

TOP 10 KEYWORD AD GROUPS (by impressions)

	Impressions	Clicks	Click Thru Rate
Recycling At Home	48,463	5,577	11.5%
Native Plants	45,853	2,972	6.5%
Electronics Disposal	23,769	4,051	17.0%
Lawn Care / Yard Waste	22,917	1,122	4.9%
Fats Oil Grease Disposal	13,989	1,478	10.6%
Fertilizer Tips	12,098	1,103	9.1%
Tap Water	9,094	547	6.0%
Great American Cleanup	6,638	600	9.0%
Battery Disposal	4,827	716	14.8%
Medication Diposal	3,869	716	18.5%



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Battery Disposal	4,827	716	14.8%
Medication Diposal	3,869	716	18.5%
Great American Cleanup	6,638	600	9.0%
askHRgreen General	1,710	558	32.6%

Community Outreach

Part of the success of askHRgreen.org is the strong public engagement program that includes face-to-face interaction with community members. Each year, askHRgreen.org volunteers attend dozens of events across a wide variety of community sectors. From Earth Day celebrations to public festivals and farmers markets, there is always a reason to talk about what we can do to protect and preserve this great region. Often, the focal point of this participation is the askHRgreen.org educational trailer which has become its own attraction and is seen as a helpful resource by event organizers and attendees alike. The askHRgreen.org trailer is a benefit to have on site at a community event because it comes stocked with a variety of resources from all education committees, including informational brochures and eco-themed promotional items such as reusable shopping bags, sink strainers, shower timers, dog waste bag holders, and more. In FY24, askHRgreen.org team members participated in 33 diverse community events across Hampton Roads. In total, more than 200,000 people had the opportunity to see and interact with askHRgreen.org at a community event.

2023-2024 OUTREACH EVENTS

			Estimated Attendance
8/1	National Night Out	Suffolk	7,000
8/11	TGIF Concert	Suffolk	1,000
8/18	TGIF Concert	Suffolk	1,000
9/14 - 9/17	Isle of Wight County Fair	Windsor	38,675
9/30	Hilton Village Farmers Market	Newport News	500
9/30	Hilton Art Walk	Newport News	2,500
10/3	Smithfield NNO	Smithfield	800
10/7	VBMG Fall Gardening Festival	Virginia Beach	890
10/5 - 10/8	Peanut Festival	Suffolk	70,000
10/13 - 10/15	Barry Art Museum Public Art Festival at Old Dominion University	Norfolk	5,000
10/14	Norfolk Arbor Day Tree Adoption Festival	Norfolk	100
10/20 - 10/22	Poquoson Seafood Festival	Poquoson	35,000
10/26	VB Public Works Picnic	Virginia Beach	300
10/31 - 11/2	NN Shipyard Employee Safety Expo	Newport News	100
11/4	Mariner's Fall Festival	Newport News	3,000
11/8	Anheuser Busch Employee Event	Williamsburg	450
1/20 - 1/21	Mid Atlantic Home & Garden Show	Virginia Beach	2,400
2/24 - 2/25	Home & Garden Show	Hampton	5,000
2/24 - 2/25	Waves of Change @ Virginia Aquarium	Virginia Beach	7,087
3/7	Sharks After Dark @ Virginia Aquarium	Virginia Beach	203
3/23	Suffolk Eggstravanganza	Suffolk	900
4/13	Go Green Market	Yorktown	2,000
4/17	Christopher Newport University Event	Newport News	50
4/20	Earth & Arts Festival	Suffolk	6,500
4/20	Earth Day Celebration	Virginia Beach	1,800
5/2	Wellness Day	Newport News	300
5/16	HRPDC Meeting	Chesapeake	75
5/18	Party for the Planet	Norfolk	540
5/18 - 5/19	Tidewater Comicon	Virginia Beach	5,000
6/4	NASA Langley Safety & Health Expo	Hampton	2,000
6/6	NN Waterworks Safety Day	Newport News	250
6/8	HRSD Atlantic Treatment Tour Event	Virginia Beach	25
6/14	TGIF Concert	Suffolk	350
Total			**200,795**

Bay Star Homes

One of the most important messages of askHRgreen.org is that our actions, big or small, can have a lasting impact on the environment. In order to help residents put that message into practice, askHRgreen.org offers the Bay Star Homes program. To become a Bay Star Home, residents simply pledge to implement at least eight environmentally-friendly practices in and around their homes. This includes proactively implementing stormwater best management practices such as installing rain barrels and rain gardens, disconnecting downspouts and redirecting runoff, and planting native plants and trees to help absorb and filter water. Other pledges address issues like recycling and conserving water and energy. Participants in the program get early access to special askHRgreen.org programs like rain barrel workshops and tree giveaways and receive special newsletters with seasonal tips and helpful information. The Bay Star Homes program welcomed 78 new participants in FY24, bringing the total number of Bay Star Homes in Hampton Roads to 3,902.

BAY STAR HOMES IN FY24

FY24 Bay Star Homes Registrants

City/County	Number
Chesapeake	8
Hampton	6
Isle of Wight	1
Newport News	7
Norfolk	24
Poquoson	2
Portsmouth	2
Suffolk	6
Virginia Beach	19
York	3
Total	**78**

Total Bay Star Homes Registrants

City/County	Number
Chesapeake	180
Franklin	14
Gloucester	18
Hampton	143
Isle of Wight	14
James City	18
Newport News	310
Norfolk	2569
Poquoson	21
Portsmouth	47
Smithfield	12
Southampton	4
Suffolk	162
Surry	3
Virginia Beach	288
Williamsburg	8
York	91
Total	**3,902**

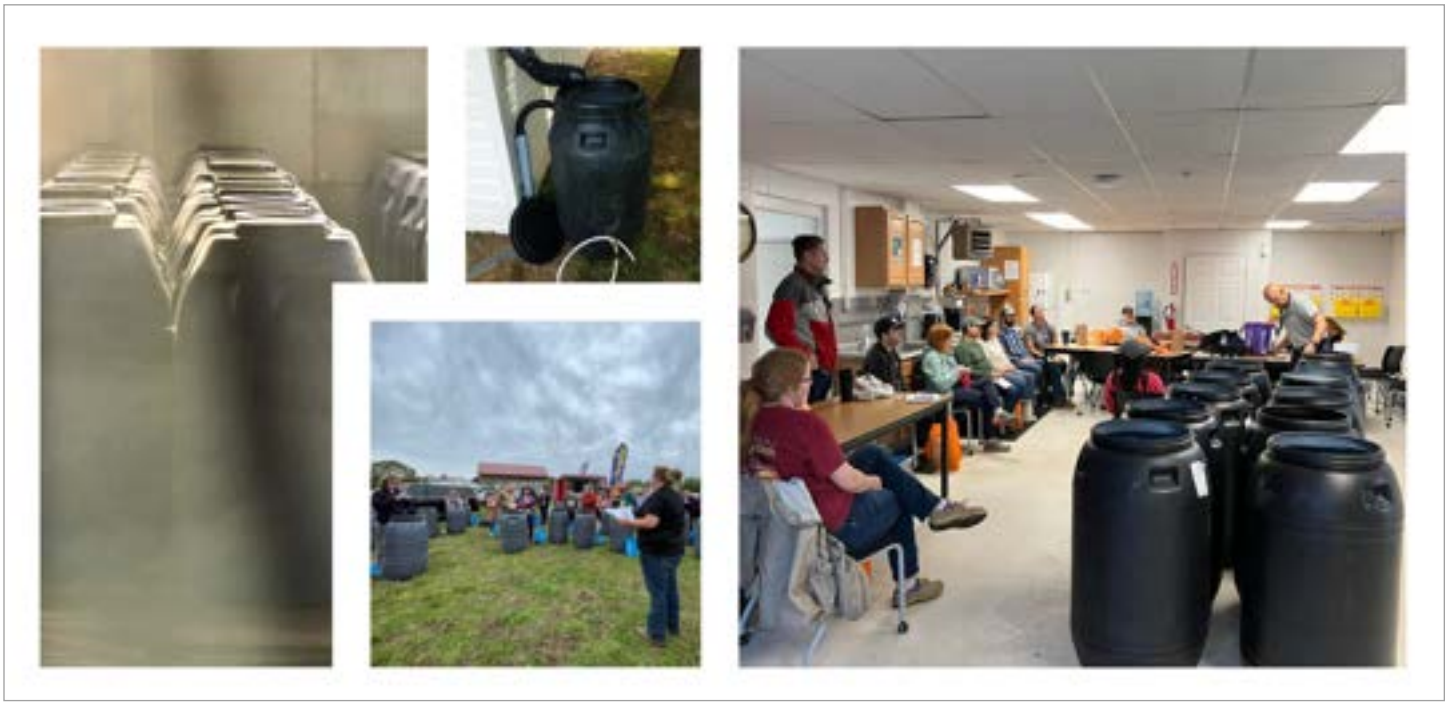
Great American Cleanup

The askHRgreen.org Recycling & Beautification Committee collaborated to host the Hampton Roads regional kickoff to the Great American Cleanup (GAC) on March 22-23, 2024. A part of the committee's "Team Up 2 Clean Up" initiative, GAC engages neighbors, school groups, faith communities, military commands, and local businesses in litter cleanups and beautification projects throughout the region. In recent years, several localities have also focused on engaging locality staff in GAC activities. The two-day cleanup initiative grows in size each year and had another record-breaking year in FY24. The original GAC dates were impacted by inclement weather so many cleanups and beautification projects were rescheduled during the month of April. In total, over 3,000 volunteers across 11 cities and counties participated in GAC events in 2024. Working together, volunteers cleared more than 4,700 bags of litter and 442 tires from roadways, tree lines, neighborhoods, parks, and waterways. That's an estimated 63 tons of trash found and removed from public spaces. There were also a total of 60 new trees planted. GAC continues to be an effective strategy for sparking community action and building regional support for litter prevention programs in Hampton Roads.

Rain Barrel Workshops

The Stormwater Education Committee received grant funding through the Chesapeake Bay Restoration Fund to host rain barrel workshops in FY24. These workshops remain a popular offering of askHRgreen.org due to their low cost. Because the grant funding offsets the cost of supplies, workshop participants pay just $25 to attend and build a 50-gallon rain barrel. The goal of these workshops is to provide affordable access to rain barrels while educating attendees about stormwater runoff, best management practices, and the impact on local water quality. Rain barrels reduce the amount of runoff flowing to the stormwater system while also providing residents with a free source of water for outdoor use. In total, 108 rain barrels were distributed to the community during eight workshops held from April through June 2024. The workshops were conducted both in-person and virtually via "do-it-yourself" curbside pickups where supplies were distributed along with detailed instructions for construction, installation, and maintenance. Chesapeake, Hampton, James City County, Newport News, Suffolk, and York County hosted the rain barrel workshops.

Date	Locality	Format	Event Location	Participants
4/20/2024	James City County	In-person	James City County Library	17
4/23/2024	York	In-person	Yorktown Library	17
5/13/2024	Newport News	In-person	Denbigh Community Center	10
5/18/2024	Chesapeake	Curbside	Chesapeake Stormwater Office	18
5/18/2024	Hampton	In-person	Hampton Public Works	10
5/18/2024	Suffolk	In-person	Suffolk Public Works	19
6/15/2024	Hampton	In-person	Hampton Public Works	12
6/20/2024	Newport News	Curbside	Newport News Stormwater Office	5
				108



RAIN BARREL WORKSHOPS WERE MADE POSSIBLE BY A GRANT FROM THE CHESAPEAKE BAY RESTORATION FUND.

You can support restoration activities in Virginia, such as this, by purchasing a Chesapeake Bay license plate.

Student Outreach

ENVIRONMENTAL EDUCATION MINI GRANT PROGRAM

askHRgreen.org is proud to support hands-on environmental education opportunities for K-12 students in the region. Through the Environmental Education Mini Grant Program, Hampton Roads teachers, youth leaders, and youth-centric organizations can apply for grants of up to $500 per year to fund environmentally-themed projects.

In FY24, askHRgreen.org received 19 applications for the mini grant program and funded 15 of them, for a total of $6,843. These projects provided youth in Hampton Roads with expanded environmental learning opportunities, such as access to environmentally-themed books, recycling programs, upcycling, composting, and wildlife habitat creation. These valuable experiences help nurture a connection between our environment and the future leaders of tomorrow. Overall, the mini grant program impacted more than 152,880 students in FY24. This increase in impact is largely due to funding improvements to the children's garden at the Virginia Living Museum, which is expected to benefit approximately 150,000 children. To learn a little more about each of these exciting projects, see Appendix A.

FY24 Environmental Education Mini Grant Projects

Project	Students	School/Organization	City/County	Grant
Recycled Tire Pollinator Planters	65	Asbury Elementary Green Team	Hampton	$300.00
Monofilament Recycling Bins	15	Boy Scouts of America	Virginia Beach	$500.00
Butterfly Garden	29	Hampton Roads Academy	Newport News	$415.00
Reusable Writing Surfaces	290	Bethel Elementary	Gloucester	$500.00
Composting to Reduce Waste in Schools	55	Windsor Oaks Elementary	Virginia Beach	$500.00
Educational Composting Program	140	Virginia Beach Friends	Virginia Beach	$500.00
Composting	204	Sunnybrook Day School	Virginia Beach	$245.00
Compost Education Program	80	Norfolk Academy	Norfolk	$433.00
Green Shelf	550	Hermitage Elementary	Virginia Beach	$500.00
Monarch Butterfly Waystation	17	Princess Anne Middle School	Virginia Beach	$450.00
Pathways into the Native Plant Habitat	650	Bethel Manor Elementary	Hampton	$500.00
Pollinator Habitat	50	Williamsburg Communi-ty Growers	Lightfoot	$500.00
Beautify Woodside	20	Woodside High School	Newport News	$500.00
Children's Garden	150,000	Virginia Living Museum	Newport News	$500.00
Pond Pals	55	Christopher Academy	Portsmouth	$500.00
	152,880			**$6,843.00**







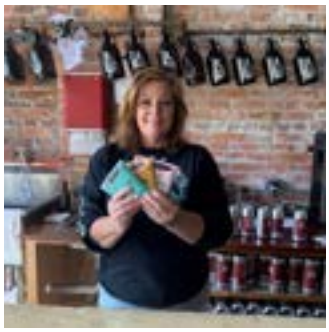




Business Outreach

IMAGINE A DAY WITHOUT WATER 2023

Celebrated annually in October, Imagine a Day Without Water is a national outreach campaign designed to highlight all the ways we use water each day. In FY24, the Water Awareness Committee promoted Imagine a Day Without Water on October 19, 2023 by partnering with 17 local breweries to distribute specially-themed pint glass sleeves. Participating breweries also received trivia night materials and a social media toolkit. To further the promotion, each brewery also received an askHRgreen.org cooler bag to fill with their own promotional wares and raffle off to a lucky customer or social media follower.



Imagine a Day Without Water
October 19, 2023

Business Outreach

BAY STAR BUSINESS

The Stormwater Education Committee launched the Bay Star Business program in 2018 to engage the Hampton Roads business community in protecting local water quality and other environmental stewardship activities. Businesses can sign up online by pledging to implement environmental practices such as conserving water, recycling, cleaning up and preventing litter, properly maintaining company vehicles, and more. There is no cost to join and businesses receive a welcome packet that includes Bay Star Business window decals to display at the office or on company vehicles to show their partnership for a cleaner community. Participating businesses are also recognized through the askHRgreen.org website and social media accounts. By the end of FY24, the Bay Star Business program had a total of 81 participants.

Bay Star Businesses in FY24

City/County	Number
Chesapeake	6
Gloucester	2
Hampton	8
James City County	2
Newport News	14
Norfolk	20
Portsmouth	1
Suffolk	2
Virginia Beach	22
Williamsburg	1
York	3
Total	**81**

FATS, OILS, AND GREASE TRAINING AND CERTIFICATION PROGRAM

The regional Fats, Oils, and Grease (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. Most localities require some level of FOG certification in their local FOG ordinances and the regional FOG certification programs offer this required training to the public at no cost. All training and testing is available at www.HRFOG.com.

For several years, the FOG Committee has documented workflows and technical requirements in preparation for modernizing the regional FOG training program with a new online platform. TalentLMS was identified as the preferred solution in FY23 and HRPDC staff spent much of FY24 working with developers to build and test the new website. Additionally, as part of the update, the FOG Committee invested in transforming the Food Service Employee and Grease Hauler Training programs into video format. The training videos are both easier to understand and more interactive for users with test questions integrated into the training itself. When it launches in the fall of 2024, the new HRFOG.com platform will provide businesses with a seamless FOG education and certification process that will help them comply with local FOG ordinances.

Business Outreach

CIGARETTE WASTE RECEPTACLE GRANTS

The Cigarette Waste Receptacle Grant Program was launched in 2021 as a partnership between the Recycling & Beautification Committee and the Stormwater Education Committee. This community grant program offers free cigarette waste receptacles to businesses and other facilities experiencing a cigarette litter problem. Based on research from Keep America Beautiful, the proper placement of a cigarette waste receptacle at transition points in the community (i.e. walking from a parking lot into a business establishment) is strongly correlated with a significant decrease in cigarette litter. To date, 204 free cigarette waste receptacles have been distributed to a diverse mix of businesses in Hampton Roads. Of those awards, 54 receptacles were distributed in FY24.

Receptacles in FY24

City/County	Number
Chesapeake	4
Gloucester	5
Newport News	37
Norfolk	2
Suffolk	3
Virginia Beach	3
Total	**54**

Total Cigarette Waste Receptacles

City/County	Number
Chesapeake	10
Franklin	1
Gloucester	4
Hampton	14
Isle of Wight	0
James City	11
Newport News	97
Norfolk	36
Poquoson	0
Portsmouth	5
Smithfield	0
Southampton	0
Suffolk	6
Virginia Beach	4
Williamsburg	4
York	12
Total	**204**

Promotional Campaigns

WASTE REDUCTION & RECYCLING

The Recycling & Beautification Committee is dedicated to promoting waste reduction and effective recycling practices across Hampton Roads. Central to these efforts is the Start Smart, Recycle Right (SSRR) campaign, which began in January 2021. This campaign aims to encourage consumers to make thoughtful choices when purchasing and to recycle only items that are accepted by their local recycling programs. The SSRR campaign offers various resources, including a dedicated website, an online recycling and disposal lookup tool, a series of educational videos, and an interactive recycling quiz. In FY24, the committee maintained its partnership with TFC Recycling, which has committed to matching the committee's media spending dollar-for-dollar over three years. Additionally, the committee was awarded nearly $2 million from the EPA Recycling Education & Outreach Grant Program to amplify these efforts over the next three years.

Paid Media

Through the TFC Recycling partnership, the committee was able to purchase eight months of ongoing campaign coverage for the SSRR campaign. The campaign launched October 29 and ran through June 29 with concentrated media coverage in November, February and April. The campaign included traditional and digital streaming TV, radio, digital display ads with retargeting, social media, a radio interview, and three appearances on Coast Live. Throughout the year, specific messages about recycling and waste reduction were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials

The committee used banner displays and rack card distribution to communicate with the public about recycling basics and contamination. The rack cards are also available in Spanish to reach Latino audiences.

Public Relations

Public relations efforts supported recycling and waste reduction through news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter.

Social Media

We engaged with the community via Facebook and Instagram. Outreach included sharing organic and branded posts on recycling basics, avoiding recycling contamination, waste free living, composting, recycling facts, and more.

Start Smart, Recycle Right LOVE Sign

In 2023, askHRgreen.org and partner TFC Recycling recruited Tom Shirk and his welding students from Suffolk Public Schools' College & Career Academy at Pruden to build an 8'x5' recycling-inspired LOVE sign. The LOVE sign now travels across Hampton Roads making stops at local events and is on display in public places to help inspire meaningful conversations about the importance of recycling. The LOVE sign toured Hampton Roads in FY24 visiting 20 locations including the ODU Barry Art Museum Public Art Festival, Party for the Planet at Virginia Zoo, National Night Out in Suffolk, and other public spaces including municipal buildings, libraries, and recreation centers.

START SMART, RECYCLE RIGHT LOVE SIGN
Atlantic Wildfowl Heritage Museum in Virginia Beach, VA

Promotional Campaigns

LITTER PREVENTION

The Recycling & Beautification Committee is dedicated to reducing litter in Hampton Roads by focusing on both prevention and cleanup initiatives. Through the Team Up 2 Clean Up program, the committee engages residents, businesses, and local groups in community cleanup efforts. This program empowers volunteers by providing them with accessible litter kits, available at libraries and recreation centers throughout Hampton Roads. In FY24, the committee also expanded the "You *Litterally* Can" litter prevention campaign with new creative content. With funding from the Virginia Department of Environmental Quality Competitive Litter & Recycling Grant program, the committee developed a 30-second musical jingle and animated video to enhance the campaign. The catchy pop tune and animated video highlight simple, everyday actions that can prevent litter. Additionally, the campaign includes stickers and posters for distribution at events to further promote the message.

Paid Media

Throughout the year, specific messages about litter prevention were included in the Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials

Lendable litter kits are available in various locations across Hampton Roads to make organizing cleanups easy for community groups, businesses, and neighborhood associations. The committee distributes "You Literally Can" stickers and also purchased auto litter bags to distribute at local events to promote the message of mitigating roadway litter.

Public Relations

Public relations efforts supported litter prevention and community beautification through news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter.

Social Media

We engaged with the community via Facebook and Instagram. Organic and branded outreach topics included cleanup recruitment, cleanup results, litter prevention strategies, and seasonal reminders.

Great American Cleanup

The committee hosts the Hampton Roads Great American Cleanup annually in late March. The 2024 cleanup was a great success with more than 3,000 volunteers who collected over 63 tons of litter. Inclement weather pushed back some events into April, but the volunteers still came out in full force to support a cleaner Hampton Roads.

Promotional Campaigns

CIGARETTE LITTER PREVENTION

In FY24, the Recycling and Beautification Committee continued its efforts to educate the public about the issue of cigarette litter in Hampton Roads. Cigarette butts are not only the most common type of litter but can also easily be swept into storm drains, eventually becoming marine debris in local waterways. To highlight the harmful effects of cigarette litter, the committee employed several strategies:

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

Cigarette litter rack cards and pocket ashtrays were made available for distribution at local events.

Public Relations

Cigarette litter prevention was featured in the askHRgreen.org newsletter.

Social Media

We engaged with the community via Facebook and Instagram to educate smokers on the proper disposal of cigarette butts and the general harmfulness of cigarette litter.

Cigarette Waste Receptacle Grant Program

To date, 204 free cigarette waste receptacles have been distributed to a diverse mix of local businesses in Hampton Roads through this grant program. Of those awards, 54 receptacles were distributed in FY24.

FATS, OILS, AND GREASE DISPOSAL

The FOG Committee aims to reduce sanitary sewer overflows (SSOs) by educating the public on the proper disposal of fats, oils, and grease (FOG). When FOG is poured down household drains, it can cause damage to pipes both within homes and in the public sewer system. The committee advises residents to can the grease, scrape plates into the trash, use sink strainers to catch food scraps, and recycle fryer oil. Although managing FOG is important throughout the year, there is a strong focus on this topic during the holiday season from November to December. To enhance year-round education, a new campaign was launched to promote the Grease Grinch as an all-season character. This effort included the following strategies:

Paid Media

The committee developed a new Grease Grinch campaign with an all-season theme highlighting that FOG is a year-round concern. The new campaign ran August 14-20 and included radio, digital display ads with retargeting, streaming TV, and social media. The committee also picked up the existing holiday-themed Grease Grinch for a one-week campaign during the Thanksgiving holiday, November 20 to November 26. The holiday campaign included traditional television, radio, digital display ads with retargeting, streaming TV, and social media. 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 committee continued to distribute relevant promotional items including sink strainers, grease can lids, pot strainers, children's activity books, and brochures.

Public Relations
Proper FOG disposal was featured in the askHRgreen.org newsletter.

Social Media
We engaged with the community via Facebook and Instagram to educate the public about the proper disposal of FOG and the potential harmfulness to sanitary sewer systems.

WHAT NOT TO FLUSH

The FOG Committee also educates the public about another major cause of sanitary sewer overflows: improper flushing. Sanitary sewers are designed to handle only human waste and toilet paper. However, many people today use toilets as trash cans, flushing items such as personal hygiene products, "flushable" wipes, dental floss, cotton swabs, and more. To address this issue, the FOG Committee runs a comprehensive public education campaign to discourage flushing wipes and other materials that can cause clogs.

Paid Media
There were two "What Not to Flush" media campaigns in FY24. The first campaign ran for one week, January 15 to January 21, on radio, digital display ads with retargeting, streaming TV, and social media. The creative for this campaign was a pickup of existing creative that features a clog monster made of not-so-flushable wipes. A second campaign ran February 5 to February 11. The campaign was a pickup of a chalkboard-style animation walking viewers through the items that should not be flushed and explains how backups can occur on both the public and private side of the sewer system. The campaign included traditional and digital television, radio, digital display ads and retargeting, and social media. 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
The committee continued to distribute toilet stress squeezers, “what not to flush” stickers, and brochures in support of this message.

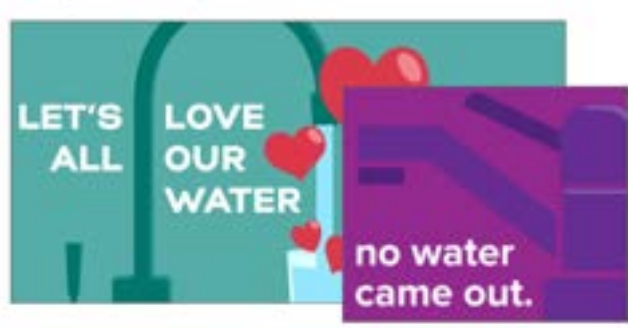
Public Relations
Public relations supported the what not to flush topic with articles in the Virginian-Pilot, Daily Press, and the askHRgreen.org newsletter.

Social Media
We engaged with the community via Facebook and Instagram. Outreach topics included organic and branded posts on the myth of flushable wipes, World Toilet Day, and a what not to flush true or false quiz.

COMMUNICATING THE VALUE OF WATER

The Water Awareness Committee continues to highlight the importance of drinking water to the quality of life in Hampton Roads. While often seen as a basic convenience, drinking water is essential for powering businesses, healthcare, fire protection, and sanitation. Water is not just for enjoying a hot shower; it’s vital for fighting fires, disinfecting, and maintaining cleanliness. It quenches thirst but also allows businesses and hospitals to carry out their critical functions. The committee emphasized the importance of drinking water through the following initiatives:

Paid Media
The committee ran a one-week media campaign from October 16 to October 22 as part of the national Imagine a Day Without Water awareness initiative on October 19, 2023. The ad creative was a pickup campaign featuring a catchy poem and vibrant graphics to describe everything we’d miss on a “waterless” day. The campaign ran on traditional television, radio, digital display ads with retargeting, streaming TV, and social 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.



Outreach Materials
The committee continued to distribute a variety of promotional items including reusable water bottles, mood pencils, toothbrushes, koozies, and more.

Public Relations
Public relations supported the value of water message through news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter.

Social Media
We engaged with the community via Facebook and Instagram. Outreach topics included organic and branded posts about gratitude for water, drinking tap over bottled water, and the importance of investing in water infrastructure.

Imagine a Day Without Water Brewery Promotion
The committee partnered with 17 breweries to distribute Imagine a Day Without Water branded pint glass sleeves and hosted a social media giveaway which resulted in 122 new newsletter signups.

DRINKING WATER QUALITY

In FY24, the Water Awareness Committee focused on a new priority area to address growing concerns about the safety of drinking water in Hampton Roads. Widespread media coverage of issues like lead contamination and PFAS (Per- and polyfluoroalkyl substances, know as forever chemicals) has undermined public confidence in local water systems. Many people are unaware of the extensive efforts and processes involved in ensuring the safety of our tap water. Local utility staff work tirelessly to ensure that the water delivered to every home and business meets all health and safety standards and is of the highest quality. To communicate this important message about Hampton Roads drinking water, the committee undertook the following initiatives:

Paid Media

The committee launched a one-week media campaign from May 6 to May 12, showcasing a new 60-second video that featured water utility employees from across the region discussing their vital role in ensuring the safety and quality of tap water. The campaign centered around the catchphrase, “We think about water so you don’t have to.” The radio portion of the campaign was a pickup of the “thank a water worker” campaign. This media campaign ran during Drinking Water Week on traditional television, radio, digital display ads with retargeting, streaming TV, and social 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.

Outreach Materials

The committee continued to distribute a variety of promotional items including reusable water bottles, koozies, and resources for checking your home for lead pipes.

Public Relations

Public relations supported the value of water message through an article in the Virginian-Pilot and the askHRgreen.org newsletter.

Social Media

We engaged with the community via Facebook and Instagram. Outreach topics included organic and branded posts about gratitude for water, drinking tap over bottled water, and a water trivia quiz.

Technical Workgroups

In December 2021, the Environmental Protection Agency (EPA) announced Lead and Copper Rule Revisions (LCRR) to take additional steps to address the potential for lead to enter drinking water through household plumbing. Drinking water that leaves the water treatment plant is free of lead; however, lead is sometimes present in the pipes of homes built prior to 1986. In FY24, the Water Awareness Committee met quarterly with other local utility staff to discuss implementation of new LCRR regulations.

CAREERS IN THE WATER INDUSTRY

Water utilities in Hampton Roads face a common challenge with hiring and retaining staff, especially for essential positions. To attract more workers to the water industry, the committee continued its efforts through the "Work for Water" campaign, which promotes the benefits of careers in this field and encourages job seekers in Hampton Roads to explore opportunities with local water utilities. The campaign includes interviews with current utility employees who share their positive experiences working in the water sector. The committee addressed this focus area using the following strategies:

Paid Media

As part of the "Work for Water" campaign mentioned above, a radio ad was featured expressing appreciation for local water workers. The one-week media campaign from May 6 to May 12 on traditional television, radio, digital display ads with retargeting, streaming TV, and social media.

Public Relations

Public relations support included articles in the askHRgreen.org newsletter.

Social Media

Relevant messages were shared via Facebook and Instagram both organically and through the askHRgreen branding campaign.

WATER CONSERVATION

Water conservation remains a key focus for the Water Awareness Committee. The EPA estimates that household leaks can waste nearly 10,000 gallons of water annually, with leaky toilets being a common culprit. Fortunately, these issues often have easy, do-it-yourself fixes. Fixing leaks is crucial not only for conserving water but also for helping residents lower their water bills. Alongside promoting leak repairs, the committee provides a wide array of water-saving tips for both indoor and outdoor use throughout the year.

Paid Media

The committee ran a one-week media campaign from March 18 to 24 promoting fixing leaks. The campaign was a pickup of existing creative which focuses on the amount of water wasted by a leaking faucet. The campaign ran on traditional and digital television, radio, digital display ads with retargeting, podcasts, and social media. 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, and toilet leak detection dye tablets.

Public Relations

Public relations support included articles in the askHRgreen.org newsletter.

Social Media

Water-saving tips were featured regularly on Facebook and Instagram. Conservation messages included finding and fixing household leaks, installing rain barrels, waterwise landscaping, and an indoor water conservation true or false quiz.

ONLY RAIN DOWN THE DRAIN

The Stormwater Education Committee works to inform the public about the negative impact of illicit discharges on local water quality. Central to this effort is the "only rain down the drain" message, which covers a range of potential pollutants, including litter, household hazardous waste, car washing, yard waste disposal, pool maintenance, and more. The committee addressed the issue of storm drains and illicit discharges through the following initiatives:

Paid Media

The committee created a new media campaign to make the connection that what goes into a storm drain ends up in waterways. The campaign ran for one week from April 22 to April 28 and featured streaming television, digital display ads with retargeting, and social 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.

Outreach Materials

The committee maintains a comprehensive collection of brochures and rack cards on best practices for preventing illicit discharges in both commercial and residential settings. In FY24, the committee began development of a pressure washing rack card to inform commercial operations of their responsibility to prevent dirty wash water from entering storm drains. The committee also maintains multiple rack cards in Spanish to reach the Latinx population. The committee also continues to promote the storm drain marking program and received four applications in FY24.

Public Relations

Public relations supported this focal area through news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter.

Social Media

Information about storm drains and the "only rain down the drain" message were also featured in social media branding efforts, increasing the number of users who see this content on Facebook and Instagram. Organic and boosted outreach topics included car washing tips, proper disposal of HHW, a stormwater runoff true or false quiz, and marine debris.

Cigarette Waste Receptacle Grant Program

In partnership with the Recycling & Beautification Committee, 204 free cigarette waste receptacles have been distributed to a diverse mix of businesses in Hampton Roads. Of those awards, 54 receptacles were distributed in FY24.

PET WASTE

In FY24, pet waste continued to be a significant focus for the Stormwater Education Committee. While not picking up after pets is commonly viewed as inconsiderate, many people are unaware that it also contributes to water pollution. Pet waste contains harmful bacteria that can be carried into local waterways via stormwater runoff. The committee addressed the "Scoop the Poop" message through the following initiatives:

Paid Media

The committee ran a one-week media campaign from April 29 to May 5 using the existing "a dogs gotta do" creative. The campaign featured digital television, digital display ads with retargeting, Wavy News in-app ads, and social media. Throughout the year, pet waste messages were also included in our Google SEM campaign, driving traffic to the askHRgreen.org website from relevant keyword searches.

Outreach Materials

The committee maintains and regularly distributes rack cards and stickers in multiple sizes to promote the "Scoop the Poop" message at various community events throughout the year. In addition, branded dog waste bag holders and portable pet bowls are also distributed.

Public Relations

Public relations supported this focal area through news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter.

Social Media

Pet waste messages were also featured in the Facebook and Instagram branding campaign. Branded and organic social media posts were targeted towards pet owners and specifically promoted scooping the poop "even in your own yard."

Scoop the Poop Pledge

Though not promoted heavily in FY24, there were 5 new pledges via the online Scoop the Poop pledge on askHRgreen.org.

Pet Waste Station Grant Program

The askHRgreen.org Pet Waste Station Grant Program supports local efforts to reduce nutrient and bacteria pollution by promoting the installation of pet waste stations. Neighborhood associations, community groups, and property management companies can apply to receive free pet waste stations for their areas. Recipients are responsible for maintaining the stations, which includes emptying the trash and replenishing bags as needed. In FY24, 65 pet waste stations were distributed through this program. The initiative was partially funded by the Chesapeake Bay Restoration Fund Grant and the sale of Friends of the Chesapeake license plates.

Pet Waste Stations in FY24

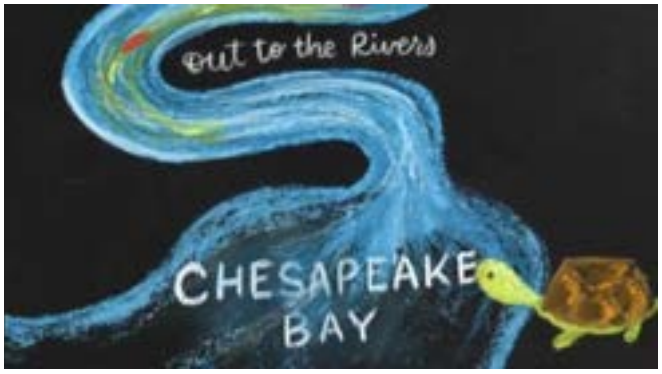
City/County	Number
Hampton	14
James City County	9
Newport News	19
Norfolk	1
Suffolk	5
Virginia Beach	10
York County	7
Total	**65**

LAWN CARE & FERTILIZER

The Stormwater Education Committee promotes responsible lawn care and fertilizing practices to help protect local water quality. When it rains, runoff can carry grass clippings, dirt, leaves, and lawn chemicals into storm drains and ultimately into local waterways. To prevent this, the committee advocates for waterway-friendly lawn care practices, such as keeping yard debris out of storm drains, conducting soil tests before fertilizing, mulch mowing grass and fall leaves, and planting more trees or native plants, among other strategies.

Paid Media

The committee picked up an existing chalkboard art-themed media campaign for a one week campaign from September 11 to September 17. A supporting radio contest ran September 18 to September 22, extending the campaign for an additional week of radio impressions. In addition to radio, the campaign included digital display ads with retargeting and social media. 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.



Outreach Materials

The committee distributes garden kneelers, soil test kits and a brochure on common lawn care best practices. There is also a rack card for commercial landscapers which is now available in Spanish to better reach the Latinx community. Additionally, Southeastern Virginia Native Plant Guides are handed out to encourage Hampton Roads residents to choose native plants for their landscapes.

Public Relations

Soil testing and other lawn care best management practices are commonly included in various public relations strategies throughout the year including news releases and articles in the Virginian-Pilot, Daily Press, and askHRgreen.org newsletter. The Bay Star Homes program is another important tool for encouraging residents to use waterway-friendly lawn care practices.

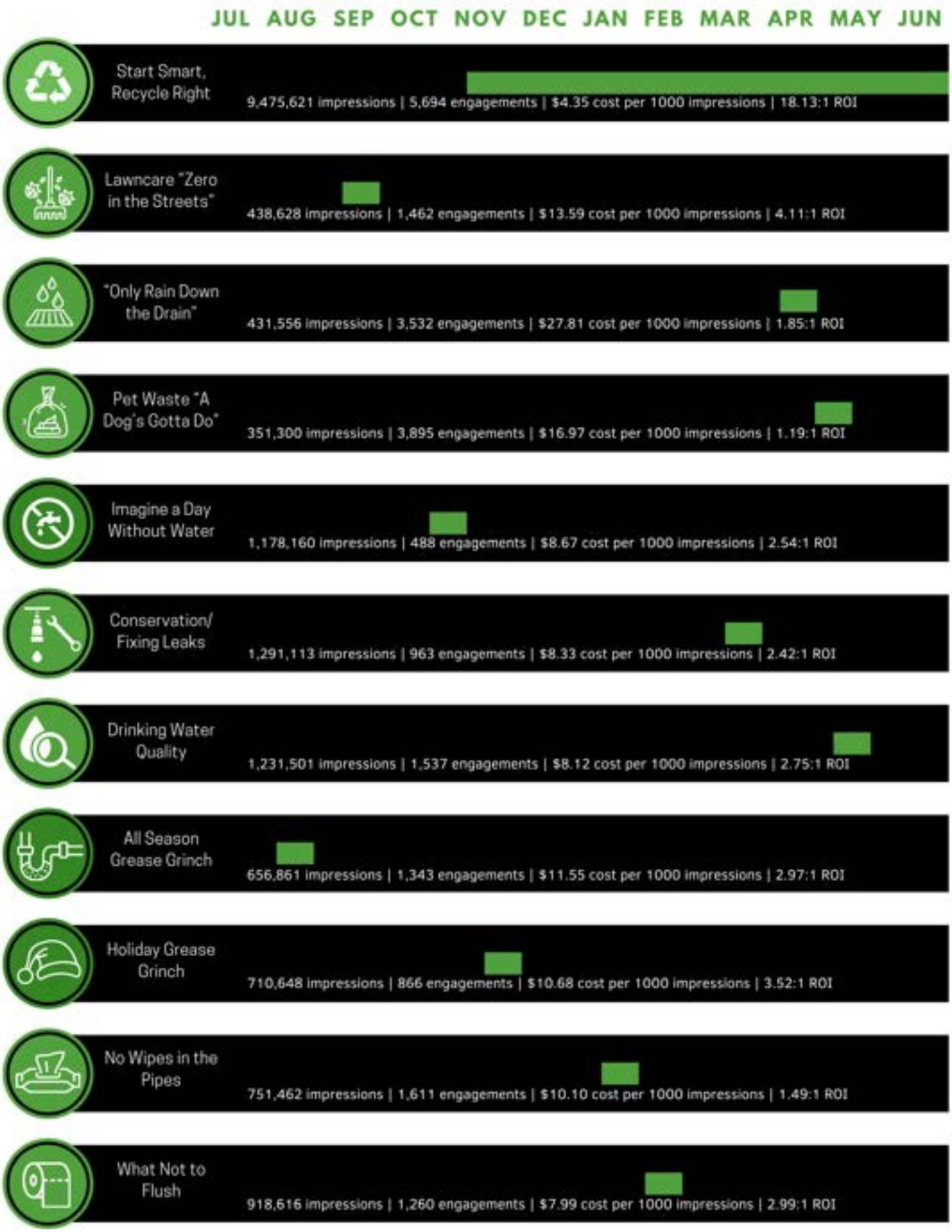
Social Media

Lawn care and fertilizing tips were routinely posted to Facebook and Instagram. The content highlighted a variety of best management practices including soil testing, keeping yard waste out of storm drains, replacing turf grass with native plants, installing rain barrels, and a lawn care true or false quiz. The “Are You a Lawn God or Goober” quiz hosted on the askHRgreen.org website received 36 completed responses.

Rain Barrel Workshops

With funding from the Chesapeake Bay Restoration Fund grant, the committee was able to host eight low-cost rain barrel workshops in FY24. Workshops were hosted in Chesapeake, Hampton, James City County, Newport News, Suffolk, and York County. In total, 108 rain barrels were distributed to residents through this effort.

2023-24 Media Campaigns



Public Relations Activities

Date	Media Outlet	Topic	Length	Circ/Imp	PR Value
Sunday, July 29, 2023	The Virginian-Pilot - askHRgreen guest column	Small yard? Just a patio? Anyone can compost	41.5 column inches	219,079	$20,220.00
Sunday, July 29, 2023	The Daily Press - askHRgreen guest column	Small yard? Just a patio? Anyone can compost	41.5 column inches	95,728	$2,490.00
Sunday, August 12, 2023	The Virginian-Pilot - askHRgreen guest column	Make your garden's growing season last	40 column inches	219,079	$19,488.00
Sunday, August 12, 2023	The Daily Press - askHRgreen guest column	Make your garden's growing season last	40 column inches	95,728	$2,400.00
Thursday, September 07, 2023	WHRO News	Newest Green Beats video is foam free	140 words	66,000	$1,500.00
Wednesday, November 15, 2023	WTKR-TV Coast Live	SSRR ARD interview with Michael Benedetto and Katie Cullipher	5:00 minutes	10,000	$2,400.00
Friday, December 22, 2023	Hampton Roads Messenger	Recycle, repurpose household items after the holidays	275 words	1,000	$900.00
Sunday, December 24, 2023	The Virginian-Pilot	Holiday recycling tips for a sustainable season	44 column inches	219,079	$21,438.00
Sunday, December 24, 2023	The Daily Press	Holiday recycling tips for a sustainable season	44 column inches	95,728	$2,640.00
Tuesday, January 02, 2024	WYDaily	askHRgreen.org offers tips for recycling Christmas trees in Hampton Roads	150 words	30,000	$900.00
Thursday, January 4, 2024	WYDaily	How to recycle and repurpose household items after the holidays	520 words	30,000	$900.00
Wednesday, January 24, 2024	WTKR-TV Coast Live	SSRR interview with Sarah Sterzing and Kathy Russell	5:00 minutes	10,000	$2,400.00
Wednesday, January 24, 2024	The Gazette Journal	Recycle right	125 words and photo	8,000	$1,050.00
Monday, February 12, 2024	WTKR-TV Coast Live	SSRR interview with Samantha McNeil and Kathy Russell	5:00 minutes	10,000	$2,400.00
Monday, February 26, 2024	The Virginian-Pilot	Get ready for the Great American Cleanup / here's how to sign up	75 words	219,079	$3,000.00
Wednesday, February 28, 2024	Gloucester-Matthews Gazette-Journal	The Great American Cleanup to be held March 22-23, 2024	200 words	8,000	$1,200.00
Thursday, March 07, 2024	The Suffolk News-Herald	The Great Suffolk Cleanup returns for 2024	250 words	11,165	$1,200.00
Thursday, March 14, 2024	The Smithfield Times	The Great American Cleanup, promoting local events	Calendar listing	25,000	$1,200.00
Friday, March 15, 2024	The Hampton Roads Messenger - published March-April newsletter	The Water Issue	1,365 words	1,000	$900.00
Sunday, March 17, 2024	Audacy Radio, "Hampton Roads Perspective"	Great American Cleanup interview; Katie and Wayne	20 minutes	6,200	$7,500.00
Tuesday, March 19, 2024	Gloucester-Mathews Gazette-Journal	Recycle right, brief about LOVE sign and SSRR	100 words	8,000	$600.00
Tuesday, March 19 2024	WAVY-TV Hampton Roads Show	Norfolk Great American Cleanup; mentions askHRgreen.org	Mention	10,000	$3,000.00
Tuesday, March 19 2024	WAVY-TV News	Great American Cleanup underway in Norfolk	Online report	50,000	$10,500.00
Thursday, March 14, 2024	WTKR-TV Coast Live	SSRR interview with Katie Cullipher and Amber Zufelt, Mrs. USA Earth Water	5:00 minutes	10,000	$2,400.00
Saturday, March 16, 2024	The Virginian-Pilot - askHRgreen guest column	Fix-a-Leak Week reminds consumers to save water, money	33 column inches	95,728	$1,980.00
Saturday, March 16, 2024	The Daily Press - askHRgreen guest column	Fix-a-Leak Week reminds consumers to save water, money	33 column inches	95,728	$1,980.00
Thursday, March 21, 2024	The Flagship News	Put rain to work with these DIY home and garden improvements	56 column inches / 3/4 page	40,000	$3,600.00
Saturday, April 6, 20924	The Virginian-Pilot - askHRgreen guest column	Please don't feed the geese; here's the poop	27 column inches	219,079	$13,155.00
Saturday, April 6, 20924	The Daily Press - askHRgreen guest column	Please don't feed the geese; here's the poop	27 column inches	95,728	$1,620.00
Saturday, April 27, 2024	The Virginian-Pilot - askHRgreen guest column	Waterway-friendly wash	75 column inches	219,079	$36,540.00

Date	Media Outlet	Topic	Length	Circ/Imp	PR Value
Saturday, April 27, 2024	The Daily Press - askHRgreen guest column	Waterway-friendly wash	75 column inches	95,728	$4,500.00
Saturday May 4, 2024	The Virginian-Pilot - askHRgreen guest column	Raise a glass of H20 during Drinking Water Week	20.5 column inches	219,079	$9,993.00
Saturday May 4, 2024	The Daily Press - askHRgreen guest column	Raise a glass of H20 during Drinking Water Week	20.5 column inches	95,728	$1,230.00
Saturday, May 18, 2024	The Virginian-Pilot - askHRgreen guest column	Give your next outdoor party a light footprint	26 column inches	219,079	$12,675.00
Saturday, May 18, 2024	The Daily Press - askHRgreen guest column	Give your next outdoor party a light footprint	26 column inches	95,728	$1,560.00
Saturday, June 1, 2024	The Virginian-Pilot - askHRgreen guest column	What not to flush and why it matters	117.50 column inches	219,079	$57,281.25
Saturday, June 1, 2024	The Daily Press - askHRgreen guest column	What not to flush and why it matters	117.50 column inches	95,728	$7,050.00
Wednesday, June 12, 2024	WHRO Public Media	Hampton Roads leaders will ramp up recycling education with new EPA grant	50 seconds; 312 words	10,000	$750.00
Wednesday, June 12, 2024	Suffolk News-Herald	EPA awards $1.9 million dollar grant to enhance recycling program in Hampton Roads	420 words	10,431	$2,250.00
Saturday, June 15, 2024	WAVY-TV website	https://www.wavy.com/news/virginia/federal-grant-to-help-organization-boost-awareness-on-recycling-in-virginia/	160 words	15,000	$2,250.00
Saturday, June 15, 2024	Philanthropy News Digest	Federal grant to help organization boost awareness on recycling in Virginia	165 words	10,000	$1,500.00
Wednesday, June 19, 2024	Waste 360	Hampton Roads VA program receives nearly $2 million to boost recycling education initiative	Mention	90,000	$750.00
Wednesday, June 19, 2024	Williamsburg-Yorktown Daily	EPA awards askHRgreen.org $1.9 million to help Hampton Roads residents "Start Smart, Recycle Right"	690 words	30,000	$1,800.00
Thursday, August 01, 2024	Coastal Virginia Magazine	Put rain to work	1.75 pages	156,000	$7,500.00
				3,584,787	**$282,590.25**

Total circulation or audience	3,584,787
Total articles and interviews	45
Total PR budget	$15,590
Total publicity value	$282,590
Return on Investment (ROI)	18:1


The Virginian-Pilot

Holiday recycling: Tips for a sustainable season


home+living

Garden PATROL

Combined Media Results

PAID ADVERTISING WEEKS	52 consecutive
TOTAL IMPRESSIONS	24,972,493
TOTAL CLICKS/ACTIONS/ENGAGEMENTS	56,989
TOTAL PROMOTIONAL CAMPAIGN BUDGET	$214,665
TOTAL EXPOSURE VALUE	$632,597
RETURN ON INVESTMENT (ROI)	2.95:1

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3,096 followers
reach of 1.4 million
6,100 page visits

709 followers
reach of 444,300
861 profile visits

6,937 Newsletter Subscribers

Appendix A

askHRgreen.org

Summary for FY24 Environmental Education Mini Grants

Total Projects Funded in FY24:
FY24 Mini Grant Budget: $5,000 (Reserves: $12,046.33)
Total Grant Funds Awarded: $6,843

Name of Project	Number of Students	School/Facility	City/County	Awarded
Recycled Tire Pollinator Planters	65	Asbury Elementary – Green Team	Hampton	$300.00
Monofilament Recycling Bins	15	Boy Scouts of America	Virginia Beach	$500.00
Butterfly Garden	29	Hampton Roads Academy	Newport News	$415.00
Reusable Writing Surfaces	290	Bethel Elementary	Gloucester	$500.00
Composting to Reduce Waste in Schools	55	Windsor Oaks Elementary	Virginia Beach	$500.00
Educational Composting Program	140	Virginia Beach Friends	Virginia Beach	$500.00
Composting	204	Sunnybrook Day School	Virginia Beach	$245.00
Compost Education Program	80	Norfolk Academy	Norfolk	$433.00
Green Shelf	550	Hermitage Elementary	Virginia Beach	$500.00
Monarch Butterfly Waystation	17	Princess Anne Middle School	Virginia Beach	$450.00
Pathways into the Native Plant Habitat	650	Bethel Manor Elementary	Hampton	$500.00
Pollinator Habitat	50	Williamsburg Community Growers	Lightfoot	$500.00
Beautify Woodside*	20	Woodside High School	Newport News	$500.00
Children's Garden*	150,000	Virginia Living Museum	Newport News	$500.00
Pond Pals	55	Christopher Academy	Portsmouth	$500.00

Projects continued from FY23

Name of Project	Number of Students	School/Facility	City/County	Awarded
Native Plant and Pollinator-Friendly Garden	660	Great Bridge Primary School	Chesapeake	$500.00
Recycling in the Classroom*	1766	Bethel High School	Hampton	$500.00

Project	**Recycled Tire Pollinator Planters**
Recipient	**Asbury Elementary Green Team**
Locality	**Hampton**
Award	**$300.00**

Project Description: Second grade students will strategically place recycled tires in open areas. Classes will take part in planting a mixture of pollinator seeds and plants. The students will also continue to care for the growth and maintenance of the planters. Students will learn of the importance of pollinators and the benefits from providing them habitats. Second graders will continue to monitor and care for these gardens and in return providing the students with a rewarding feeling, responsibility and the importance behind the project.

Project Outcome: This was a multi-step project. The students did research on the outdoor air systems runoff prior to giving their tires permanent placement. This helped make the project successful. Cardboard barrier was inserted for the red worm to decompose, which they also researched. The students then dilled their planters with soil and inserted perennials. Classes have the responsibility of caring for these plants and ensuring their growth is a success. Finally each student inserted a mammoth sunflower seed into the planters. They recently did an activity where they learned how sunflowers naturally extract certain pollutants from the soil by their roots. Some examples are zinc and copper.
SOL's that were supported are Science 4.8 (Virginia's Wateshed) 4.3 (Living Systems/Plant Processes), Math 5.8 (Measurement/perimeter and area)

What did the students enjoy the most about this project? All of the 5th grade students enjoyed every aspect of this project. The hands on activities were exciting and kept them engaged. Students worked as a team to make this successful. They were happy to see their teachers involved as well.

How could a similar project be improved? This project could have been improved by completing more research on the native plants that the students used for their tires. This would've helped them become more acclimated on how to care for them properly.

Project	**Monofilament Recycling Bins**
Recipient	**Boy Scouts of America**
Locality	**Virginia Beach**
Award	**$415.00**

Project Description: In the Chesapeake Bay, there are over 348 species of fish and over 140 species of birds. There are also over 850,000 freshwater and saltwater anglers in Virginia alone. These fishermen often leave lines and other equipment in the water that decompose very slowly because of its material. This is known as derelict fishing. The abandoned lines cause wildlife to die needlessly, makes our communities less clean, and harms our economy because we have less animals to fish. It also causes destruction of our habitat and is a hazard to navigation. My project is building 20 monofilament recycling bins out of PVC pipes. I will then give the bins to my two beneficiaries, Lynnhaven River Now and the City of Virginia Beach. The two beneficiaries will then find adopters to place them where needed (public and private fishing piers, marinas, etc.) and perform upkeep and maintenance on them. Old line will be shipped

to Berkley Pure Fishing Co. in Iowa. Berkeley melts the line down into raw plastic pellets that will be made into other plastic products including tackle boxes, spools for line, fish habitats and toys.

Project Outcome: The project was a success. Before starting the project, scouts learned about the harmful effects that monofilament has on the environment. They were taught about how improper monofilament disposal harms wildlife, hurts the environment, and even affects us as humans. About twenty volunteers showed up for this project, and they all learned how to build monofilament recycling bins, why this project is necessary, and how it will help in the future. Now, there are twenty different public fishing piers that can be maintained with these bins. Lynnhaven River Now, who was the original recipient of the bins and will be responsible for dispersing them, is happy that the bins can now help keep the environment clean and support wildlife.

What did the students enjoy the most about this project? The scouts enjoyed learning about the environment and being a part of the solution to the problems it faces. They enjoyed learning how to make monofilament bins that would benefit the community, and they gained experience working in teams as they communicated with one another. The volunteers also learned how to adjust to different methods as challenges arose.

How could a similar project be improved? The project was a success and worked exactly as it was planned, but if I were to repeat the project, I might see if I can find ways to reach even more people.

Project	**Butterfly Garden**
Recipient	**Hampton Roads Academy**
Locality	**Newport News**
Award	**$500.00**

Project Description: This project will be led and fully completed by high school students from Hampton Roads Academy. They will be building a butterfly garden for the elementary students to provide a more interactive learning experience during specific units. The garden will include flowers that are beneficial for butterflies, bees, and hummingbirds. The students will build the garden bed, decorations, and plant the flowers. The decorations will include educational elements; for example, the stepping stones to the garden will display the stages of metamorphosis. All of the decorations will be made of environmentally friendly or recycled materials; for example, hummingbird feeders made out of recycled water bottles.

Project Outcome: The project was an interactive activity that successfully encouraged volunteering and environmental awareness within the HRA community. The students involved seem to grasp a better understanding of the importance of plants to pollinators and the importance of pollinators to the ecosystem.

What did the students enjoy the most about this project? The students seem to most enjoy the mini projects that went along with the larger goal of the project. For example, the school's YVC club made small hummingbird feeders from recycled materials to go along with the garden bed.

How could a similar project be improved? Better coordination different viewpoints would have prevented some obstacles faced throughout the project. Gathering more enthusiasm form the students at HRA would have also provided a more willing group of volunteers for the project.

Project	**Reusable Writing Surfaces**
Recipient	**Bethel Elementary School**
Locality	**Gloucester**
Award	**$500.00**

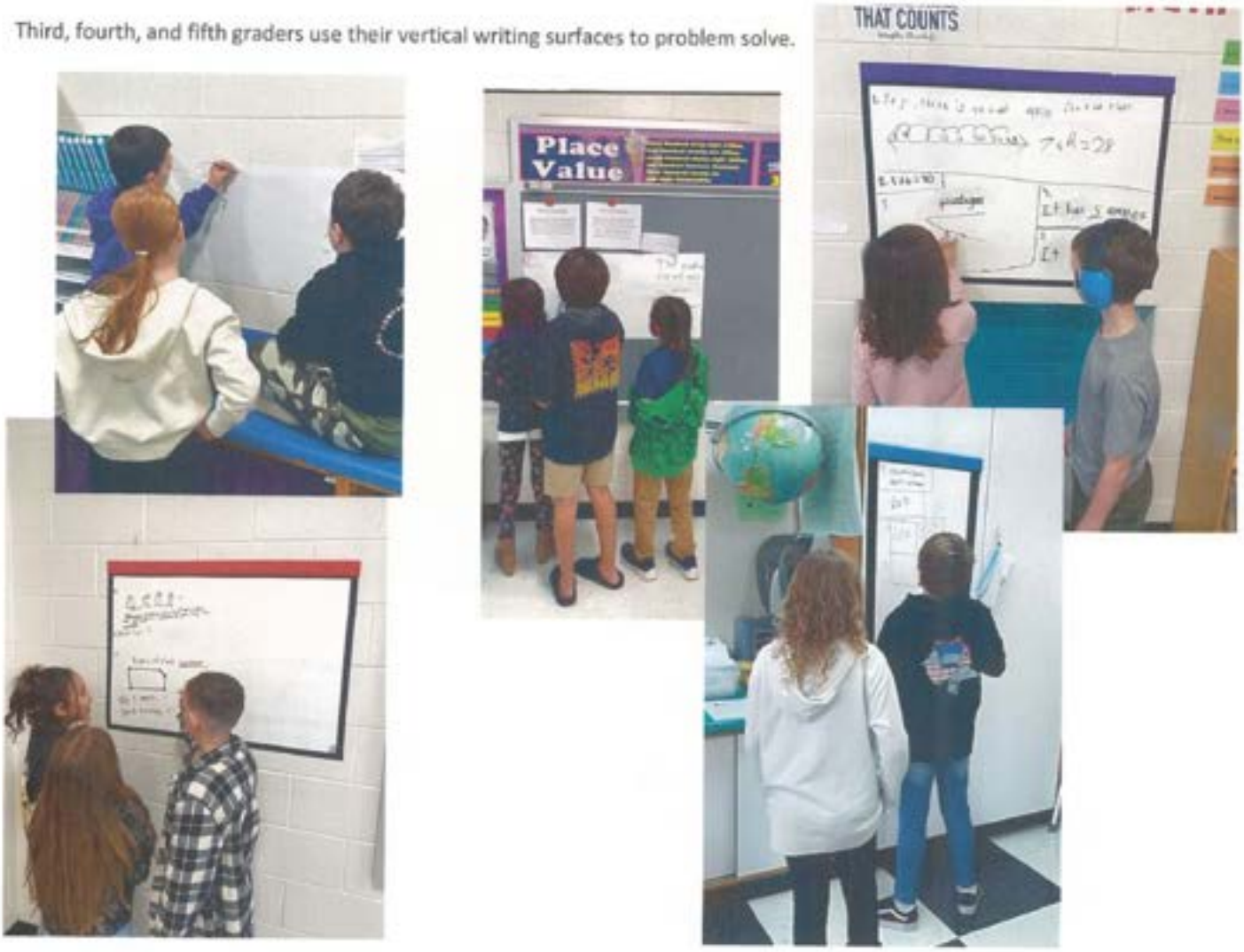
Project Description: Bethel Elementary students in grades 3, 4, and 5 will reduce the amount of paper copies used during their daily math instruction. This will be achieved through the use of "vertical non-permanent surfaces" (Liljedahl, 2021)

Project Outcome: The vertical writing surfaces are a huge success! Teachers report increased student engagement and decreased negative behaviors. They are used daily to cover all Virginia Standards of Learning, and are particularly useful in meeting the states requirements, "The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to ... " (this precedes every math SOL) Teachers are also excited about not having to make as many paper copies for their students. They feel good about the effect this has on the environment as well.

What did the students enjoy the most about this project? Students love being up and moving about the classroom. They enjoy the collaboration with peers and sharing different ways to look at mathematical concepts. They find it so much more engaging than worksheets!

How could a similar project be improved? We need to consider how to implement this with possible larger class sizes. This just means we need to be creative in our use of space. We also need to order more small dry-erase markers! Thank you so much for supporting our project. It has caught the attention of reading teachers in out buildings, who are not interested in how to make this work in their language arts classes.

Third, fourth, and fifth graders use their vertical writing surfaces to problem solve.



Project	**Composting to Reduce Waste in Schools**
Recipient	**Windsor Oaks Elementary**
Locality	**Virginia Beach**
Award	**$500.00**

Project Description: Our school is very excited to work with Dhristi Composting to help reduce the waste in the classroom and cafeteria. We will be using the compost in our garden that the district is building in order to grow food to be used in the cafeteria. We want to teach the students how to reduce food waste and how to grow food that will be used in the food that they eat for lunch.

Project Outcome: The project is still in progress. It is still in the beginning stages of just 5th grade collecting the correct food to put in the composting box. We hope to include the rest of the school in the new school year. A high school student from Princess Anne helped the students create a banner to show the students which foods they could compost. The student also came to the school a couple times a week

to help the students in the beginning to know what to do. I also had Dhristi Composting come and talk with the students to help them better understand the process.

What did the students enjoy the most about this project? The students were excited to collect the food and see how things are progressing in the composting box. I created a schedule so that the students could all take turns collecting the food on the cafeteria. A high school student from Princess Anne helped the students create a banner to show the students which foods they could compost.

How could a similar project be improved? We are going to improve by including the entire school at the start of the new year. I will have students show the students what to do and then have students in the class collect the composting while in the cafeteria.

Project	**Educational Composting Program**
Recipient	**Virginia Beach Friends**
Locality	**Virginia Beach**
Award	**$500.00**

Project Description: Integrating a composting system would not only enhance our environmental sustainability efforts but also serve as an invaluable educational tool for our students. Composting offers a hands-on approach to understanding the cycle of nature, the importance of waste management, and the transformative power of organic materials. By implementing a composting program within the garden, students will have the opportunity to engage in experiential learning, connecting classroom knowledge to real-world applications. I am enthusiastic about the positive impact this composting program could have on our school community and beyond. I would appreciate the opportunity to discuss this proposal further and explore ways to implement this exciting project. Thank you for your time and consideration.

Project Outcome: This was a huge success, the kids got to see how valuable compost is in the garden and also how to make the compost. We have set up compost bins around the school, so that the kids can do their part in contributing as well.

What did the students enjoy the most about this project? The kids enjoyed the harvesting and eating the most. They got a chance to try harvesting from the raised beds that didn't have compost in them, and complete a comparison of what the food tasted like in each bed and made a conclusion about why.

How could a similar project be improved? The kids at VBFS have learned that throwing away food instead of putting it into a compost bin is awful for the environment and for the landfill. They have learned that compost is not only good for the fruits and vegetables we grow but also for the bugs and microbes in the soil.

Project	**Composting**
Recipient	**Sunnybrook Day School**
Locality	**Virginia Beach**
Award	**$245.00**

Project Description: We will be introducing all students to composting practices in their classrooms as part of a school wide Green Team environmental program. Due to the volume of daily food waste generated in the school and the limited availability of proper space for an on-site composting bin we will be utilizing a professional composting company, Tidewater Compost LLC. The application is for funding to purchase collection containers and materials.

Project Outcome: The composting project was a huge success. The students became very knowledgable about what items could be turned into compost instead of going to the landfills to rot. By the end of the project children no longer needed guidance about what materials go into the compost bin and which were to be thrown away. Many families provided feedback that their child requested they start composting at home, as well. Our overall environmental impact totaled 885 pounds of trash diverted, which offsets 877 driven miles, 39 gallons of gas and 391 pounds of coals burned.

What did the students enjoy the most about this project? The students enjoyed learning about what items could be composted, how compost is made, and the benefits of creating compost. Our children were always excited to put items, such as food scraps and paper towels, into the special green bin instead of the trash can.

How could a similar project be improved? We loved our composting project and found that the two biggest obstacles for our school was 1) the cost of the service and 2) the collection bin size. To have the project fit within our allotted activity budget we were limited to a 64gallon curbside toter, which we filled half way through the week. We were able to justify the cost of the service for the 3-4 month period we had it as a learning experience, but a year round cost of over $1000 annual to maintain the program is unfeasible.

Project	**Compost Education Program**
Recipient	**Norfolk Academy**
Locality	**Norfolk**
Award	**$433.00**

Project Description: The material requested in this proposal will allow us to continue our Compost Education Project with our 4th grade students. We will use two composting systems purchased on Amazon to demonstrate how composting works, how students could do it at home and get into the biology that drives composting. We compare how both systems work and use the finished humus in our organic gardens.

Project Outcome: We purchased two backyard compost bins and associated materials with the funds provided by this grant. 4111 grade students learned about the composting process as we filled both bins with browns and greens (proper cafeteria waste), observed the process and compared the finished product from the two different bins after 10 weeks of composting to decide which style of bin was better. We incorporate many concepts in this applied project including bacteria, fungi, soil food webs, decomposition, nutrient recycling, aerobic vs. anaerobic decomposition, temperature's effect on decomposition rates. landfills and methane production and planl needs. We will use the finished humus on our pollinator garden and organic vegetable garden. orfolk Academy composts food waste during our family style cafeteria lunches. It is beneficial for students to learn about the composting process so they understand why we compost in the cafeteria.

What did the students enjoy the most about this project? The 4th grade students enjoyed spinning the 'Spin Bin' and feeling the heat in our other composting unit when it was cooking. They also enjoyed rooting around the composted material. The compost needs several more weeks for some of the 'browns· to decompose. I plan to keep this batch over the summer in hopes of taking it to fully finished compost humus that I can show next years 4th grade students as we begin our composting unit when we return in August.

How could a similar project be improved? We hypothesized that the SpinBin would compost faster than the YITAI IOME bin because we could spin/ tumble the SpinBin to keep it more aerated, while we had to dig around the Yitahome with a pitchfork to mix it. Mixing with the pitchfork seemed less effective as we couldn't get down to the bottom of the pile. Hypothesis rejected! The Yi tahome produced a more finished / decomposed product at the end of IO weeks than the SpinBin. We believe this is because the Yitahome is larger and was able to cook hotter, longer and thus speed up decomposition. I obtained the two composting bins in early spring which didn't give us quite enough time to make a finished batch of humus before school let out. I will begin the unit in late August next school year. I typically begin this project in August at the beginning of our school year.

Project	**Green Shelf**
Recipient	**Hermitage Elementary**
Locality	**Virginia Beach**
Award	**$500.00**

Project Description: We have purchased "Green" books for our school library. Books with environmental messages focusing on the coastal environment. Books about beach cleanups, ways to recycle, ocean pollution, and how children can make a difference

Project Outcome: We were able to purchase over 30 new books to add to our Green Shelf in our school library. Our students regularly check out books from this shelf full of books with environmental messages. Books are geared for students in Kindergarten ~ 5th grade. We specifically chose books that work with our curriculum. One example is books pertaining to ocean pollution. Our 4th graders do a unit on the garbage patches that are popping up in our oceans.

What did the students enjoy the most about this project? The students are checking out our green shelf books and challenging classmates to read the same books. They are creating mini books clubs! The students in the lower grades love the "picture" books that they can read. These books are diverse and the children love seeing other children just like them making a difference. Our Ecology Club members sign up to read to classes through out the year, but especially during reading month.

How could a similar project be improved? It's a pretty good project. I am not sure how it can be improved. We have students in the upper grades reading these books to lower grades. We advertise the books on our morning news show. The children do book review videos. And our green shelf is centered where everyone sees it when they walk into our library. It is a huge success.

Project	**Monarch Butterfly Waystation**
Recipient	**Princess Anne Middle School**
Locality	**Virginia Beach**
Award	**$450.00**

Project Description: The project will consist of meeting the requirements to become a registered Monarch Watch Monarch Waystation. The major piece left is to plant a good number of the 2 species of native milkweed (Asclepius incarnata and A. tuberosa). We have a nice raised bed and several surrounding small ponds to plant near. Soil requirements for these species are minimal, and planting sites have been

approved by the Butterfly Society of Virginia. Students have been able to clean up and weed the bed areas with borrowed tools, but it would be nice to have the necessary tools on hand for future upkeep.

Project Outcome: Very successful! Students learned the importance of native plants for caterpillars and that there are citizen science opportunities for observing monarchs from the first arrivals in the spring to migrators in the fall.

What did the students enjoy the most about this project? Interestingly enough many students enjoyed being able to just dig a hole and plant a plant. Even the weeding and bed preparation was fun to them!

How could a similar project be improved? Down the line, maintenance is key. I think the addition of a wheelbarrow for mulch moving will be handy.

Project	**Pathways into the Native Plant Habitat**
Recipient	**Bethel Manor Elementary**

Locality	**Hampton**
Award	**$500.00**

Project Description: BMES has had a thriving native plant habitat in our enclosed courtyard for 10 years. The pathways are typically mulched once a year and must be weeded regularly as the native plants spread and encroach on the walkways. When the interior pathways are open and inviting, teachers are more likely to schedule visits to the site. However, those who rely on wheelchairs, walkers, or crutches still struggle to navigate. This year, a York High School student tackled Phase 1 of a transformative pathway improvement project to make the habitat accessible to all while also reducing the overall future maintenance of the pathways. A three-foot-wide pathway of pavers was installed within the habitat area during a single workday. With Phase 2, we plan to add similar pathways connecting existing concrete sidewalks to the Phase 1 (and a proposed Phase 2 spur) interior pathways.

Project Outcome: WOW! Near the end of their second day working on connector pathways to the native plant habitat, Juniors and Seniors from Grafton High School's Leadership Class were approached by a class of 2nd Graders who had been engaged in math activities at the opposite end of the school courtyard. This particular visit to the habitat wasn't scheduled or requested but occurred spontaneously as the class passed by on their way back inside. Several students indicated interest in the habitat to the older students, who smiled, stepped aside, and waved them in. As the younger students entered the habitat, their heads kept turning in different directions, as if it were all new. The teacher asked her young students what they had to say to the high school students for building the pathway, and so many gleeful "Thank You's!" erupted from the class. It was truly magical.

While our school's pollinator habitat was established over a decade ago, it is set back in a quiet corner of the courtyard, disconnected from established sidewalks. Its interior mulched pathways were continually being overtaken by enthusiastic native plants. Despite attracting ducks, lizards, rabbits (in a fully enclosed courtyard!), hummingbirds, hawks, butterflies, and plenty of pollinators, the habitat was no longer attracting much attention from students or teachers. These new pathways have re-ignited interest. As was seen before its pathways were even completed, the habitat now seems more purposeful, approachable, and is most certainly more accessible to all. As a bonus, these new pathways are low maintenance and thus more sustainable. Adding trail signage along these new pathways is our next goal as we anticipate heightened interest in immersive field experiences once students return to school next fall.

What did the students enjoy the most about this project? The GHS students were extremely hardworking during both of their workdays at BMES. They were scheduled to work for just two hours per session, but they stayed nearly twice that long on the first day. About half made quick work of their planned list of tasks while the others took initiative to tackle additional projects in the courtyard. Unplanned projects included unearthing two stumps that had long been tagged for removal, filling several trash bags with invasive honeysuckle vines that had been smothering a native viburnum, and excavating a second pathway that was to be a future summer project.

Though they drove in personal cars to these workdays, not a single student left early either day as they truly seemed to enjoy making a difference (which they did!). The majority were Seniors in their final week of high school, and yet they chose to work on this project at our school. We are so grateful for their efforts! As this work was scheduled at the end of the school year, most of our elementary students did not have opportunity to explore the new pathways. But if the few who did are any indication, these pathways are sure to rekindle interest in outdoor education from students and teachers alike.

How could a similar project be improved? Most everything went quite smoothly. Since it was near the end of the school year, we got lucky with the weather both days. If we did this again, we might try to schedule the workdays a week earlier to allow time for makeup workdays in case of inclement weather. Also, the first workday coincided with the school's Field Day. That made parking quite a challenge for the high school students involved with the courtyard project. That might not be a problem for other schools with larger parking lots. In addition, we appreciate that the community volunteers from 4-H Schoolyard Habitats Outreach supplied bottled water for the student volunteers, as only about half of the high school students brought their own water bottles. Having a school set of workgloves and maintenance tools stored onsite in an accessible weatherproof shed would be helpful. The tools and equipment used for this project were lent to us each day by our community volunteers from 4-H Schoolyard Habitats Outreach. All in all, this was a wonderful collaborative effort among the 20+ GHS students and their teacher and community volunteers from 4-H Schoolyard Habitats Outreach, with grant funds from askHRgreen.org.

Project	**Pollinator Habitat Education Project**
Recipient	**Williamsburg Community Growers**
Locality	**Lightfoot**
Award	**$500.00**

Project Description: The Williamsburg Community Growers is seeking funding to support a milkweed and native plants planting activity for the Williamsburg Community as a part of our Farm Day 2024 event. This project will involve the planting and maintenance of milkweed to create a safe and sustainable habitat for the local pollinator population, specifically for monarch butterflies. By initiating this project during the Farm Day 2024 event, we are able to gather and include a large number of people, including our high school volunteer service learners, to partake in this educational project.

Project Outcome: We had a good crew of volunteers to help plant the 72 butterfly milkweed plugs at our Farm Day 2024 event. We also had a community gardener donate another 100 plugs! The area is colocated with our large Pollinator education kiosk and is now fenced in (deer pressure). We also have a new Monarch Watch official waystation sign.

What did the students enjoy the most about this project? Butterflies intrigue people-one of the delightful "bugs" along with lady bugs and dragon flies. This is good! At our Farm Day 2024, we also had a local expert present from the Butterfly Society and he had an education display and was available to answer questions.

How could a similar project be improved? The weeds have already started to overtake the milkweek plugs so we have had to identify teams of volunteers to keep up with that. We hope that when they get of a substantial size, that we can remove the temporary fencing.

Project	**Beautify Woodside**
Recipient	**Woodside High School**
Locality	**Newport News**
Award	**$500.00**

Project Description: The Beautifying Woodside project implements native Virginian plants in a garden outside of the school. This initiative provides a welcoming atmosphere outside the school and educates the youth on the planting project 100% student-led.

Project Outcome:

What did the students enjoy the most about this project?

How could a similar project be improved?

Will be carried over to FY25

Project	**Children's Garden**
Recipient	**Virginia Living Museum**
Locality	**Newport News**
Award	**$500.00**

Project Description: In its various gardens, the Virginia Living Museum displays an extensive collection of native plants to provide wildlife habitat and support pollinators, educate about 250,000 guests each year about Virginia's plant species, and beautify the environment to create a welcoming experience for the community.

While they focus on spring and fall annual plant sales, the museum's Horticulture staff rely on volunteers to help maintain a variety of native plant gardens on the Museum's 23-acre grounds. The Children's Garden, which provides an interactive outdoor play space for preschool-age children, has become overgrown and has not been actively maintained in recent years.

The museum's "Green Teen Conservation Leaders" - a group of high-school-age volunteers - have developed an interest in horticulture and want to learn more about native plants and gardening through collaboration with the Museum's Horticulture staff. They plan to spearhead a group project, beginning in the summer of 2024 through the 2024-2025 school year, to revitalize the Children's Garden area by planting sensory-friendly plants and developing a rainwater collection area with rain barrels to facilitate the garden's long-term maintenance.

The Children's Garden, originally planted in 2013, was intended as an area for children to discover nature and native plants through sight, touch, and smell. In addition to plants, it includes a Nature Playground where kids can pretend to get trapped in a spider web, hop on mushroom shapes and whisper through

talking tubes, and explore a play Hobbit House. Kids can use a watering can to give flowers a drink or just sit on a bench and watch for hummingbirds, bees, or bugs.

To renew and re-plant the garden, the Green Teens will spend the first half of the year learning about native plants under the guidance of the Museum's horticulture staff, researching which plant species would bet fit in the garden to appeal to children's senses while attracting pollinators like birds, butterflies, and caterpillars. They will also learn about rain gardens and design a rainwater collection area adjacent to the Children's Garden (e.g. using rain barrels or another method of collection). In the fall, they will work with staff to remove overgrown plants, re-potting existing plants to be used elsewhere, and preparing the soil for spring planting. In the early spring of 2025, the Green Teens will complete the actual planting and will develop or install the rain collection area. Later in the spring, the teens will install new signage and continue to maintain the garden as it opens for children to enjoy.

Project Outcome:

What did the students enjoy the most about this project?

How could a similar project be improved?

Will be carried over to FY25

Project	**Educational Composting Program**
Recipient	**Virginia Beach Friends**
Locality	**Virginia Beach**
Award	**$500.00**

Project Description: Integrating a composting system would not only enhance our environmental sustainability efforts but also serve as an invaluable educational tool for our students.

Composting offers a hands-on approach to understanding the cycle of nature, the importance of waste management, and the transformative power of organic materials. By implementing a composting program within the garden, students will have the opportunity to engage in experiential learning, connecting classroom knowledge to real-world applications.

I am enthusiastic about the positive impact this composting program could have on our school community and beyond. I would appreciate the opportunity to discuss this proposal further and explore ways to implement this exciting project. Thank you for your time and consideration.

Project Outcome:

What did the students enjoy the most about this project?

How could a similar project be improved?

Project	**Pond Pals**
Recipient	**Christopher Academy**
Locality	**Portsmouth**
Award	**$500.00**

Project Description: The kindergarten and second grade students are working together on a service project at our school to rework our current pond. We want to change what we currently have to a prefabricated pond so that we are able to better use our space. We have one rain barrel currently but we need to add an additional rain barrel so that we can use that to fill the pond. The plan is to add native plants around the pond, get a prefabricated container to put in, add the rain barrel and then create a hose system that will help move the water from the rain barrels to the pond. Currently we are filling buckets with water from the rain barrel and taking it to the pond. The pond has fish and we had a solar panel so that we could use that for our water bubbler but the solar panel no longer works so we need a new one.

Project Outcome: This project was a success. The students enjoyed working together to add sand and soul under the pond liner. They used their hands to level out the soil. We planted native plants around the pond and test the pond water with our pond testing kit.

What did the students enjoy the most about this project? They enjoyed spreading the soil, carrying sand bags, remaking the pond look more beautiful, and spreading the sand. The students have mentioned that they are excited to see what kind of animal life will make a home there.

How could a similar project be improved? A similar project could be improved by starting it earlier in the school year to have more time to work on it.

Project	**Native Plant and Pollinator-Friendly Garden**
Recipient	**Great Bridge Primary School**
Locality	**Chesapeake**
Award	**$500.00**

Project Description: Chesapeake is one of the fastest-growing cities in the Hampton Roads region of southeastern Virginia. Protecting our native habitats, plants, and species will become increasingly important in the years to come. Our project is to provide native plants to pollinators such as bees and butterflies while providing hands-on learning opportunities for our students. Creating outdoor learning spaces using native plants will not only educate our students but will teach them responsibility in caring for local habitats and the environment. Startup materials will be purchased locally and long-term maintenance will be provided by various student groups.

Great Bridge Primary School opened its doors to a brand new school in 2019. The building was built specifically to encourage outdoor learning activities and STEM/STEAM integrated lessons. Post-COVID, our teachers and students are now able to begin the journey of adding outdoor learning labs including native plant and pollinator gardens to our campus.

Students will research and identify native plants using various educational tools including Chromebooks and PebbleGo databases, and, discover what native plants will be pollinators for our local bees, butterflies, and birds. Using the results of their research, students will engage in the design, planning, and planting of a native plant garden. Chromebooks (Google Sheets) will be used in designing and planning the size (width and length) of the garden. Particular attention will be given to those native plants to attract the Monarch Butterfly, a local but endangered favorite.

Students will create and produce Google Slide Presentations to educate others on the importance of maintaining native plants and fostering successive generations of endangered species.

When planting season begins, students will determine the area and perimeter of the raised garden bed. Students will measure and weigh as we add composted materials to our beds and use composted materials to plant and grow native plants. During this process, students will be observing, tracking, and measuring our plants. Compost is an excellent additive for increasing organic matter in our soil.

Project Outcome:

What did the students enjoy the most about this project?

How could a similar project be improved?

Project	**Recycling in the Classroom**
Recipient	**Bethel High School**
Locality	**Hampton**
Award	**500.00**

Project Description: Our school does not currently have a school-based recycling program. We would like to add bins to the classrooms that are eager to recycle. The SPED students are recycling plastic film (TREX) currently and would like to add curbside collection to the list. We have18 SPED students total between two functional classes that will participate in this program.Teachers have already submitted their input to order recycle bins for their classrooms. So far, 32 teachers have responded and are willing to take part in this pilot program

Project Outcome:

What did the students enjoy the most about this project?

How could a similar project be improved?

Will be carried over to FY25

City of Poquoson
Public Participation and Education Events

	A	B	F	G	H	I
1						
2	**EVENT**	**DATE**	**ATTENDEES**	**TOPIC; DETAILS;**	**ADVERTISEMENT**	**PURPOSE**
23	Poquoson Seafood Festival	Oct-23	A total of 38,000 people attended the festival over the three days.	The Poquoson Seafood Festival is held at Municipal Park and is the city's largest attended event. The festival is a celebration of living near the Bay and features water quality exhibitors (VIMS, for example) and themes throughout the three day event. It is advertised on the City's website; in social media; via a website; and is featured by state tourism groups and media. City staff members volunteer to work throughout the event and operate the askhrgreen trailer that provides environmental information and handouts to interested attendees. The Festival is also operated by volunteers from the community.	It is advertised on the City's website; in social media; via a website; and is featured by state tourism groups and media. The Festival also has its own website. See https://www.poquosonseafoodfestival.com	public participation; giveaways distributed; exhibits provide education to include information on the Chesapeake Bay Grant Restoration Fun, and VIMS
24	Pet Waste Station	Ongoing	A total of 7 Pet Waste stations are currently being managed by citizens and civic organizations.	Through HRPDC, the City offers free pet waste stations to organizations and individuals who commit to maintaing them.	These stations are advertised via the AskHRgreen website (https://askhrgreen.org/grants/pet-waste-station/); word of mouth; and staff member talks to civic organizations. They are also highlighted in newsletter articles on reducing bacterial discharges (clean up after your pets).	Public participation
25	Adopt a Spot Program	ONGOING	14 organizations have adopted spots. Numerous events were held this year with 216 volunteers, 411 volunteer hours, and a total of 3400 pounds of waste collected.	The Adopt a Spot program encourges organizations to commit to maintaining various roadside spots around the City. Members pick up litter during the year.	Patronage signs; a staff members speaks about the event at meeting held yearly between City officials, civic groups and Homeowner's Association. In addition, the program is advertised in the Island Tide, a newsletter distributed to every household in the City 3-4 times a year.	Public participation and Restoration
30	Bay Star Homes	Year Round	There are 19 Bay Star Homes in Poquoson.	Ongoing opportunity for citizens to pledge to take actions in their daily lives that will support water quality for the Chesapeake Bay.	This program is advertised via the AskHRgreen website; word of mouth; and staff member talks to civic organizations. http://askhrgreen.org/programs/bay-star-homes/?utm_source=wtkr&utm_medium=PPC	Public participation
35	Clean the Bay Day Cleanup	6/1/2024	Upwards of 78 volunteers participated, with over 900 pounds of trash collected.	In conjunction with The Chesapeake Bay Foundation, the City of Poquoson organizes an annual cleanup on Clean the Bay Day. Volunteers meet at Messick Point and travel around the eastern portion of the City picking up any trash they find.	It is advertised on the City's website; in social media; on the Chespeake Bay Foundations website	Public participation and Restoration
36	Household Chemical Collections/Computer Recycling Event	7-Oct-23	Public Works Employees	Household Chemical Collections: City staff work with the VPPSA (regional recyling and waste disposal agency) to host and help work during these events. Poquoson hosted the event in October 2023 in the City's swimming pool parking lot. In addition, Poquoson holds yard and bulk waste collection events throughout the year in the City Hall parking lot.	Advertised via the VPPSA and City websites; social media and VPPSA flyers	Public participation and Restoration

City of Poquoson
Public Participation and Education Events

	A	B	F	G	H	I
37	Library Soil Testing Kits	Year Round	not tracked	The library provides soil testing kits to encourage nutrient management instead of over use of fertilizer.	Display in the library	Participation and Education
38	Various Library Events	Ongoing	A total of 553 people attended various environmental education and participation events.	The library offers numerous environmental education and public participation events throughout the year. These events are designed for a variety of age groups and interests. Examples of events hosted this year are; Community Conservation (all ages) where the Virginia Living Museum brought native Virginia animals to educate how they contribute to the ecosystem, Adventure Vehicle Contest (11 & under) where kids contrusted vehicles out of recycled material, and Once Upon a STEAM: Going Batty for Bats (ages 4-5) where kids learned about the importance of bats in our ecosystem.	These events are advertised on the library's website; On social media	Participation and Education

Giveaways July 1, 2023 thru June 30, 2024

Doggie Poop containers w/bags

Pencils

Pens

Kitchen sink strainers

Reusable straws

Boat keychains

Reusable utensils

Stress Balls

Rain Gauges

Stickers

MEMORANDUM OF AGREEMENT
ESTABLISHING THE
HAMPTON ROADS REGIONAL STORMWATER MANAGEMENT PROGRAM

WHEREAS, Section 15.2-4200, *et seq.*, of the Code of Virginia enables local governments to establish Planning District Commissions; and

WHEREAS, the eighteen local governments that are signatories to this Agreement have acted, in accordance with Section 15.2-4200, *et seq.*, of the Code of Virginia, to establish the Hampton Roads Planning District Commission (HRPDC); and

WHEREAS, the HRPDC has been requested and has undertaken various studies to support local government stormwater management programs, including compliance with Virginia Stormwater Management Program (VSMP) Municipal Separate Storm Sewer System (MS4) Permits; and

WHEREAS, the signatory local governments have requested the HRPDC to administer and coordinate a regional stormwater management program; and

WHEREAS, pursuant to the Clean Water Act, the U.S. Environmental Protection Agency (EPA) has promulgated implementing regulations, 40 CFR Part 122, which established the National Pollutant Discharge Elimination System (NPDES) Permits for Municipal Separate Storm Sewer System (MS4) Discharges; and

WHEREAS, pursuant to the Virginia Stormwater Management Act, Section 62.1-44.15:24, *et. seq.,* of the Code of Virginia, the Board of Soil and Water Conservation has promulgated implementing regulations 9VAC25-870, et. seq., which establish the requirements that localities obtain permits for their MS4 discharges; and

WHEREAS, the majority of the eighteen signatory local governments are required by their MS4 permits to conduct certain activities, including reporting on their discharges, conducting public information and education programs, and certain other activities; and

WHEREAS, the Water Quality Monitoring and Reporting Act and implementing regulations promulgated by the State Water Control Board establish requirements for the preparation of Total Maximum Daily Load (TMDL) Implementation Plans, which apply to activities conducted by localities in general as well as activities conducted in implementing MS4 permit requirements; and

WHEREAS, the Chesapeake Bay Preservation Act and the Virginia Erosion and Sediment Control Law and implementing regulations also establish stormwater management requirements that govern one or more of the eighteen signatory local governments; and

WHEREAS, sixteen local governments and the HRPDC executed the Memorandum of Agreement Establishing the Hampton Roads Regional Stormwater Management Program on September 5, 2003 and that Agreement expired on December 31, 2007; and

WHEREAS, eighteen local governments and the HRPDC executed the Memorandum of Agreement Establishing the Hampton Roads Regional Stormwater Management Program on March 6, 2008, and that Agreement expired on June 30, 2013: and

WHEREAS, eighteen local governments and the HRPDC executed the Memorandum of Agreement Establishing the Hampton Roads Regional Stormwater Management Program on July 1, 2013, and that Agreement expired on June 30, 2018; and

WHEREAS, eighteen local governments and the HRPDC executed the Memorandum of Agreement Establishing the Hampton Roads Regional Stormwater Management Program on July 1, 2018, and that Agreement expires on June 30, 2023.

NOW THEREFORE, the signatory parties enter into the following Agreement.

This Agreement effective as of the first day of July 2023, among and between the eighteen local governments in Hampton Roads and the HRPDC, establishes and maintains the Hampton Roads Regional Stormwater Management Program.

BASIC PREMISES

All local governments in Hampton Roads operate stormwater management programs.

The Cities of Chesapeake, Hampton, Newport News, Norfolk, Portsmouth and Virginia Beach received VPDES Permits in 1996. Those permits, which were renewed in 2001, govern the discharges from their MS4s to waters of the state and impose certain operational and reporting requirements on those systems. In 2005, these permits were converted to VSMP permits. These permits must be renewed on a 5 year basis and the localities applied for renewed permits in 2005. Localities operated programs under administratively continued permits until June 30, 2016. The existing permits became effective on July 1, 2016 and have been administratively continued since June 30, 2021.

The Cities of Poquoson, Suffolk, and Williamsburg, and the Counties of Gloucester, Isle of Wight, James City, and York were all identified by the EPA as requiring VPDES permits under Phase II of the MS4 regulations. Those localities that operate MS4s obtained VPDES permits in March 2003. Those permits also imposed certain operational and reporting requirements on those systems. In 2005, these permits were converted to VSMP permits. These permits must be renewed on a 5 year basis with the next renewal planned for 2023.

On April 15, 2016, the Virginia Department of Environmental Quality notified Isle of Wight County that their Phase II MS4 Permit would be terminated because the County neither owned nor operated a small MS4 within the census-defined urbanized area. Isle of Wight County does not currently own or maintain stormwater systems outside of County-owned properties.

Although Gloucester County was initially identified by the EPA as requiring a Phase II MS4 permit, it was subsequently determined that permit coverage for Gloucester County was not required.

The City of Franklin, the Counties of Gloucester, Isle of Wight, Southampton and Surry and the Towns of Smithfield and Windsor are governed by stormwater management requirements established under the Virginia Stormwater Management Act and the Virginia Erosion and Sediment Control Law. The Chesapeake Bay Preservation Act also governs Gloucester and Surry Counties and the Towns of Smithfield and Windsor.

As of July 1, 2014, all localities have implemented stormwater management programs that meet the minimum requirements established in the Virginia Stormwater Management Act. The Virginia Stormwater Management Act imposes operational and reporting requirements on all localities that are required to implement stormwater management programs.

The local governments are interested in managing stormwater in a manner which protects and does not degrade waters of the Commonwealth and which meets locally established quality of life goals and objectives. The Clean Water Act and the VSMP require that stormwater quantity and quality be managed to the maximum extent practicable.

In carrying out their stormwater management responsibilities, the local governments have developed a consensus on regional goals to guide the operation of their stormwater management programs. Initially, as approved by the HRPDC at its Executive Committee Meeting of September 15, 1999, these goals are to:

1. Manage stormwater quantity and quality to the maximum extent practicable, including:

    - Implement best management practices (BMPs) and retrofit flood control projects to provide water quality benefits.
    - Support site planning and plan review activities.
    - Manage pesticide, herbicide and fertilizer applications.

2. Implement public information activities to increase citizen awareness and support for the program.

3. Meet the following needs of citizens:

    - Address flooding and drainage problems.
    - Maintain the stormwater infrastructure.
    - Protect waterways.
    - Provide the appropriate funding for the program.

4. Implement cost-effective and flexible program components.

5. Satisfy MS4 stormwater permit requirements:

- Enhance erosion and sedimentation control.
- Manage illicit discharges, spill response, and remediation.

This Agreement establishes the administrative framework, which will be used by the local governments in Hampton Roads to address certain stormwater management requirements under the above-cited state and federal laws and regulations.

Eighteen local governments in the Hampton Roads Region will be participants in and signatories to the Agreement.

HRPDC RESPONSIBILITIES

Under the terms of this Agreement, the HRPDC staff must:

- Provide technical support and policy analysis related to stormwater and water quality issues to local government staff.

- Provide the necessary administrative, technical and clerical resources to support program activities to ensure that the MS4 permit-holding cities and counties meet applicable stormwater management requirements.

- Prepare an annual work program and budget for the Hampton Roads Regional Stormwater Management Program. The annual work program will be incorporated into the HRPDC Unified Planning Work Program and the annual budget will be incorporated into the HRPDC budget.

- Assist the signatories in coordinating reporting on stormwater related activities to other state and federal agencies to ensure that program requirements are met in a cost-effective manner, that minimizes duplicative reporting and the administrative burden on the signatories.

- Conduct a regional stormwater education program. This will include public education activities and may include outreach to specific economic sectors and groups. The stormwater education subcommittee of askHRgreen.org will be responsible for guiding the development of original materials, including publications, media advertising and promotional items. This may also include development of locality-specific materials or coordination of bulk purchases. The stormwater education subcommittee of askHRgreen.org will coordinate with HRPDC staff on the educational and outreach components of the Hampton Roads Regional Stormwater Management Program.

- Develop and conduct a regional training program for municipal employees, contractors, civic leaders, and other interested parties. The training program will emphasize stormwater management, pollution prevention and permit issues.

- Respond equitably and in a timely fashion to requests from all signatory local governments for technical assistance. The time frame for responses will be based on experience, the complexity of individual requests and the overall work load of program staff.

- Provide other technical support, as requested, to the signatory local governments.

- Upon request from one or more participating localities, conduct technical studies to support compliance by the localities with MS4 permit requirements and VSMP program requirements.

- Facilitate development of multi-jurisdictional management plans for shared watersheds, as requested.

- Take steps, in conjunction with the signatory local governments, to obtain financial support for program activities from outside sources, including state, federal and private grants, to the extent that this may be accomplished without creating a conflict of interest, as determined by the signatory local governments.

- Contract with and manage consultants, including both private firms and academic institutions, to support the regional program, including provision of requested services to local governments in excess of the common program elements.

- Represent the Hampton Roads Regional Stormwater Management Program at federal, state, regional and local governmental, civic, professional and political organizations, agencies, and committees.

- Provide technical and administrative support, as appropriate, to those localities that are required to develop stormwater management programs to meet VSMP requirements, but that are not required to obtain MS4 permits for their stormwater discharges.

- Prepare annual program reports, or components thereof, which comply with the provisions of the MS4 permits and stormwater management programs of the signatory localities.

- Facilitate local government involvement in TMDL studies being prepared through the Virginia Department of Environmental Quality and EPA and facilitate preparation of TMDL Implementation Plans for impaired waters in the Hampton Roads Region as requested.

- Prepare an annual report of activities undertaken through the Hampton Roads Stormwater Management Program. This report will include summaries of related activities undertaken on a cooperative basis by the signatories.

- Identify state and federal regulatory actions that may affect local government stormwater programs, serve on regulatory advisory panels (RAPs) as necessary,

conduct policy analysis, and develop policy recommendations on behalf of the HRPDC.

- Coordinate the compilation of regional data for MS4 permit annual reports to the appropriate regulatory authority, as appropriate.

LOCAL GOVERNMENT RESPONSIBILITIES

Under the terms of the Agreement, the signatory local governments must:

- Participate, as appropriate, in the Regional Environmental Committee to represent the local government's respective stormwater and water quality related concerns.

- Appoint a representative and alternates, as appropriate, to the stormwater education subcommittee of askHRgreen.org.

- Provide, in a timely fashion, all locally generated data required by their MS4 permits and such other data as may be necessary to accomplish locally requested services.

- Provide timely technical review of HRPDC analyses and conclusions.

- Participate in regional efforts to conduct public outreach and education activities regarding the Commonwealth's TMDL study process and efforts to develop TMDL Implementation Plans for impaired waters lying within the locality or within watersheds that include the locality.

- Provide input on regulatory issues to HRPDC staff and serve on RAPs or provide input to the regional RAP representative as appropriate.

- Reasonably support HRPDC efforts to obtain additional funding to support the regional programs to the extent that this may be accomplished without creating a conflict of interest, as determined by the signatory local governments.

- Provide annual funding to support the agreed-upon regional program, subject to annual appropriation.

METHOD OF FINANCING

The majority of program costs will be allocated according to a formula reflecting each locality's share of the regional population. Costs for additional projects or services will be allocated based on a formula developed by the HRPDC staff and approved by the HRPDC with the concurrence of the signatory local governments. For example, in the past, the cost of legal services have been split between the localities with MS4 permits and the

maintenance costs for the regional online BMP database were split by the subset of localities still using the system.

AVAILABILITY OF FUNDS

Performance by the HRPDC of its responsibilities under this Agreement is subject to the availability of funding from the signatory local governments. Failure of the local governments to provide the necessary funding to support these activities will constitute a Notice to Modify or Terminate the Agreement.

MODIFICATIONS

Modifications to this Agreement must be expressly written, approved by the HRPDC, and accepted by all signatories.

DURATION AND TERMINATION

This Agreement will have a term of ten years, extending from the date of full execution of the Agreement by the signatories or July 1, 2023 whichever occurs last through June 30, 2033. To conform to local government charter and Virginia Code requirements, the funding provisions of this Agreement are subject to annual appropriations.

No later than September 1, 2032, the signatories will institute a formal reevaluation of the Hampton Roads Regional Stormwater Management Program. This reevaluation will serve as the basis for appropriate modification of the Agreement and the Hampton Roads Regional Stormwater Management Program.

Any signatory may terminate its participation in the Hampton Roads Regional Stormwater Management Program by sending a written Notice To Terminate to all other parties. Such termination will be effective the start of the following Fiscal Year. Depending upon the terms of individual VSMP permits, termination of participation in the Hampton Roads Regional Stormwater Management Program in the middle of a permit term may result in changes to permit conditions and require renegotiation of the individual locality's VSMP permit from the Virginia Department of Environmental Quality.

OWNERSHIP OF PROPERTY

It is not the intent of the signatories that the Agreement will result in the purchase, ownership, leasing, holding, or conveying of any form of interest in any real property.

INDEMNITY

It is the intent of the signatories that no signatory will be held liable for any damage or associated penalties caused by or associated with the failure of any other signatory to discharge its duties or to exercise due diligence in discharging its duties under this Agreement, and that no signatory, by entering this Agreement, waives any defenses or immunities available to it at law, including, but not limited to, those set forth in Section 15.2-970 of the Code of Virginia.

It is the intent of the signatories that no signatory will be held liable for any damage or associated penalties caused by or associated with the failure of any other signatory to comply with the terms and conditions of the signatory's VSMP permit.

NO INTENT TO BENEFIT THIRD PARTIES

This Agreement is intended for the benefit of the parties hereto and is not for the benefit of, nor may any provision hereof be enforced by, any other person or entity.

COUNTERPARTS

This Agreement may be executed in any number of counterparts, and each counterpart signature, when taken with the other counterpart signatures, is treated as if executed upon one original of this Agreement.

LIST OF SIGNATORIES

Signature pages will be signed in counterparts.

CITY OF CHESAPEAKE

CITY OF FRANKLIN

GLOUCESTER COUNTY

CITY OF HAMPTON

ISLE OF WIGHT COUNTY

JAMES CITY COUNTY

CITY OF NEWPORT NEWS

CITY OF NORFOLK

CITY OF POQUOSON

CITY OF PORTSMOUTH

SOUTHAMPTON COUNTY

CITY OF SUFFOLK

SURRY COUNTY

CITY OF VIRGINIA BEACH

CITY OF WILLIAMSBURG

YORK COUNTY

TOWN OF SMITHFIELD

TOWN OF WINDSOR

HAMPTON ROADS PLANNING DISTRICT COMMISSION

This listing of participants will be followed by individual signature pages.

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF CHESAPEAKE

By: _____

Date: 6.21.23

Date: 6.21.23

Attest: Sandra Madison

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF FRANKLIN

By: Amanda C. Jarratt

Date: 3/22/23

Date: 3/22/23

Attest: C. Elaine Jones

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

GLOUCESTER COUNTY

By: _____

Date: 5/15/2023

Date: 5/15/2023

Attest: Patricia L Crown

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF HAMPTON

By: _____

Date: 6/29/2023

Date: 6/29/2023

Attest: _____

Approved as to content.
Date: 6/2/2023
_____
Public Works

CITY OF HAMPTON
OFFICE OF THE CITY ATTORNEY
Approved as to form and legal sufficiency
Date: 6/2/2023
_____
Dep. City Attorney

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

ISLE OF WIGHT COUNTY

By: _____

Date: 7/6/23

Date: 7-6-2023

Attest: Amber T. Johnson

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

JAMES CITY COUNTY

APPROVED AS TO FORM

COUNTY ATTORNEY

By: _____

Date: 5-1-2023

Date: 5-1-2023

Attest: _____

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF NEWPORT NEWS

By: Cynthia D. Rohlf

Date: 6/26/2023

Date: 6/27/2023

Attest: Mabel Washington Jenkins

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF NORFOLK

By: _____

Digitally signed by: Dr. Larry H. Filer II
DN: CN = Dr. Larry H. Filer II email = chip.filer@norfolk.gov C = US O = City of Norfolk
Date: 2023.06.09 12:03:13 -04'00'

Date: June 9, 2023

Date: 6/13/2023

Attest: _____
DocuSigned by:
7585E61B85734CE...

Approved as to Form & Correctness:

_____
Margaret A. Kelly, Assistant City Attorney

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF POQUOSON

By: James R Wheel

Date: 3/23/2023

Date: 3/23/23

Attest: Prudence M Sapp

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF PORTSMOUTH

By: _____

Date: 6/1/2023

Date: 6/21/23

Attest: _____

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

SOUTHAMPTON COUNTY

By: _____

Date: 3/20/23

Date: 3/20/2023

Attest: _____

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF SUFFOLK

By: _____

Date: 4/27/2023

Date: 4/28/2023

Attest: _____

Approved as to Form:

_____
Deputy City Attorney

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

SURRY COUNTY

By: _____

Date: 7/10/2023

Date: 7/10/2023

Attest: _____

OFFICE OF THE
SURRY COUNTY ATTORNEY
Approved as to form and legal sufficiency
Date: 7/7/23

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF VIRGINIA BEACH

By: _____

Date: 6/7/2023

Date: _____

Attest: _____

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF WILLIAMSBURG

By: _____

Date: 4/12/2023

Date: 4.17.23

Attest: Justin McCoy

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

YORK COUNTY

By: _____

Date: 4/26/23

Date: 4/26/23

Attest: _____

Approved as to form:

_____
County Attorney
4/25/23

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

TOWN OF SMITHFIELD

By: _____

Date: 4/5/2023

Date: 4-5-2023

Attest: Leslie King

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

TOWN OF WINDSOR

By: _____

Date: April 6, 2023

Date: April 6, 2023

Attest: Terry Whitehead

IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

HAMPTON ROADS PLANNING
DISTRICT COMMISSION

By: _____

Date: 3/22/23

Date: 3/22/23

Attest: _____

REGIONAL COOPERATION IN STORMWATER MANAGEMENT

FISCAL YEAR 2024

A STATUS REPORT

This report was included in the HRPDC Work Program for FY 2024, approved by the Commission at its Executive Committee Meeting on May 18, 2023

Prepared by the staff of the
Hampton Roads Planning District Commission
in cooperation with the
Regional Stormwater Workgroup

September 2024

REPORT DOCUMENTATION

TITLE
Regional Cooperation in Stormwater Management Fiscal Year 2024: A Status Report

REPORT DATE
September 2024

GRANT/SPONSORING AGENCY
LOCAL FUNDS

AUTHORS
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http://www.hrpdcva.gov

ABSTRACT

This document describes cooperative activities related to stormwater management undertaken by Hampton Roads local governments during Fiscal Year 2024. The activities described include the regional information exchange process, public information and education, legislative and regulatory issues, cooperative regional studies and related programs. This document is used by the region's eleven localities with municipal stormwater permits to assist them in meeting their permit requirements.

ACKNOWLEDGMENTS

The Hampton Roads Planning District Commission, in cooperation with the Regional Stormwater Workgroup, prepared this report.

Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2024, approved by the Commission at its Executive Committee Meeting of May 18, 2023.

The seventeen-member local governments through the HRPDC Regional Stormwater Management Program provided funding.

INTRODUCTION

Working through the Hampton Roads Planning District Commission (HRPDC), the region's seventeen-member cities, counties, and town (Figure 1) cooperated on a variety of stormwater management activities during Fiscal Year (FY) 2024. The activities documented in this report represent a continuation of ongoing efforts since 1992. This cooperation has been underway as a formal adjunct to the Virginia Pollutant Discharge Elimination System Permits (VPDES) for Municipal Separate Storm Sewer Systems (MS4) held by the Cities of Chesapeake, Hampton, Newport News, Norfolk, Portsmouth, and Virginia Beach since Fiscal Year 1996. The Cities of Suffolk, Poquoson, Williamsburg, and the Counties of James City County, Isle of Wight, and York joined in 2002 to coordinate Phase II MS4 permit applications.

As of April 19, 2016, the Phase II MS4 permit for Isle of Wight County was terminated by the Department of Environmental Quality (DEQ). It was determined that the County does not own or operate a MS4 within the Census Urbanized Area.

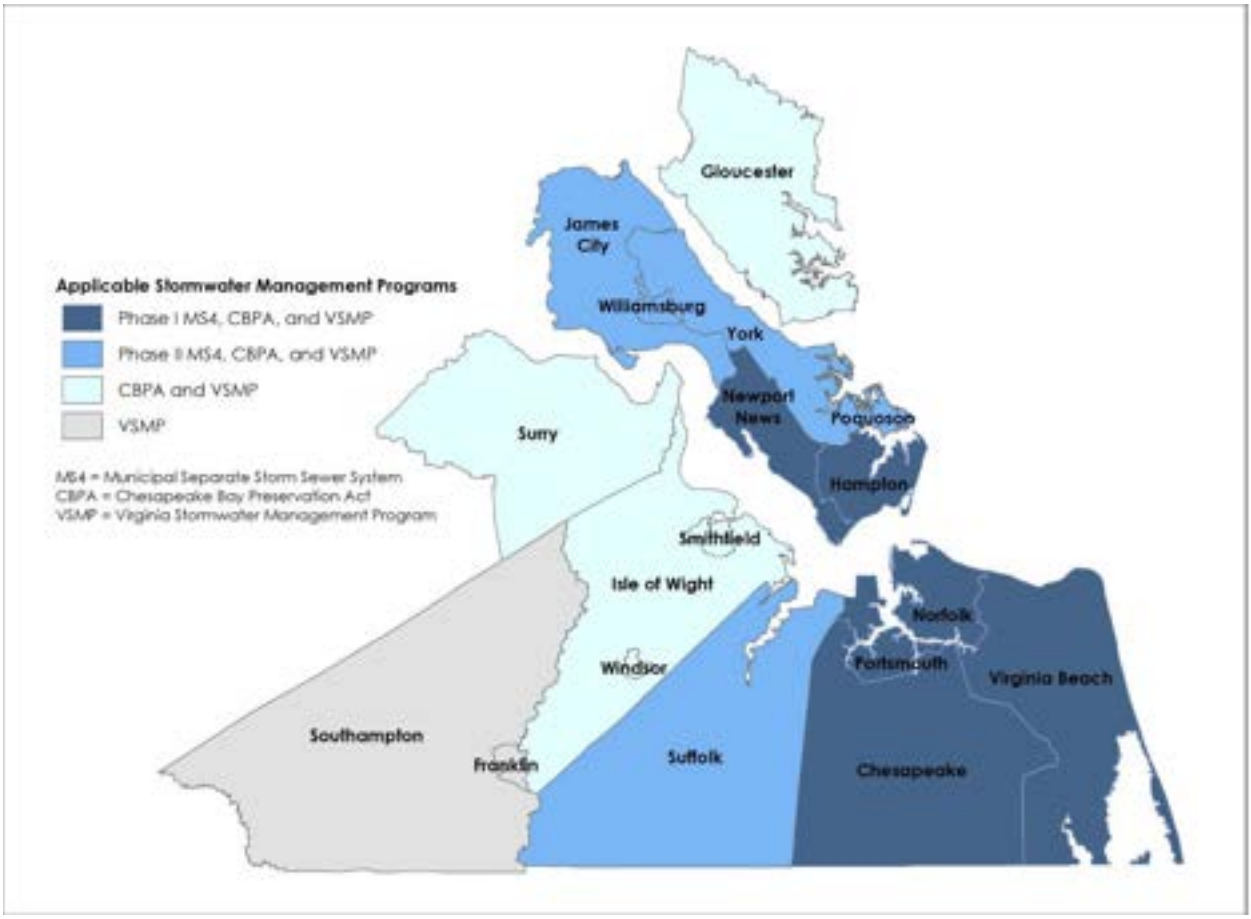

Figure 1

REGIONAL STORMWATER MANAGEMENT PROGRAM GOALS

The HRPDC and local stormwater staffs undertook a comprehensive effort in FY 1999, called the Regional Loading Study. The project included developing a set of regional stormwater management goals to guide the regional program. The goals were presented to and adopted by the HRPDC at its Executive Committee Meeting in September 1999. They were reaffirmed in the January 2003 approval of the "Memorandum of Agreement (MOA) Establishing the Hampton Roads Regional Stormwater Management Program" and the renewal of the MOA in 2008, 2013, 2018, and 2023. The adopted Regional Stormwater Management Program Goals, which guide the regional program, are:

- Manage stormwater quantity and quality to the maximum extent practicable (MEP).
  - Implement best management practices (BMPs) and retrofit flood control projects to provide water quality benefits.
  - Support site planning and plan review activities.
  - Manage pesticide, herbicide, and fertilizer applications.
- Implement public information activities to increase citizen awareness and support for the program.
- Meet the following needs of citizens:
  - Address flooding and drainage problems.
  - Maintain the stormwater infrastructure.
  - Protect waterways.
  - Provide the appropriate funding for the program.
- Implement cost-effective and flexible program components.
- Satisfy VPDES stormwater permit requirements.
  - Enhance erosion and sedimentation control.
  - Manage illicit discharges, spill response, and remediation.

THE REGIONAL PROGRAM

The Regional Stormwater Management Program initially focused on activities that supported the permit compliance efforts of the six communities with Phase I VPDES MS4 Permits, technical assistance to the region's non-permitted communities and regional education and training to support all the communities. The program expanded to include the needs of the five communities with Phase II VPDES MS4 permits and the locally administered Stormwater Programs, which were required starting July 1, 2014.

Phase I MS4 Permittees

After seven years under the 2016 Phase I MS4 permits, new permits were issued in FY 2024. The permit effective dates for the Hampton Roads Phase I permits range from January 22 to February 1, 2024. FY 2024 represents the first year of the five-year permit cycle. The annual regional

coordination meeting with the Virginia Department of Transportation (VDOT) was held on June 6, 2024 at the Regional Building.

Phase II MS4 Permittees

The Phase II General Permit was reissued on November 1, 2023. FY 2024 represents the first year of the five-year permit cycle.

Both the Phase I and Phase II MS4 permittees continue to implement their local Stormwater Programs, train staff on stormwater issues, and meet education and outreach requirements. HRPDC staff provided information and coordinated training to assist with these efforts. More detailed descriptions are available in the *Training* section of this report. The regional environmental education initiative, askHRgreen.org, conducted stormwater outreach campaigns for pet waste pickup, environmentally friendly leaf and lawn care, and "Only Rain Down the Storm Drain" messaging.

INFORMATION EXCHANGE

The cornerstone of the Regional Stormwater Management Program continues to be the exchange of information. This is accomplished through regular monthly meetings to address topics of regional importance, as well as crosscutting issues that affect local stormwater, planning, public works, and public utilities staff. In addition, various agencies and organizations utilize this regional forum to engage and inform local governments, as well as to gather feedback.

Regional Environmental Committee

The seventeen communities participate in the HRPDC Regional Stormwater Management Program and their staffs meet regularly. The HRPDC Regional Environmental Committee meets monthly and includes local stormwater and planning staff plus cooperating agencies such as the DEQ, the Virginia Department of Forestry (VDOF), VDOT, the Hampton Roads Sanitation District (HRSD), the Port of Virginia, local nonprofit organizations, and local consultants. The meetings cover a variety of planning, environmental, and water quality topics of interest.

Representatives of state and federal agencies frequently brief the Committee on developing issues, regulatory guidance, and technical programs. During the September 7, 2023 meeting, representatives from the Virginia Department of Wildlife Resources, United States Geological Survey (USGS), and the National Oceanic and Atmospheric Administration delivered presentations on the Wildlife Corridor Action Plan, regional monitoring projects, and the York River and Coastal Basin Roundtable, respectively. During the October 5, 2023 meeting, a representative from DEQ shared an update on the ramifications of the Sacket wetlands decision. During the March 7, 2024 meeting, a representative of DEQ presented an overview of available grant funding for land acquisition and habitat restoration. And on May 5, 2024, a representative from VDOF briefed the Committee on the Statewide Riparian Forest Buffer Action Plan.

Regional Stormwater Workgroup

The Regional Stormwater Workgroup typically meets monthly, and the meetings provide an opportunity for local stormwater managers to exchange information about successful program activities, utility structures and policies, and technical challenges. Eleven meetings were held in FY 2024.

The Workgroup discussions were focused on DEQ's stormwater initiatives including the Stormwater Handbook, the revised Virginia Runoff Reduction Method, new Phase I and Phase II MS4 permits, the new Construction General Permit, the consolidated Virginia Erosion and Stormwater Management Program regulations, etc. More information on these initiatives is included in the Policy Monitoring and Regional Studies sections of the report.

Regional Chesapeake Bay Preservation Area Workgroup

Fifteen of the seventeen HRPDC member localities implement Chesapeake Bay Preservation Area (CBPA) programs, many of them since 1990. DEQ has completed compliance reviews of the region's local programs every five years since they were initiated.

The Regional CBPA Workgroup met three times during FY 2024, including in October 2023, January 2024, and April 2024. The Workgroup submitted regional comments on the third draft of the coastal resilience guidance in May. More information is presented in the Policy Monitoring section of this report.

Development and Stormwater Subcommittee

As the effective date of the consolidated Virginia Erosion and Stormwater Management (VESM) regulation was approaching, HRPDC staff was asked to facilitate a regional discussion on how localities manage stormwater requirements on private construction projects. The Development and Stormwater Subcommittee met for the first time in May 2024 and discussed single family residential projects and adoption of the VESM ordinance. The group intends to meet quarterly moving forward.

PUBLIC EDUCATION

askHRgreen.org

The HR STORM committee, consisting of local stormwater education/public information staff, was established in 1997 to support development and operation of the stormwater education program. Beginning in FY 2011, the HRPDC environmental education programs were combined into a single public awareness program and central resource for environmental education in Hampton Roads known as askHRgreen.org. FY 2024 marked the 12th anniversary of askHRgreen.org.

The stormwater education subcommittee of askHRgreen.org continues to meet monthly to develop strategies to fulfill the outreach requirements of the Phase II MS4 General Permit and

many of the outreach objectives of the individual Phase I MS4 permits. During FY 2024, the committee promoted Stormwater Awareness Week, developed a new campaign for Only Rain Down Storm Drain, and promoted the responsible management of fall leaves and pet waste. More information is provided in the askHRgreen.org Annual Report.

TRAINING

Since 2004, HRPDC staff has worked with the MS4 permittees to develop and facilitate stormwater and resiliency training programs for local government staff.

Center for Watershed Protection Group Membership

Over the last several years, the Stormwater Managers have found the annual Center for Watershed Protection (CWP) webcast series to be useful and informative. The Regional Stormwater Workgroup purchased a group membership in January 2024 that made 75 local government staff across the region members of CWP. Benefits of membership include access to the webcast series, access to lunch-and-learn presentations, and conference discounts. HRPDC staff manages the coalition membership. In calendar year 2022, CWP permitted the region to have 100 local staff as part of the group membership, however in calendar year 2023, they changed their policy and limited our total to 75 members. The City of Virginia Beach acquired their own local government membership in 2023 and maintained it through 2024, which made 75 spots available to the other localities.

The CWP webcasts during FY 2024 covered the following topics of interest: 1) behavior change for stormwater and wastewater, 2) stormwater standards in the U.S., 3) methods to address pollution sources from municipal practices, 4) stakeholder engagement, 5) maintaining forests in stream restoration, 6) illicit discharge, detection, and elimination, 7) stormwater funding, 8) new tools for stormwater management, and 9) design with maintenance in mind.

Training Resources

Since FY 2021, HRPDC staff regularly compiles a list of training opportunities and conferences related to stormwater management, resiliency, urban forestry, wetlands, etc. to help Regional Stormwater Workgroup members stay informed and take advantage of the offerings. Each week throughout FY 2024, HRPDC staff distributed an updated list of online and in-person training events that includes the provider, the schedule, the cost, and the registration links.

POLICY MONITORING

This element of the program involves monitoring state and federal legislative and regulatory activities that may impact local stormwater management programs. The level of effort devoted to this element has increased significantly over the years. During FY 2024, HRPDC staff has participated and tracked the following state regulatory actions and guidance development: 1) 2024 Construction General Permit, 2) 2023 Phase II MS4 General Permit negotiations, 3) Phase I MS4 permit reissuances, 4) Erosion and Stormwater Management Program consolidated regulations, 5) the Stormwater Handbook, 6) revisions to the Virginia Runoff Reduction Method

and the post-construction water quality criteria, and 7) Chesapeake Bay Preservation Act guidance. HRPDC staff provided updates to the Regional Stormwater Workgroup and/or the Regional Environmental Committee, collected input from local practitioners, and when appropriate, submitted comments on behalf of the region.

2024 VPDES Construction Stormwater General Permit

The 2019 Construction General Permit (GP) (9VAC25-880) expired on June 30, 2024. In July 2022, the DEQ convened a Technical Advisory Committee (TAC) to assist in developing the draft 2024 Construction GP, and HRPDC staff participated. Four meetings were held in FY 2023.

A primary driver for changes to the 2024 Construction GP was EPA's 2022 Construction GP, which includes requirements for benchmark turbidity monitoring of construction dewatering activities that discharge to sediment-impaired waters. Evaluating options for including a similar requirement in Virginia's permit was a central issue throughout TAC discussions. While EPA's permit requires averaging the results of daily samples over a week, the DEQ draft proposal included a threshold of 50 NTUs for a single daily sample. If the benchmark is exceeded, permittees would be required to add more or different technology-based controls. Another option proposed by DEQ was to measure the difference in the receiving waters before and after the discharge, and if the difference exceeds 10 NTUs, the permittee would be required to add or update the controls.

At the June 22, 2023 State Water Control Board (SWCB) meeting, the DEQ proposed the draft of the 2024 Construction GP, and the Board approved moving forward. The draft was published in the August 14, 2023 Virginia Register, which initiated a 60-day formal public comment period.

The HRPDC submitted a regional comment letter on October 13, 2023, which highlighted several concerns with the draft Construction GP. The most significant issue was the inclusion of turbidity benchmark monitoring for construction dewatering activities. The letter outlined several problems with the proposed monitoring options and included a strong recommendation to preserve the technology-based control requirement in the 2019 Construction GP.

Despite local governments, VDOT, and developers advocating against including turbidity monitoring requirements, the DEQ kept the requirement and adjusted the options. The final draft permit included four options for turbidity benchmark monitoring: 1) if the difference between the upstream sample and the discharge point exceeds 50 NTU, the permittee takes corrective action, 2) if any discharge sample exceeds 150 NTU, the permittee takes corrective action, 3) if the weekly average of the discharge samples exceeds 50 NTU, the permittee takes corrective action, and 4) request an alternative benchmark from the DEQ.

DEQ proposed the final draft of the 2024 Construction GP to the SWCB at their February 23, 2024 meeting. The Board approved the changes, and the permit became effective on July 1, 2024.

2023 Phase II MS4 General Permit

The 2018 Phase II MS4 GP expired on October 31, 2023. The DEQ convened a TAC, which included representatives from the City of Suffolk and the HRPDC. The TAC met eight times during FY 2022 and FY 2023. The changes from the 2018 permit include: 1) requirements for using the e-reporting system for annual reporting, 2) clarification language specific to non-traditional permittees, 3) new reporting requirements for progress towards the Bay TMDL, and 4) new pollution prevention standard operating procedures. With SWCB approval, the DEQ published the draft general permit in the Virginia Register and initiated a formal public comment period.

HRPDC staff submitted a regional comment letter on April 14, 2023. The primary concerns were additional requirements for standard operating procedures in Minimum Control Measure 6 and determining which high priority facilities require Stormwater Pollution Prevention Plans.

Throughout the TAC meetings, the DEQ maintained that the definition of MS4 service area would be based on the 2010 Census urbanized area. However, on June 20, 2023, DEQ sent an email to VAMSA explaining that they had revised the definition of MS4 service area in the proposed permit to incorporate the 2020 Census. Of particular concern was the requirement for permittees to develop an updated service area map that includes 2020 Census urban areas with a population of at least 50,000 and any previous decennial census within 24 months. No previous permit required a lookback to all previous decennial census.

The DEQ presented a final draft of the Phase II MS4 GP to the SWCB at their August 23, 2023 meeting. Though several concerning requirements remain in the permit, the addition of the 2020 Census and any previous decennial census at the final hour was the most problematic. VAMSA and HRPDC staff flagged the concerns with the revisions to the MS4 service area definition, and the DEQ incorporated errata changes that limited the lookback to the 2000, 2010, and 2020 census. The SWCB approved the changes, and the Phase II MS4 GP became effective on November 1, 2023.

Phase I MS4 Reissuances

Except for the Arlington County permit, the ten remaining Phase I MS4 permits had been administratively continued since 2021. In October 2022, to streamline the reissuances, the DEQ proposed that the remaining Phase I MS4 permits include a compressed timeline for 100% Bay TMDL compliance but minimal additional requirements. The Phase I MS4 permittees across the Commonwealth coordinated with VAMSA to determine whether they could agree to the concept. VAMSA proposed various scenarios back to the DEQ, recognizing that most of Phase I MS4s statewide have nutrient trading options with wastewater facilities that would allow them to meet a tighter timeline for Bay TMDL compliance. The Phase I MS4 permittees generally agreed. In June 2023, the DEQ sent a draft of Fairfax County's permit to County representatives and to VAMSA, explaining that the remaining Phase I MS4s should consider the Fairfax County permit to be a strawman of the changes they could expect in their own permits. There were significant concerns because the DEQ had granted only 14 days to reply with their comments and the

changes in addition to the Bay TMDL timeline were substantial, despite the agreement that they would not be. VAMSA coordinated a meeting with the Phase I MS4s and DEQ Central office staff to discuss the concerns, which was held on July 14, 2023.

The negotiation process moved quickly, and the DEQ began issuing draft Phase I MS4 permits to the Hampton Roads permittees in the Fall of 2023. The Cities of Chesapeake and Newport News were first, then Portsmouth and Norfolk, and finally Hampton and Virginia Beach. The permittees each followed a similar process and schedule. The DEQ provided an initial draft and asked for comments within 14 days. However, several permittees asked for an extension of that timeline and were granted some additional time. DEQ representatives met with each permittee after reviewing their initial comments. The final draft permits were then public-noticed for 30 days before becoming effective.

There were several new requirements in the draft permits that caused concern. The most significant point of contention was the compliance metric for stormwater infrastructure inspections. Instead of requiring a specific number of structures and number of miles of stormwater system inspections, the proposed draft permits required at least 15 percent of the system to be inspected annually and 100 percent inspected over the permit cycle. After several rounds of edits between the DEQ and the permittees, VAMSA, and HRPDC, the DEQ revised the requirement and included a compromise. Permittees are to either: 1) implement a department-approved prioritization inspection program, or 2) inspect no less than 15 percent of the stormwater system annually and no less than 80 percent of the system during the permit term.

The permit effective dates for the six Hampton Roads Phase I MS4 permits range from January 22 to February 1, 2024. They include a requirement to meet 100 percent of the Chesapeake Bay pollutant reduction requirements by June 30, 2028.

Virginia Erosion and Stormwater Management Program Regulation

The DEQ convened a Regulatory Advisory Panel (RAP) to develop regulations in response to the 2016 consolidated law, the Virginia Erosion and Stormwater Management Act (VESMA). The charge was to develop a combined regulation that is easier to follow without altering the technical requirements of the existing Erosion and Sediment Control (ESC) and Stormwater Management (VSMP) regulations. HRPDC staff and representatives from the Cities of Chesapeake and Suffolk served on the RAP, which met five times between June and December in 2019. Due to staffing challenges and delays due to COVID-19, there was no activity for two-and-a-half years. Then in late FY 2022, for the first time in the process, the DEQ provided a comprehensive draft of the consolidated regulation for RAP members to review. Two meetings were held in FY 2023, on July 15 and September 13.

While the consolidated regulations do not contain changes to the technical requirements, localities will still be required to update their stormwater management ordinances and other documents. Localities who are currently Virginia Stormwater Management Program (VSMP)

Authorities will transition to Virginia Erosion and Stormwater Management Program (VESMP) Authorities. Some localities manage their own stormwater programs but have DEQ staff complete plan reviews, and those localities will need updates to their ordinance as well. And finally, localities who have opted out of managing a local stormwater program will need an updated ordinance for their Virginia Erosion and Sediment Control Program.

The HRPDC submitted regional comments on the consolidated regulation on April 10, 2023. The primary concern was to ask the DEQ to commit to a timeline for providing the model ordinances, recognizing that it often requires 12 or more months to get ordinance updates adopted.

The DEQ provided the model ordinances for each program type on December 27, 2023, giving localities six months for adoption. Though some localities across the Commonwealth were able to get the ordinance adopted by July 1, 2024, many others will adopt them in the next several months.

The approved consolidated VESM regulations and the corresponding model ordinances still refer to the 0.41 pounds of total phosphorous per year per acre water quality standard, version 3.0 of the Virginia Runoff Reduction Method (VRRM), and the BMP Clearinghouse for BMP design specifications. During the June 25, 2024 SWCB meeting, the DEQ requested that the Board approve a fast-track regulatory action to replace these requirements with the 0.26 pounds of total phosphorous per year per acre standard, version 4.1 of the VRRM, and the Stormwater Handbook, respectively. The Board granted their request. The next step will be to publish the updated VESM regulation in the Virginia Register, which will initiate a formal public comment period.

Virginia Stormwater Handbook

The DEQ updated the stormwater and erosion and sediment control (ESC) manuals, both of which were finalized in the 1990s. They convened a Stakeholder Advisory Group (SAG) in June 2022 and hired a consultant, Arcadis, to aid in the development of the new manual, the Stormwater Handbook. The SAG met approximately monthly in FY 2023 and included representatives from the Cities of Chesapeake, Hampton, and Virginia Beach and HRPDC. Stakeholders were grouped into several subcommittees, including: 1) BMPs, 2) calculations, 3) outline and chapters, and 4) planning, production, and outreach. The focus of the discussions was updating the design specifications for the existing approved ESC and stormwater management practices and developing design specifications for new practices. The new ESC practices include compost filter socks, straw wattles, and storm drain inlet protection, and the new post-construction stormwater BMPs are regenerative stormwater conveyance and trees as BMPs.

The DEQ released the draft Stormwater Handbook 1.0 for a 30-day public comment period beginning February 26, 2024 and ending March 27, 2024. The HRPDC submitted a regional comment letter that highlighted concerns with the transition period and future revisions. The cover memo included with the draft Handbook indicated that there would be a transition period to allow plans submitted between July 1, 2024 to June 30, 2025 to use either the existing

requirements or version 1.0 of the Handbook. There is some concern that the regulatory updates needed to require use of the Handbook may not go into effect until after July 1, 2025, and it was suggested that the transition period be extended until the regulatory updates are effective. Also included in the regional letter was a request for: 1) the DEQ provide clarity on how and when changes to the Handbook will be prioritized and 2) a seat for HRPDC staff on the Handbook review committee.

The DEQ has emphasized their intent to keep the Handbook a living document with regular updates. On July 15, 2024, the DEQ released a draft of version 1.1 of the Stormwater Handbook, along with a list of revisions from versions 1.0 to 1.1, for a 30-day public comment. No changes were made to the BMP specifications, so it was not expected to impact plans that were in progress. The DEQ established the Technical Review Committee (TRC) to discuss updates to the Handbook. HRPDC staff will serve on the TRC, and the first meeting is scheduled for August 12, 2024.

Virginia Runoff Reduction Method and Target Phosphorus Load

The DEQ has updated the VRRM and the target phosphorous load. They first presented the proposed changes at the May 2023 Stormwater Handbook SAG meeting and initiated a 60-day informal comment period on June 22, 2023. The draft VRRM 4.0 included updated loading rates by land use, an additional land cover classification – mixed open, and additional BMP design specifications. The HRPDC submitted a comment letter on August 15, 2023 that detailed several concerns with the draft VRRM 4.0, as it appeared to: 1) provide less of an incentive to protect forested and natural lands, 2) lead to fewer BMPs being implemented, and 3) have a negative impact on local water quality. The updates also relied on older data from the Chesapeake Bay model and did not include considerations for increased intensity and frequency of rainfall. Furthermore, there was still a concern that VRRM 4.0 and the updated target phosphorous load, 0.26 pounds of TP per acre per year, could not be required until the regulations were also updated.

The DEQ considered the comments provided and made changes to the VRRM. The new draft, VRRM 4.1, was made available for public comment in February 2024. The HRPDC submitted a regional comment letter on March 27, 2024 that asked the DEQ to reconsider the methodology used to develop the new VRRM and take into account: 1) the state of the science on loading rates, 2) new research on soil compaction, 3) pollutants other than phosphorus, and 4) the impacts of increased intensity, duration, and frequency of precipitation. Additionally, there was a request for the DEQ to form a Regulatory Advisory Panel when the regulatory action to incorporate the new VRRM and the new target total phosphorous load is initiated.

During the June 25, 2024 meeting, the SWCB approved the DEQ's request to move forward with a fast-track regulatory process to incorporate the 0.26 pounds of total phosphorous per acre per year threshold, the new Stormwater Handbook, and version 4.1 of the VRRM into the VESM

regulations. The Board granted their request. The next step will be to publish the updated VESM regulation in the Virginia Register, which will initiate a formal public comment period.

Virginia CBPA Designation and Management Regulation

Chapter 1207 of the 2020 Acts of Assembly amended the Chesapeake Bay Preservation Act ("Bay Act") to include "coastal resilience and adaptation to sea level rise and climate change" and "the preservation of mature trees or planting of trees as a water quality protection tool and as a means of providing other natural resource benefits" to the criteria requirements for use by local governments in granting, denying, or modifying requests to rezone, subdivide, or use and develop land in CBPAs. Adding these new criteria necessitated updates to the CBPA Designation and Management regulation. The final regulatory amendments became effective on September 29, 2021 and localities had three years to implement the changes to their programs.

The DEQ had a grant to work with the Virginia Institute of Marine Science (VIMS) and the Virginia Coastal Policy Center (VCPC) to develop guidance to assist local governments in implementing the coastal resilience provisions of the CBPA Designation and Management regulation. The stakeholder group, including HRPDC staff and representatives from the Cities of Hampton and Virginia Beach, met twice during FY 2022.

In conjunction with the Regional CBPA Workgroup, HRPDC staff submitted extensive comments on the first draft of the guidance on May 4, 2022, which featured the following priority concerns: 1) the lack of instructions for local government implementation, 2) overstepping the requirements included in the regulation, and 3) the need for examples and instructions for the resilience assessment.

The DEQ provided a revised draft of the guidance on September 6, 2022. While several of the concerns were addressed, the HRPDC submitted another regional comment letter on October 6, 2022 describing the remaining concerns, including: 1) adding references to account for intensely developed areas, 2) clarifying that the resilience assessment could be completed by either the applicant or the locality, 3) needing guidance for determining the lifespan of a project, and 4) clarifying that a local CBPA board should only consider the CBPA regulations and it is inappropriate for the board to consider the requirements of the Tidal Wetland Guidelines.

Recognizing that the revisions to the resiliency guidance and the development of supporting materials such as training modules and ordinance language was taking longer than anticipated, the DEQ distributed an email to all of the Bay Act localities on December 22, 2022 indicating that the climate change and mature tree provisions would not be enforced until October 2025. This one-year extension is helpful to the localities; however the CBPA regulations still indicate a compliance date of September 29, 2024. On October 27, 2023, the HRPDC submitted a letter to the DEQ Director Mike Rolband asking for the regulations to be changed to reflect the new implementation date. Director Rolband explained that changing the regulations would take too long and instead offered a formal letter. While the letter has not been distributed yet, DEQ

representatives have stated that it will be soon.

On March 20, 2024, the DEQ provided a third draft of the resiliency guidance, along with a model ordinance, a locality implementation checklist, a resiliency assessment template, an adaptation measure checklist, and a nature-based adaptation measure list. On May 3, 2024, the HRPDC submitted a regional comment letter that included the following concerns: 1) the uncertain documentation requirements for projects with a lifespan of less than 30 years, 2) the acknowledgement that localities will decide whether an accessory structure is permitted to be within any potential impact identified in the Resiliency Assessment, 3) remove the requirement to evaluate the frequency, extent, direction, and duration of tides when assessing buffer function, and 4) making the living shoreline exemptions consistent with the regulations. It is anticipated that the coastal resiliency guidance and the associated implementation materials will be updated and public-noticed for formal public comment during FY 2025.

The DEQ has plans to share an updated *Riparian Buffers Modification and Mitigation Manual* with the SAG during the Fall. They anticipate holding one meeting with the SAG to discuss the changes.

REGIONAL STUDIES

Regional Water Quality Monitoring Program

In FY 2014, the HRPDC and the Phase I MS4 localities partnered with the USGS and the HRSD to create the Hampton Roads Regional Water Quality Monitoring Program (RWQMP). The purpose of the study is to characterize the sediment and nutrient loadings from the major urban land-uses in the Hampton Roads region. The measured sediment and nutrient loads will be compared to the loading rates in the Chesapeake Bay Watershed Model and used to improve the accuracy of the model in the Coastal Plain. In FY 2015, the locations of the 12 stations (2 per Phase I MS4 permittee) were selected, and seven stations were installed. In FY 2016, three additional stations were installed. In FY 2017, the remaining two stations were brought online. Since then, all twelve stations continued to collect storm event and baseflow samples, which are analyzed for nutrients and sediments. The stations continuously monitor flow, turbidity, temperature, and conductivity. Additional information on the project objectives, site locations, and data collected can be viewed on the recently updated program website.

The RWQMP was incorporated into the 2016 Phase I MS4 permits and is included in the reissued 2024 permits with an expanded sampling plan. HRPDC staff develops an Annual Report that includes the locations of monitoring stations, a summary of available data, and an interpretation of the data to include in the Phase I MS4 Annual Reports. The report is based on the annual update presented to the Regional Stormwater Workgroup by Mr. Aaron Porter (USGS). The data for FY 2024 continue to show similar trends as previous years, as detailed in the Annual Report.

Comparison of Community Flood Preparedness Fund Awards

In FY 2022, the Department of Conservation and Recreation awarded $32.4M from the Community Flood Preparedness Fund (CFPF) over two grant rounds to local governments across

Virgina to reduce the impacts of flooding. This included approximately $22M for Hampton Roads communities for resilience planning, stormwater infrastructure upgrades, and green infrastructure. In FY 2023, another $65.4M was awarded from the CFPF, including $29.4M for projects, studies, and planning efforts in Hampton Roads. HRPDC staff developed a dashboard and an ArcGIS StoryMap illustrating the Hampton Roads projects that have been awarded CFPF dollars in the first three rounds. In FY 2024, DCR awarded $53.9M from the CFPF statewide, including $26.8M for Hampton Roads communities. To date, nine Hampton Roads communities and the HRPDC have received $78.2M for 39 projects. HRPDC staff regularly briefs locality planning, public works, floodplain management, and resilience staff on the CFPF program through its Regional Environmental and Coastal Resiliency Committees.

Regional Community Flood Preparedness Fund Studies

In FY 2023, the HRPDC was awarded funds in the third round of the CFPF to complete a set of studies to support the development and implementation of local and regional resilience plans, policies, and projects. The studies are as follows: 1) an assessment of local hydraulic and hydrologic (H&H) data and models, 2) a hazardous floodwaters analysis, 3) a cost benefit analysis for regional resilient stormwater design standards, and 4) performance of BMPs in the coastal plain in the face of climate change. The HRPDC also received an award for a capacity building project focused on regional Community Rating System support. The projects are ongoing and will be completed over the next couple of years.

Comparison of Stormwater Local Assistance Fund Awards

The Stormwater Local Assistance Fund (SLAF) has awarded approximately $213M for stormwater projects across the Commonwealth. The Stormwater Managers are interested in how the resources are distributed and which types of projects are most likely to be funded. During FY 2024, HRPDC staff conducted several analyses looking at trends in the program over the years. Over nine rounds of SLAF awards, the Hampton Roads localities have been awarded $43.1M for 99 projects. Staff compared the numbers of projects and dollars awarded to Hampton Roads, Northern Virginia, and Richmond-area localities, evaluated the most popular BMP types, and presented the results to the Regional Stormwater Workgroup. Stream restoration continues to be the most popular BMP funded by the program, and the Northern Virginia localities had more projects awarded than the other regions.

Stormwater Program Utility Matrix

A comprehensive stormwater program matrix, including Phase I and Phase II MS4 permittees, was developed in FY 2000 to address both utility and programmatic issues. The matrix includes the rate structures, the type of bill, the frequency of billing, the number of utility customers, and program contact information. HRPDC staff coordinates with local government stormwater program staff to update the information in the matrix annually.

HRSD Microbial Source Tracking

HRSD began a pathogen program to conduct microbial source tracking (MST) in June 2015. Using genetic markers, HRSD identifies and tracks human sources of bacteria in local stormwater

networks. HRSD is providing sampling and analysis services while the local governments are providing staff time for the investigations. Several localities have taken advantage of the program including Chesapeake, Hampton, Newport News, Norfolk, Virginia Beach, and Suffolk.

HRSD adopted their Integrated Plan in February 2022, in which they committed to spending $10M by 2030 and another $10M by 2040 to fund equipment, field/lab time, and infrastructure repair reimbursement to localities. Mr. Kyle Curtis with HRSD presented the details of the reimbursement program to the Regional Stormwater Workgroup in July 2024.

Updates to SSORS

The Hampton Roads localities and HRSD use the Sanitary Sewer Overflow Reporting System (SSORS) to report sanitary sewer overflows to the DEQ, the VDH, and local staff. The database automatically notifies those who are included on the list of spills within their locality. The HRPDC provides oversight of SSORS and maintains the contract to support it.

TECHNICAL ASSISTANCE

The HRPDC continues to serve as a clearinghouse for technical assistance to the localities, as well as a point of contact in arranging short-term assistance from one locality to another. The HRPDC Committee structure also provides a forum for state and federal regulatory agency staff to meet with the region's localities to discuss evolving stormwater management regulations and other emerging regulatory issues. In addition, HRPDC staff provides technical support to member localities on a wide variety of issues upon request. In FY 2024, technical assistance to localities was focused on disseminating information related to: 1) evaluating state policy initiatives for impacts to local government programs and 2) implementation of and compliance with the Chesapeake Bay TMDL.

MEMORANDUM OF AGREEMENT

The Regional Stormwater Management Program was established in 1996 as a formal program of the HRPDC with support and participation from the seventeen-member local governments. FY 2021 marked the twenty-fifth anniversary of this collaboration. A MOA was created that outlines the basic regulatory and programmatic premises for the cooperative program, incorporating the Regional Program Goals, described earlier in this report. The MOA establishes a division of program responsibilities among the HRPDC and the participating localities, addresses questions of legal liability for program implementation, and includes other general provisions. The MOA was just renewed in 2023. While the previous MOAs were reauthorized by the signatories every five years, the newest MOA has a term of ten years.

RELATED PROGRAMS AND PROJECTS

In various combinations, the eleven MS4 communities, as well as their non-permitted counterpart communities, and HRPDC staff participate in a wide variety of related programs. These programs are noted here because of their relationship with stormwater management.

Chesapeake Bay Program Participation

The Chesapeake Bay Program (CBP) is a regional partnership that has led and directed the restoration of the Chesapeake Bay since 1983. CBP partners include federal and state agencies, local governments, nonprofit organizations, and academic institutions. Partners work together through the CBP's goal teams, workgroups, and committees to collaborate, share information, and set goals.

Since the development of the Chesapeake Bay TMDL in December 2010, the Hampton Roads region has devoted considerable attention to the research, developments, and decisions on-going within the CBP. HRPDC and local government staff have participated in the deliberations of many CBP committees and workgroups focused on urban stormwater, watershed planning, land use development, modeling, and local government's role in the Bay Program. HRPDC staff serves as a Vice Chair for the Urban Stormwater Workgroup and Chair of the Land Use Workgroup, at-large member of the Water Quality Goal Implementation Team (WQGIT), representative for the WQGIT on the Beyond 2025 Committee, and a member of the Scientific and Technical Advisory Committee (STAC). HRPDC also has representation on the Climate Resilience Workgroup and the Wastewater Treatment Workgroup. During FY 2024, staff focused on: 1) preparing the Local Monitoring and Watershed Model workshop report that provides a mechanism for the Hampton Roads monitoring data to be incorporated into the Bay Watershed Model, 2) developing recommendations to include in the Beyond 2025 report, and 3) highlighting the need to provide resources and incentives to address unregulated urban stormwater loads.

Through the Urban Stormwater Workgroup, HRPDC staff are: 1) informing the Bay Partnership of the resilience work being done by localities in the region, 2) advocating for research on the co-benefits of BMPs for water quality and flooding concerns, 3) garnering approval for chemical coagulant as a new BMP, and 4) tracking decisions related to updated fertilizer application rates and the implications for TP loading rates for the Phase 7 model.

HRPDC staff also attends meetings of the Principal Staff Committee (PSC), Management Board, Local Government Advisory Committee (LGAC), Modeling Workgroup, and Watershed Technical Workgroup on an as needed basis. These meetings provide a high-level overview of policy-level decisions as well as technical insights on model development. Staff meets monthly with representatives from the Northern Virginia Regional Commission and DEQ who are directly involved in decision-making for the Bay Program. Staff also conveys information to VAMSA and the Metropolitan Washington Council of Governments' Bay TMDL Tracking Team.

DEQ Contract with Planning District Commissions in the Bay Watershed

In partnership with the other Virginia planning districts in the Chesapeake Bay watershed, HRPDC continued the contract agreement with the DEQ to provide support for implementation efforts related to Virginia's Chesapeake Bay TMDL Phase III Watershed Implementation Plan (WIP). The 2024 contract, which runs from January 1 to December 31, primarily focuses on plan approval and the construction phase of the Regional Building parking lot retrofit project. The project is scheduled to be built in FY2025 and will feature several stormwater management practices, including a bioretention basin, conservation landscaping, and porous concrete. Additionally, the contract helps support HRPDC's collaborative efforts with regional local staff and the partner PDCs within the Bay watershed.

National Fish and Wildlife Foundation Grants

The HRPDC received a Small Watershed Technical Assistance (SWTA) grant in September 2020 from the National Fish and Wildlife Foundation (NFWF) to conduct an evaluation of private industries willing to voluntarily implement and report large-scale BMPs on their property to reduce nutrients and/or mitigate flooding. Staff hired a consultant, Whitman, Requardt & Associates, LLP for the evaluation. The project was completed in FY 2022. The industrial partners indicated a willingness to report existing BMPs and were interested in implementing new projects especially those with multiple benefits and financial incentives.

HRPDC staff expanded on the 2020 SWTA grant and was awarded a NFWF Small Watershed Implementation Grant in September 2022. HRPDC staff and partners are working with Buckeye Industries, LLC to implement a living shoreline and other BMPs at their facility along the Elizabeth River. The intent of the project is to develop a pilot for implementing and reporting BMPs and to explore a mechanism for growing a coalition of the willing for industrial properties across the region. The project is expected to be complete in FY 2025.

As part of the grant project, in February 2024, staff partnered with Wetlands Watch, the Elizabeth River Project, the Chesapeake Bay Landscape Professional (CBLP) program, and Stromberg, Garrigan, and Associates to host a living shoreline design charette. This charette included local staff and practitioners interested in learning how to design stormwater practices on an industrial property with potential contaminants on-site. Experts from the DEQ were on hand to provide guidance and two viable designs were developed to aid in the future construction of BMPs.

Trading with HRSD

HRSD, HRPDC staff, and the MS4 permittees collaborated to develop a regional template for MOAs to establish the framework for trading pollutant reduction credits to comply with the Bay TMDL pollutant reduction requirements. Individual MOAs with each of the eleven MS4 permittees were signed in 2017.

Currently HRSD treatment plants operate well below design flows, as those were established to ensure capacity to support regional population projections in 2040 and beyond. Annual average flows in 2015 were approximately 60% of design flows. As a result of plant flows well below

design flows in combination with significant investment in nutrient removal technologies, HRSD currently discharges nutrients and sediment significantly below permitted limits and is projected to do so for the foreseeable future. The difference between permitted mass load limits and current performance provides ample capacity to absorb load reductions required from stormwater dischargers in Hampton Roads through at least 2036. As mentioned above, a portion of the capacity credits available from HRSD's efforts are currently available for MS4 needs to achieve TMDL compliance.

HRSD continues to move forward with their Sustainable Water Initiative for Tomorrow (SWIFT) project, their multi-year initiative that takes treated wastewater, purifies it to drinking water standards, and then injects it into the Potomac Aquifer. In addition to replenishing the water in the aquifer, the SWIFT project will significantly reduce the volume of treated wastewater reaching the James, York, and Elizabeth Rivers. The project will generate enough permanent nutrient and sediment credits to meet nearly all of the regional urban stormwater waste load allocations in the Chesapeake Bay TMDL. HRSD representatives have given several presentations on the project at the Regional Environmental Committee and Regional Stormwater Workgroup meetings.

Trading with HRSD, first using the capacity credits and then using the permanent credits from SWIFT, provides a cost-effective option for MS4 permittees to meet a portion of the waste load allocations of the Chesapeake Bay TMDL.

Resilient Stormwater Design Standards

HRPDC staff worked with its member localities to develop proposed resilient design standard guidelines for stormwater and floodplain management. This includes sea level rise planning scenarios, future projected floodplains, tailwater elevations, rainfall intensity-duration-frequency values, and joint probability events. The goal of this effort is to develop regional analysis products and recommendations that can be used by localities to adopt climate-informed policies that account for future conditions. This effort builds on existing resources and tools from USACE, FEMA, the Chesapeake Bay Program, and individual localities.

Throughout the year, the HRPDC staff also continued discussions with the Coastal Resiliency Committee. In December 2022, the HRPDC was awarded a grant from the Community Flood Preparedness Fund to conduct several technical studies related to resilience. This work will support continued development of research and technical products needed for implementation of the regional resilient design standards. Work on this grant is expected to be completed in FY 2025.

Virginia Municipal Stormwater Association

Ten localities in Hampton Roads are members of the Virginia Municipal Stormwater Association (VAMSA). In FY 2024, those Stormwater Managers and HRPDC staff actively participated in VAMSA by contributing to regulatory comment letters and serving on several committees,

including the Phase I MS4, Phase II MS4, Chesapeake Bay TMDL Tracking Team, Grants, Stormwater Utility, BMP, and Flooding committees.

York River and Small Coastal Basins Roundtable

During FY 2024, HRPDC staff participated in meetings of the York River and Small Coastal Basins Roundtables. The Roundtable is focused on public education, recognizing business practices for watershed resilience, grant applications to synthesize regional information on the health of the watershed, and habitat restoration. HRPDC staff are part of the Habitat Restoration Committee, which meets monthly.

Living Shoreline Collaborative

The Living Shoreline Collaborative (LSC) is a partnership including non-profits, state agencies, local governments, HRPDC, Master Gardeners, contractors, and consultants whose goals are to build and share knowledge of living shorelines and promote their implementation in the tidal James River watershed. There are three focus areas: 1) monitoring, 2) training, and 3) implementation and outreach. The LSC presents an annual summit, holds quarterly meetings, offers field visits, and implements living shoreline projects. HRPDC staff participated with the Training Team, who developed content for a workshop to train contractors, property owners, and designers. Two meetings were held in FY 2024, September 14, 2023 and May 7, 2024.

CONCLUSION

Through the Hampton Roads Planning District Commission, the seventeen localities of Hampton Roads have established a comprehensive Regional Stormwater Management Program. This program provides technical assistance, coordination, comprehensive technical studies and policy analyses, and stormwater education. The Regional Stormwater Management Program enables the region's localities to participate actively and effectively in state and federal regulatory matters. It has enhanced the ability of the eleven localities with VPDES Permits for their Municipal Separate Storm Sewer Systems to comply with permit requirements.

The Regional Stormwater Management Program provides a mechanism through which the strengths of the seventeen local stormwater programs can be mutually supportive. It allows for cost-effective compliance with permit requirements, promotes regional consistency, and leads to improved environmental quality throughout the Hampton Roads region.

Phase II MS4s Regional Stormwater Workgroup Meeting Attendance FY24

Meeting Dates

													# Meetings	% Attended
Phase II Localities	**7/19/2023**	**8/16/2023**	**9/20/2023**	**10/18/2023**	**11/15/2023**	**12/13/2023**	**1/17/2024**	**2/21/2024**	**3/20/2024**	**4/17/2024**	**5/15/2024**	**6/19/2024**	11	
City of Poquoson		1	1			1	1	1			1	Meeting cancelled	6	55%
City of Suffolk	1	1	1	1	1	1	1	1	1	1	1		11	100%
City of Williamsburg	1	1	1	1	1		1		1	1			8	73%
James City County	1	1	1	1	1	1	1	1	1		1		10	91%
York County	1	1	1	1	1	1	1	1	1	1	1		11	100%

askHRGreen.org Stormwater Awareness Committee - FY24 Meeting Attendance

	July	August	All Hands Annual Meeting	September	October	November	December	January	February	March	April	May	June	Total Meetings Attended	Percentage of Meetings Attended
Chesapeake	1	1	1	1				1	1		1	1		8	67%
Gloucester				1				1	1			1		4	33%
Hampton	1		1							1				3	25%
Isle of Wight														0	0%
James City County		1			1			1						3	25%
Newport News	1	1	1	1	1	1		1	1	1	1	1	1	12	100%
Norfolk	1		1	1	1	1		1	1	1	1	1	1	11	92%
Poquoson			1	1	1			1	1	1				6	50%
Portsmouth	1	1	1	1	1	1		1		1	1		1	10	83%
Smithfield		1						1		1		1		4	33%
Suffolk	1		1	1	1	1		1	1	1	1	1		10	83%
Virginia Beach	1	1	1	1	1	1		1	1	1				9	75%
Williamsburg														0	0%
York		1	1	1	1	1		1	1	1	1	1		10	83%
							No Meeting								

Public Involvement & Participation

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 2	PUBLIC INVOLVEMENT/PARTICIPATION
2.1	SOP for Responding to Spills
2.2	See Public Participation Sheet listed under BMP 1.3
2.2	PY2 Planned Public Participation Activities

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

2. Public Involvement/Participation								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
2.1		Public Involvement						
2.1a	I.E.2.a.(1)	Develop and implement procedures for public to report illicit discharges, spills, and other environmental concerns	Implement procedures	Procedures	Poquoson Engineering Department	PY1	Annual report, Illicit Discharge	Compliant. Procedures were developed in PY1 of the previous permit cycle and were revised in PY1 of the current permit cycle. The public can contact the City using the information on the City's Stormwater Quality website. SOP is included in Appendix.
2.1b	I.E.2.a.(2-4)	Establish methods to receive, respond to, and document public input on the MS4 program	Establish methods	Methods and documentation	Poquoson Engineering Department	PY1	Annual report	Compliant. Instructions on how to comment on the MS4 program are shown on the City's Stormwater Quality website. To date, no comments have been received.
2.1c	I.E.2.h.(1-2)	Update the dedicated webpage for the MS4 program that includes: 1) the MS4 permit and coverage letter, 2) Program Plan, 3) annual reports, 4) a way to report illicit discharges, and 5) methods for how the public can provide input on the Program Plan	Establish a dedicated MS4 webpage	Presence of materials on dedicated MS4 webpage	Poquoson Engineering Department	Before 2/1/24	Annual report	Compliant. See https://www.ci.poquoson.va.us/278/Stormwater-Quality
2.2		Public Participation						

2. Public Involvement/Participation								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
2.2a	I.E.2.c	Offer a minimum of four local activities per year from two or more categories in Table 2	Schedule Events	Activities offered	Poquoson Engineering Department	Annually	Public Participation Spreadsheet	Compliant. See BMP 1.3 in the Appendix.
2.2b	I.E.2.h.(3)	Identify a metric for each public participation activity	Identify metrics	Examples include the weight of debris collected or number of participants	Poquoson Engineering Department	Annually	Planned Public Participation Activities Spreadsheet	Compliant. Spreadsheet is located in the Appendix.
2.2c	I.E.2.h.(3)	Schedule of public participation activities	Document the anticipated time periods the activities will occur	Time periods documented	Poquoson Engineering Department	Annually	Planned Public Participation Activities Spreadsheet	Compliant. Spreadsheet is located in the Appendix.
2.3		Evaluation and Assessment	Evaluate and assess whether the activities are beneficial to improving water quality.		Poquoson Engineering Department	Annually	Annual report	Compliant. Permit requirements were met. The City is providing more than the required number of events.

Standard Operating Procedures for Responding to Spill Reports and Environmental Concerns

	Standard Operating Procedure
Purpose	In accordance with its MS4 permit, Poquoson must develop a standard operating procedure to react to reports of and mitigate to the maximum extent practicable illicit discharges into its storwmater system. These SOP's are intended to accomplish this goal.
Scope	Reacting to reports of and eliminating illicit discharges is the joint responsibility of all employees. All City departments will respond to reports of illicit discharges by notifying the proper authority in a timely manner.
Notification and Tracking	While several departments (listed below) are equipped to and routinely respond to reports of illicit discharges, City employees receiving reports of illicit discharges are to report all potential spills to the Environmental Compliance Officer (ECO) at 868-3040. Spills occurring within the City's drainage system can also be reported to the Public Works Department. The Environmental Compliance Officer will coordinate the response, first contacting the Public Works and Engineering Departments. In the event the Environmental Compliance Officer is not available, the Engineering Department will take the lead on coordinating the response. The ECO will keep records of and track the spill response and resolution.
Investigation	Upon receiving a report of a spill, the ECO will coordiate the City response, ensure the issue is addressed and arrange for a staff member to investigate the site within a business day. The Fire Department will be notified and take the lead on all spills 5 gallons or larger in size. The ECO will take the lead on E&SC, stormwater and CBPA violations. Public Works will take the lead on other issues impacting the flow, maintenance or condition of the City's drainage system. As spills often involve more than one department's area, Public Works, the ECO and Engineering will be copied on correspondance for all reports.
Enforcement	The legal authority for enforcement is located in the City Code Chapter 34 Article III. The ECO, in conjunction with the Engineering Department, shall have the option to coordinate with law enforcement and the City Attorney to charge the responsible party. The ECO will also have the option to issue a fine of not less than $2,500 nor more than $32,500. If it is determined that no enforcement action needs to take place, a letter will be sent to the responsible party stating that the City reserves the right to use these enforcement actions on activities in the future should the responsible party commit another act.
Fire Department	Will respond to hazardous waste spills and spills of 5 gallons and larger. The FD will notify and file reports with the state EOC, which in turn will notify DEQ if warranted. The FD will follow its SOPs to place booms or other absorbent devices about the spill and to dispose of clean up materials properly. The status of clean up will be communicated to the ECO and the Engineering Department.

Standard Operating Procedures for Responding to Spill Reports and Environmental Concerns

Public Works Employees	Will respond to reports of spills, obstructions, and other discharges impacting the City's streets or drainage system. In the event the spill is potentially hazardous or is more than 5 gallons, PW will notify and coordinate with the FD. Public works employees will deploy their spill kit materials as needed to ensure the spill is contained and will dispose of all materials used in the appropriate container at the Public Works yard so that the items are properly disposed of. Public works will restore or will coordinate the repair and restoration of all damaged City infrastructure if work is performed by the party responsible for the spill. Public Works will track all expenses related to spill response. Public Works will communicate with and provide updates to the ECO and the Engineering Department.
City Inspector	The City Inspector or the designee of the City Inspector is a Public Works Employee and will take the lead in coordinating the Public Works response.
Engineering Department	The Engineering Department will assist by inspecting, notifying property owners or coordinating the response in the event the ECO is not available. The Department will consolidate spill information for inclusion in the annual MS4 permit report.

2.2 Permit Year 2 Possible Public Involvement Opportunities

EVENT	SCHEDULE	METRIC	TABLE 2 CATEGORY	NOTES
Poquoson Seafood Festival	Fall 2024; 3RD FULL WEEKEND IN OCTOBER	Attendance; number of giveaways	Public Education Activities	Poquoson has reserved the AskHRgreen trailer for the event and will use the trailer for environmental education.
Clean the Bay or Keep Poquoson Beautiful Volunteer Clean Up	Spring to early summer, near Earth Day	# Volunteers; amount of waste collected	Restoration	The annual Clean the Bay Day cleanup will go forward as planned in 2025. The City is also keeping the participation opporunity going by maintaining a "Keep Poquoson Beautiful" clean up kit in the library. Small groups can use the kit to perform smaller scale restoration events.
Household Hazardous Waste Collection Events	Quarterly	# Events	Collection/Disposal	Regional effort. At least one is held each year within Poquoson, and citizens are welcome to participate in events held in neighboring localities.
Bay Star Homes, Businesses and Pet Waste Stations Programs	throughout the year	# new homes and pet waste stations	Pollution Prevention	Ongoing participation opportunity for individual homes.
Library Education Programs	Throughout the year; primarily in the summer	Attendance	Public Education Activities	Ongoing.
Poquoson Adopt a Spot	Continuously	# groups participating	Restoration	Ongoing.

Illicit Discharge Detection and Elimination

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 3	ILLICIT DISCHARGE DETECTION AND ELIMINATION
3.1	Service area & Outfall Map (includes City-owner Water Quality BMPs)
3.1	MS4 Outfall Information Table (includes City-owned Water Quality BMPs)
3.1	Illicit Discharge Prohibition Ordinance
3.2	Fire Department IDDE Procedures; See BMP 2.1 for City Staff Procedures
3.2	IDDE Summary Table
3.3	Dry Weather Screening Procedures
3.3	Planned FY 2025 Dry Weather Inspections and Rationale
3.3	Summary of Dry Weather Screening Inspections
3.3	Example of Monthly Field Testing Tracking Spreadsheet
3.4	Example IDDE Reporting Forms
3.4	Sanitary Sewer Overflow Reports: No sanitary sewer system spills this year (therefore no forms provided)

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.1		Storm Sewer System Map						
3.1a	I.3.a.(1) I.E.3.d.(1)	Update MS4 service area map using the 2000 CUA, 2010 CUA, and the 2020 census urban areas with a population of at least 50,000	Maintain and update mapping	Updated Map	Poquoson Engineering Department	Before 11/1/2025	Service area map	Compliant. Poquoson has contracted a consultant to update the MS4 service area map and will meet the 11/1/2025 deadline. Current map is included in Appendix.
3.1b	I.E.a.(2) I.E.3.d.(1)	MS4 outfall or point of discharge information table	Maintain and update table	Updated Table	Poquoson Engineering Department	Annually	Information Table	Compliant. No new outfalls this year. Table is included in the Appendix.
3.1c	I.E.3.a.(3)	Provide to DEQ an updated GIS-compatible shapefile of the MS4 map	Provide file	Provide to DEQ	Poquoson Engineering Department	No later than 11/1/2025	Shapefile	Compliant. Poquoson has contracted a consultant to create an updated GIS shapefile and will meet the 11/1/2025 deadline.

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.1d	I.E.3.a.(5)	New outfalls or recently approved TMDLs	Update map and table	Updated map and table	Poquoson Engineering Department	No later than Oct 1 each year, incorporate updates through June 30	Map and information table	Compliant. No new outfalls or recently approved TMDLs in PY1.
3.1e	I.E.3.a.(6)	Provide written notification to downstream MS4s	Identify and notify, in writing, any downstream adjacent MS4 of any known physical interconnection established or discovered after permit effective date.	Develop map, written notifications	Poquoson Engineering Department	Annually	Written notifications	Compliant. Poquoson is downstream of all other MS4s. VDOT owns the only upstream MS4. The City has not been contacted by VDOT.
3.1f	I.E.3.b	Prohibit illicit discharges through ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	Current Ordinance	Poquoson Engineering Department	As necessary	City Code Section 34-86.	Compliant. Relevant City code section included in Appendix.
3.2		IDDE program implementation						
3.2a	I.E.3.c	Maintain and implement written procedures for IDDE	Implement written IDDE procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See BMP 2.1 in the Appendix. FD procedure also included in Appendix.
3.2b	I.E.3.c.(6)	IDDE activity tracking	Track illicit discharge detection and elimination activities.	Number of investigations and actions taken	Poquoson Engineering Department	Ongoing	List of Activities	Compliant. See Appendix for summary spreadsheet.
3.3		Dry Weather Screening (DWS)						

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.3a	I.E.3.c.(2)	Maintain and implement dry weather screening protocol	Implement written dry weather field screening methodologies for IDDE.	Protocol	Poquoson Engineering Department	Continuously	DWS Protocol	Compliant. See dry weather screening SOP in Appendix.
3.3b	I.E.3.c(2)(a)	Develop a prioritized schedule for field screening and the rationale for the prioritization	Implement the schedule and document the rationale	Schedule	Poquoson Engineering Department	Annually	DWS Protocol	Compliant. FY 2025 plan is included in the Appendix.
3.3c	I.E.3.c(2)(b-e)	Field testing	Perform dry weather screening of a minimum of 50 outfalls or observation points (or all if less than 50 outfalls in MS4)	Documentation of screening performed	Poquoson Engineering Department	Annually	Field sheets	Compliant. Summary sheet included in Appendix. City inspected 91 outfalls and over 90,000 linear feet of outfall ditching.
3.3d	I.E.3.c(2)(g)	Tracking field testing	Track the outfall or observation point unique identifier, time since last precipitation event, estimated quantity of the last precipitation event, site description, observed indicators, whether a discharge was observed and if so, rate of discharge, and visual characteristics	Documentation of screening results	Poquoson Engineering Department	For each DWS event	Field checklists	Compliant. Example field checklist attached.

3. Illicit Discharge Detection and Elimination								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
3.4		Spill reporting						
3.4a	I.E.3.e.(3)	Track spills reaching the MS4	Report spills to the DEQ's Pollution Response Program (PREP), if applicable	Number of internal reports. If applicable, obtain PREP number.	Poquoson Engineering Department	Continuously	Internal Summary Report	Compliant. See Summary sheet and FD example forms in Appendix.
3.4b	I.E.3.e.(3)	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	Public Utilities Superintendent.	Continuously	List from SSORS	Compliant. No SSOs occurred in PY1.
3.5		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. The City exceeded dry weather screening requirements. Illicit discharges this year were all boat related and took place at marinas. Staff from the Engineering Department, Community Development, and the Fire Department coordinate on these


N
Legend
SMF Owned by City
MS4 Outfall
Catch Basin
Curb Drop Inlet
BMP Outfall Riser
Storm Manhole
Headwall
Flared End Section
Grass Channel
Concrete Ditch
Ditch
Stormwater Pipe
MS4 Service Area Boundary
VAHU6 CB24
VAHU6 CB22
VAHU6 CB21
Receiving Waters
Note: The estimated acres draining to the MS4 outfalls listed in the associated data table are approximate. The number of acres draining to a given outfall will vary based on tidal flooding conditions due to equalizing culverts between ditches.
Fire Department Detention Pond #1
Fire Department Detention Pond #2
City Hall Constructed Wetlands
City Hall Wet Pond
EDA Wet Pond
0 400 800 1,600 Feet
City of Poquoson Storm Sewer Map - Sheet 2


N
Legend
SMF Owned by City
MS4 Outfall
Catch Basin
Curb Drop Inlet
BMP Outfall Riser
Storm Manhole
Headwall
Flared End Section
Grass Channel
Concrete Ditch
Ditch
Stormwater Pipe
MS4 Service Area Boundary
VAHU6 CB24
VAHU6 CB22
VAHU6 CB21
Receiving Waters
Note: The estimated acres draining to the MS4 outfalls listed in the associated data table are approximate. The number of acres draining to a given outfall will vary based on tidal flooding conditions due to equalizing culverts between ditches.
South Lawson Park Wet Pond
0 400 800 1,600 Feet
City of Poquoson Storm Sewer Map - Sheet 3

N

Legend

- SMF Owned by City
- MS4 Outfall
- Catch Basin
- Curb Drop Inlet
- BMP Outfall Riser
- Storm Manhole
- Headwall
- Flared End Section
- Grass Channel
- Concrete Ditch
- Ditch
- Stormwater Pipe
- MS4 Service Area Boundary
- VAHU6 CB24
- VAHU6 CB22
- VAHU6 CB21
- Receiving Waters

Note: The estimated acres draining to the MS4 outfalls listed in the associated data table are approximate. The number of acres draining to a given outfall will vary based on tidal flooding conditions due to equalizing culverts between ditches.

0 400 800 1,600 Feet

City of Poquoson Storm Sewer Map - Sheet 1

Outfall Type	VAHU6	HUC 12	Receiving Water	Impaired	Zone	Outfall ID	Impaired	Estimated Service Area (Ac)	Latitude	Longitude	Bay TMDL	Other TMDL	Predominant Land Use
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A001	Yes	7.60	37° 9' 33.541" N	76° 24' 3.124" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A002	Yes	1.64	37° 9' 28.286" N	76° 23' 53.346" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A003	Yes	3.53	37° 9' 27.547" N	76° 23' 51.928" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A004	Yes	3.84	37° 9' 26.055" N	76° 23' 49.998" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A005	Yes	5.64	37° 9' 24.588" N	76° 24' 5.329" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A006	Yes	8.12	37° 9' 22.303" N	76° 24' 7.024" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Lower	Yes	A	A007	Yes	2.43	37° 9' 21.321" N	76° 23' 27.070" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A008	Yes	4.59	37° 9' 21.206" N	76° 23' 57.651" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A009	Yes	2.78	37° 9' 20.528" N	76° 23' 8.322" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A010	Yes	2.07	37° 9' 20.029" N	76° 23' 51.188" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented estuaries in Back River	Yes	A	A011	Yes	6.97	37° 9' 18.799" N	76° 23' 17.168" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented Estuaries in Back River	Yes	A	A012	Yes	2.78	37° 9' 18.005" N	76° 23' 17.698" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A013	Yes	2.45	37° 9' 16.387" N	76° 24' 20.259" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A014	Yes	8.00	37° 9' 16.187" N	76° 24' 21.429" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Mouth	Yes	A	A015	Yes	3.50	37° 9' 16.071" N	76° 23' 4.646" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A016	Yes	5.67	37° 9' 15.993" N	76° 23' 30.667" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A017	Yes	0.96	37° 9' 15.844" N	76° 23' 22.469" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A018	Yes	2.58	37° 9' 13.935" N	76° 23' 22.882" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	A	A019	Yes	0.78	37° 9' 12.784" N	76° 23' 0.339" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A020	Yes	1.58	37° 9' 12.211" N	76° 23' 17.612" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A021	Yes	3.15	37° 9' 10.372" N	76° 24' 19.151" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A022	Yes	1.45	37° 9' 10.176" N	76° 23' 15.024" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A023	Yes	4.43	37° 9' 8.952" N	76° 23' 59.545" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A024	Yes	1.21	37° 9' 7.995" N	76° 24' 14.327" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A025	Yes	16.33	37° 9' 7.536" N	76° 23' 7.314" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A026	Yes	5.94	37° 9' 6.729" N	76° 23' 44.248" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A027	Yes	2.35	37° 9' 4.464" N	76° 23' 41.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A028	Yes	11.22	37° 9' 3.878" N	76° 23' 55.305" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Poquoson River - Lower [DSS-OPEN]	Yes	A	A029	Yes	1.90	37° 9' 3.582" N	76° 24' 25.246" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A030	Yes	7.05	37° 8' 59.122" N	76° 23' 15.224" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A031	Yes	7.96	37° 8' 58.235" N	76° 23' 36.584" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A032	Yes	5.95	37° 8' 57.332" N	76° 22' 58.309" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A033	Yes	4.97	37° 8' 57.154" N	76° 23' 47.497" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A034	Yes	35.25	37° 8' 54.054" N	76° 23' 52.238" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A035	Yes	1.80	37° 8' 54.024" N	76° 23' 52.197" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Roberts Creek - Upper	Yes	A	A036	Yes	6.47	37° 8' 51.139" N	76° 23' 35.796" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A037	Yes	5.26	37° 8' 50.504" N	76° 23' 27.345" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	A	A038	Yes	2.97	37° 8' 47.851" N	76° 23' 27.003" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A039	Yes	5.57	37° 8' 47.839" N	76° 23' 32.148" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Roberts Creek - Upper	Yes	A	A040	Yes	26.21	37° 8' 46.421" N	76° 23' 37.738" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Lower	Yes	B	B001	Yes	1.84	37° 8' 59.405" N	76° 22' 33.410" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B002	Yes	16.51	37° 8' 59.025" N	76° 24' 13.158" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B003	Yes	2.16	37° 8' 56.320" N	76° 24' 33.488" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B004	Yes	6.63	37° 8' 54.907" N	76° 24' 23.850" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B005	Yes	34.27	37° 8' 53.902" N	76° 24' 14.990" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	B	B006	Yes	8.06	37° 8' 51.758" N	76° 22' 31.678" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B007	Yes	9.32	37° 8' 48.535" N	76° 24' 30.981" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B008	Yes	0.53	37° 8' 48.500" N	76° 22' 56.941" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B009	Yes	4.31	37° 8' 48.230" N	76° 24' 33.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B010	Yes	1.13	37° 8' 46.829" N	76° 22' 58.987" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B011	Yes	7.31	37° 8' 46.592" N	76° 22' 53.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B012	Yes	1.20	37° 8' 46.169" N	76° 24' 39.048" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B013	Yes	1.74	37° 8' 45.142" N	76° 22' 32.294" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B014	Yes	6.08	37° 8' 44.730" N	76° 22' 46.784" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B015	Yes	20.08	37° 8' 44.013" N	76° 24' 30.506" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B016	Yes	1.74	37° 8' 43.532" N	76° 22' 51.259" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B017	Yes	2.23	37° 8' 42.873" N	76° 23' 2.111" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B018	Yes	5.23	37° 8' 41.356" N	76° 23' 16.940" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B019	Yes	2.51	37° 8' 40.369" N	76° 24' 26.801" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B020	Yes	4.48	37° 8' 40.210" N	76° 23' 19.520" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B021	Yes	1.91	37° 8' 39.861" N	76° 23' 0.056" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B022	Yes	8.21	37° 8' 39.117" N	76° 24' 39.828" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B023	Yes	5.82	37° 8' 38.301" N	76° 23' 8.328" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B024	Yes	7.22	37° 8' 37.794" N	76° 23' 23.120" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B025	Yes	11.12	37° 8' 35.552" N	76° 24' 27.275" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B026	Yes	3.87	37° 8' 34.084" N	76° 23' 27.978" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B027	Yes	2.79	37° 8' 33.849" N	76° 23' 27.573" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B028	Yes	115.50	37° 8' 33.352" N	76° 23' 30.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lyons Creek - Upper Middle	Yes	B	B029	Yes	48.68	37° 8' 32.930" N	76° 23' 30.310" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B030	Yes	5.89	37° 8' 30.122" N	76° 23' 9.649" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B031	Yes	3.52	37° 8' 27.898" N	76° 23' 7.689" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B032	Yes	3.33	37° 8' 27.614" N	76° 23' 11.733" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B033	Yes	3.26	37° 8' 24.910" N	76° 23' 16.781" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B034	Yes	0.39	37° 8' 24.195" N	76° 22' 52.650" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

BMP	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B035	Yes	15.73	37° 8' 22.238" N	76° 24' 25.487" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B036	Yes	1.82	37° 8' 22.172" N	76° 22' 57.982" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B037	Yes	3.17	37° 8' 21.695" N	76° 23' 23.090" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B038	Yes	2.26	37° 8' 20.770" N	76° 24' 34.889" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B039	Yes	11.11	37° 8' 20.606" N	76° 23' 4.009" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B040	Yes	3.49	37° 8' 19.775" N	76° 23' 10.390" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B041	Yes	39.38	37° 8' 19.040" N	76° 23' 28.899" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B042	Yes	3.89	37° 8' 16.953" N	76° 24' 43.886" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B043	Yes	56.66	37° 8' 12.896" N	76° 24' 30.057" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B044	Yes	1.06	37° 8' 12.677" N	76° 23' 11.999" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	B	B045	Yes	0.85	37° 8' 12.601" N	76° 23' 12.062" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B046	Yes	4.86	37° 8' 12.252" N	76° 24' 29.073" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B047	Yes	1.92	37° 8' 11.683" N	76° 24' 39.295" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B048	Yes	2.19	37° 8' 4.804" N	76° 24' 35.283" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B048A	Yes	5.90	37 08'24048"N	76 24'35.90"W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B049	Yes	4.54	37° 8' 2.997" N	76° 24' 33.298" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B050	Yes	50.91	37° 8' 2.965" N	76° 24' 32.829" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B051	Yes	3.70	37° 7' 56.688" N	76° 24' 38.534" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B052	Yes	3.32	37° 7' 53.041" N	76° 24' 38.633" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Lambs Creek - Poquoson River	Yes	B	B053	Yes	104.80	37° 7' 48.219" N	76° 24' 38.737" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C001	Yes	1.90	37° 8' 14.947" N	76° 22' 58.650" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C002	Yes	6.31	37° 8' 14.478" N	76° 23' 0.182" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C003	Yes	111.27	37° 8' 10.506" N	76° 23' 28.383" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C004	Yes	4.84	37° 8' 9.954" N	76° 23' 26.730" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C005	Yes	125.05	37° 8' 9.585" N	76° 23' 25.534" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C006	Yes	1.72	37° 8' 7.758" N	76° 23' 15.497" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	C	C007	Yes	25.00	37° 8' 3.260" N	76° 23' 9.359" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C008	Yes	24.76	37° 7' 13.428" N	76° 23' 19.470" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C009	Yes	15.04	37° 7' 11.642" N	76° 23' 11.472" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C010	Yes	360.46	37° 7' 8.452" N	76° 23' 31.934" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	C	C011	Yes	24.58	37° 6' 59.227" N	76° 23' 9.809" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C012	Yes	22.90	37° 6' 47.382" N	76° 23' 23.948" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C013	Yes	5.24	37° 6' 46.985" N	76° 23' 40.498" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C014	Yes	70.96	37° 6' 43.313" N	76° 23' 49.548" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Brick Kiln Creek	Yes	C	C015	Yes	2.23	37° 6' 39.787" N	76° 23' 40.998" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Brick Kiln Creek	Yes	C	C016	Yes	1.91	37° 6' 35.389" N	76° 23' 41.034" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Brick Kiln Creek	Yes	C	C017	Yes	15.85	37° 6' 30.203" N	76° 23' 35.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	D	D001	Yes	5.96	37° 8' 39.347" N	76° 22' 20.994" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Lower Middle	Yes	D	D002	Yes	1.33	37° 8' 30.981" N	76° 22' 14.128" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D003	Yes	3.30	37° 8' 30.579" N	76° 22' 29.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D004	Yes	1.87	37° 8' 30.490" N	76° 22' 32.703" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D005	Yes	5.06	37° 8' 25.709" N	76° 22' 20.941" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D006	Yes	18.75	37° 8' 22.760" N	76° 22' 33.952" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D007	Yes	0.78	37° 8' 19.063" N	76° 22' 32.573" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D008	Yes	0.74	37° 8' 18.962" N	76° 22' 29.938" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D009	Yes	1.31	37° 8' 17.978" N	76° 22' 34.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D010	Yes	0.85	37° 8' 16.902" N	76° 22' 27.900" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D011	Yes	1.18	37° 8' 16.247" N	76° 22' 22.718" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D012	Yes	3.21	37° 8' 15.378" N	76° 22' 13.632" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D013	Yes	0.99	37° 8' 15.258" N	76° 22' 33.152" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D014	Yes	1.25	37° 8' 15.021" N	76° 22' 28.309" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D015	Yes	11.78	37° 8' 13.177" N	76° 22' 50.809" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	D	D016	Yes	15.82	37° 8' 9.783" N	76° 21' 59.704" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D017	Yes	1.59	37° 8' 8.383" N	76° 22' 13.782" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D018	Yes	3.82	37° 8' 8.066" N	76° 22' 40.340" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	D	D019	Yes	5.70	37° 8' 4.755" N	76° 21' 52.888" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Floyds Bay	Yes	D	D020	Yes	9.39	37° 8' 4.408" N	76° 22' 17.638" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D021	Yes	1.28	37° 8' 2.526" N	76° 22' 31.977" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D022	Yes	18.39	37° 8' 0.996" N	76° 22' 29.210" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D023	Yes	8.79	37° 8' 0.677" N	76° 22' 38.843" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	White House Cove - Bennett Cr. Area	Yes	D	D024	Yes	38.41	37° 7' 59.138" N	76° 22' 55.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D025	Yes	6.29	37° 7' 59.086" N	76° 22' 13.257" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D026	Yes	21.15	37° 7' 57.530" N	76° 22' 8.716" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D027	Yes	14.09	37° 7' 57.397" N	76° 22' 17.311" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Floyds Bay	Yes	D	D028	Yes	33.09	37° 7' 56.406" N	76° 22' 9.419" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Floyds Bay	Yes	D	D029	Yes	6.98	37° 7' 56.355" N	76° 22' 12.543" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E001	Yes	129.16	37° 7' 30.396" N	76° 22' 34.274" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E002	Yes	6.11	37° 7' 27.721" N	76° 22' 30.106" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E003	Yes	143.69	37° 7' 26.318" N	76° 22' 47.773" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E004	Yes	16.71	37° 7' 24.095" N	76° 22' 47.060" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E005	Yes	5.02	37° 7' 23.942" N	76° 22' 39.923" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E006	Yes	1.67	37° 7' 23.809" N	76° 22' 40.284" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E007	Yes	2.10	37° 7' 21.285" N	76° 22' 34.038" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E008	Yes	5.37	37° 7' 20.434" N	76° 22' 46.422" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E009	Yes	1.96	37° 7' 20.136" N	76° 22' 38.800" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E010	Yes	0.92	37° 7' 20.121" N	76° 22' 39.373" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E011	Yes	1.17	37° 7' 19.679" N	76° 22' 43.810" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E012	Yes	7.77	37° 7' 17.574" N	76° 22' 45.205" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E013	Yes	16.97	37° 7' 16.825" N	76° 22' 27.900" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E014	Yes	4.32	37° 7' 14.180" N	76° 22' 0.246" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E015	Yes	0.54	37° 7' 13.781" N	76° 22' 2.807" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E016	Yes	96.01	37° 7' 13.612" N	76° 22' 11.451" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E017	Yes	7.95	37° 7' 13.288" N	76° 22' 41.868" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E018	Yes	18.28	37° 7' 9.803" N	76° 22' 59.693" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E019	Yes	3.75	37° 7' 9.027" N	76° 22' 7.073" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E020	Yes	2.22	37° 7' 6.349" N	76° 22' 1.848" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E021	Yes	1.47	37° 7' 3.447" N	76° 22' 6.676" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E022	Yes	5.07	37° 7' 2.543" N	76° 22' 1.346" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E023	Yes	4.74	37° 7' 1.676" N	76° 22' 50.865" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	E	E024	Yes	5.46	37° 7' 0.894" N	76° 22' 55.551" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Curb and Gutter	CB22	20801080102	Northwest Br. Back River - Upper [TMDL not CD]	Yes	E	E025	Yes	2.28	37° 6' 58.362" N	76° 22' 3.815" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F001	Yes	0.38	37° 8' 3.610" N	76° 21' 50.189" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
BMP	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F002	Yes	5.60	37° 8' 3.077" N	76° 21' 45.182" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F003	Yes	3.17	37° 7' 54.992" N	76° 21' 46.638" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F004	Yes	11.29	37° 7' 54.253" N	76° 21' 45.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F005	Yes	1.23	37° 7' 53.643" N	76° 21' 34.760" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F006	Yes	0.38	37° 7' 53.199" N	76° 21' 33.717" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F007	Yes	27.32	37° 7' 52.880" N	76° 21' 41.655" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F008	Yes	14.60	37° 7' 46.809" N	76° 21' 10.356" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F009	Yes	5.19	37° 7' 46.450" N	76° 21' 32.845" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F010	Yes	1.50	37° 7' 44.436" N	76° 21' 32.614" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	F	F011	Yes	31.11	37° 7' 41.632" N	76° 21' 27.522" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F012	Yes	15.98	37° 7' 37.329" N	76° 21' 49.831" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F013	Yes	21.29	37° 7' 32.037" N	76° 21' 49.801" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F014	Yes	12.62	37° 7' 29.477" N	76° 21' 46.937" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F015	Yes	13.38	37° 7' 28.756" N	76° 21' 46.569" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F016	Yes	10.72	37° 7' 25.584" N	76° 21' 45.430" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F017	Yes	12.81	37° 7' 22.000" N	76° 21' 52.484" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F018	Yes	55.85	37° 7' 18.765" N	76° 21' 0.906" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F019	Yes	3.25	37° 7' 18.713" N	76° 21' 55.059" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F020	Yes	9.33	37° 7' 18.186" N	76° 21' 43.122" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Cedar & Topping Creeks	Yes	F	F021	Yes	3.44	37° 7' 17.764" N	76° 22' 3.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F022	Yes	0.34	37° 7' 13.784" N	76° 21' 2.418" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F023	Yes	2.44	37° 7' 13.412" N	76° 20' 54.641" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	orthwest Br. Back River - Upper [TMDL not C	Yes	F	F024	Yes	28.15	37° 7' 12.619" N	76° 21' 31.527" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F025	Yes	2.06	37° 7' 11.763" N	76° 21' 11.713" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB22	20801080102	Watts Creek - (NW Br. Back River)	Yes	F	F026	Yes	0.73	37° 7' 7.229" N	76° 21' 15.552" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G001	Yes	0.49	37° 8' 25.541" N	76° 21' 51.585" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Lower Middle	Yes	G	G002	Yes	0.10	37° 8' 24.231" N	76° 21' 50.751" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G003	Yes	2.38	37° 8' 23.060" N	76° 21' 45.368" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G004	Yes	1.00	37° 8' 19.116" N	76° 21' 37.609" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G005	Yes	2.45	37° 8' 17.283" N	76° 21' 34.800" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G006	Yes	3.51	37° 8' 10.772" N	76° 21' 26.933" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G007	Yes	2.77	37° 8' 6.926" N	76° 21' 23.323" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G008	Yes	0.68	37° 7' 57.718" N	76° 21' 18.627" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G009	Yes	2.04	37° 7' 54.977" N	76° 21' 15.698" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G010	Yes	2.11	37° 7' 50.074" N	76° 21' 8.507" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G011	Yes	0.36	37° 7' 48.084" N	76° 20' 28.426" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	G012	Yes	4.38	37° 7' 46.900" N	76° 21' 6.502" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G013	Yes	1.88	37° 7' 46.775" N	76° 20' 27.086" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Easton Cove	Yes	G	G014	Yes	78.43	37° 7' 44.381" N	76° 20' 58.808" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G015	Yes	5.93	37° 7' 40.111" N	76° 20' 17.492" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unnamed Tributary to Easton Cove	Yes	G	G016	Yes	16.30	37° 7' 39.226" N	76° 20' 32.982" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G017	Yes	1.51	37° 7' 37.252" N	76° 20' 12.299" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G018	Yes	2.48	37° 7' 35.288" N	76° 20' 50.799" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Unsegmented estuaries in Back River	Yes	G	G019	Yes	2.05	37° 7' 34.471" N	76° 20' 5.864" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB21	20801080101	Easton Cove	Yes	G	G020	Yes	100.00	37° 7' 32.724" N	76° 20' 42.957" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Front Cove - Upper	Yes	G	G021	Yes	0.74	37° 7' 26.489" N	76° 19' 59.887" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Front Cove - Upper	Yes	G	G022	Yes	6.01	37° 7' 25.272" N	76° 19' 59.632" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G023	Yes	3.56	37° 7' 16.693" N	76° 20' 23.063" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G024	Yes	61.93	37° 7' 15.605" N	76° 20' 6.409" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G025	Yes	1.59	37° 7' 15.233" N	76° 19' 52.068" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G026	Yes	2.59	37° 7' 15.180" N	76° 20' 28.970" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G027	Yes	0.26	37° 7' 15.106" N	76° 20' 35.648" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G028	Yes	2.30	37° 7' 14.882" N	76° 20' 37.455" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G029	Yes	1.34	37° 7' 13.173" N	76° 19' 50.002" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G030	Yes	1.55	37° 7' 10.318" N	76° 20' 41.575" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G031	Yes	2.27	37° 7' 7.295" N	76° 20' 40.329" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G032	Yes	3.53	37° 7' 5.647" N	76° 19' 40.313" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G033	Yes	0.41	37° 7' 5.625" N	76° 19' 40.252" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G034	Yes	1.90	37° 7' 0.841" N	76° 20' 36.965" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G035	Yes	1.50	37° 6' 58.114" N	76° 20' 35.442" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G036	Yes	1.71	37° 6' 53.574" N	76° 20' 34.814" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G037	Yes	0.94	37° 6' 48.485" N	76° 20' 33.789" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G038	Yes	0.19	37° 6' 46.386" N	76° 20' 32.739" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G039	Yes	0.86	37° 6' 44.571" N	76° 20' 31.004" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G040	Yes	0.40	37° 6' 41.691" N	76° 20' 29.100" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Front Cove - Upper	Yes	G	G041	Yes	4.45	37° 6' 39.547" N	76° 19' 14.512" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Unsegmented estuaries in Back River	Yes	G	G042	Yes	0.99	37° 6' 39.082" N	76° 20' 27.657" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Ditch	CB24	20801080104	Mainstem Back River	Yes	G	G043	Yes	0.65	37° 6' 36.029" N	76° 19' 19.456" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G044	Yes	2.31	37° 6' 33.352" N	76° 19' 10.627" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Pipe	CB24	20801080104	Mainstem Back River	Yes	G	G045	Yes	1.08	37° 6' 30.568" N	76° 20' 23.358" W	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

CITY OWNED BMPs

City-owned BMP Type	VAHU6	HUC 12	Receiving Water	Impaired	Zone	NAME	Estimated Service Area (Ac)	Estimated Impervious Area (Ac)	Latitude	Longitude	Bay TMDL	Other TMDL	Predominant Land Use
Wet Pond	CB21	20801080101	Bennett Creek - Upper (DSS_06-IR)	Yes	G	South Lawson Park Pond	16	2.29700000000	37.1249499	-76.35315853	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Constructed Wetland	CB22	20801080102	Northwest Br. Back River - Upper	Yes	G	City Hall Wetland	20	8.88000000000	37.12441521	-76.39738932	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential
Wet Pond	CB22	20801080102	Northwest Br. Back River - Upper	Yes	G	Library Pond	7	3.41000000000	37.12170898	-76.39790271	Yes	Fecal Coliform; approved by the SWCB Dec. 2017; by EPA FEB 2018	Urbanized; no industrial; predominantly residential

Sec. 34-86. Enforcement.

(a) If the City Engineer or their designee determines that there is a failure to comply with the land-disturbance approval conditions or determines there is an unauthorized discharge, notice shall be served upon the person responsible for carrying out the site conditions by any of the following: verbal warnings and inspection reports, notices of corrective action, consent special orders, and notices to comply. Written notices shall be served by registered or certified mail to the address specified in the land disturbance approval application or by delivery at the site of the development activities to the agent or employee supervising such activities.

(1) The notice shall specify the measures needed to comply with the land-disturbance approval conditions and shall specify the time within which such measures shall be completed. Upon failure to comply within the time specified, a stop work order may be issued in accordance with Subsection 2 or the permit may be revoked by the Administrator.

(2) If an operator fails to comply with a notice issued in accordance with this Section within the time specified, the City Engineer or their designee may issue an order requiring the owner, operator, person responsible for carrying out an approved plan, or the person conducting the land-disturbing activities without an approved plan or required land-disturbance approval to cease all land-disturbing activities until the violation of the land-disturbance approval has ceased, or an approved plan and required approvals are obtained, and specified corrective measures have been completed.

Such orders shall become effective upon service on the person by certified mail, return receipt requested, sent to his address specified in the land records of the locality, or by personal delivery by an agent of the Administrator. However, if the City Engineer or their designee finds that any such violation is grossly affecting or presents an imminent and substantial danger of causing harmful erosion of lands or sediment deposition in waters within the watersheds of the Commonwealth or otherwise substantially impacting water quality, it may issue, without advance notice or hearing, an emergency order directing such person to cease immediately all land- disturbing activities on the site and shall provide an opportunity for a hearing, after reasonable notice as to the time and place thereof, to such person, to affirm, modify, amend, or cancel such emergency order. If a person who has been issued an order is not complying with the terms thereof, the City Engineer or their designee may institute a proceeding for an injunction, mandamus, or other appropriate remedy in accordance with Subsection (c).

(b) Any person violating or failing, neglecting, or refusing to obey any rule, regulation, ordinance, order, approved standard or specification, or any condition of the land-disturbance approval issued by the City Engineer or their designee may be compelled in a proceeding instituted in the York County Circuit Court by the City to obey same and to comply therewith by injunction, mandamus or other appropriate remedy.

(1) Violations for which a penalty may be imposed under this Subsection shall include but not be limited to the following:

(i) No state permit registration;

(ii) No SWPPP;

(iii) Incomplete SWPPP;

(iv) SWPPP not available for review;

(v) No approved erosion and sediment control plan;

(vi) Failure to install stormwater BMPs or erosion and sediment controls;

(vii) Stormwater BMPs or erosion and sediment controls improperly installed or maintained;

(viii) Operational deficiencies;

(ix) Failure to conduct required inspections;

(x) Incomplete, improper, or missed inspections; and

(xi) Discharges not in compliance with the requirements of 9VAC25-880-70.

(2) The City Engineer may issue a summons for collection of the civil penalty and the action may be prosecuted in the appropriate court.

(3) In imposing a civil penalty pursuant to this Subsection, the court may consider the degree of harm caused by the violation and also the economic benefit to the violator from noncompliance.

(4) Any civil penalties assessed by a court as a result of a summons issued by the City shall be paid into the treasury of the City to be used for the purpose of minimizing, preventing, managing, or mitigating pollution of the waters of the locality and abating environmental pollution therein in such manner as the court may, by order, direct.

(c) Notwithstanding any other civil or equitable remedy provided by this ordinance or by law, any person who willfully or negligently violates any provision of this ordinance, any order of the Administrator, any condition of a permit, or any order of a court shall, be guilty of a misdemeanor punishable by confinement in jail for not more than 12 months or a fine of not less than $2,500 nor more than $32,500, or both.

City of Poquoson
Fire and Rescue

830 Poquoson Ave.
Poquoson, VA 23662
757-868-3510
F757-868-3514

SPECIAL OPERATIONS

SOP#: SO 2.00

Title: Hazardous Materials Incident

Effective Date: 06/06/2008

Revised Date: 06/06/2008

Fire Chief's Signature

City Manager's Signature

HAZARDOUS MATERIALS INCIDENTS

I. PURPOSE

This is to provide guidelines for engine company response to possible hazardous material incidents. Areas addressed within this guideline cover five general areas.

- Actions taken by the engine company upon receipt of and while en route to a possible hazardous materials incident.
- Actions to be taken by the engine company upon arrival at and while on the scene of a possible hazardous materials incident in transportation at fixed facilities.
- Proper response to roadway spills.
- The notification and possible response of the local Hazardous Materials Team.
- Emergency Decontamination of contaminated personnel.

This SOP is not all-inclusive and cannot encompass all situations that may be encountered.

II. APPLICATION

All Career and Volunteer Personnel

III. POLICY

Upon receipt of a call identifying a possible hazardous materials incident, the first responding officer should use the following guidelines to assist in the initial size-up of the incident.

1. Request all available information from the dispatcher.
   - Nature of the call
   - Who requested the Fire Department / number of calls
   - Type of facility or vehicle(s) involved
   - Number of injured persons, and any outward signs and symptoms.
   - Any specific chemicals, if known

2. Obtain wind speed and direction from the dispatcher.

3. Upon arrival
   - Determine that there is a problem
   - Look for signs of an intentional act; WMD
   - Isolate area of incident, deny entry.
   - **Refer to Emergency Response Guidebook for initial actions and isolation distances.**
   - Make notifications as soon as possible, example: Police, Haz-Mat team, Hospitals etc.

Fixed Site Incidents

SAFETY OF THE RESPONDING FIREFIGHTERS IS TO BE GIVEN FIRST CONSIDERATION BEFORE ANY ACTION IS UNDERTAKEN. (It is strongly suggested that the Incident Commander, advise all responding units to stage while an initial assessment is conducted.)

Apparatus should stage **UP-HILL-AND-UP-WIND** at a safe distance from the incident.

Establish Command and gather the following information:

- Locate the person who requested the Fire Department and verify the reason for requesting assistance.
- Attempt to determine the chemicals involved.
- Obtain all available information on the health hazards of the chemicals involved.
- Determine the quantity of chemicals involved.
- Gather all available information on the physical and chemical properties of the chemicals involved. Including if the chemicals react to other products/chemicals.
- Try to obtain MSDS sheets, Bill of Laden, Cargo Manifest or Shipping Papers on the chemicals involved.

Based upon the information gathered, determine if the Engine Company is capable of providing the actions required to **MITIGATE** the hazard.

Request the Hazardous Materials Team for specialized assistance if required.

Determine if evacuation is necessary.

Transportation Incidents

Establish command and gather information.

Attempt to locate the driver of the vehicle and ascertain what products are in the shipment.

Observe the vehicle from a safe distance noting trailer style and construction.

- Box trailer
- Tank trailer and shape of the tank

LOOK FOR PLACARDS, LABELS, U.N. / N.A. ID NUMBERS ON THE TANK AND RECORD THEM.

Look for leaks or spills.

- Amount of product that has spilled or leaked.
- Potential danger of entering waterways, storm sewers, or domestic systems

Determine the type and location of damage to vehicle.

Observe vapor production and direction of the vapor plume.

Attempt to obtain the Bill of Lading if it can be done SAFELY.

- Normally located in the pouch on the driver's door or on the driver's seat when the driver is away from the vehicle.
- If two trailers are being drawn in tandem (PIGGY-BACK) the Bill of Lading of the rear trailer may be locked in that trailer and unavailable.
- Intermodal tanks will have a tube secured to the tank with papers inside.

If the vehicle is involved in fire and has liquid or vapor products burning;

- DO NOT EXTINGUISH VALVE FIRES IF CONTAINER IS PRESSURIZED UNLESS THE LEAK CAN BE STOPPED IMMEDIATELY AFTER EXTINGUISHMENT. (Consider tank cooling to prevent B.L.E.V.E.)
- DO NOT ATTEMPT TO EXTINGUISH FIRES USING FOAM UNLESS ENOUGH FOAM IS AT THE INCIDENT TO SUCCESSFULLY EXTINGUISH THE FIRE.

Roadway Spills

For a small quantity fuel spill on the highways (defined as fuels in storage tanks designed for vehicle operation), spread control should be initiated as necessary to prevent contamination of surrounding waterways. City agencies may be requested as needed for

containment supplies. Because spill quantities should be limited (review above definition), debris can be removed from the scene and transported to the proper facility.

The department of Public Works can be called to the scene with a street sweeper and clean the roadway of any remnants.

Hazardous Materials Team

The Hazardous Materials Team shall be dispatched, by dispatch, during any of the following incidents:

- Any time an Incident Commander requires technical assistance concerning hazardous materials.
- When a hazardous materials incident requires evacuation of the general public or when the incident exposes a hospital, nursing home, school, and/or day care center.
- When personnel encounter products in excess of the following amounts:
    - Poisons - any amount
    - Radioactive - any amount
    - Organic Peroxides - any amount
    - Etiologic Agents (Biomedical materials) - any amount
    - Irritants - any amount
    - Explosives or Blasting Agents - any amount except set explosive devices g) Flammable solids - any amount
    - Flammable Liquids - in excess of 50 gallons
    - Flammable Gases - any amount
    - Corrosives - any amount
    - Oxidizers - any amount
    - Chlorine/Ammonia - any amount
    - Combustible Liquids - in excess of 50 gallons
    - All confirmed Haz-Mat incidents
    - Petroleum spills - in excess of 50 gallons
    - Flammable spills which enter a storm drain or sewer system

Emergency Decontamination

The guidelines below are to be followed in those instances where the appropriate decontamination procedures cannot be followed for reasons of lack of manpower, lack of equipment, lack of time, etc. This technique to be used by the initial engine company, without the resources of the Hazardous Materials Team.

To facilitate this work, it is recommended that a pre-assembled Emergency DECON kit be carried having at least one brush, one bucket and some soap. Failing this, water should be used in copious amounts. A pumper or other water source is required.

The steps to be followed are:

- DECON area is identified.
- Brush off dry product.
- Remove all clothing.
- Thoroughly wash and rinse the victim with soap and water using a brush and not contacting the victim.

These steps should only take a few minutes. They may be altered as necessary.

Remember that speed is of the essence and that if time or equipment deficiency requires it, thorough washing with water is considered emergency decontamination.

Emergency decontamination is to be done rapidly, but effectively. This is very important to insure that there is no product migration from the incident site, so as not to contaminate the transport ambulance or receiving hospital.

If there is a question as to whether DECON is thorough, isolate decontaminated personnel until all doubts are answered.

Illicit Discharge Response Summary Table

Source of Illicit Discharge	Date observed, reported, or both	Was Discharge Discovered by Staff through Dry Weather Screening (DWS), Reported by the Public (RP), or by Other Means (OM)?	Investigation Resolution	Follow Up Activities	Date Investigation Was Closed	Did Spill Occur Within or Outfall Into MS4?
Bilge pump at Marina appeared to leaking fuel into the water	9/4/2023	RP. The Fire department responded to a report of odor at Whitehouse Cove Marina	The Fire Department responded to the call and shut off the source of the leak.	Fire Department contacted VDEM and ensured appropriated actions had been taken. VDEM responded that no further action was required.	9/4/2023	Spill occurred in state waters and the relevant authorities were contacted.
Boat was reported to be sinking	11/20/2023	RP. The Fire department responded to a report of a sinking boat	The Fire Department found the boat taking on water quickly. Boat was unable to be saved and sunk. Hazards were contained.	Fire Department contacted VDEM and DEQ to make a report. Owner scheduled salvage for his sunken boat	11/20/2023	Spill occurred in state waters and the relevant authorities were contacted.
Odor of diesel fuel at Surfrider restaurant	2/18/2024	RP. The Fire department responded to a report of a diesel fuel smell at Surfrider restaurant	The Fire Department responded to the call and saw light sheen in the water. Attemped to find a source but was unable to. According to other boat owners, the sheen had been there earlier. Fire Department considered it not a recoverable product. Fire Department was called back 5 days later for a similar case. Absorbent boom was placed in an effort to cover any product possible. Source was never able to be located	Fire Department notified the Virginia VDEM EOC, which concurred with the Fire Department's opinion. At the later incident, VDEM sent out two employees to investigate	2/24/2024	Spill occurred in state waters and the relevant authorities were contacted.
Possible fuel spill at Whitehouse Cove Marina	3/18/2024	RP. The Fire department responded to a report of a fuel spill at Whitehouse Cove Marina.	Fire Department responded to the call and placed a boom around an older boat that was leaking.	Spill was less than 1 gallon. Boom was left in place for the weekend. Follow up meeting was scheduled for Monday.	3/18/2024	Spill occurred in state waters and the relevant authorities were contacted.

DRY WEATHER/ILLICIT DISCHARGE SCREENING PROTOCOL

Purpose

In accordance with its MS4 permit, Poquoson must develop a dry weather screening protocal to find and eliminate to the maximum extent practicable illicit discharges into its storwmater system. These SOP's are intended to accomplish this goal.

Scope

Dry weather screening is primarily conducted by Public Works and City Engineering employees. However, detecting and eliminating illicit discharges is the joint responsibility of all employees. City departments will incorporate good housekeeping measures and will notify the proper authority of suspected illicit discharges in a timely manner.

Training

In order to ensure all employees understand their responsibilities and requried courses of action in the event of seeing or being informed of a possible illicit discharge, all department heads will be briefed on standard operating procedures at least once a permit cycle. Personnel charged with screening for, investigating or handling illicit discharges will be trained in accordance with MS4 permit requirements.

Fire Department

The Fire Department will respond to all reports of discharges of hazardous substances in accordance with DEQ requirements. Other City personnel shall notify the Fire Department if a hazardous discharge is suspected.

Public Works Employees

Public works employees serve as the front line of defense against and the primary screeners for illicit discharges. Poquoson is a low lying coastal community that routinely experiences flooding. Maintenance of the City's drainage sytem is a year-round, constant activity. All Public Works employees will be trained to identify, investigate and report illicit discharges. Those employees working in or near the drainage system will perform an initial screening of the entire length of the MS4 segment in which they are working prior to beginning work. The crew chief will fill out screening forms and report to the drainage supervisor. The drainage supervisor will keep all records and provide updates to the City Engineer. If a potential discharge is suspected, the crew chief will immediately follow the potential discharge to determine its source. If a source cannot be identified or if there are indicators that standing water in a ditch or pipe could be something other than groundwater or tidal water, the crew chief will notify the City Inspector and the City Engineer. The drainage supervisor will receive additional training on teh importance of screening for and identifying illicit discharges, and will ensure his crews are properly trained.

City Inspector

The City Inspector will respond to all complaints of illicit discharges and follow up on any discharges identified by fellow employees. The City Inspector will initiate enforcement actions as needed; take samples of suspected discharges; and consult with the City Engineer and Environmental Compliance Officer.

Planned FY 2025 Inspections and Rationale

	Priorities and Rationale
General: Configuration of the City	Poquoson's primary land use is single family residential. There is a limited amount of commercial land uses supporting suburban living, such as restaurants and grocery stores. Most commercial land uses are located along Wythe Creek Road. There are a few marinas located outside the City's MS4 service area. There are no industrial land uses in the City. Over 99% of all homes are connected to public sewer. The City itself is configured into one concentrated, developed area surrounded on three sides by water and tidal wetlands.
History of Detecting Discharges	Adequate drainage and water flow is a key concern due to the community's low laying nature. In addition, the City has a strong focus on environmental issues. Due to these factors, as well as highly visible drainage systems, result in illicit discharges often being reported to the City as they are happening. Historically, that is how most large illicit discharges are detected and reported. Discharges that are discovered during inspections often tend to be discharges caused by common residential uses, such as yard waste, pet waste, motor oil, or cooking waste.
Areas of the City Where Illicit Discharges are most often found	Yard wastes, pool filter discharge lines, motor oil are typically found in the City's residential areas. Discharges tend to occur in open ditches as opposed to closed pipe systems. Commercial dumpsters are another source of possible illicit discharges. Prioritized areas are those portions of the system located downstream of dense residential development and outfalls of commercial areas. Outfalls located further downstream outside of the area easily accessed by residents are a lower priority. In addition to the MS4, the City should continue to monitor the Messick Point area, as this is an isolated area that has a history of chemical drop offs and frequent refuse.
FY 2024 Priorities	Public Works will continue to inspect outfalls in sub areas C, D, and E. C010 is downstream of a large ongoing construction project and should be inspected. E017 is also downstream of a large new construction site and should be inspected. Inspections will continue in the most populated areas of the City, with isolated and smaller outfall inspections occurring after the ones listed herein.
Additional Concerns	The 2024 Poquoson Seafood Festival is currently planned for October 2024. After the event is completed, the site will be inspected to make sure that proper cleanup has taken place. Note that this list of planned inspections is subject to change based on new construction, staffing, citizen input, pandemic related issues, and flooding concerns. If enough warning is given, be aware that staff members walk the entire drainage system prior to a hurricane.

Month	outfalls	length ditches, l.f.	# outfalls
Jul-23	B: 1, 2, 2a, 2b, 2c, 2d; E: 2f	5,650	7
Aug-23	B: 1a, 4; C: 1a, 1d, 1e, 6, 6a, 7a, 8	4,004	9
Sep-23	D: 5b, 7b; E: 2e, 2f, 2g, 7	5,463	6
Oct-23	C: 13, 14, 15, 18, 19; E: 5b; F: 4a, 4b	4,140	8
Nov-23	B: 8b; E: 8a, 8b; F: 5	8,341	4
Dec-23	B: 2a, 2c; C: 1a; G: 5g	9,037	4
Jan-24	A: 1d, 5a; C: 9c; D: 3e; E: 2e; F: 2b	10,627	6
Feb-24	A: 11, 11a; B: 8, 12; C: 2b; D: 8, 8a, 8b; E: 2e, 2f, 2g, 5e; F: 5b	15,339	13
Mar-24	B: 4; C: 2b, 5, 6, 6a, 7a; E: 7; F: 5b, 5c, 6	11,728	10
Apr-24	C: 6, 6a, 8; D: 1, 4c, 4d; E: 2d; F: 6a	11,650	8
May-24	C: 17, 18, 20, 21; D: 3d; E: 1c, 1f, 1h, 6, 8, 8a	8,905	11
Jun-24	C: 2a, 2c; E: 2f; F: 5c, 5d	3,567	5
total		**98,451**	**91**

DRY WEATHER SCREENING
ILLICIT DISCHARGE DETECTION DATA SHEET

Year 2024
February

Date	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st
Time	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm	7am-3pm
Illicit Discharge	Illicit discharge found-adress,information,pictures etc. Page # 2																														
	*Check all city, clean leaves and debris as part of annual preventative maintenance & rain / storm events																														
PUBLIC WORKS I.D.NUMBER SECTION	E	B	N/A	N/A	B	D	D	D	D	N/A	N/A	D	C	A	A	A,B,C	N/A	N/A	N/A	E	E	E	E	N/A	N/A	B	B	B	F		
DITCH	E5	12	N/A	N/A	12	8A,B	8A,B	8A,B	8A,B	N/A	N/A	8	2B	11/11a	11/11a	ALL	N/A	N/A	N/A	2F,G	2F,G	2E	2E	N/A	N/A	B	8,B	8,B	5,B		
WEATHER :																															
Cold- Warm-Cool- Snow	cool	cool	N/A	N/A	cool	cool	cool	cool	cool	N/A	N/A	cool	cool	cool	cool	cool	N/A	N/A	N/A	cool	cool	cool	cool	N/A	N/A	cool	warm	warm	cool		
Dry - Wind- Calm	calm	calm	N/A	N/A	wind	wind	wind	calm	calm	N/A	N/A	wind	wind	calm	calm	calm	N/A	N/A	N/A	calm	calm	calm	wind	N/A	N/A	calm	wind	wind	wind		
Sunny- Cloudy-Rain	sunny	cloudy	N/A	N/A	sunny	sunny	sunny	sunny	cloudy	N/A	N/A	rain	rain	sunny	sunny	sunny	N/A	N/A	N/A	sunny	sunny	sunny	rain	N/A	N/A	sunny	sunny	rain	sunny		
Date of Last Rain Event	28-Jan	28-Jan	N/A	N/A	28-Jan	28-Jan	28-Jan	28-Jan	28-Jan	N/A	N/A	11-Feb	12-Feb	12-Jan	12-Feb	12-Feb	N/A	N/A	N/A	12-Feb	12-Feb	12-Feb	12-Feb	N/A	N/A	23-Feb	23-Feb	28-Feb	29-Feb		
Quantity (in.)	0.25	.25"	N/A	N/A	.25"	.25"	.25"	.25"	.25"	N/A	N/A	1.73"	.55"	.55"	.55"	.55"	N/A	N/A	N/A	.25"	.25"	.25"	.25"	N/A	N/A	0.08"	.08"	0.11"	.43"		
PAVED	N/A	N/A	N/A	N/A	N/A	570	N/A	285	285	N/A	N/A	N/A	N/A	N/A	N/A	900	N/A	N/A	N/A	N/A	N/A	NA	N/A	N/A	N/A	1200	3658	3658	N/A		
NON-PAVED	590	500	N/A	N/A	755	N/A	400	200	200	N/A	N/A	1560	800	648	648	800	N/A	N/A	N/A	913	913	600	600	N/A	N/A	N/A	N/A	N/A	960		
TOTAL FEET	590	500	N/A	N/A	755	570	400	485	485	N/A	N/A	1560	800	648	648	1700	N/A	N/A	N/A	913	913	600	600	N/A	N/A	1200	3658	3658	960		
CONDITION IS IT FILLED IN?	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
ILLICIT DISCHARGE	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
ARE ANY PIPES OR DITCHES DUMPING SOMETHING OTHER THAN STORMWATER INTO DRAINAGE SYSTEM?																															
YES - NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
IF YES , DESCRIBE WHAT YOU SAW AND ANY ACTION TAKEN:	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
PHYSICAL INDICATORS																															
Is Water Flowing from Outfall?	YES	YES	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES	YES	N/A	N/A	N/A	YES	YES	YES	YES	N/A	N/A	YES	YES	YES	YES		
Flow Rate: Low, Medium, or High?	MED.	MED.	N/A	N/A	MED.	MED.	MED.	MED.	MED.	N/A	N/A	MED.	LOW	MED.	MED.	MED.	N/A	N/A	N/A	HIGH	HIGH	MED.	MED.	N/A	N/A	HIGH	HIGH	HIGH	MED.		
DID YOU NOTICE ANY UNUSUAL SMELLS?	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
SEWAGE	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
PETROLEUM	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
RANCID / SOUR	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
SULFUR (ROTTEN EGGS)	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		

DID THE WATER HAVE UNUSUAL COLOR OR OILY SHEEN?IF SO,DESCRIBE:	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
WAS ANYTHING UNUSUAL FLOATING IN WATER?EX:TOILET PAPER,SUDS ETC.	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
WAS ANYTHING UNUSUAL ABOUT THE VEGATATION?	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
WAS THERE ANYTHING ELSE UNUSUAL IN THE AREA?	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO	NO	N/A	N/A	N/A	NO	NO	NO	NO	N/A	N/A	NO	NO	NO	NO		
							See Page 2																							

INCIDENT

Incident Number: PF-2023-00001463
Incident Date: 09/04/2023
NFIRS Number: 0000695
Incident Type: (411) - Gasoline or other flammable liquid spill

FDID: 73500
Station: Station 2
Shift: B-Shift
District:

Initial Dispatch Code:

Alarms:
Working Fire?: No
COVID-19 was a factor: No, COVID-19 was not a factor
Critical Incident:
Critical Incident Team:

Temporary Resident Involvement:

Hazardous Materials Released:

Action Taken 1: (86) - Investigate

Action Taken 2: (84) - Refer to proper authority

AID

Aid Given/Received: (N) - None

LOCATION

Location Type: (1) - Street address

Address: 105 RENS Road, Slip 61, Poquoson, Virginia, 23662

Cross Street, USNG, or Directions:
Latitude: 0.00000000
Longitude: 0.00000000
Census Tract:

Detector Alerted Occupant:

Property Use: (898) - Dock, marina, pier, wharf
Mixed Use:

TIMES

PSAP Received: 11:02:03, 09/04/2023
Dispatch Notified Time: 11:02:03, 09/04/2023
Alarm Time: 11:02:03, 09/04/2023

Arrival Time: 11:12:20, 09/04/2023
Water on Fire Time:
At Patient Time:

TIMES

Loss Stop Time

Controlled Time

Last Unit Cleared Time: 12:16:28, 09/04/2023

Total On Scene Time: 1 hrs 4 mins 8 sec

Total Incident Time: 1 hrs 14 mins 25 sec

COUNTS

Counts Include Aid Received?: No

Suppression:		EMS:		Other:	
Apparatus	Personnel	Apparatus	Personnel	Apparatus	Personnel
2	3	0	0	1	1

PERSON/OWNER

Owner:

Name

Business Name

Phone

Insurance Company

Total Insurance Amount

Address

Person:

Name

Business Name

Phone

Address

VEHICLE

Vehicle 1:

Vehicle Type: (41) - Boat less than 65 ft in length overall

Make: (AV) - Antique Vehicle

Model: Jefferson

Year: 0

Color: White

VIN: KYS42207E787

License Plate: USCG-92179

State: (VA) - Virginia

Expires

Odometer

Reported Stolen?: No

Extrication Needed?: No

Extrication Time

Persons Involved

Insured Name

Policy Type

Policy Number

Claim Number

Insurance Company Name

Insurance Co. Phone

Insurance Co. Email

VEHICLE

Insurance Company Address

Insurance Agent

Law Enforcement Officer

Police Report/File Number

Number of Occupants

Number of Injuries

Number of Fatalities

Supplies Used

Notes

AUTHORIZATION

Report Writer:

Name	Employee Number	Assignment	Authorization Date
LITTLE, ALLEN	1298	Officer	09/04/2023

Officer in Charge:

Name	Employee Number	Assignment	Authorization Date
LINTON, JOHN-PAUL	539		09/04/2023

Quality Control:

Name	Authorization Date
LINTON, JOHN-PAUL	09/04/2023

INCIDENT NARRATIVE

Engine 21 responded to a fuel leak at Whitehouse Cove Marina with report of odor, bur unconfirmed location, just general area. Battalion 1 and Engine 1 added for manpower and equipment.

Upon arrival to the marina, Engine 21 was met by vessel owner who advised he had a fuel leak out of his bilge pump. Vessel owner advised bilge pump was shut off and estimated approximately 3 gallons of fuel loss out of a 200-gallon tank. Engine 21 advised responding units of update, arrived on scene, and confirmed slip 61 as the location of the spill. Engine 21 noted a 45' personal watercraft with no active fuel leak but noted a sheen of fuel in the water on the starboard side of the boat moving to the bow and spreading out into Whitehouse Cove. Engine 1 and Battalion 1 arrived with boom to surround the vessel if needed. Engine 1 confirmed no active leak. Battalion 1 notified VDEM for recommendations. Vessel owner did disconnect power to the bilge pump and was in the process of contacting someone to tow the boat to York Haven Marina for repair. Vessel owner advised crews and marina staff that the power to the bilge pump will remain disconnected and the boat towed on Wednesday at the earliest.

Per VDEM, appropriate actions were taken, and no further actions were required. Whitehouse Cove Marina manager arrived on scene early in the incident and was aware of the current situation and mitigation plan.

CAD Notes:NEAR SURF RIDER OR TOWARDS THE RIGHT OF G DOCK...VERY STRONG SMELL OF DISEAL FUEL IN AREA BUT DOESNT SEE THE SOURCE. WILL BE ON SCENE FOR A BIT NEAR 44 AND 47 WILL BE SLIP 61 (PF/PE21) LOACTED VESSEL PLACING DOWN FOAM TO SOAK UP FUEL (PF/PBAT1) < CASSEY W/ EOC REQUEST A PCALL FROM PBAT1 - 804 674 2400 > PBAT1 XFERRED TO EOC HAZZARD MITIGATED (PF/PE21)

Created By: LITTLE, ALLEN

Unit Reports

PE1

Use	Responding From	Priority
(1) - Suppression		

PE1

Response Delays

Dispatch Time	Enroute Time	Arrival Time
11:09:01, 09/04/2023	11:09:09, 09/04/2023	11:14:00, 09/04/2023

At Patient Time	Clear Time	In District Time
	12:15:01, 09/04/2023	

Actions Taken:
Investigate

Personnel
COREY ARCHER

PBAT1

Use	Responding From	Priority
(0) - Other		

Response Delays

Dispatch Time	Enroute Time	Arrival Time
11:06:27, 09/04/2023	11:07:15, 09/04/2023	11:12:20, 09/04/2023

At Patient Time	Clear Time	In District Time
	12:16:28, 09/04/2023	

Actions Taken:
Investigate, Refer to proper authority

Personnel
JOHN-PAUL LINTON

PE21

Use	Responding From	Priority
(1) - Suppression		

Response Delays

Dispatch Time	Enroute Time	Arrival Time
11:05:15, 09/04/2023	11:07:15, 09/04/2023	11:12:56, 09/04/2023

At Patient Time	Clear Time	In District Time
	12:16:28, 09/04/2023	

Actions Taken:
Investigate

Personnel
ALLEN LITTLE, CHRISTOPHER TANTILLO

INCIDENT

Incident Number: PF-2023-00001986
Incident Date: 11/20/2023
NFIRS Number: 0001231
Incident Type: (411) - Gasoline or other flammable liquid spill

FDID: 73500
Station: Station 1
Shift: B-Shift
District:

Initial Dispatch Code: motor yacht- taking on water.

Alarms:
Working Fire?: No
COVID-19 was a factor: No, COVID-19 was not a factor
Critical Incident:
Critical Incident Team:

Temporary Resident Involvement:

Hazardous Materials Released:

Action Taken 1: (80) - Information, investigation & enforcement, other

Action Taken 2: (84) - Refer to proper authority

Action Taken 3: (43) - Hazardous materials spill control and confinement

AID

Aid Given/Received: (N) - None

LOCATION

Location Type: (1) - Street address

Address: 105 RENS Road, Poquoson, Virginia, 23662

Cross Street, USNG, or Directions:
Latitude: 0.00000000
Longitude: 0.00000000
Census Tract:

Detector Alerted Occupant:

Property Use: (898) - Dock, marina, pier, wharf
Mixed Use:

TIMES

PSAP Received: 11:14:49, 11/20/2023
Dispatch Notified Time: 11:14:49, 11/20/2023
Alarm Time: 11:14:49, 11/20/2023

TIMES

Arrival Time: 11:17:52, 11/20/2023
Water on Fire Time:
At Patient Time:
Loss Stop Time:
Controlled Time:
Last Unit Cleared Time: 13:08:23, 11/20/2023
Total On Scene Time: 1 hrs 50 mins 31 sec
Total Incident Time: 1 hrs 53 mins 34 sec

COUNTS

Counts Include Aid Received?: No

Suppression:		EMS:		Other:	
Apparatus	Personnel	Apparatus	Personnel	Apparatus	Personnel
1	1	0	0	1	1

PERSON/OWNER

Person:

Name:
Business Name:
Phone:
Address:

AUTHORIZATION

Report Writer:

Name	Employee Number	Assignment	Authorization Date
COOPER, CLAY	617	Btn-1	11/20/2023

Officer in Charge:

Name	Employee Number	Assignment	Authorization Date
COOPER, CLAY	617		11/20/2023

Quality Control:

Name	Authorization Date
COOPER, CLAY	11/20/2023

INCIDENT NARRATIVE

Btn-1 dispatched for a vessel, 50-foot trojan motor yacht-slip 116. Arrive on scene to find owner and boat was taking on water quickly. Engine 1 dispatched for extra manpower and absorbent boom. Spec ops was brought out with Waterous pumps to attempt to keep boat afloat. Unsuccessful. Boom was placed around "Dire Straits." Owner contacted sea tow and scheduled asap salvage and tow to York haven marina.

VDEM and DEQ was contacted to make a report. Fuel and oil were starting to surface but was under 5 gallons. Hazards contained with boom. No assistance was needed from the state or clean-up company at this time.

Sea tow scheduled to arrive @ 0800 hrs. 11/21/2023 tomorrow morning with a diver and some lift bags.

BC Cooper

Created By: COOPER, CLAY

Unit Reports

PE1

Use: (1) - Suppression

Responding From:

Priority:

Response Delays:

Dispatch Time: 11:56:57, 11/20/2023

Enroute Time: 11:57:21, 11/20/2023

Arrival Time: 12:00:00, 11/20/2023

At Patient Time:

Clear Time: 13:08:23, 11/20/2023

In District Time:

Actions Taken:
Provide manpower, Provide equipment

Personnel
JERED DECKER

PBAT1

Use: (0) - Other

Responding From:

Priority:

Response Delays:

Dispatch Time: 11:17:37, 11/20/2023

Enroute Time: 11:17:38, 11/20/2023

Arrival Time: 11:17:52, 11/20/2023

At Patient Time:

Clear Time: 13:05:06, 11/20/2023

In District Time:

Actions Taken:
Investigate, Hazardous materials spill control and confinement, Refer to proper authority

Personnel Count
0

Construction Site Storm Water Runoff Control

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 4	CONSTRUCTION SITE STORM WATER RUNOFF CONTROL
4.2	Site Inspection SOP
4.2	Site Enforcement SOP
4.2	Typical inspection forms

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.1		Legal Authorities						
4.1a	I.E.4.a.(2)	Construction projects	Implement the VESCP program	E&SC Ordinance citation	Poquoson Engineering Department	Continuously	Ordinance	Compliant. New ordinance adopting the combined VESMP regulations was approved by City Council on 6/10/2024. VESMP ordinance: https://library.municode.com/va/poquoson/codes/code_of_ordinances?nodeId=PTIICOOR_CH34EN_ARTIIIERSECO
4.1b	I.E.4.d.(4)	A description of legal authorities to ensure compliance	Legal authorities such as ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Legal authorities	Poquoson Engineering Department	Continuously	Description of ordinances, permits, orders, contract language, policies, and interjurisdictional agreements	Compliant. The City has adopted an updated VESMP ordinance which contains it's legal authorities. All agreement in lieu of and land disturbance permits state that contractors will follow ordinance or face enforcement action.
4.2		Compliance and Enforcement						
4.2a	I.E.4.d.(5)	Written E&SC inspection procedures	Implement inspection procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See Appendix for SOPs.

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.2b	I.E.4.d.(7)	Written E&SC procedures for requiring compliance through corrective action or enforcement action	Implement corrective or enforcement action procedures	Procedures	Poquoson Engineering Department	Continuously	Procedures	Compliant. See Appendix for SOPs.
4.2c	I.E.4.d.(9)	Roles and responsibilities of each department, division, or subdivision in implementing the E&SC program	Documentation or roles and responsibilities	Documentation	Poquoson Engineering Department	Continuously	Annual Report	Compliant. See Appendix for SOPs.
4.2d	I.E.4.e.(1)	E&SC inspections	Continue to implement construction site BMP inspection provisions of the local E&SC Ordinance	# of inspections	Poquoson Engineering Department	Annually	Summary from Locality tracking system	Compliant. Approximately 1,521 inspections were completed over the last fiscal year. The total permitted disturbed area within the City for FY24 was approximately 100 acres. The majority of disturbed area was from the City's 10 active Construction General Permits (CGP) for large residential subdivision and commercial projects.
4.2e	I.E.4.e.(2)	E&SC enforcement actions	Continue to implement enforcement provisions per local E&SC Ordinance	# enforcement actions	Poquoson Engineering Department	Annually	Summary from Locality tracking system	Compliant. 18 Notice of Repairs/Violation. No Stop Work Orders were issued this PY. Most issues were worked out onsite by talking with contractors.

4. Construction Site Storm Water Runoff Control								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
4.3		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual Report	Compliant. Staff continues to inspect development and enforce compliance with ESC/SWM laws. Large developments are currently under construction and will continue through PY2.

	Standard Operating Procedure
Sites to be inspected	All projects disturbing an area of 2500 square feet or greater. This includes both projects that are issued a land disturbance permit and those subject to an in lieu of agreement.
Responsible Inspectors	Single Family homes and smaller projects shall fall under the purview of the Environmental Compliance Officer. The Engineer will inspect all multi-family and commercial projects. In the event of an absence, the responsible party shall arrange for the other to perform inspections. As a backup in emergency situations, the City construction Inspector can be tasked with performing inspections.
First inspection	Shall occur during or immediately following initial installation of erosion and sediment controls
Inspection Frequency	At least once per every two-week period. The current schedule calls for inspections to occur every other Friday morning. However, this can be modified by the inspectors as necessary.
At minimum inspection items.	Inspection checklist attached. At minimum, the City inspector shall verify that the project's SWPPP is current, and that the site operator is performing inspections every two weeks and within 48 hours following any runoff producing storm event. In addition, erosion and sediment controls will be inspected for condition and overall adequacy. Following a finding of inadequacy, City staff will perform spot checks to ensure that site issues are corrected in a timely manner. See enforcement SOPs.
Final Inspection(s)	Shall occur when the operator notifies the City that the site is stabilized. If City inspectors find inadequacies, they will notify the operator of inadequacies and continue to inspect until site stabilization is achieved.

EROSION AND SEDIMENT CONTROL/STORMWATER INSPECTIONS AND ENFORCEMENT SOPs

FISCAL YEAR 2024

PURPOSE: Projects within the City of Poquoson that disturb 2500 square feet or more are required to have an approved E&SC plan and regular inspections to ensure compliance with the Virginia Erosion and Sediment Control, Chesapeake Bay Preservation, and Stormwater Laws.

City Code Sections and Policies: Inspections will be conducted to ensure compliance with the project SWPPP, the approved E&SC plan, the approved stormwater management plan, and City Code Chapter 34 and Appendix A, Article XI.IV.

Inspection Procedures: See attached for Standard Operating Procedures.

A pre-construction meeting will be held for all commercial and subdivision projects. Single family home projects are not required to have a pre-construction meeting. However, contractors are encouraged to meet with the Environmental Compliance Officer to review site requirements.

All projects, including single family home construction projects, are required to maintain a Stormwater Pollution Prevention Plan (SWPPP) at all times on site. The SWPPP must be available for public viewing, and must be kept up-to-date.

A project folder should be created prior to initiation of construction. Construction and development review information may be stored in the same folder.

Land disturbance sites exceeding 2500 square feet must have an approved E&SC plan or an agreement in lieu of plan, as required by state law. Inspections will be conducted to ensure:

- Compliance with approved plans;
- Efficacy of approved E&SC measures. In the event the measures are not performing adequately, the inspector will require their replacement and/or additional or alternate measures.
- Inspections will be conducted in accordance with and on a schedule set forth in the Virginia Stormwater Management Handbook. Controls preventing non stormwater discharges, such as wastewater, concrete washout, fuels and oils and other illicit discharges shall also be required, in accordance with the state construction permit.
- Inspections will continue until the release of the project E&SC surety.

All site visits will be documented by inspection forms and or entries in the inspector's daily log book. The inspector will retain all inspection records. Photographs of site conditions are encouraged.

Enforcement:

If a land disturbance project is found to be in good order and is acceptable: Document inspection. No further action.

If a project has installed and is maintaining all of its E&SC controls but they do not appear adequate, inspector shall require additional measures.

It is the intent of the City of Poquoson to assist site contractors and their personnel by providing information that will help them better understand the nature of the noncompliance or that will help them expedite the correction of any issue. However, it is ultimately the responsibility of the Responsible Land Disturber and the site owner to ensure that all applicable requirements are met.

If a project is in noncompliance, the issue will be documented using inspection forms. A copy will be sent to the Responsible Land Disturber via fax, email, USPS or hand delivery. The inspection form will identify items that must be addressed. It will give a specific date as to when the site will be re-inspected. The maximum amount of time given on the form should be seven days. Questions on the severability of the deficiencies should be discussed with the City Engineer or the Environmental Compliance Officer.

If deficiencies require immediate attention or the Responsible Land Disturber has failed to comply with a site inspection form, the City inspector may or may not issue a warning. This "second notice" will be provided to the RLD with an updated inspection form. The warning may be omitted and the City may proceed to more aggressive enforcement for multiple deficiencies or if the deficiencies are severe. Severe deficiencies may include but are not limited to significant quantities of sediment leaving the site or sediment running off into a nearby receiving water.

If the warning does not correct the situation or the deficiency is severe enough to warrant more aggressive enforcement, the City will issue a Notice to Comply/Notice of Violation form. The NTC/NOV form should be faxed or emailed to the RLD, with a signed copy of the original form sent via USPS registered mail or hand delivered. Consultation with the City Attorney, the City Engineer and/or the Environmental Compliance Officer on an appropriate time frame for correction may be warranted.

If the deficiencies in the NTC/NOV form have not been corrected within the specified time frame, a STOP WORK order will be issued for all land disturbing activities on the site. If the deficiencies are judged to be severe enough, the inspector may, in consultation with the City Engineer or the Environmental Compliance Officer, issue a STOP WORK order immediately.

If a land disturbance has commenced without the owner obtaining necessary permits, a STOP WORK order will be issued. The STOP WORK order shall remain in effect until all permits have been obtained and any deficient site conditions have been corrected.

The STOP WORK order shall be placed at the entrance to the site and sent via registered USPS mail to the RLD or owner of the property. The order shall remain in effect until the site deficiencies have been corrected. No other land disturbance activities may be conducted while the deficiencies are being corrected.

If the noncompliance issue(s) indicated on the STOP WORK order are not remedied, or if the RLD or property owner fail to contact the City, the project inspector should contact the Environmental Compliance Officer, who will in turn contact the City Attorney. The City will begin the process of revoking the site permit, calling the bond, and/or initiating the civil penalty process.

The City may hire a third party contractor or take whatever actions are necessary to control site runoff and erosion from impacting downstream properties, ditches, wetland areas, or receiving waters.

CITY OF POQUOSON

Department of Community Development

500 CITY HALL AVENUE. POQUOSON, VIRGINIA 23662-1996
(757) 868-3040 TELEPHONE (757) 868-3105 FAX

Permit Number: 20220701

SWPPP Inspection

Insp Date/Time: 03/30/2023

Job Address:	30 Robert Bruce Road Poquoson VA 23662		
Permit Holder:	Lewis McMurran	Parcel ID:	28-01-00-0070
Contact Email:	LAM4@whywestmoreland.com	Contact Phone:	757-817-7872
Contact Address:	729 Thimble Shoals Blvd Ste 6C Newport News, VA 23606	Inspection Status:	3 Notice of Violation
Company Name:	Quarter Creek LLC	Inspected By:	Laura Nusz

Stage of Construction:
- ☐ Pre-Construction
- ☑ Site Improvements
- ☐ Clearing/Grubbing
- ☐ Roads/Utilities
- ☐ Demolition
- ☐ Final Stabilization

Pass	Fail	Checklist Item:	Comments:
☑	☐	Permit Description - Does the permit work description match the activity onsite?	
☐	☑	Part II(D) - Copy of notice of coverage letter posted near main entrance?	Document missing
☐	☑	Part II(E)3 - Information for public access to SWPPP posted near main entrance	Document missing
☐	☑	Part II (E) - Copy of complete SWPPP available onsite for operators	Document missing
☐	☑	Part II (B)1.a - Signed copy of registration statement	Document missing
☐	☑	Part II (B)1.b - Copy of notice of coverage letter	Document missing
☐	☑	Part II (B)1.c - Copy of DEQ construction general permit	Document missing
☐	☑	Part II (B)1.d - Narrative description of construction activity, including the function of the project	Document missing
☐	☑	Part II (B)1.e - Legible site plan	Document missing
☐	☑	Part II (B)1.e(6) - Site plan shows locations of SWPPP support activities including (i)areas where equipment and vehicle washing, wheel wash water, and other wash water is to occur; (ii) storage areas for chemicals such as acids, fuels, fertilizers, and other lawn care chemicals; (iii) concrete/mortar washout areas; (iv) vehicle fueling and maintenance areas; (v) sanitary waste facilities, including those temporarily placed on the construction site; and (vi) construction waste storage.	Document missing
☐	☑	Part II (B)2 - Approved ESC plan, "agreement-in-lieu of a plan," or ESC plan developed in accordance with department approved annual standards and specifications	Document missing

☐	☑	Part II (B)3 - Approved SWM plan and associated calculations developed in accordance with department approved annual standards and specifications	Document missing
☐	☑	Part II (B)4 - Pollution prevention plan	Document missing
☑	☐	Part II (B)5 - Requirements for discharges to impaired waters, surface waters with an applicable TMDL, exceptional waters (if applicable)	
☐	☑	Part II (B)8 - Contact information for qualified personnel conducting inspections	Document missing
☑	☐	Part II (B)9 - Delegation of authority (if applicable)	
☐	☑	Part II (B)10 - SWPPP signed in accordance with Part III K	SWPPP not signed
☐	☑	Part II (C) - SWPPP is being amended, modified, and updated	SWPPP not being amended
☐	☑	Part II (C)3 - SWPPP clearly identifies the contractor(s) that will implement and maintain each control measure identified in SWPPP	Document missing
☐	☑	Part II (C)4.a - Record dates when major grading activities occurred	Document missing
☐	☑	Part II (G) - SWPPP inspections are being conducted at required frequency	Last inspection conducted was 3/7/2023
☐	☑	Part II (G)4 - Inspection reports include summary of findings including required maintenance and any corrective actions	Inspections do not report deficiencies or corrective actions.
☑	☐	Part II (G)5 - Inspection reports retained as part of SWPPP	
☑	☐	Part II (F) - Erosion and sediment controls implemented	
☑	☐	Part II (B)4.e(1) - Prevent and respond to leaks, spills and other releases including (i) procedures for expeditiously stopping, containing, and cleaning up spills, leaks, and other releases; and (ii) procedures for reporting leaks, spills, and other releases	
☑	☐	Part II (B)4.e(2) - Prevent discharge of spilled and leaked fuels and chemicals from vehicle fueling and maintenance activities (e.g. providing secondary containment such as spill berms, decks, spill containment pallets, providing cover where appropriate, and having spill kits readily available)	
☑	☐	Part II (B)4.e(3) - Prevent discharge of soaps, solvents, detergents, wash water from construction materials, including the clean-up of stucco, paint, form release oils, and curing compounds (e.g. providing (i) cover to prevent contact with stormwater; (ii) collection and proper disposal in a manner to prevent contact with stormwater; and (iii) a similarly effective means designed to prevent discharge of these pollutants	

☑	☐	Part II (B)4.e(4) - Minimize discharge of pollutants from vehicle and equipment washing, wheel wash water and other types of washing (e.g. locating activities away from surface waters and stormwater inlets or conveyance and directing wash waters to sediment basins or traps, using filtration devices such as filter bags or using similarly effective controls)	
☑	☐	Part II (B)4.e(5) - Direct concrete wash water into a leak-proof container or leak-proof settling basin that is designed so that no overflows can occur due to inadequate sizing or precipitation. Wash water waste shall not be allowed to discharge to adjacent surface waters. Hardened concrete waste shall be removed and disposed of in a manner similar to other construction waste.	
☑	☐	Part II (B)4.e(6) - Minimize discharge of pollutants from storage, handling, and disposal of construction products, materials and waste including (i) building products such as asphalt sealants, copper flashing, roofing materials, adhesives, concrete admixtures; (ii) pesticides, herbicides, insecticides, fertilizers, and landscape materials; and (iii) construction and domestic wastes such as packaging materials, scrap domestic materials, masonry products, timber, pipe and electrical cuttings, plastic, Styrofoam, concrete, and other trash or building materials.	
☑	☐	Part II (B)4.e(7) - Prevent discharge of fuels, oils, and other petroleum products, hazardous or toxic wastes, and sanitary wastes.	
☑	☐	Part II (B)4.e(8) - Address any other discharge from the potential pollutant-generating activities not addressed	
☑	☐	Part II (B)4.e(9) - minimize the exposure of waste materials to precipitation by closing or covering waste containers during precipitation events and at the end of the business day, or implementing other similarly effective practices. Minimization of exposure is not required in cases where the exposure to precipitation will not result in a discharge of pollutants.	
☑	☐	Part I(B)6, Part I(D), Part II(A)2c(2), or Part II(A)2c(5) - Appears to be impacting receiving waters. {Provide locations & description of impacts}	

Verbal/Written Notification Given To: Lewis McMurran
Final Inspection:
Next Inspection Date: 04/06/2023
Comments: Make all necessary updates to SWPPP documents.

City of Poquoson, Virginia, Code of Ordinances
Sec. 34-77. - Penalties, injunctions, and other legal actions.

(a) Violators of this article shall be guilty of a class I misdemeanor.

(b) Any person who violates any provision of this article shall, upon a finding of the county district court be assessed a civil penalty. The civil penalty for any one violation shall be $100.00, except that the civil penalty for commencement of land disturbing activities without an approved plan shall be $1,000.00. Each day during which the violation is found to have existed shall constitute a separate offense. In no event shall a series of specified violations arising from the same operative set of facts result in civil penalties which exceed a total of $3,000.00, except that a series of violations arising from the commencement of land disturbing activities without an approved plan for any site shall not result in civil penalties which exceed a total of $10,000.00.

(c) The director of engineering, or the owner of property which has sustained damage or which is in imminent danger of being damaged, may apply to the county circuit court to enjoin a violation or a threatened violation of this article, without the necessity of showing that an adequate remedy at law does not exist. However, an owner of property shall not apply for injunction relief unless he has notified in writing the person who has violated the local program, and the program authority, that a violation of the local program has caused, or creates a probability of causing, damage to his property, and neither the person who has violated the local program nor the program authority has taken corrective action within 15 days to eliminate the conditions which have caused, or create the probability of causing, damage to his property.

(d) Any person who violates any provision of this article may be liable to the city in a civil action for damages.

(e) Without limiting the remedies which may be obtained in this section, any person violating or failing, neglecting, or refusing to obey any injunction, mandamus or other remedy obtained pursuant to this section shall be subject, in the discretion of the court, to a civil penalty not to exceed $2,000.00 for each violation. A civil action for such violation or failure may be brought by the city. Any civil penalties assessed by a court shall be paid into the treasury of the city except that where the violator is the locality itself, or its agent, the court shall direct the penalty to be paid into the state treasury.

(f) With the consent of any person who has violated or failed, neglected or refused to obey any regulation or condition of a permit or any provision of this article, the city may provide for the payment of civil charges for violations in specific sums, not to exceed the limit specified in subsection (e) of this section. Such civil charges shall be instead of any appropriate civil penalty, which could be imposed under subsection (e) of this section.

(g) The commonwealth's attorney shall, upon request of the city or the permit issuing authority, take legal action to enforce the provisions of this article.

(h) Compliance with the provisions of this article shall be prima facie evidence in any legal or equitable proceeding for damages caused by erosion, siltation or sedimentation that all requirements of law have been met, and the complaining party must show negligence in order to recover any damages.

(Code 1982, § 9-7; Ord. No. 1120, § 2(9-7), 11-13-2001; Ord. No. 1496, § 1, 6-23-2014)

CITY OF POQUOSON

Department of Community Development

500 CITY HALL AVENUE. POQUOSON, VIRGINIA 23662-1996
(757) 868-3040 TELEPHONE (757) 868-3105 FAX

Permit Number: 20220701

Erosion and Sediment Control Inspection Insp Date/Time: 03/23/2023

Job Address:	30 Robert Bruce Road Poquoson VA 23662		
Permit Holder:	Lewis McMurran	Parcel ID:	28-01-00-0070
Contact Email:	LAM4@whywestmoreland.com	Contact Phone:	757-817-7872
Contact Address:	729 Thimble Shoals Blvd Ste 6C Newport News, VA 23606	Inspection Status:	2 Notice of Repair
Company Name:	Quarter Creek LLC	Inspected By:	Laura Nusz

Stage of Construction:
☐ Pre-Construction ☐ Clearing/Grubbing ☐ Demolition
☐ Site Improvements ☐ Roads/Utilities ☐ Final Stabilization

Pass	Fail	Checklist Item:	Comments:
☑	☐	Permit Description – Does the permit work description match the activity onsite?	
☐	☐	MS1 Stabilization – Have temporary or permanent stabilization measures been applied within 7 days to all denuded areas that have reached final grade or remained dormant for 14 days? Have permanent stabilization measures been applied to areas left dormant for more than one year?	
☐	☐	MS2 Stockpiles – Have all stockpiles or borrow areas been stabilized or protected with sediment trapping measures?	
☐	☐	MS3 Permanent Stabilization – Does permanent vegetative stabilization provide uniform ground cover, is mature enough to survive and inhibits erosion?	
☑	☐	MS4 Perimeter Controls – Have perimeter controls been installed and made operational as a first step in land disturbance?	
☐	☐	MS5 Earthen Structures – Have stabilization measures been applied to all earthen structures such as dams, dikes, and diversions immediately following installation?	
☐	☐	MS6 Sediment Traps/Basins – Have sediment basins and/or sediment traps been designed and installed as per the current VESCH design criteria? Are they functioning per the design criteria?	
☐	☐	MS7 Cut/Fill Slopes – Are cut and fill slopes designed and constructed in a manner that will minimize erosion?	

☐	☐	MS8 Channels/Flumes/Drains – Has concentrated runoff from slopes been contained by an adequate temporary or permanent channel, flume or slope drain structure?	
☐	☐	MS9 Slope Seepage – Has adequate drainage or other protection been provided for water seeps from slopes?	
☐	☑	MS10 Stormwater Inlets – Have all operational stormwater inlets been adequately protected to prevent sediment-laden water from entering the conveyance system?	Damaged IP
☐	☐	MS11 Outlet/channel protected - Has adequate outlet protection and any temporary or permanent channel lining been installed in both the newly constructed conveyance channel and receiving channel prior to making the conveyance system operational?	
☐	☐	MS12 Live Watercourse – Is work in a live watercourse being performed in a manner to minimize encroachment and control sediment transport to the greatest extent possible? Are non-erodible materials being used for the construction of causeways and cofferdams?	
☐	☐	MS13 Temporary Vehicle Crossing – Has a temporary stream crossing using non-erodible materials been constructed when crossing a stream with construction vehicles more than twice within a six month period?	
☐	☐	MS14 Live Watercourse Fed/State/Local Requirement – Are all federal, state and local requirements pertaining to working in or crossing a live watercourse being met?	
☐	☐	MS15 Watercourse Bed/Banks – Have the bed and/or banks of a live watercourse been stabilized immediately following completion of work in the watercourse?	
☐	☐	MS16 Underground Utility – Are underground utilities being installed in accordance with local, state, and federal regulations?	
☑	☐	MS17 Tracking – Are measures in place to minimize tracking by construction vehicles onto paved or public roads? Is tracked sediment being removed and disposed of appropriately at the end of each day? Street washing is only occurring after sediment has been removed by shoveling or sweeping.	
☐	☐	MS18 ESC Measures Removed – Have all erosion and sediment control measures been removed within 30 days of final stabilization or after the temporary measures are no longer needed and all disturbed areas have been stabilized?	

☑	☐	MS19 Downstream Receiving Channels – Are properties and waterways downstream from the site adequately protected from sediment deposition, erosion, and damage due to increases in volume, velocity, and peak flow rate of stormwater runoff?	
☑	☐	IDDE - Is there any evidence of of illicit discharges, spills, and/or leaks?	
☑	☐	Concrete Washout - Does a concrete washout need to be installed onsite? If installed, is the washout facility being maintained and located away from waterways?	
☑	☐	Trash - Are all trash and debris onsite being removed and/or contained in an approved facility?	
☑	☐	Dumpster - Are dumpsters onsite being properly covered during rain events and at the end of each day?	
☐	☑	SWPPP - SWPPP inspection completed (see separate report).	See separate report

Verbal/Written Notification Given To: Lewis McMurran
Final Inspection:
Next Inspection Date: 03/30/2023
Comments: Make all necessary repairs to IP as per VESCH.

City of Poquoson, Virginia, Code of Ordinances
Sec. 34-77. - Penalties, injunctions, and other legal actions.

(a) Violators of this article shall be guilty of a class I misdemeanor.

(b) Any person who violates any provision of this article shall, upon a finding of the county district court be assessed a civil penalty. The civil penalty for any one violation shall be $100.00, except that the civil penalty for commencement of land disturbing activities without an approved plan shall be $1,000.00. Each day during which the violation is found to have existed shall constitute a separate offense. In no event shall a series of specified violations arising from the same operative set of facts result in civil penalties which exceed a total of $3,000.00, except that a series of violations arising from the commencement of land disturbing activities without an approved plan for any site shall not result in civil penalties which exceed a total of $10,000.00.

(c) The director of engineering, or the owner of property which has sustained damage or which is in imminent danger of being damaged, may apply to the county circuit court to enjoin a violation or a threatened violation of this article, without the necessity of showing that an adequate remedy at law does not exist. However, an owner of property shall not apply for injunction relief unless he has notified in writing the person who has violated the local program, and the program authority, that a violation of the local program has caused, or creates a probability of causing, damage to his property, and neither the person who has violated the local program nor the program authority has taken corrective action within 15 days to eliminate the conditions which have caused, or create the probability of causing, damage to his property.

(d) Any person who violates any provision of this article may be liable to the city in a civil action for damages.

(e) Without limiting the remedies which may be obtained in this section, any person violating or failing, neglecting, or refusing to obey any injunction, mandamus or other remedy obtained pursuant to this section shall be subject, in the discretion of the court, to a civil penalty not to exceed $2,000.00 for each violation. A civil action for such violation or failure may be brought by the city. Any civil penalties assessed by a court shall be paid into the treasury of the city except that where the violator is the locality itself, or its agent, the court shall direct the penalty to be paid into the state treasury.

(f) With the consent of any person who has violated or failed, neglected or refused to obey any regulation or condition of a permit or any provision of this article, the city may provide for the payment of civil charges for violations in specific sums, not to exceed the limit specified in subsection (e) of this section. Such civil charges shall be instead of any appropriate civil penalty, which could be imposed under subsection (e) of this section.

(g) The commonwealth's attorney shall, upon request of the city or the permit issuing authority, take legal action to enforce the provisions of this article.

(h) Compliance with the provisions of this article shall be prima facie evidence in any legal or equitable proceeding for damages caused by erosion, siltation or sedimentation that all requirements of law have been met, and the complaining party must show negligence in order to recover any damages.

(Code 1982, § 9-7; Ord. No. 1120, § 2(9-7), 11-13-2001; Ord. No. 1496, § 1, 6-23-2014)

Post Construction Storm Water Management

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 5	POST CONSTRUCTION STORM WATER MANAGEMENT
5.1	VSMP Program Approval Letter
5.3	Maintenance procedures for managing locally owned BMPs
5.3	Employee VSMP certifications
5.3	Locally owned BMP inspections
5.3	Private BMP Inspection & Enforcement Plan
5.3	Private BMP Communications & Provided Private Inspection Forms
5.3	Privately owned BMP tracking spreadsheet

COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
Street address: 629 East Main Street, Richmond, Virginia 23219
Mailing address: P.O. Box 1105, Richmond, Virginia 23218
Fax: 804-698-4019 - TDD (804) 698-4021
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

June 13, 2014

J. Randall Wheeler, City Manager
City of Poquoson
500 City Hall Avenue
Poquoson, VA 23662

Dear Mr. Wheeler:

In accordance with §62.1-44.15:27 G of the Virginia Stormwater Management Act (Act), Department of Environmental Quality (DEQ) has completed the review of the City of Poquoson's final Virginia Stormwater Management Program (VSMP) application package submitted on June 02, 2014. Based on this review, DEQ has determined that the City of Poquoson VSMP is consistent with the Act, the VSMP regulation and the General VPDES Permit for Discharges of Stormwater from Construction Activities.

In light of this determination, DEQ approves the City of Poquoson's VSMP; and the City is authorized to operate a VSMP beginning on July 1, 2014. Please note that this approval is based on the content of the application package. Any changes made to the documents in the package after the approval date, including changes to the adopted ordinance, may necessitate DEQ evaluation as part of its compliance review of your approved VSMP.

Thank you for your cooperation in developing a VSMP. We look forward to continuing to assist the City with the implementation of its VSMP.

Sincerely,

David K. Paylor

cc: Melanie Davenport, Director, DEQ Water Division
Frederick Cunningham, Director, DEQ Office of Water Permits
Joan Salvati, Manager, DEQ Local Government Stormwater Programs

Constructed Wetlands Operations and Maintenance Plan

Vegetation Establishment Period: Provided if new vegetation is installed.

During this establishment period, wetlands plantings shall be procured so that there is a warranty period. Plants that are under warranty and will be monitored and replaced as needed by the Contractor. City staff duties:

Monitor the Contractor's activities to ensure that the warranty is being honored.

- Time period: 12 months after substantial completion
- Frequency: Monthly visual inspection during growing season; bimonthly during winter
- Staff members: Engineering
- Follow up: provide information to contractor on distressed/dead vegetation and/or deficiencies in bird netting (if required).

Evaluate the effectiveness of the types of wetlands plants used.

- Time Period: In spring, after the start of growing season (end of March/April)
- Frequency: Annually
- Staff members: Public Works, Engineering
- Follow up: Create projects for fall planting of new varieties of plants
- Evaluation topics:
    - Do plants in general appear healthy?
    - During the growing season, do they appear to be growing and spreading?
    - Are they blooming at the appropriate time?
    - If not, are there better plant choices? Refer to the latest edition of the Virginia BMP Clearinghouse Specification for Constructed Wetlands.

Monitor the perimeter landscaping: Contractor is also responsible for maintaining the bushes located about the perimeter. Staff's role is to monitor these perimeter plantings to ensure the warranty is being honored.

- Time period: 12 months after construction completion.
- Frequency: Bimonthly
- Staff members: Public works or Engineering staff
- Follow up: Notify contractor regarding distressed/dead vegetation.

City personnel (Public Works) shall reseed grass/maintain good ground cover during establishment period.

Other site features will be maintained per the permanent O&M plan (attached).

Inspections and Ongoing Maintenance

Annual Inspections: City Inspection or Engineering Staff member will inspect the facility at least once a year. Inspection items include:

- Monitor sediment accumulation levels in sediment forebay. Visually monitor every year.
- Monitor plant growth within the BMP. Note the presence of any invasive species/woody growth on steep side slopes. Annually.
- Inspect articulated concrete block overflow to ensure that voids in concrete block are filled with soil and plants are establishing. Annually.
- Inspect side slopes for erosion, animal burrows, and woody growth or other conditions that would impact slope stability or cause erosion. Annually.

Ongoing Maintenance: Public Works staff tasks:

- Perform work annually to trim grass/weeds so that flow in channel is not inhibited.
- While performing this work, remove woody growth on side slopes/bottom of facility.
- Prior to removing any potential weed or planting in created wetland area, meet with Engineering staff to determine if planting is invasive or provided for water quality. Only remove invasive species.
- Remove trash, debris, and floatables.

Volunteer Projects: The following tasks may be accomplished during volunteer events. City staff must be present for work. Safety measures shall be implemented as applicable to work location and tasks.

- Plant flowers or other foliage about the perimeter of the site. Volunteer coordinator to work with Public Works and Engineering to ensure plantings do not interfere with site maintenance or function.
- Remove debris, trash and floatables from the site. Provide information to volunteers on proper disposal of items and appropriate facilities/equipment.
- Rake leaves and other yard waste from site.
- As needed, with appropriate supervision, plant new wetlands plantings; thin or transplant wetlands plantings located in thickets. Ensure all safety measures are in place and volunteers clearly understand where they may and may not enter; ensure the locations of micropools and other safety hazards are clearly delineated.

Non-Routine Maintenance

Sediment Removal from the Sediment Forebay shall be provided as needed.

- Timing: Work shall occur during periods of low groundwater.
- Dewatering shall be in accordance with Public Works SOPs.
- Adequate dewatering and disposal sites for excavated spoils shall be determined and be available prior to sediment removal.

Invasive Species Control: Invasive species such as phragmites shall not be allowed to cover more than 15% of the wetland cell area. The site is highly visible from Victory Boulevard. Any observation of an invasive species will be reported to Public Works immediately so that its removal can be added to an ongoing maintenance duty list. Extended periods of dewatering shall only be used as a last resort to remove invasive species.

Wet Pond Operations and Maintenance Plan

Plan applies to City-owned Wet Ponds located on the City Hall property, at South Lawson Park, at Fire Station #2, and the EDA property.

Vegetation Establishment: Vegetation is currently established in pond. The following is provided if additional vegetation is warranted:

During this establishment period, wetlands bench plantings will be monitored and replaced as needed by the Contractor. City staff duties:

Monitor the Contractor's activities to ensure that the warranty is being honored.

- Time period: 12 months after substantial completion
- Frequency: Monthly visual inspection during growing season; bimonthly during winter
- Staff members: Engineering
- Follow up: provide information to contractor on distressed/dead vegetation and/or deficiencies in bird netting (if required).

Evaluate the effectiveness of the types of wetlands plants used.

- Time Period: In spring, after the start of growing season (end of March/April)
- Frequency: Annually
- Staff members: Public Works, Engineering
- Follow up: Create projects for fall planting of new varieties of plants, thinning of existing vegetation if needed
- Evaluation topics:
    - Do plants in general appear healthy?
    - During the growing season, do they appear to be growing and spreading?
    - Are they blooming at the appropriate time?
    - If not, are there better plant choices? Refer to Virginia BMP Clearinghouse Specification for Constructed Wetlands, Table 13.4.
- City personnel (Public Works) shall reseed grass/maintain good ground cover during establishment period.

Surrounding Site Activities:

Other site features will be maintained per the permanent O&M plan (attached).

Inspections and Ongoing Maintenance

Routine Visual Inspections: City Public Work and Engineering staff members will visually inspect the facility during routine (monthly or more frequent) maintenance of the adjacent park area; as they drive by the site to go to work, and every time they enter the site:

- Visually monitor sediment accumulation levels in sediment forebay. Sediment levels to be measured during 5-year inspection.
- Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ascertain if sediment forebay is functional (no seeps; sufficiently low sediment accumulation level to allow for continued settlement in the forebay).
- Monitor plant growth on the BMP aquatic bench. Note the presence of any invasive species/woody growth on steep side slopes.
- Inspect inflow and outfall pipes to ensure adequate flow of water and to ensure there is no erosion around or under the piping.
- Inspect side slopes for erosion, animal burrows, and woody growth or other conditions that would impact slope stability or cause erosion.

Ongoing Maintenance: Public Works staff tasks:

- Perform work annually to trim grass/weeds.
- While performing this work, remove woody growth on side slopes/bottom of facility.
- Prior to removing any potential weed or planting in the aquatic bench, meet with Engineering staff to determine if planting is invasive or provided for water quality. Only remove invasive species.
- Remove trash, debris, and floatables.

Volunteer Projects: The following tasks may be accomplished during volunteer events. City staff must be present for work. Safety measures shall be implemented as applicable to work location and tasks.

- Plant flowers or other foliage about the perimeter of the site. Volunteer coordinator to work with Public Works and Engineering to ensure plantings do not interfere with site maintenance or function.
- Remove debris, trash and floatables from the site. Provide information to volunteers on proper disposal of items and appropriate facilities/equipment.
- Rake leaves and other yard waste from site.
- As needed, with appropriate supervision, plant new wetlands plantings; thin or transplant wetlands plantings located in thickets. Ensure all safety measures are in place and volunteers clearly understand where they may and may not enter; ensure that volunteers do not venture near the permanent wet pool.

Non-Routine Maintenance

Sediment Removal from the Sediment Forebay shall be provided as needed.

- Timing: Work shall occur during periods of low groundwater.
- Dewatering shall be in accordance with Public Works SOPs.
- Adequate dewatering and disposal sites for excavated spoils shall be determined and be available prior to sediment removal.

Invasive Species Control: Invasive species such as phragmites shall not be allowed to cover more than 15% of the wetland cell area. Any observation of an invasive species will be reported to Public Works immediately so that its removal can be added to an ongoing maintenance duty list. Extended periods of dewatering shall only be used as a last resort to remove invasive species.

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Dual

Plan Reviewer

Garrett Feagans

CERTIFICATE NUMBER

DPR0175

EXPIRATION DATE

12/03/2024

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Plan Reviewer

Garrett Feagans

Certificate Number
DPR0175

Expiration Date
12/03/2024

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Plan Reviewer

Garrett Feagans

Certificate Number
DPR0175

Expiration Date
12/03/2024

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Dual

Inspector

Garrett Feagans

CERTIFICATE NUMBER

DIN1429

EXPIRATION DATE

03/01/2027

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Inspector

Garrett Feagans

Certificate Number
DIN1429

Expiration Date
03/01/2027

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Inspector

Garrett Feagans

Certificate Number
DIN1429

Expiration Date
03/01/2027

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Erosion and Sediment Control

Combined Administrator

Laura Nusz

CERTIFICATE NUMBER

ESCA0261

EXPIRATION DATE

06/01/2026

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Erosion and Sediment Control
Combined Administrator

Laura Nusz

Certificate Number
ESCA0261

Expiration Date
06/01/2026

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Erosion and Sediment Control
Combined Administrator

Laura Nusz

Certificate Number
ESCA0261

Expiration Date
06/01/2026

COMMONWEALTH OF VIRGINIA

Department of Environmental Quality

Dual

Inspector

Laura Nusz

CERTIFICATE NUMBER

DIN0456

EXPIRATION DATE

11/19/2027

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Inspector

Laura Nusz

Certificate Number
DIN0456

Expiration Date
11/19/2027

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality

Dual
Inspector

Laura Nusz

Certificate Number
DIN0456

Expiration Date
11/19/2027

Wet Pond Annual Inspection Findings

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	Excessive sediment in forebay.	Cleanout ordered
Monitor plant growth on the BMP aquatic bench	Abundant plant growth	
Invasive Species?	None observed	
Inspect inflow and outfall pipes to ensure adequate flow and that there is no erosion around or under the piping	None observed	
Inspect side slopes for erosion, animal burrows, and woody growth	Some erosion onside slopes	Mainly around forebay
Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ensure forebay is functioning	Forebay not functioning.	Large amount of leaf litter and sediment in forebay preventing proper functioning

Performed by Garrett Feagans on 7/15/24

South Lawson Annual Inspection Findings

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	No issue	Algae in forebay.
Monitor plant growth on the BMP aquatic bench	N/A	
Invasive Species?	No issues	Geese are causing algae to appear in pond.
Inspect inflow and outfall pipes to ensure adequate flow and that there is no erosion around or under the piping	Excessive vegetation at outfall pipes. Erosion and sedimentation at inflow pipe # 2	Clear vegetation at outfalls and fix eroded areas
Inspect side slopes for erosion, animal burrows, and woody growth	N/A	
Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ensure forebay is functioning	Water is clear	

Performed by Garrett Feagans on 3/7/24

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	No excessive accumulation	N/A
Monitor plant growth within the BMP.	Healthy plant growth	N/A
Invasive Species?	No invasive species	N/A
Inspect articulated concrete block spillway: are voids filled in with soil/plants?	Plants very well established	N/A
Inspect side slopes for erosion, animal burrows, and woody growth	Slight erosion on side slopes	Evidence of animal burrows.
Aerators and solar panels	Aerator not functioning	Solar panel appears to be working, issue appears to be getting power to aerator

Performed by Garrett Feagans on 7/18/24

EDA Wet Pond Annual Inspection Findings

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	N/A	No forebay in pond
Monitor plant growth on the BMP aquatic bench	Healthy plant growth all around pond	
Invasive Species?	Small amount of phragmites at Outfall.	Remove invasive species
Inspect inflow and outfall pipes to ensure adequate flow and that there is no erosion around or under the piping	Inflow HDPE pipe is collapsed Outfall rip rap is clogged with leaf debris	Replace pipe. Clean outfall rip rap
Inspect side slopes for erosion, animal burrows, and woody growth	Large amount of erosion on side slopes all along pond	Fill and regrade
Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ensure forebay is functioning	N/A	

Performed by Garrett Feagans on 7/11/24

Fire Department 2 Wet Pond 2 Annual Inspection Findings

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	No issues	
Monitor plant growth on the BMP aquatic bench	No aquatic bench	Side slopes stable
Invasive Species?	No issue	
Inspect inflow and outfall pipes to ensure adequate flow and that there is no erosion around or under the piping	Inflow has small head dog rill because ground is higher than invert elevation. Clogged and inflow not included on plans	Have public works come cut and fill with stone, Pond has enough capacity to handle 2nd inflow
Inspect side slopes for erosion, animal burrows, and woody growth	No issues	
Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ensure forebay is functioning	No issues	

Performed by Garrett Feagans on 7/11/24

Fire Department 2 Wet Pond 1 Annual Inspection Findings

Inspection Item	Findings	Notes
Monitor sediment accumulation levels in sediment forebay	[redacted] No issues	
Monitor plant growth on the BMP aquatic bench	Plan doesn't call for aquatic bench	Side slopes are fairly healthy
Invasive Species?	None Observed	
Inspect inflow and outfall pipes to ensure adequate flow and that there is no erosion around or under the piping	Moderate erosion at inflow pipe Outfall has no issues	Have public works come fill it in.
Inspect side slopes for erosion, animal burrows, and woody growth	No issues	
Following recent rain events, visually inspect turbidity levels in forebay and downstream pool to ensure forebay is functioning	Issues No [redacted]	

Performed by Garrett Feagans on 7/11/24

Private BMP Inspection & Enforcement Plan

Plan applies to private BMPs who in their maintenance agreements in the City have committed to hiring a qualified person to conduct an inspection once every five years and submit that inspection report to the City.

1. An inspection date will be set 5 years from when the Construction General Permit is closed out.
    a. In the event that the property did not require a Construction General Permit, the date will be set from the date the Certificate of Occupancy is issued.
2. If at any time during the 5 years between inspection report due dates the City is alerted to potential maintenance issues of a BMP, the Engineer will go to the site and inspect.
    a. If the Engineer is unavailable, the Environmental Compliance officer will inspect.
    b. Depending on the severity of the issue, the Engineer can begin enforcement action against the owner, according to the steps described later on in this plan.
3. 2 months prior to the inspection report being due to the City, the City shall send out a reminder letter to the HOA president or the responsible party, informing them of the upcoming inspection report due date.
    a. Before sending out the letter, the Engineer should check to see that the HOA information is up to date.
4. If the inspection due date passes and the City has not received the inspection report, send out a 2nd letter informing the group that the inspection due date has passed and give them another 60 days to submit an inspection report.
    a. Consider sending this letter to all officers of the HOA.
5. If 60 days passes and there has still been no response, send out a 3rd letter informing the group that if the City does not receive an inspection report within the next 60 days, enforcement action will be taken against them.
6. Enforcement action will vary depending on the maintenance agreement.
    a. In the model maintenance agreement that the City currently uses, the enforcement action for not inspecting the site is for the City to conduct an inspection and charge the HOA or individual responsible for it.
    b. If the inspector finds that maintenance work is required, the City will then give the owner 60 days to complete the required maintenance. If they are unable to, the City will complete the maintenance and charge the owner.
    c. The owner will have 30 days to repay the City for the work it completed on their property.

CITY OF POQUOSON
Engineering

500 CITY HALL AVENUE
POQUOSON, VA 23662
(757) 868-3040 *TELEPHONE*
(757) 868-3105 *FAX*

April 9th, 2024

Lyons Landing Homeowners Association
Attn: HOA President
16 Henleys Way
Poquoson, VA 23662

Re: Stormwater Management Facility Inspection Requirement

Dear Homeowners Association President,

This letter has been sent to remind you that an inspection of the Stormwater Management Facilities installed at the above referenced subdivision is overdue to be performed. An inspection of each facility onsite must be completed at a minimum of every five (5) years per your stormwater management agreement and state regulations by a person who is licensed as a professional engineer, architect, landscape architect, land surveyor, or DEQ certified stormwater management inspector. Our records indicate that an inspection report was due to the city on or before November 30th, 2024. Please schedule an inspection and submit the report to the City within sixty (60) days of the date of this letter to avoid enforcement action.

Should you have any questions, please contact me at 757-868-3025.

Sincerely,

Garrett Feagans

Garrett Feagans
Engineer

ONE ENVIRONMENTAL GROUP

June 25, 2024

via Electronic Mail: lauralaw303@gmail.com
Laura Law
Lyons Landing Homeowners Association
Poquoson, Virginia 23662

Re: BMP Inspection Report

Dear Ms. Law,

ONE Environmental Mid Atlantic, LLC (ONE) presents Lyons Landing Homeowners Association (Lyons Landing) with this Best Management Practice (BMP) Inspection Report. The BMP stormwater pond is located on a parcel identified by the City of Poquoson Real Estate Assessor by Parcel ID 12-32-3A consisting of 0.85 acres.

The inspection and reporting were completed in general accordance with the Virginia Stormwater Management Programs (VSMP) and current Handbook checklist Regulation (9VAC25-870-114), specifically for post-construction inspections. The inspection was conducted under the direction and oversight of a Virginia licensed Professional Engineer.

The following provides a summary of the elements conducted during the inspection:

- Desktop review of available plans
- A site reconnaissance to evaluate the following, if applicable:
  - Contributing Drainage Area;
  - Pre-Treatment;
  - Inlet;
  - Vegetation;
  - Permanent Pool and Side Slopes;
  - Riser/Principle Spillway and Low-Flow Orifice(s);
  - Dam/Embankment and Abutments;
  - Overflow/Emergency Spillway;
  - Outlet, and;
  - Overall conditions.
- Prepare BMP Inspection Checklist inclusive of recommendations.

The following provides a summary of recommended maintenance actions (further details are included in the attached O&M Checklist):

- Clear vegetation from around the perimeter of the pond;
- Clear and maintain, as necessary, the inlets to the pond;
- Remove the Temporary Sediment Basin's Outlet Device and Control Berm;
- Conduct a Bathymetric Study to determine the impact of sediment buildup to compare to engineered design volumes, and;
- Remove excessive sediment if deemed necessary based on the Bathymetric Study.

We appreciate the opportunity to provide the inspection and report. If you have any questions, please do not hesitate to contact me.

Sincerely,
ONE Environmental Mid Atlantic, LLC

Jeffery S. Duncan, P.G.
Client Service Manager

enclosures

FACILITY ID:	DATE: 06 / 25 / 24	ASSESSED BY: Jeffery S. Duncan, P.G.

NAME: Lyons Landing Homeowners Association
ADDRESS: Henleys Way, Poquoson, VA
PHOTO IDS: See attached photo log

HANDHELD/ GPS ID: N/A

SECTION 1- BACKGROUND INFORMATION (GIS)

BMP TYPE :

- ☐ Dry Detention Pond
- ☐ Extended Detention Pond
- ☒ Wet Pond
- ☐ Filter (specify: _____)
- ☐ Infiltration (specify: _____)
- ☐ Check if structure is underground
- ☐ Dry Swale
- ☐ Wet Swale
- ☐ Grass Channel
- ☐ Dry Well
- ☐ Permeable Pavement
- ☐ Bioretention
- ☐ Wetland
- ☐ Level Spreader
- ☐ WQ Inlet
- ☐ Proprietary Device
- ☐ Other

YEAR CONSTRUCTED: 2005 est.

OWNERSHIP ☐ Public ☒ Private ☐ Unknown

SITE CHARACTERIZATION

DRAINAGE AREA: 10 est (acres) IMPERVIOUS COVER: 3.9 est (acres) Discerned from: ☐ Plan ☐ County Data ☐ GIS ☒ Field

CONTRIBUTING DRAINAGE AREA (% land use): *Note – All percentages should sum up to 100%*

_____ Industrial _____ Commercial _____ Urban/Residential __X__ Suburban/Res
_____ Forested _____ Institutional _____ Golf course _____ Park
Crop Pasture Other:

WATER QUALITY VOL (FROM DESIGN PLAN): N/A (ft³)

SECTION 2- FIELD VISIT

Rain in last 48 hrs? ☐ Yes ☒ No

Evidence of high water table (e.g., excessive soil saturation)? ☐ Yes ☒ No

DESIGN ELEMENTS

FACILITY SIZE:
Length: 350 (ft)
Width: 40 avg (ft)
Surface Area: 14,000 (ft²)
Depth of WQ storage 8 est. (ft)

OBSERVED WQ STORAGE VOL:
N/A (ft³)
Bank sloughing observed, bathymetric survey recommended to determine WQ storage volume.

HYDRAULIC CONFIGURATION
☒ On-line Facility
☐ Off-line Facility

DESIGN STORM(S):
☐ Water Quality
☐ Flood Control
☐ Channel Protection
☒ Unknown

BMP SIGNAGE: (check all that apply)
☐ None ☐ Flood Warning ☐ Stormwater Education ☐ No Trespassing ☐ Wildlife Habitat
☐ Public Property ☐ Do Not Mow ☒ Other: Caution Sign Observed

OUTLET CHARACTERISTICS

PRIMARY OUTLET STRUCTURE: ☐ N/A – infiltration w/ no outlet ☒ Pipe ☐ Riser ☐ Weir ☐ Large Storm Overflow ☐ Open channel ☐ Large Storm By-pass ☐ Other: _____

OUTLET FEATURES: ☐ N/A ☐ Trash Rack ☐ Pond Drain ☒ Inverted outlet pipe ☐ Hooded outlet ☐ Anti-vortex device ☐ Perforated pipe ☐ Gravel Diaphragm ☐ Micropool outlet ☐ Multiple outlet levels
Outlet includes restrictor? ☐ Yes ☐ No

OUTLET STRUCTURE CONDITIONS:
Erosion at Outlet: ☒None ☐Slight ☐Moderate ☐Severe
Outlet Clogging: ☐None ☒Slight ☐Moderate ☐Severe
Structural Problems: ☒None ☐Slight ☐Moderate ☐Severe

CONDITIONS AT OUTFALL: ☐ Stream ☐ Closed storm sewer ☐ Surface channel ☐ Road ditch ☒ Other: Lyons Creek (Tidal) ☐ Unknown

Active Erosion: ☒None ☐Slight ☐Moderate ☐Severe
Trash: ☒None ☐Slight ☐Moderate ☐Severe
Sedimentation: ☒None ☐Slight ☐Moderate ☐Severe
Odor: ☐None ☐Slight ☐Moderate ☐Severe
Algae: ☐None ☐Slight ☐Moderate ☐Severe
Other WQ Problems: ☐None ☐Slight ☐Moderate ☐Severe

Emergency Spillway Type: ☐ Channel ☐ Riser Overflow ☐ Weir ☒ Other: N/A

SOIL OR FILTER MEDIA

TYPE OF FILTER/INFILTRATION MEDIA: (check all that apply)

☐ Soil mix _____(in) ☐ Sand _____(in) ☐ Gravel _____(in) ☐ Large Stone _____(in)
☐ Organic material _____(in) ☐ Other_____ ☒ N/A ☐ Unknown
Avg. depth of sediment build-up on surface?_____(in)

SOIL MEDIA SAMPLE: *Note – Complete during site investigation, if applicable*
Dominant Soil Type ☐ Clay ☐ Loam ☐ Sand ☐ Sand/Loam
Is the soil homogenous? ☐ Yes ☐ No

Comments:

VEGETATION

GENERAL OBSERVATIONS:
☒ Landscaped
☐ Aquatic Bench
☐ Invasive Species
☐ Plant Diversity

TYPE OF GROUND COVER (% of Surface Area in Plan View up to low Outlet):
Note – All percentages should sum up to 100 %.

_____ Trees	X Grasses/Perennials	_____ Ponded water	_____ Other: _____
X Managed Turf	_____ Bare Soil	_____ Shrubs	_____ N/A
_____ Gravel/stone	_____ Mulch	_____ Emergent wetland	

Depth of mulch, if present: ☐ Hardwood _____(in) ☐ Pine Straw _____ (in) ☐ Other_____ (in)
Rate degree of shading of BMP Surface Area by trees: ☐ Well Shaded ☐ Some Shading ☐ No Shading ☐ N/A

INLET CHARACTERISTICS

INLET #1:
Diameter/Width:
15" (in)

TYPE OF INLET: ☒ Open Channel ☐ Closed Pipe
☐ Sheet Flow ☐ Curb Cut ☐ Other: _____

Elevation difference between bottom of inlet and BMP surface:
N/A (in)

INLET SUBMERSION:
☐ Complete
☐ Partial
☒ None

INLET CONDITIONS:

Inlet Erosion	☒None	☐Slight	☐Moderate	☐Severe
Inlet Clogging	☒None	☐Slight	☐Moderate	☐Severe
Structural Problems	☒None	☐Slight	☐Moderate	☐Severe

Comments:
Unable to inspect - overgrown

INLET #2:
Diameter/Width:
24' (in)

TYPE OF INLET: ☐ Open Channel ☒ Closed Pipe
☐ Sheet Flow ☐ Curb Cut ☐ Other: _____

Elevation difference between bottom of inlet and BMP surface:
N/A (in)

INLET SUBMERSION:
☐ Complete
☒ Partial
☐ None

INLET CONDITIONS:

Inlet Erosion	☒None	☐Slight	☐Moderate	☐Severe
Inlet Clogging	☐None	☒Slight	☐Moderate	☐Severe
Structural Problems	☒None	☐Slight	☐Moderate	☐Severe

Comments:
Unable to inspect - overgrown

PRETREATMENT

TYPE OF PRETREATMENT *(check all that apply)*
☒ None
☐ Sediment Forebay (_____ ft^3)
☐ Grass Channel
☐ Riprap Channel or Apron
☐ Grass Filter Strip
☐ Plunge Pool?
☐ Stone Diaphragm
☐ Other: _____

PRETREATMENT FUNCTION ☐ By design ☐ Incidental
Is pretreatment functioning? ☐ Yes ☐ No
Is sediment removal necessary? ☐ Yes ☐ No
Signs of pretreatment bypass? ☐ Yes ☐ No
Signs of flow of sediment from pretreatment to BMP? ☐ Yes ☐ No
Severity: ☐ Slight ☐Moderate ☐Severe

GENERAL DESIGN

BMP FEATURES (check all that apply)
☒ Maintenance Access
☐ Fence
☐ Multi-cell
☐ Micropool
☐ Impermeable Liner
☐ Underdrain
☐ Clean Out
☐ Observation Well
Is water present in observation well?
☐ Yes ☐ No Depth: _____ ft
☐ Pond Drain
☐ Other:_____

CONVEYANCE THROUGH BMP
☒ No Defined Channel
☐ Low Flow Channel
☐ Concrete ☐ Eroded ☐ Earthen ☐ Other _____
Length of Shortest Flow Path: _____(ft)

Is BMP designed with a Permanent Pool? ☒ Yes ☐ No

BMP CHECKLISTS

PERFORMANCE

GENERAL PROBLEMS: (check all that apply)

- [X] Maintenance Needed
- [ ] Water Bypass of Inlet
- [ ] Water Bypass of Outlet
- [ ] Incorrect Flow Paths
- [ ] Short-circuiting of treatment mechanism
- [ ] No or ineffective treatment
- [ ] Ineffective pretreatment
- [ ] Others
- [ ] Erosion at Embankments
- [X] Erosion within Facility
- [ ] Deposition within Facility
- [ ] Inappropriate Ponding of Water
- [ ] Clogged Pond Drain/Underdrain
- [ ] Clogged Media
- [ ] Inappropriate media material
- [ ] Inappropriate underlying soil (infiltration)
- [ ] Permanent Pools not stable
- [ ] Inadequate vegetation
- [ ] Dead or Diseased Vegetation
- [X] Too many invasive plants
- [X] Trees on Embankment
- [ ] Failing structural components
- [ ] Safety issue (Note: _____)

WATER QUALITY IN FACILITY: [ ] N/A

Algae	[X] None	[ ] Slight	[ ] Moderate	[ ] Severe
Odor	[X] None	[ ] Slight	[ ] Moderate	[ ] Severe
Turbidity	[X] None	[ ] Slight	[ ] Moderate	[ ] Severe
Color	[X] Normal	[ ] Abnormal		

EVIDENCE OF:

- [ ] Geese
- [ ] Animal Burrows
- [ ] Mosquitoes
- [ ] BMP Alteration

PROBLEM		1=NONE	2 - FEW	3 – SEVERAL	4-SEVERE
TRASH		No evidence of trash	A few pieces of trash throughout BMP	Trash accumulation near inlet outlet	Lots of trash in BMP or BMP used for storage
BMP BANK EROSION		No noticeable erosion	Slight erosion ~5% of bank affected	Moderate erosion ~15% of bank affected	Banks severely eroded ~25% of bank affected
SEDIMENT DEPOSITION		No sediment deposition	Areas of minor sediment deposition	Areas of some deposition, may be severe near inlet/outlet	Lots of deposition resulting in pond bottom clogging
SURFACE SLOPE		0-1% BMP surface slope	1-3% BMP surface slope or steeper slopes with check dams	3-5% BMP surface slope with no check dams	>5% surface slope
SIDE SLOPES		BMP side slopes 3:1 or flatter	BMP side slopes 2:1	Steep BMP side slopes	Risk of side slope failure
STRUCTURAL		No evidence of structural damage	Minor problems (e.g., bank slump, eroded channels)	Moderate structural problems –failure pending	Structural failures (e.g., bank failure, blowout)
VISIBILITY		High visibility, near high-traffic areas	Some visibility, near traffic areas	Limited visibility, near low traffic areas	No visibility, behind buildings or fences
ACCESSIBILITY		Maintained access area for vehicles	Access area designated, but not maintained	Access for vehicles not designated	Access for vehicles not possible
VEG COVER		No mowing in around BMP	Mowing along BMP edges but areas of no mow in BMP bottom	Mowed turf vegetation	BMP bottom has large areas of bare soil
		Dense plant cover (>75%)	Plant cover, 50-75%	Some plant cover, 25-50%	Sparse vegetative cover (<25%)
VEG HEALTH	TREES	Healthy and established	Slightly stressed	Stressed	Dead
	GROUND COVER	Healthy and established	Slightly stressed	Stressed	Dead
	SHRUBS	Healthy and established	Slightly stressed	Stressed	Dead
	EMERGENT WETLAND	Healthy and established	Slightly stressed	Stressed	Dead

OVERALL PERFORMANCE SCORE (circle one number)

Excellent design and function, no general problems with performance			BMP is well designed, but is undersized or has a few performance problems		BMP is adequately designed, several problems with performance are noted			Poor BMP design, severe performance problems or failure	
10	9	8	7	6	5	4	3	2	1

FIELD NOTES

GOOD OR INTERESTING DESIGN FEATURES:

PHOTO #'S:

See separate Photo Log

POOR OR PROBLEMATIC DESIGN FEATURES:

PHOTO #'S:

See separate Photo Log

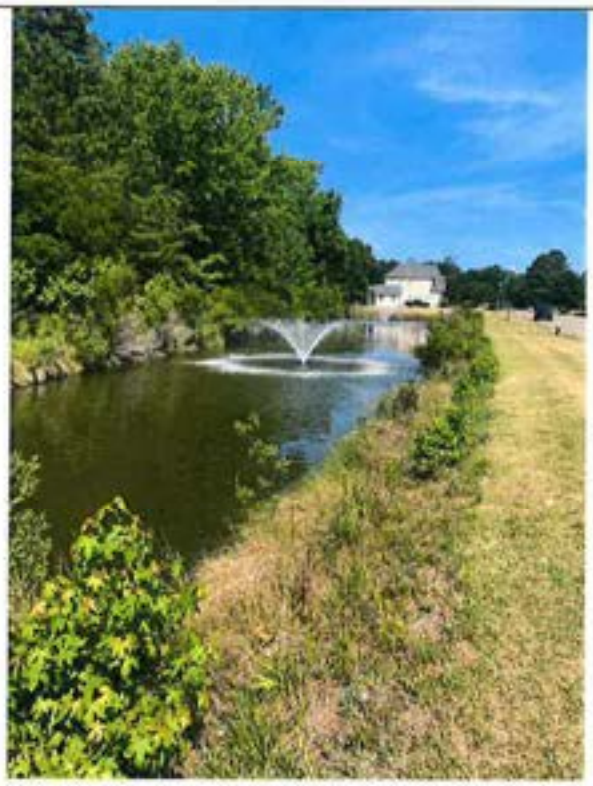
SECTION 3 – DESIGN PLAN VERIFICATION

PLAN AVAILABLE: ☐ As-built ☐ Other: Plan

Do field observations match design plans/as-builts? Describe any differences.

Soil type in facility	☒ N/A	☐ Yes	☐ No	If no, describe:
Pretreatment type and size	☒ N/A	☐ Yes	☐ No	If no, describe:
Signage	☒ N/A	☐ Yes	☐ No	If no, describe:
Low-flow channel	☒ N/A	☐ Yes	☐ No	If no, describe:
Dimensions/volume	☐ N/A	☐ Yes	☐ No	If no, describe: Bathymetric Survey recommended to determine WQ storage cap.
Inlet type, #, and sizing	☐ N/A	☒ Yes	☐ No	If no, describe: Inlet maintenance needed to clear inlets
Outlet type, #, and sizing	☐ N/A	☒ Yes	☐ No	If no, describe:
Vegetation composition	☐ N/A	☐ Yes	☒ No	If no, describe: Invasive woody vegetation on the banks need to be removed.
Other features	☐ N/A	☐ Yes	☐ No	If no, describe: Temporary Berm and Low Flow Device was to be removed prior to final acceptance by the City is still present.

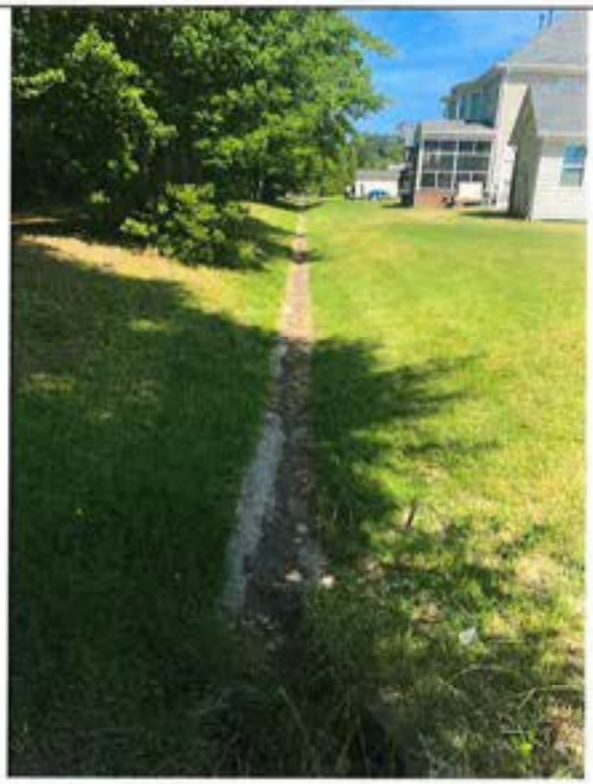
ONE ENVIRONMENTAL GROUP



1. View of BMP

2. View of BMP and Aerators

3. Temporary Berm and Temporary Low Flow Outlet Device



4. Paved Swale

5. Pave Swale Inlet to BMP

6. Inlet from Paved Swale - Overgrown, Unable to Inspect

ONE ENVIRONMENTAL GROUP

7. Inlet from Pave Swale - Overgrown, Unable to Inspect

8. 12' Access for Maintenance Overgrown

9. Curbing and Curb Gutter Inet

10. Inlet from Curb Gutters

11. Inlet from Curb Gutters - Debris and Sediment Present

12. BMP Bank Slumps

13. Temporary Control Berm

14. Temporary Control Berm

15. Temporary Low Flow Outlet Device

16. Drop Inlet

17. Outlet to Lyons Creek

18. Outlet to Lyons Creek - Debris Present (Tidal)

CITY OF POQUOSON
Department of Community Development
500 CITY HALL AVENUE. POQUOSON, VIRGINIA 23662-1996
(757) 868-3040 TELEPHONE (757) 868-3105 FAX

October 18, 2023

The Holly's Homeowners Association
Attn: HOA President
1 Black Oak Ct.
Poquoson, VA 23662

Re: Stormwater Management Facility Inspection Requirement

Dear Homeowners Association,

A letter was mailed to you on August 17, 2023 reminding you of the requirement that the inspection of the Stormwater Management Facilities installed at the above referenced subdivision was overdue to be performed. An inspection of each facility onsite must be completed at a minimum of every five (5) years per your stormwater management agreement and state regulations by a DEQ certified stormwater management inspector. Our records indicate that an inspection report was due to the city on or before June 4, 2023. Once the inspection(s) have been completed, a written inspection report must be submitted to the City of Poquoson for review showing all deficiencies and corrective actions taken. Please forward the inspection documentation as soon as possible in order to remain in compliance

Should you have any questions, please contact me at 757-868-3040.

Sincerely,

Laura J. C. Nusz

Laura J.C. Nusz
Environmental Compliance Officer

Davis & Associates, P. C.
Land Surveyors & Planners
3630 George Washington Memorial Hwy, Suite G
Yorktown, Virginia 23693
757-867-8583

October 30, 2023

The Holly's Homeowners Association, Inc.
c/o Ellen H. Merilic
11 Black Oak Court
Poquoson, VA 23662

Re: Best Management Inspection Report
The Holly's
City of Poquoson, VA
BMP Located at the Western End of Black Oak Court

Dear Ms. Merilic:

At your request, Davis and Associates, P.C. did perform a Best Management Practice (BMP) inspection at "The Holly's Subdivision. The attached inspection report contains my findings and recommendations.

I trust the information is of use to you and the homeowner's association. Please feel free to contact me at (757) 867-8583 or admin@davisandassoc.net to discuss this matter further if needed.

Regards,

Donald W. Davis, C.L.S.

Best Management Practice
Inspection Report

The Holly's
City of Poquoson, Virginia

Prepared for:

The Holly's Homeowners Association, Inc.
c/o Ellen H. Merilic
11 Black Oak Court
Poquoson, VA 23662

October 30, 2023

Prepared by:

Davis & Associates, P.C.
3630-G George Washington Memorial Hwy.
Yorktown, Virginia 23693
757-867-8583

Introduction:

"The Holly's" subdivision is an eleven (11) lot residential subdivision located at Black Oak Court in Poquoson, Virginia. A Best Management Practice (BMP) serving the development is located on the westerly side of Lots 7 and 8. The BMP as approved by the City of Poquoson, is classified as an extended detention dry pond with a shallow bottom. The purpose of this report is to evaluate the existing B.M.P (pond), outfall structure and the general conditions and function, of the stormwater management system. This report and any remedial action is a requirement as described in The Holly's Declaration of Covenants, Conditions and Restrictions which are recorded in the York-Poquoson Circuit Court.

General:

The site inspection was conducted by Donald W. Davis, L.S. on September 27, 2023 and again on October 30, 2023. The site inspection was conducted using the DEQ, Stormwater Handbook Operation and Maintenance checklist. Specific areas reviewed were adjacent vegetation, BMP grades, adjacent slopes, signs of erosion and outfall structure function. According to the original BMP approved plan, The Holly's BMP is an extended detention dry pond with a shallow marsh bottom. The BMP provides water quality and water quantity benefits, which was in accordance with state standards at the time of development plan approval. It is important to note at the time the original site development plan was approved, DCR was the controlling agency, however, DEQ is now the controlling agency.

Vegetation:

One to six-inch diameter pine trees, line the BMP bank. The pine trees are healthy and provide for an acceptable vegetative buffer. Visual evidence exists that wetlands vegetation is present however the vegetation is currently dormant. It is suggested a visual inspection be conducted by the HOA representative in the April to May time frame of 2024 and if necessary, re-establish the wetlands vegetation using methods and vegetation types consistent with current DEQ Standards.

BMP Function:

According to The Holly's approved development plans the BMP was designed to be approximately 2-feet deep and have 3 to 1 side slopes. The on-site visual inspection confirmed the BMP depth and BMP side slopes. Attached with this report is a "Topographical Review of BMP" dated 02/23/04, prepared by Wayne Johnson, depicting as-built conditions. A visual inspection was conducted on October 30, 2023 and it was noted that little or no change has occurred to the BMP side slopes, adjacent overland

grades, modification or alteration of grades, erosion or general sediment build-up within the BMP. Adjacent yard areas generally have good stand of grass and the overland areas were functioning properly. It is recommended that the upstream earth ditches be established with a good ground cover; grass.

Outfall Structure:

The outfall structure consists of 44-feet of 12" RCP with VDOT ES-1 sections. The up-stream inlet, in accordance with the approved development plans, consists of a steel plate with one-inch water quality, perforated type, holes. Although the plate is functioning, it is recommended that the one-inch "perforated" holes be cleaned to its original opening conditions and the sediment be removed. It is further recommended the City of Poquoson clean and restores the downstream outfall ditch to its original grade for positive stormwater flow. The outfall ditch has accumulated sediment resulting in the BMP water surface elevations being higher than was originally designed. It is recommended that the outfall structure be cleaned.

Conclusion:

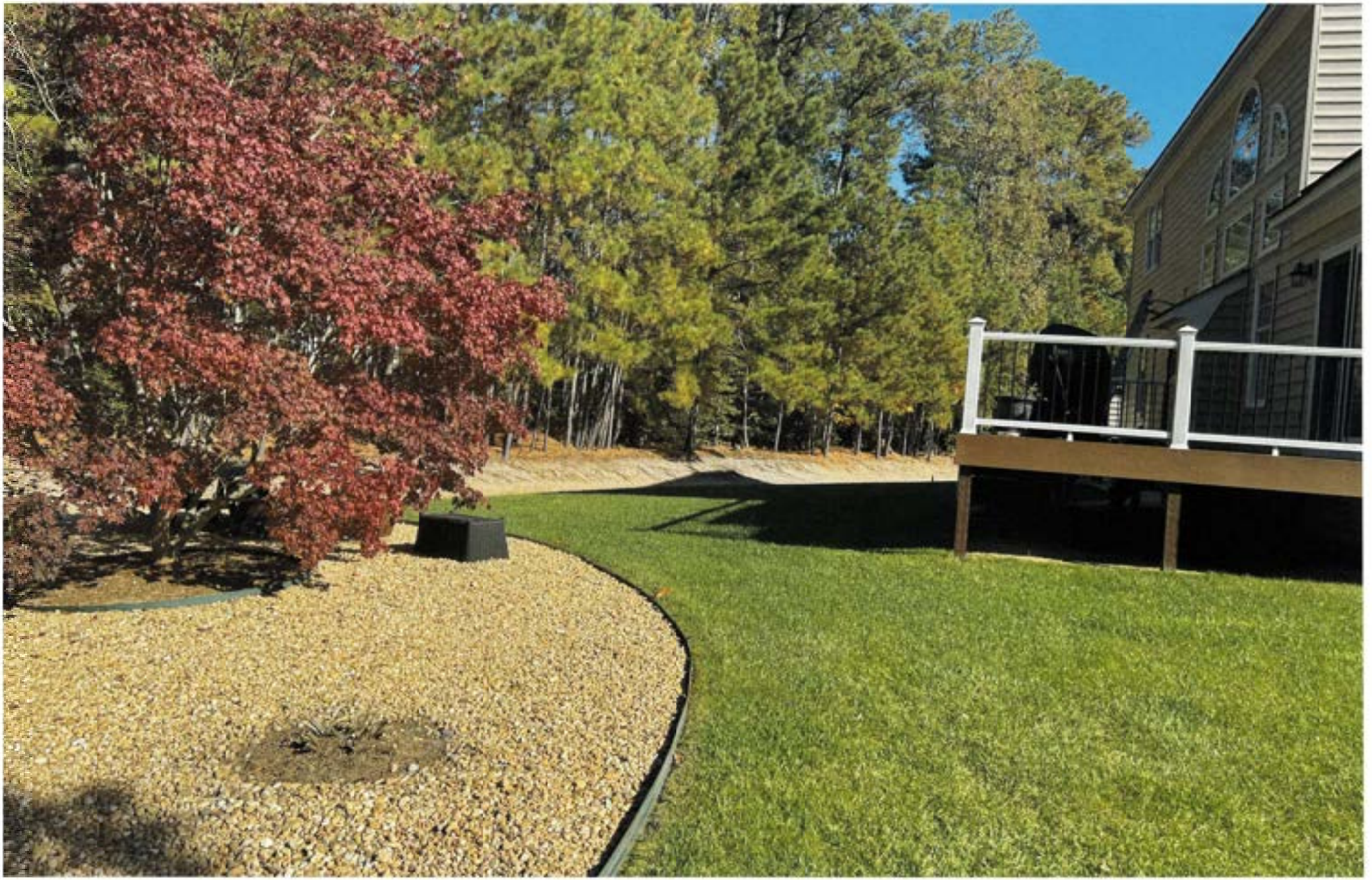
The Holly's BMP is generally in good condition and functioning properly, except for minor areas to be cleaned. As previously recommended minor adjustments and maintenance are recommended to increase the BMP effectiveness and function.

Regards,

Donald W. Davis, C.L.S.

Attachments:

1. Site Pictures
2. Complete DCR inspection report
3. 2004 As-Built plan (Johnson)
4. Vicinity Map
5. Record Subdivision Plat (reduced)



Operation and Maintenance Checklist

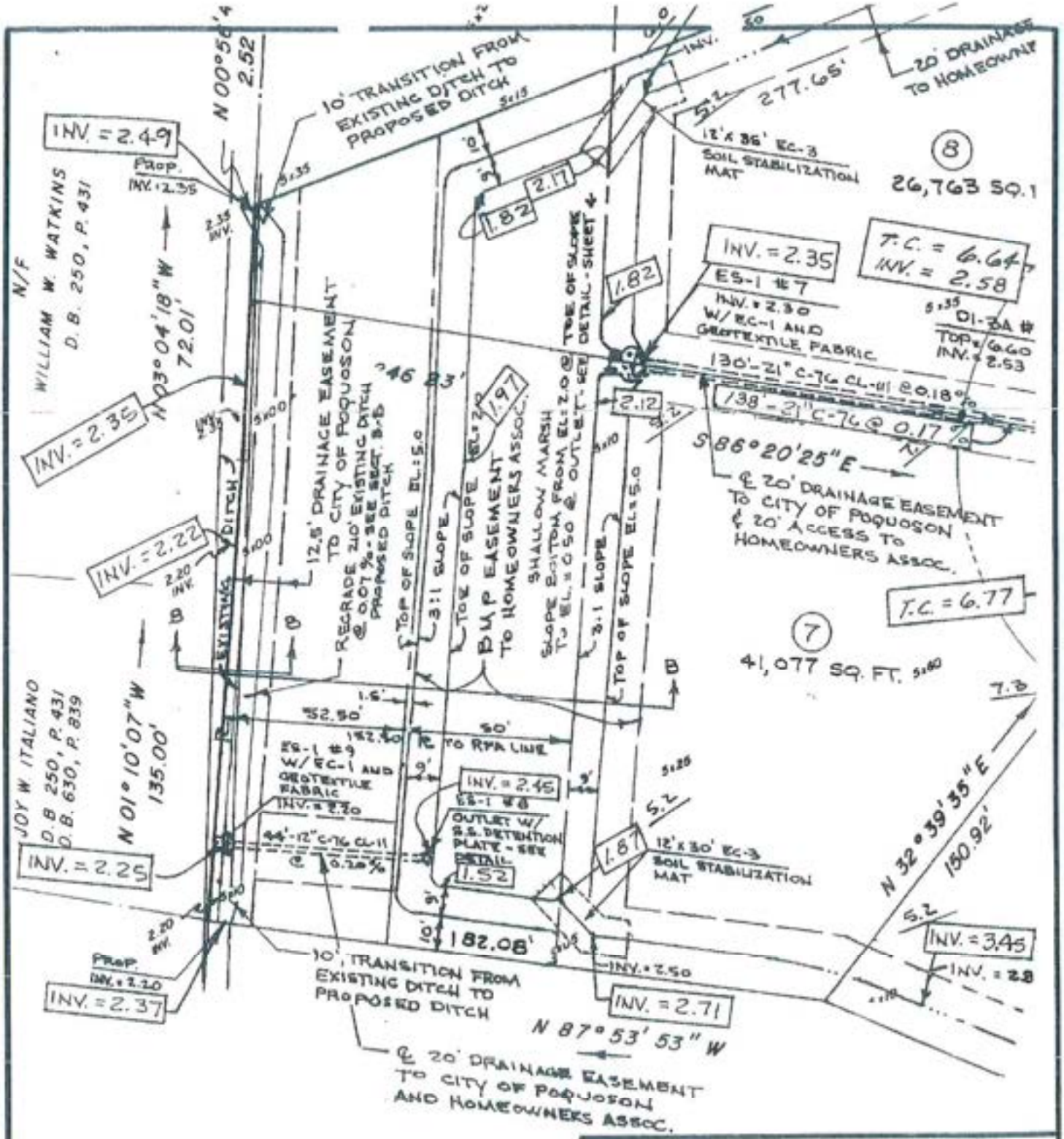
	YES / NO	REPAIR	INVESTIGATE	Inspector Name: Donald W. Davis, L.S. Inspection Date: September 27, 2023 October 30, 2023 Type of BMP: Extended Detention Dry Pond
Item				**Comments**
I. EMBANKMENT				Side slopes are acceptable
A. Crest				
1. Visual settlement	N			
2. Misalignment	NA			
3. Cracking	NA			
B. Upstream slope				Minimal erosion Need to establish ground cover
1. Erosion	Y			
2. Adequate groundcover	N			
3. Trees, shrubs or other	Y			
4. Cracks, settlements or bulges	N			
5. Rodent holes	N			
C. Downstream slope				No signs of downstream erosion in or adjacent to BMP
1. Erosion	N			
2. Adequate groundcover	Y			
3. Trees, shrubs or other	Y			
4. Cracks, settlements or bulges	NA			
5. Rodent holes	N			
D. Abutments	N			
1. Erosion	N			
2. Seepage	N			
3. Cracks	N			

Operation and Maintenance Checklist

	YES / NO	REPAIR	INVESTIGATE	InspectorName: Donald W. Davis, C.E. Inspection Date: 9/27/23 10/30/23 Type of Extended Detention Dry Pond
E. Drainage, seepage control				
1. Internal drains flowing	N			
2. Seepage at toe	N			
II.EMERGENCY SPILLWAY				
1. Eroding or backcutting	N			
2. Obstructed	Y			Minor obstructions - Clean
3. Leaking	N			
4. Operational	Y			
IV. PRINCIPAL SPILLWAY BARREL				
1. Seepage into conduit	N			
2. Debris present	N			
3. Displaced or offset joints	N			
V. OUTLET PROTECTION/ STILLING BASIN				
1. Obstructed	Y			Minor obstructions - Clean
2. Adequate riprap	NA			
3. Undercutting at outlet	N			
4. Outlet channel scour	N			
VI. BASIN & UPLAND BUFFER AREA				
A. Low flow channel	Y			
1. Erosion	N			
2. Adequate vegetation	N			Need to establish Ground Cover
3. Obstructed	N			

Operation and Maintenance Checklist

	YES / NO	REPAIR	INVESTIGATE	Inspector Name: Donald W. Davis, L.S. Inspection Date: 9/27/23 & 10/30/23 Type of BMP: Extended Detention Dry Pond
B. Basin bottom & side slopes				Minor - Clean BMP bottom as Needed
1. Erosion	N			
2. Adequate stabilization	Y			
3. Sediment accumulation	Y			
4. Floating debris	N			
5. High water marks	N			
6. Shoreline protection	Y			
C. Inflow channels/pipes				Establish grows covers.
1. Erosion	N			
2. Adequate stabilization	N			
3. Undercutting	N			
D. Sediment forebay				Minor, Clean as necessary
1. Sediment accumulation	Y			
2. Stable overflow into basin	Y			
E. Upland landscaping	Y			
F. Aquatic landscaping	Y			



PLAN SHOWING

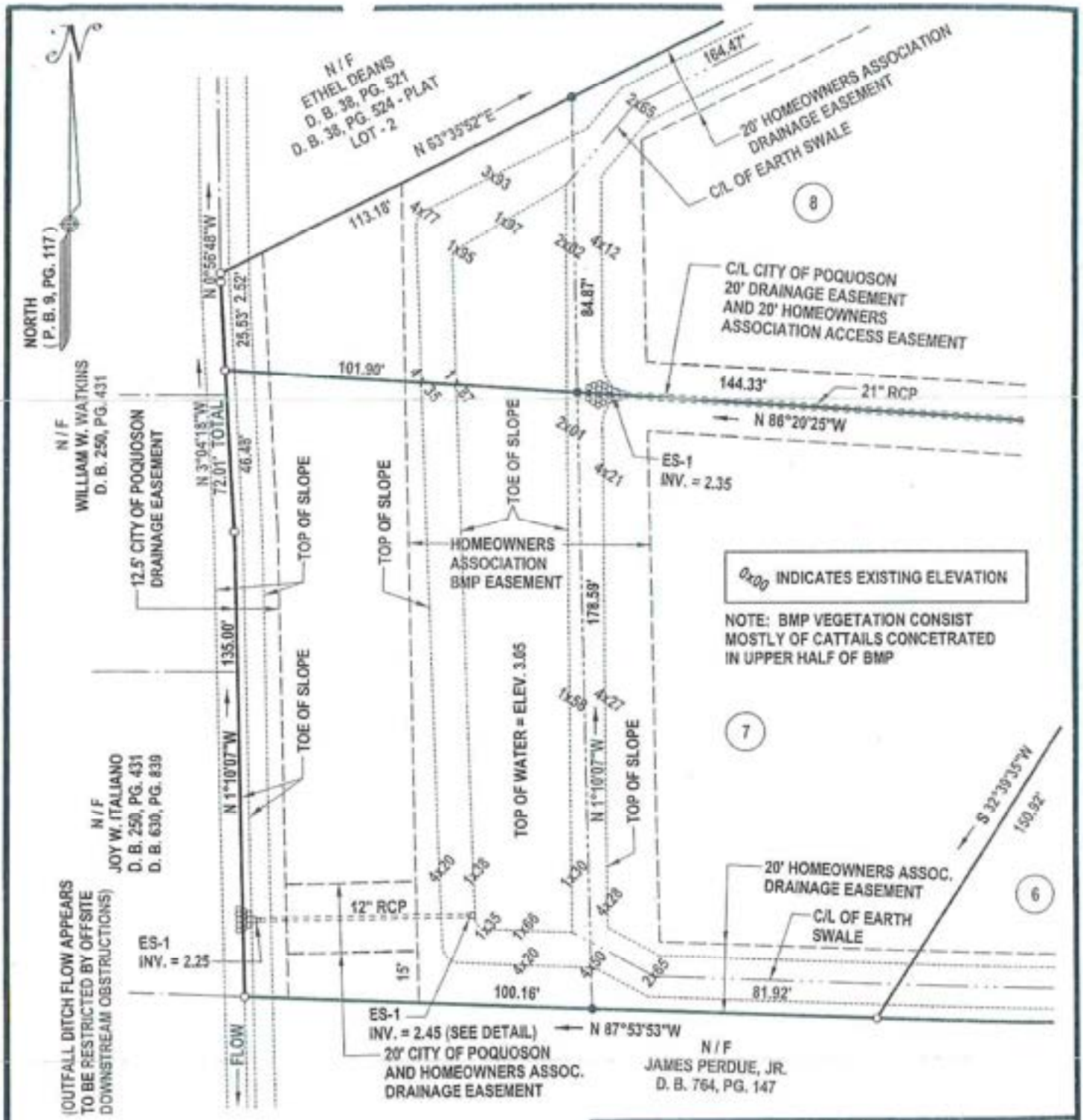
AS-BUILT OF BMP

DATED 02/25/02

CITY OF POQUOSON, VIRGINIA

JOHNSON-BAIRD AND ASSOCIATES
CIVIL ENGINEERING AND LAND SURVEYING
1538 WEST QUEEN STREET - HAMPTON, VIRGINIA - 23669-3645

SCALE: 1" = 40'	FILE NO. 97-008AB



PLAN SHOWING

TOPOGRAPHICAL REVIEW OF BMP
DATED 02/23/04

CITY OF POQUOSON, VIRGINIA

JOHNSON-BAIRD AND ASSOCIATES
CIVIL ENGINEERING AND LAND SURVEYING
1538 WEST QUEEN STREET - HAMPTON, VIRGINIA - 23669-3645

SCALE: 1" = 40'	FILE NO. 97-008AB
DATE: JAN. 23, 2004	SHEET 1 OF 2

4

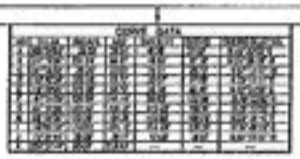
Vicinity Map
Scale: None

The Hollys

POQUOSON, VIRGINIA

JOHNSON, MIRMIRAN AND ASSOCIATES

SCALE: 1" = 100'	DATE: DEC. 20, 1999	SHEET 1
	FILE NO. 97-026	OF 1



GRAPHIC SCALE

APPROVED FOR THE CITY OF POQUOSON

CODE GRAPHS

ADVANCED SEARCH RESULTS

Select View

Selected	Case Number	Case Date	Parcel	Property Address	Owner	Complainant Name	Complainant Address	Complainant Phone	Address of Violation	Description	Owner Name	As
☐	230035	02/13/2024	18-32-00-000A	0 Firth Lane	Owner Association Inc				0 Firth Lane	0 Firth Lane Pond	Rubus Run Villas Owners Association	Gai Fea
☐	230023	02/12/2024	27-08-00-000A-1	398 Wythe Creek Road	David & Diana				398 Wythe Creek Road	Advanced Auto Wet Pond	Advanced Auto Parts	Gai Fea
☐	230048	02/14/2024	20-25-00-0016-A	0 Weston Drive	Homeowners Assn				0 Weston Drive	Bennett Creek Point Wet Pond	Bennett Creek Point Homeowners Association	Gai Fea
☐	230020	02/09/2024	10-09-00-0019	202 Darden Drive	James R Etux				Multiple Darden Drive	Bull Run Detention Basin	Bull Run Associates	Gai Fea
☐	230024	02/12/2024	30-14-00-0009-A	0 Channelwalk Drive	Estates				0 Channelwalk Drive	Channelwalk Wet Pond	Channel Walk Estates Home Owners Association	Gai Fea
☐	230058	02/15/2024	11-33-00-0010-A	0 Goodson Way	HOA Inc				0 Goodson Way	Drakes Landing Wet Pond	Drakes Landing Homeowners Association	Gai Fea
☐	230043	02/13/2024	17-14-00-0046	9 Dryden Drive	Frank R Etux				Multiple Riggins Court	Heritage Cove Shallow Marsh	Heritage Cove Owners' Association	Gai Fea
☐	230041	02/13/2024	17-14-00-0094-B	0 Westover Drive	Assn Inc				0 Westover Drive	Heritage Cove Wet Pond 1	Heritage Cove Owners' Association	Gai Fea
☐	230042	02/13/2024	17-14-00-0094-A	0 Callis Lane	Assn Inc				0 Callis Lane	Heritage Cove Wet Pond 2	Heritage Cove Owners' Association	Gai Fea

1 2 ▶

Records 1 to 30 (of 34)

Selected	Case Number	Case Date	Parcel	Property Address	Owner	Complainant Name	Complainant Address	Complainant Phone	Address of Violation	Description	Owner Name	As
☐	230026	02/12/2024	20-28-00-0020-A	0 Pheasant Drive	Assn				0 Pheasant Drive	Hunt's Cove Wet Pond	Hunt's Cove Homes Association	Gai Fea
☐	230036	02/13/2024	10-11-00-000A	0 Volunteer Trail	Homeowners Association				0 Volunteer Trail	Hunts Neck Estates Wet Pond	Hunts Neck Estates Owners' Association	Gai Fea
☐	230051	02/14/2024	20-29-00-0005	10 Elm Street	Laura M Etvir				10 Elm Street	Island Cove Wet Pond	Island Cove Homeowners Association	Gai Fea
☐	230025	02/12/2024	11-32-00-0028	41 Wornom Farm Road	Charles W Jr Etux				44 Wornom Farm Road	Lakes at Poquoson Wet Pond	The Lakes at Poquoson Homeowners Association	Gai Fea
☐	230052	02/14/2024	29-16-00-0013	4 High Cedar Way	Timothy F Sr & Tammy N				Between High Cedar Way & Barrl Factory Ct.	Lawson Farms Wet Pond	Lawson Farms Homeowners Association	Gai Fea
☐	230021	02/09/2024	12-32-00-0003-A	8 Henley s Way	Homes Association				8 Henleys Way	Lyons Landing Wet Pond	Lyons Landing Homes Association	Gai Fea
☐	230049	02/14/2024	11-01-00-0041	6 Hunts Neck Road	49 AF & AM				6 Hunts Neck Road	Masonic Lodge Extended Detention Basin	Masonic Lodge	Gai Fea
☐	230031	02/12/2024	27-01-00-0105	431 Wythe Creek Road	Partnership				431 Wythe Creek Road	McDonalds Wet Pond	McDonalds	Gai Fea
☐	230050	02/14/2024	19-27-00-0015-B	0 Crescent Point					0 Crescent Point	Philips Point Cove Wet Pond	Phillips Point Cove Homeowners Association	Gai Fea
☐	230039	02/13/2024	27-01-00-0025	283 Wythe Creek Road	Church				283 Wythe Creek Road	Poquoson Baptist Church Wet Pond	Poquoson Baptist Church	Gai Fea

1 2 ▶

Records 1 to 30 (of 34)

Selected	Case Number	Case Date	Parcel	Property Address	Owner	Complainant Name	Complainant Address	Complainant Phone	Address of Violation	Description	Owner Name	As
☐	230037	02/13/2024	12-33-00-000A	0 Hollingsworth Way	Hunts Neck LLC				0 Hollingsworth Way	Rivers Edge Wet Pond	River's Edge Homeowners Association	Gai Fea
☐	230022	02/09/2024	27-01-00-0106	8 Victory Boulevard	Cheers LLC				8 Victory Boulevard	Schooners Wet Pond	Aim 4 Cheers LLC	Gai Fea
☐	230047	02/14/2024	27-01-00-0067	362 Wythe Creek Road	of Poquoson Inc				362 Wythe Creek Road	Storage World Wet Pond	Storage World	Gai Fea
☐	230056	02/15/2024	12-01-00-0075B	105 Rens Road	Marina LLC				105 Rens Road	Surf Rider Filterra	Whitehouse Cove LLC	Gai Fea
☐	230038	02/13/2024	18-30-00-0007-A	0 Garden Atrium Way	Homeowners Association				0 Garden Atrium Way	The Garden Atriums of Poquoson Wet Pond	Garden Atriums Homeowners Association	Gai Fea
☐	230040	02/13/2024	20-26-00-0008	12 Black Oak Court	Jeffrey Etux				12 & 13 Black Oak Court	The Holly's Wet Pond	The Holly's Homeowners Association	Gai Fea
☐	230032	02/12/2024	18-01-00-0033	608 Wythe Creek Road	Investments Inc				608 Wythe Creek Road	VDOT Wet Pond	Virginia Department of Transportation	Gai Fea
☐	230033	02/13/2024	10-12-00-0026-B	0 Pickins Drive	Association Inc				0 Pickens Drive	Victory Cove Wet Pond 1	Victory Cove Homeowners Association	Gai Fea
☐	230034	02/13/2024	10-12-00-0026-B	0 Pickins Drive	Association Inc				0 Pickins Drive	Victory Cove Wet Pond 2	Victory Cove Homeowners Association	Gai Fea
☐	230057	02/15/2024	18-01-00-0107	537 Wythe Creek Road	Builder Inc				537 Wythe Creek Road	Village Park Wet Pond	Village Park Homeowners Association	Gai Fea
☐	230012	02/06/2024	27-14-00-000C-1	0 Wythe Creek Road	LLC				0 Wythe Creek Road	Villas Phase 2 Infiltration Basin	Villas at Oxford Run Condominium Unit Owners Association	Gai Fea

1 2 ▶

Records 1 to 30 (of 34)

CODE GRAPHS

ADVANCED SEARCH RESULTS

Select View

Selected	Case Number	Case Date	Parcel	Property Address	Owner	Complainant Name	Complainant Address	Complainant Phone	Address of Violation	Description	Owner Name	Assigned To
☐	230011	02/06/2024	27-20-00-000H	100 Villa Drive	LLC				100 Villa Drive	Villas Phase I Wet Pond 1	Villas at Oxford Run Condominium Unit Owners Association	Garrett Feagans
☐	230010	02/06/2024	27-20-00-000H	100 Villa Drive	LLC				100 Villa Drive	Villas Phase I Wet Pond 2	Villas at Oxford Run Condominium Unit Owners Association	Garrett Feagans
☐	230027	02/12/2024	12-01-00-0075A	105 Rens Road	Whitehouse LLC				105 Rens Road	White House Cove Filterra #1	Whitehouse Cove LLC	Garrett Feagans
☐	230029	02/12/2024	12-01-00-0075A	105 Rens Road	Whitehouse LLC				105 Rens Road	White House Cove Filterra #2	Whitehouse Cove LLC	Garrett Feagans

◀ 1 2

Records 31 to 34 (of 34)

Good Housekeeping

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP 6	Good Housekeeping
6.1	Operations and Maintenance Activities SOPs
6.3	Written Training Plan
6.3	Emergency Responder Haz Mat training attendance
6.3	Employee Pesticide & Herbicide Certifications
6.5	List of NMP sites

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1		SOPs - Operations and Maintenance Activities						
6.1a	I.E.6.a I.E.6.x.(1)	Pollution prevention procedures at permittee-owned facilities	Maintain and implement SOPs to: 1) prevent illicit discharges, 2) ensure proper disposal of waste materials, 3) prevent discharge fo unauthorized wastewater or wash water, and 4) minimize the pollutants in runoff.	BMPs Used to Prevent Pollutant Discharges	Poquoson Engineering Department	Continuously	List of SOPs to comply with MCM 6	Compliant. SOPs are provided in SWPPP plan available on website at https://www.ci.poquoson.va.us/
6.1b	I.E.6.b.(1)	Good housekeeping procedures for road, street, sidewalk, and parking lot maintenance and cleaning	Update and implement an SOP for BMPs for anti-icing and deicing agent application, transport, and storage that prohibits the agents from containing any forms of N or P.	Anti-icing and Deicing BMPs	Poquoson Engineering Department	Before Nov. 1, 2025	Anti-icing and Deicing SOP	Compliant. Will create SOP in FY25.
6.1c	I.E.6.b.(2)	Good housekeeping procedures for renovation or significant exterior maintenance activities	Develop and implement an SOP for renovation and significant exterior maintenance activities not covered under a separate CGP	Renovation and Building Maintenance BMPs	Poquoson Engineering Department	Before Nov. 1, 2026	Renovation and Building Maintenance SOP	Compliant. Will create SOP in FY26.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1d	I.E.6.b.(3)	Good housekeeping procedures for discharging water pumped from construction and maintenance activities	Develop and implement an SOP for discharging water pumped from construction and maintenance activities not coverer under a separate CGP	Discharging Pumped Water BMPs	Poquoson Engineering Department	Continuously	Discharging Pumped Water SOP	Compliant. See Dewatering SOP in Appendix.
6.1e	I.E.6.b.(4)	Good housekeeping procedures for temporary storage of landscaping materials	Develop and implement an SOP for the temporary storage of landscaping materials	Temporary Storage of Landscaping Materials BMPs	Poquoson Engineering Department	Continuously	Temporary Storage of Landscaping Materials SOP	Compliant. See Landscaping Materials SOP in Appendix.
6.1f	I.E.6.b.(5)	Good housekeeping procedures for maintenance of permittee owned or operated vehicles and equipment	Develop and implement an SOP for preventing discharges from leaking permittee vehicles and equipment	Prevent Discharges from Leaking Equipment BMPs	Poquoson Engineering Department	Continuously	Prevent Discharges from Leaking Equipment SOP	Compliant. See Wastewater-Vehicle Washwater SOP in Appendix.
6.1g	I.E.6.b.(6)	Good housekeeping procedures for application of materials	Develop and implement an SOP for the application of pesticides and herbicides that do not exceed the manufacturer's recommendations	Pesticide and Herbicide BMPs	Poquoson Engineering Department	Continuously	Pesticide and Herbicide SOP	Compliant. See Pesticides, Herbicides, & Fertilizer SOP in Appendix.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.1h	I.E.6.b.(7)	Good housekeeping procedures for the application of fertilizer	Develop and implement an SOP for fetilizer application that follows the NMP or if not applicable, does not exceed the manufacturer's recommendations	Fertilizer BMPs	Poquoson Engineering Department	Continuously	Fertilizer SOP	Compliant. See Pesticides, Herbicides, & Fertilizer SOP in Appendix.
6.1.i	I.E.6.y.(1)	Good housekeeping procedures	Develop a summary of SOPs developed or modified during the reporting period	SOPs developed or modified	Poquoson Engineering Department	Annually	Summary of SOPs developed or modified	Compliant. Pesticides, Herbicides, & Fertilizer SOP was developed this PY. Other SOPs were developed in previous permit cycle. Other future SOPs are being developed.
6.2		Contractors						
6.2a	I.E.6.c I.E.6.x.(4)	Contractors minimize the discharge of pollutants	Provide contract language, training, SOPs, etc. to contractors to use appropriate control measures to minimize the discharge of pollutants to the MS4	Contract language, SOPs, etc.	Poquoson Engineering Department	Continuously	Summary of mechanisms, such as contract language, SOPs, etc.	Compliant. Contractors are required to follow SOPs and are supervised by Public Works staff to ensure compliance. See SWPPP located on City website at https://www.ci.poquoson.va.us/278/Stormwater-Quality

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.3		Employee Education & Training						
6.3a	I.E.6.d I.E.6.x.(5)	Written training plan	Maintain and implement a training plan for applicable staff	Training Plan	Poquoson Engineering Department	Continuously	Training Plan	Compliant. Training plan is in the Appendix.
6.3b	I.E.6.d.(1)	IDDE Training for field personnel	Provide training to field personnel in the recognition and reporting of illicit discharges	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3c	I.E.6.d.(2)	Road, street, sidewalk, and parking lot maintenance staff training	Provide training to Streets & Landscape Divisions for road, street, sidewalk, and parking lot maintenance	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3d	I.E.6.d.(3)	Good housekeeping at municipal yards	Provide training on good housekeeping and pollution prevention practices to employees working in and around maintenance, public works, or rec facilities	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training completed in July 2023. Next training scheduled for June June 2025.
6.3e	I.E.6.d.(4)	SWPPP procedures	Provide training on site-specific SWPPP procedures to staff who work in and around those facilities with SWPPPs	# of training sessions / # employees trained	Poquoson Engineering Department	No less than once every 24 months	Date, Attendance list, Summary of training objectives	Compliant. Training to be held June 2025.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.3f	I.E.6.d.(5)	Emergency Response employee training	Document spill management training for emergency responders	Certifications obtained	Haz-Mat officer	Annually	Certifications, Document in training plan	Compliant. See Spreadsheet in Appendix.
6.3g	I.E.6.d.(6)	Pesticides & herbicide certifications	Maintain certifications and training for pesticide and herbicide applicators in accordance with Virginia Pesticide Control Act and verify contractors have obtained	Certifications obtained	Poquoson Engineering Department	Continuously	Certifications	Compliant. Certifications are attached.
6.4		High-priority Facilities						
6.4a	I.E.6.g	New HPFs	Identify any new HPFs located in expanded 2020 census urban areas with a population of at least 50,000	# of new HPFs	Poquoson Engineering Department	Before Nov. 1, 2024	List of new HPFs	Compliant. No new HPFs in City service area.
6.4b	I.E.6.h I.E.6.y.(3)	SWPPPs for new HPFs	Develop and implement SWPPPs for HPFs which are located in expanded 2020 census urban areas with a population of at least 50,000	SWPPPs implemented	Poquoson Engineering Department	Before Nov. 1, 2026	SWPPPs for new HPFs	Compliant. No new HPFs in City service area.
6.4c	I.E.6.i	SWPPPs for each HPF	Maintain and implement SWPPPs for each HPF that doesn't have or require separate VPDES coverage; modify as needed	SWPPPs maintained, implemented, and/or modified	Poquoson Engineering Department	Continuously	SWPPPs for HPFs	Compliant. The City's Public Works yard house the City garage, Public Works and Utilities Departments and their equipment and vehicles. SWPPP for site included in Appendix. This is the only HPF in the City.

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.4d	I.E.6.x.(2)	HPFs	Review all HPFs to determine which are required to maintain a SWPPP and document rationale for any HPFs that are delisted	Identify HPFs required to have a SWPPP	Poquoson Engineering Department	Continuously	List of HPHs required to have SWPPPs and confirmation statement that all were reviewed	Compliant. All HPFs in City already have a SWPPP.
6.5		Nutrient management plans						
6.5a	I.E.6.p I.E.6.x.(3)	NMPs	Maintain and implement NMPs for all lands owned or operated by the permittee where nutrients are applied to a contiguous area > 1 ac	Total acreage covered by NMPs	Poquoson Engineering Department	Continuously	List of locations with NMPs, along with acreage, dates, and where to find the plans	Compliant. Four sites within the City have been identified. These sites have NMPs supplied by a contractor. Other sites are less than one acre or do not have nutrients applied. List of NMP sites included in Appendix. Full NMP available upon request.
6.5b	I.E.6.q	New areas requiring NMPs	Identify new contiguous areas > 1 ac located within 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	# of locations of newly identified areas requiring NMPs	Poquoson Engineering Department	Before Nov. 1, 2024	List of newly identified areas	Compliant. City added two new NMP sites. They are included in list in Appendix.

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

6. Pollution Prevention/Good Housekeeping for Facilities Owned or Operated by the Permittee within the MS4 Service Area								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
6.5c	I.E.6.r	NMPs for new areas	Implement NMPs on contiguous areas > 1 ac located in expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	New NMPs implemented	Poquoson Engineering Department	Before Nov. 1, 2026	New NMPs	Compliant. NMPs have been implented one both new sites.
6.6		Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.		Poquoson Engineering Department	Annually	Annual report	Compliant. Two new NMP sites were identified and implemented. Training is planned to be held in PY2. All certifications are accounted for.

Dewatering SOP

PURPOSE: In accordance with the City's MS4 permit, the City must develop a standard operating procedure that requires the implementation of BMPs when discharging water pumped from utility and maintenance activities.

SCOPE: This SOP will apply to all construction and maintenance activities that occur on City of Poquoson property where water must be discharged from the site.

RESPONSIBILITY: Public Works managers and supervisors will be responsible for ensuring that City staff and contractors are aware of these requirements. The most recent version of this SOP should be used when training workers. Individual workers are responsible for following the procedures outlined in this SOP.

PROCEDURES: The water that must be removed should be visually inspected to determine whether there are any visual pollutants. If the water is determined to be not contaminated, the water can be pumped to a nearby vegetated area and allowed to infiltrate. The dewatering should be observed and made sure to not cause any erosion or localized flooding. If the volume of water is too great or there is no vegetated area available, the water can be pumped to the sanitary sewer.

If water is contaminated with sediment, the water can be allowed to settle and the clear water pumped to a vegetated area, or pumped through a properly sized sediment bag. The discharge from the sediment bag should be directed to a vegetated area, but if not available, the discharge can flow to stormwater conveyances. Note that this is only allowed if the water being discharged is continually inspected to be clear.

If the water is contaminated with other biological or chemical pollutants, or if there are any other questions, staff should contact the Environmental Compliance Officer (757) 868-3040 or Laura.Nusz@poquoson-va.gov. Disposal will depend on the contaminant

Disposal of Landscape Waste SOP

PURPOSE: In accordance with the City's MS4 permit, the City must develop a standard operating procedure to ensure that waste generated from landscaping activities is disposed of properly in order to prevent clogging or contamination of the City's stormwater sewer system.

SCOPE: This SOP will apply to all landscaping work done within the City by the City's employees or outside contractors.

RESPONSIBILITY: Public Works managers and supervisors will be responsible for ensuring that City staff and contractors who deal with landscape waste are trained in proper disposal methods. The most recent version of this SOP should be used when training workers. Individual workers are responsible for following the procedures outlined in this SOP.

PROCEDURES: Any landscaping waste materials should be handled in an environmentally safe manner in order to reduce the likelihood of the waste entering the stormwater conveyance system.

Grass Clippings should be collected or left on grassed areas. No grass clippings should be allowed to be blown to pavement. In the event of grass clippings on pavement, they should be blown back onto grassed areas.

Leaves, sticks, tree limbs, or other landscaping materials should be gathered up as soon as possible to prevent clogging the storm drains. If they cannot be gathered up in a reasonable amount of time, the materials should be moved to a landscaped area where they cannot clog the drainage system.

All landscape materials that are not able to be reused should be gathered up and taken to York County and disposed of at the Virginia Peninsula Public Safety Authority.

Wastewater SOP

PURPOSE: In accordance with the City's MS4 permit, the City must develop a standard operating procedure to ensure that vehicle wash water and other wastewater do not enter into the City's MS4.

SCOPE: This SOP will apply to all departments and City contractors within the City who operate vehicles or other mechanized equipment that requires periodic washing. This SOP also applies to any washing that will generate washwater, including but not limited to HVAC coil cleaning, mopping, bulk containers, wheelbarrows, and other items.

RESPONSIBILITY: Public Works managers and supervisors will be responsible for ensuring that City staff and contractors are aware of these requirements. Other departments should let their employees know that should they need a vehicle or other equipment washed, they should contact Public Works. The SOP will also be distributed to the City's janitorial staff. The most recent version of this SOP should be used when training workers. Individual workers are responsible for following the procedures outlined in this SOP.

PROCEDURES: Under no circumstances should any non stormwater liquid be allowed to discharge into the City's stormwater system. No washing should take place in an area where discharge into the storm system is possible.

Fleet vehicles and equipment are routinely spray washed upon returning to the yard. Cleaning is to be conducted at the Public Works wash rack where personnel are trained to perform the washing activities so that wash water does not drain into the stormwater drainage system. A control valve directs wash rack waste water into an oil/water separator before discharging to the sanitary sewer system. The wash rack area is placarded with instruction to open the valve for wash rack use and close the valve after use.

When washing outside the public works yard, clear tap water is the preferred method of washing. When washing with clear tap water only and the wastewater will only contain the water and dirt from the equipment being cleaned, the wastewater can be directed onto a grassed or vegetated area when it can infiltrate into the soil. Any runoff from this washing can not enter a storm drain unless filtered using erosion and sediment controls first.

The use of cleaning chemicals is highly discouraged, however when that must be used, all resulted washwater must be 100% contained. All the contaminated water must then be disposed of into the sanitary sewer. This washwater must not be allowed to absorb into soils or enter the City's stormwater system. Common containment materials used include tarps or heavy duty plastic, storm drain covers, and absorbent material. If any City employee or private contractor has any questions about containment measures or disposal, contact the City Environmental Compliance Officer at Laura.Nusz@poquoson-va.gov.

Pesticides, Herbicides, & Fertilizer SOP

PURPOSE: In accordance with the City's MS4 permit, the City must develop a standard operating procedure for the application of pesticides, herbicides, and fertilizers.

SCOPE: This SOP will apply to all areas operated by Public Works or contractors on City property.

RESPONSIBILITY: Public Works managers and supervisors will be responsible for ensuring that City staff and contractors are aware of these requirements. The most recent version of this SOP should be used when training workers. Individual workers are responsible for following the procedures outlined in this SOP.

PROCEDURES: All pesticides, herbicides, & fertilizers must be stored inside under cover in order to avoid contaminating stormwater runoff. All applicators of pesticides & herbicides will have the relevant up to date VDACS certification. Manufacturer's recommendations must be followed when applying pesticides, herbicides, & fertilizers. Current Nutrient Management Plan must be followed when applying fertilizer.

Employ techniques to minimize off-target application (e.g. spray drift, over broadcasting) of pesticides and fertilizers. Applicators should be aware of the upcoming weather forecast. No pesticides should be used if rain is expected within a 24-hour period. Spills should be cleaned up immediately. Disposal of waste material and chemicals will follow the relevant state law.

GOOD HOUSEKEEPING EMPLOYEE TRAINING PLAN

Staff Roles	Training Priority	Training Frequency	Schedule	Certification Required
Field Personnel	Receive training in the recognition and reporting of illicit discharges	No less than once per 24 months	Next training will be held in June of 2025. Training last occurred in July of 2023.	Not Required.
Employees Performing Road, Street and Parking Lot Maintenance	Receive training in pollution prevention and good housekeeping measures	No less than once per 24 months	Next training will be held in June of 2025. Training last occurred in July of 2023.	Not Required.
SWPPP Procedures	Receive training on SWPPP procedures at high prority facilities	No less than once per 24 months	First training will be held in June of 2025. Will be integrated with other training.	Not Required.
Pesticide and Herbicide Applicators	Become certified by the Virginia Department of Agriculture and Consumer Services Pesticide and Herbicide program	In accordance with the Virginia Pesticide Control Act	In accordance with the Virginia Pesticide Control Act; certifications must be kept current	Virginia Department of Agriculture and Consumer Services Pesticide and Herbicide Applicator's Certification

GOOD HOUSEKEEPING EMPLOYEE TRAINING PLAN

Emergency Response Employees	The Fire Department takes the lead in this area and conducts annual training. The Police Department also is trained in Hazardous Waste Response.	Annually for the Fire Department.	Annually	Certification is not required. However, staff members must pass a test at the end of training or re take the training.

Courses Report from 2023-07-01 to 2024-07-01 US/Eastern on FireRescue1 Academy

Full Name	Email	User Organizations	Dept. ID	Group (Group Type)	User Positions	Specialty Discipline	Course Title	Type	Completio	Date Comp	Time Comp	Score	Course Cla	Total Credi	Assignment
ALLEN, NICHOLAS	nicholas.allen@poquoson-va	Poquoson Fire & Rescue Department (VA)		EMT	Firefighter		Marine Response	External Training Course	Passed	01/10/202	11:30 AM	100	ISO Catego	03:00	Company Training
ALLEN, NICHOLAS	nicholas.allen@poquoson-va	Poquoson Fire & Rescue Department (VA)		EMT	Firefighter		HAZMAT: Mass Decontamina	Full Length Course	Passed	02/20/202	03:41 PM	80	ISO Catego	01:00	Annual Compliance Training
ALLEN, NICHOLAS	nicholas.allen@poquoson-va	Poquoson Fire & Rescue Department (VA)		EMT	Firefighter		Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM	100	ISO Catego	01:00	Company Training
ALLEN, NICHOLAS	nicholas.allen@poquoson-va	Poquoson Fire & Rescue Department (VA)		EMT	Firefighter		HAZMAT: Responder Safety	Full Length Course	Passed	03/06/202	12:59 PM	100	ISO Catego	01:00	Annual Compliance Training
ARCHER, COREY	corey.archer@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic	Master Firefighter / Paramedic		Marine Response	External Training Course	Passed	12/18/202	11:00 AM	100		02:00	
ARCHER, COREY	corey.archer@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic	Master Firefighter / Paramedic		HAZMAT: Responder Safety	Full Length Course	Passed	02/01/202	07:26 PM	100	ISO Catego	01:00	Annual Compliance Training
ARCHER, COREY	corey.archer@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic	Master Firefighter / Paramedic		HAZMAT: Mass Decontamina	Full Length Course	Passed	03/26/202	10:41 PM	100	ISO Catego	01:00	Annual Compliance Training
ARCHER, COREY	corey.archer@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic	Master Firefighter / Paramedic		Marine Response	External Training Course	Passed	04/29/202	10:30 AM	100	ISO Catego	01:00	Company Training
BLANTON, JOSHUA	Joshua.Blanton@poquoson-	Poquoson Fire & Rescue Department (VA)			Firefighter		Marine Response	External Training Course	Passed	12/18/202	11:00 AM	100		02:00	
BLANTON, JOSHUA	Joshua.Blanton@poquoson-	Poquoson Fire & Rescue Department (VA)			Firefighter		HAZMAT: Mass Decontamina	Full Length Course	Passed	03/28/202	11:52 AM	90	ISO Catego	01:00	Annual Compliance Training
BLANTON, JOSHUA	Joshua.Blanton@poquoson-	Poquoson Fire & Rescue Department (VA)			Firefighter		HAZMAT: Responder Safety	Full Length Course	Passed	06/26/202	12:34 PM	100	ISO Catego	01:00	Annual Compliance Training
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	08/19/202	07:00 PM	100	ISO Catego	01:00	Officer Continuing Ed
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	08/19/202	07:00 PM	100	ISO Catego	01:00	Officer Continuing Ed
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	08/19/202	07:00 PM	100	ISO Catego	01:00	Officer Continuing Ed
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	08/25/202	04:30 PM	100	ISO Catego	01:00	
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	08/25/202	04:30 PM	100	ISO Catego	01:00	
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	10/12/202	12:30 PM	100		04:30	
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	12/16/202	05:00 PM	100	ISO Catego	03:30	
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	12/16/202	05:00 PM	100	ISO Catego	03:30	
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	01/10/202	11:30 AM	100	ISO Catego	03:00	Company Training
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/28/202	02:03 PM	100	ISO Catego	01:00	Annual Compliance Training
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	03/27/202	07:28 PM	100	ISO Catego	01:00	Annual Compliance Training
BREEDEN, JOSEPH	joseph.breeden@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	06/09/202	05:00 PM	100	ISO Catego	09:00	Company Training
COOPER, CLAY	clay.cooper@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	12/18/202	11:00 AM	100		02:00	
COOPER, CLAY	clay.cooper@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	05/17/202	01:07 PM	100	ISO Catego	01:00	Annual Compliance Training
COOPER, CLAY	clay.cooper@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	05/17/202	01:08 PM	100	ISO Catego	01:00	Annual Compliance Training
DEEL, JONATHON	jonathon.deel@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/31/202	01:46 PM	100	ISO Catego	01:00	Annual Compliance Training
DEEL, JONATHON	jonathon.deel@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/22/202	12:53 PM	100	ISO Catego	01:00	Annual Compliance Training
DIGGS, THOMAS	thomas.diggs@poquoson-va	Poquoson Fire & Rescue Department (VA)		Medic			Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM	100	ISO Catego	02:00	
DIGGS, THOMAS	thomas.diggs@poquoson-va	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/28/202	12:41 PM	100	ISO Catego	01:00	Annual Compliance Training
DIGGS, THOMAS	thomas.diggs@poquoson-va	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/26/202	12:05 PM	80	ISO Catego	01:00	Annual Compliance Training
DOWNEY, CHARLES	charles.downey@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Failed	06/25/202	02:36 PM	40		06:45	
DOWNEY, CHARLES	charles.downey@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM	100	ISO Catego	01:00	Company Training
DOWNEY, CHARLES	charles.downey@poquoson-	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	06/19/202	04:49 PM	80	ISO Catego	01:00	Annual Compliance Training
FERRARA, JOHN	john.ferrara@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			Anticholinergic Overdose (BL	Full Length Course	Passed	07/17/202	10:31 AM	100		01:00	
FERRARA, JOHN	john.ferrara@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM	100	ISO Catego	02:00	
FERRARA, JOHN	john.ferrara@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	12/18/202	11:00 AM	100		02:00	
FERRARA, JOHN	john.ferrara@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	02/14/202	09:37 AM	100	ISO Catego	01:00	Annual Compliance Training
FERRARA, JOHN	john.ferrara@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/11/202	01:51 PM	100	ISO Catego	01:00	Annual Compliance Training
GRIFFITHS, DARRYLL	darryll.griffiths@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	02/20/202	03:10 PM	100	ISO Catego	01:00	Annual Compliance Training
GRIFFITHS, DARRYLL	darryll.griffiths@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	02/22/202	03:40 PM	100	ISO Catego	01:00	Annual Compliance Training
GRIFFITHS, DARRYLL	darryll.griffiths@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM	100	ISO Catego	01:00	Company Training
HAHNE, GREGG	gregg.hahne@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/04/202	01:52 PM	80	ISO Catego	01:00	Annual Compliance Training
HAHNE, GREGG	gregg.hahne@poquoson-va.	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/05/202	03:50 PM	90	ISO Catego	01:00	Annual Compliance Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM	100	ISO Catego	02:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM	100	ISO Catego	02:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM	100	ISO Catego	02:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM	100	ISO Catego	01:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM	100	ISO Catego	01:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	10/12/202	12:30 PM	100		04:30	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM	100	ISO Catego	06:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM	100	ISO Catego	06:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	01/10/202	11:30 AM	100	ISO Catego	03:00	Company Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM	100	ISO Catego	02:00	Company Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM	100	ISO Catego	02:00	Company Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM	100	ISO Catego	02:00	Company Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/31/202	11:52 AM	80	ISO Catego	01:00	Annual Compliance Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/31/202	04:49 PM	100	ISO Catego	01:00	Annual Compliance Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	05/10/202	05:00 PM	100	ISO Catego	10:00	
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	06/02/202	05:00 PM	100	ISO Catego	08:00	Company Training
KATONA, STEVEN tyler	steven.katona@poquoson-v	Poquoson Fire & Rescue Department (VA)		Medic			Marine Response	External Training Course	Passed	06/02/202	05:00 PM	100	ISO Catego	08:00	Company Training
LINTON, JOHN-PAUL	john.linton@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM	100	ISO Catego	02:00	
LINTON, JOHN-PAUL	john.linton@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			Marine Response	External Training Course	Passed	12/18/202	11:00 AM	100		02:00	
LINTON, JOHN-PAUL	john.linton@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/19/202	10:36 AM	80	ISO Catego	01:00	Annual Compliance Training
LINTON, JOHN-PAUL	john.linton@poquoson-va.g	Poquoson Fire & Rescue Department (VA)		Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	03/18/202	11:31 AM	100	ISO Catego	01:00	Annual Compliance Training

LITTLE, ALLEN	douglas.little@poquoson-va	Poquoson Fire & Rescue Department (VA)	EMT			Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM E	100	ISO Catego	02:00	
LITTLE, ALLEN	douglas.little@poquoson-va	Poquoson Fire & Rescue Department (VA)	EMT			Marine Response	External Training Course	Passed	12/18/202	11:00 AM E	100		02:00	
LITTLE, ALLEN	douglas.little@poquoson-va	Poquoson Fire & Rescue Department (VA)	EMT			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/15/202	04:26 PM E	80	ISO Catego	01:00	Annual Compliance Training
LITTLE, ALLEN	douglas.little@poquoson-va	Poquoson Fire & Rescue Department (VA)	EMT			HAZMAT: Responder Safety	Full Length Course	Passed	03/19/202	11:25 AM E	80	ISO Catego	01:00	Annual Compliance Training
MCFARLAND, DUANE	duane.mcfarland@poquosor	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	02/20/202	04:01 PM E	100	ISO Catego	01:00	Annual Compliance Training
MCFARLAND, DUANE	duane.mcfarland@poquosor	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	02/22/202	12:38 PM E	100	ISO Catego	01:00	Annual Compliance Training
MCFARLAND, DUANE	duane.mcfarland@poquosor	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM E	100	ISO Catego	02:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM E	100	ISO Catego	02:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/06/202	10:00 PM E	100	ISO Catego	02:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/19/202	07:00 PM E	100	ISO Catego	01:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/19/202	07:00 PM E	100	ISO Catego	01:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/19/202	07:00 PM E	100	ISO Catego	01:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM E	100	ISO Catego	01:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM E	100	ISO Catego	01:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM E	100	ISO Catego	06:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM E	100	ISO Catego	06:00	
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	05/21/202	04:15 PM E	80	ISO Catego	01:00	Annual Compliance Training
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	05/23/202	12:09 PM E	100	ISO Catego	01:00	Annual Compliance Training
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	06/02/202	05:00 PM E	100	ISO Catego	08:00	Company Training
O'CONNOR, TAVISH	Tavish.O'Connor@poquoson	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	06/02/202	05:00 PM E	100	ISO Catego	08:00	Company Training
OGLE, SOLOMON	solomon.ogle@poquoson-va	Poquoson Fire & Rescue Department (VA)				HAZMAT: Mass Decontamina	Full Length Course	Passed	03/22/202	09:12 AM E	100	ISO Catego	01:00	Annual Compliance Training
OGLE, SOLOMON	solomon.ogle@poquoson-va	Poquoson Fire & Rescue Department (VA)				HAZMAT: Responder Safety	Full Length Course	Passed	03/22/202	12:53 PM E	100	ISO Catego	01:00	Annual Compliance Training
POWELL, COREY	corey.powell@poquoson-va.	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
POWELL, COREY	corey.powell@poquoson-va.	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	05/10/202	05:00 PM E	100	ISO Catego	10:00	
POWELL, COREY	corey.powell@poquoson-va.	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	05/26/202	07:18 PM E	100	ISO Catego	01:00	Annual Compliance Training
POWELL, COREY	corey.powell@poquoson-va.	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	05/28/202	11:01 PM E	100	ISO Catego	01:00	Annual Compliance Training
RHODES, RYAN	Ryan.Rhodes@poquoson-va	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM E	100	ISO Catego	02:00	
RHODES, RYAN	Ryan.Rhodes@poquoson-va	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/28/202	11:26 AM E	90	ISO Catego	01:00	Annual Compliance Training
RHODES, RYAN	Ryan.Rhodes@poquoson-va	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/26/202	05:02 PM E	80	ISO Catego	01:00	Annual Compliance Training
RICE, GRANT	Grant.Rice@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
RICE, GRANT	Grant.Rice@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	06/12/202	11:52 AM E	100	ISO Catego	01:00	Annual Compliance Training
RICE, GRANT	Grant.Rice@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	06/12/202	02:13 PM E	100	ISO Catego	01:00	Annual Compliance Training
ROSSI, ELIJAH	elijah.rossi@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic, Officer			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
ROSSI, ELIJAH	elijah.rossi@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	06/10/202	12:22 PM E	100	ISO Catego	01:00	Annual Compliance Training
ROSSI, ELIJAH	elijah.rossi@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	06/10/202	01:12 PM E	80	ISO Catego	01:00	Annual Compliance Training
TANTILLO, CHRISTOPHER	christopher.tantillo@poquos	Poquoson Fire & Rescue Department (VA)	Medic	Paramedic/EMT-I/EMT-D		Hazardous Materials	External Training Course	Passed	09/04/202	03:00 PM E	100	ISO Catego	02:00	
TANTILLO, CHRISTOPHER	christopher.tantillo@poquos	Poquoson Fire & Rescue Department (VA)	Medic	Paramedic/EMT-I/EMT-D		HAZMAT: Mass Decontamina	Full Length Course	Passed	03/26/202	01:01 PM E	90	ISO Catego	01:00	Annual Compliance Training
TANTILLO, CHRISTOPHER	christopher.tantillo@poquos	Poquoson Fire & Rescue Department (VA)	Medic	Paramedic/EMT-I/EMT-D		HAZMAT: Responder Safety	Full Length Course	Passed	03/26/202	01:21 PM E	80	ISO Catego	01:00	Annual Compliance Training
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM E	100	ISO Catego	01:00	
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	08/25/202	04:30 PM E	100	ISO Catego	01:00	
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM E	100	ISO Catego	06:00	
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/21/202	01:00 PM E	100	ISO Catego	06:00	
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM E	100	ISO Catego	02:00	Company Training
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM E	100	ISO Catego	02:00	Company Training
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	03/24/202	10:00 AM E	100	ISO Catego	02:00	Company Training
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	03/31/202	05:01 PM E	90	ISO Catego	01:00	Annual Compliance Training
TERRILL, JERRY	jerry.terrill@poquoson-va.gc	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	03/31/202	10:20 PM E	100	ISO Catego	01:00	April Computer Based Training Annual Compliance Training
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/16/202	05:00 PM E	100	ISO Catego	03:30	
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	12/16/202	05:00 PM E	100	ISO Catego	03:30	
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	04/29/202	10:30 AM E	100	ISO Catego	01:00	Company Training
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	05/26/202	11:48 AM E	100	ISO Catego	01:00	Annual Compliance Training
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	05/27/202	09:19 PM E	100	ISO Catego	01:00	April Computer Based Training Annual Compliance Training
TORRENCE, ALLEN	Allen.torrence@poquoson-v	Poquoson Fire & Rescue Department (VA)	Medic			Marine Response	External Training Course	Passed	06/09/202	05:00 PM E	100	ISO Catego	09:00	Company Training
WATERS, TRAVIS	waterstravis24@gmail.com	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Mass Decontamina	Full Length Course	Passed	02/22/202	09:49 AM E	100	ISO Catego	01:00	Annual Compliance Training
WATERS, TRAVIS	waterstravis24@gmail.com	Poquoson Fire & Rescue Department (VA)	Medic			HAZMAT: Responder Safety	Full Length Course	Passed	02/22/202	09:47 AM E	100	ISO Catego	01:00	Annual Compliance Training
WATERS, TRAVIS	waterstravis24@gmail.com	Poquoson Fire & Rescue Department (VA)	Medic			Hazardous Materials	External Training Course	Passed	02/22/202	03:00 PM E	100	ISO Catego	01:00	Company Training
WOLKOWICH, CHRISTOPHER	christopher.wolkowich@poq	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	05/30/202	10:34 PM E	100	ISO Catego	01:00	Annual Compliance Training
WOLKOWICH, CHRISTOPHER	christopher.wolkowich@poq	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	05/30/202	10:16 PM E	80	ISO Catego	01:00	Annual Compliance Training
YOUNG, JOHN	JOHN.YOUNG@POQUOSON-	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Mass Decontamina	Full Length Course	Passed	02/20/202	11:08 AM E	80	ISO Catego	01:00	Annual Compliance Training
YOUNG, JOHN	JOHN.YOUNG@POQUOSON-	Poquoson Fire & Rescue Department (VA)	Medic, Officer			HAZMAT: Responder Safety	Full Length Course	Passed	02/20/202	04:44 PM E	90	ISO Catego	01:00	Annual Compliance Training
27 users in total													**271:45**	

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued	REGISTERED TECH	Fee Paid	Certificate Number
6/21/2024	FOR BL# 12950		130603 - T

Expires
06/30/2026

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

JERRY R BEAN
CITY OF POQUOSON
45 Blake Loop Apt E
Newport News VA 23606

Joseph Guthrie
Commissioner

Liza Fleeson Trossbach
Authorized Representative

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

PESTICIDE APPLICATOR

Expires	CERTIFICATE	Certificate Number
06/30/2026	GOVT EMPLOYEE	38303 - G
	FOR BL# 12950	

BONNIE FAYE HAMPTON
CITY OF POQUOSON
29 Crestwood Cir
Hampton VA 23669

Liza Fleeson Trossbach
Authorized Representative

(Fold Here)

VALID ONLY FOR CATEGORIES LISTED

3-A	ORNAMENTAL CONTROL	6/30/2028
6	RIGHT-OF-WAY PEST CONTROL	6/30/2028
3-B	TURF PEST CONTROL	6/30/2028

Sign Here _____
Pesticide Applicator

Cut and Keep in your wallet.

For Questions /Concerns call:
Office of Pesticide Services
(804)786-3798

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued		Fee Paid	Certificate Numbe
6/7/2024	GOVT EMPLOYEE FOR BL# 12950	EXEMPT	38303 - G

Expires
06/30/2026

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

BONNIE FAYE HAMPTON
CITY OF POQUOSON
29 Crestwood Cir
Hampton VA 23669

Joseph Guthrie
Commissioner

Liza Fleeson Trossbach
Authorized Representative

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued
3/13/2024

GOVT EMPLOYEE
FOR BL# 12950

Fee Paid
EXEMPT

Certificate Number
124744 - G

Expires
6/30/2025

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

DANIEL J REEDER
CITY OF POQUOSON
314 WENDWOOD DR
NEWPORT NEWS VA 23602

Joseph Guthrie
Commissioner

Liza Fleeson Trossbach
Authorized Representative

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
PESTICIDE APPLICATOR

Expires	CERTIFICATE	Certificate Number
06/30/2024	GOVT EMPLOYEE	38303 - G
	FOR BL# 12950	

BONNIE FAYE HAMPTON
CITY OF POQUOSON
29 Crestwood Cir
Hampton VA 23669

Liza Fleeson Trossbach
Authorized Representative

Fold Here

VALID ONLY FOR CATEGORIES LISTED

6	RIGHT-OF-WAY PEST CONTROL	6/30/2024
7-A	GENERAL PEST CONTROL	6/30/2024
3-B	TURF PEST CONTROL	6/30/2024
3-A	ORNAMENTAL CONTROL	6/30/2024

Sign Here ______________________________
Pesticide Applicator

Cut and Keep in your wallet.

For Questions /Concerns call:
Office of Pesticide Services
(804)786-3798

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued	GOVT EMPLOYEE	Fee Paid	Certificate Number
8/10/2022	FOR BL# 12950	EXEMPT	38303 - G

Expires
06/30/2024

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

BONNIE FAYE HAMPTON
CITY OF POQUOSON
29 Crestwood Cir
Hampton VA 23669

Joseph Guthrie
Commissioner

Liza Fleeson Trossbach
Authorized Representative

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
Office of Pesticide Services
P O Box 1163
Richmond, VA 23218

BONNIE FAYE HAMPTON
CITY OF POQUOSON
29 Crestwood Cir
Hampton VA 23669

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

PESTICIDE APPLICATOR

Expires	CERTIFICATE	Certificate Number
06/30/2024	REGISTERED TECH	130603 - T

FOR BL# 12950

JERRY R BEAN
CITY OF POQUOSON
45 Blake Loop Apt E
Newport News VA 23606

Lira Pleason Troubach
Authorized Representative

(Void Date)

VALID ONLY FOR CATEGORIES LISTED

60	REGISTERED TECHNICIAN	6/30/2024
	Trained In	

Sign Here: _____
Pesticide Applicator

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For Questions /Concerns call:
Office of Pesticide Services
(804)786-3798

VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
P O BOX 1163, RICHMOND VA 23218-1163

PESTICIDE APPLICATOR CERTIFICATE

Issued	REGISTERED TECH	Fee Paid	Certificate Number
8/10/2022	FOR BL# 12950		130603 - T

Expires
06/30/2024

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

JERRY R BEAN
CITY OF POQUOSON
45 Blake Loop Apt E
Newport News VA 23606

Joseph Guthrie
Commissioner

Lira Pleason Troubach
Authorized Representative

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JERRY R BEAN
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VIRGINIA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES

PESTICIDE APPLICATOR

Expires	CERTIFICATE	Certificate Number
6/30/2025	REGISTERED TECH	93001 - T

FOR BL# 12950

AARON M MCDANIEL
CITY OF POQUOSON
500 City Hall Ave
Poquoson VA 23662

Liza Fleeson Trossbach
Authorized Representative

(Fold Here)

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60	REGISTERED TECHNICIAN	6/30/2027
	Trained In	

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PESTICIDE APPLICATOR CERTIFICATE

Issued	REGISTERED TECH	Fee Paid	Certificate Number
6/12/2024	FOR BL# 12950		93001 - T

Expires
6/30/2025

Issued in accordance with application duly executed by the person shown below who has agreed to comply with all applicable laws, rules and regulations

AARON M MCDANIEL
CITY OF POQUOSON
500 City Hall Ave
Poquoson VA 23662

Joseph Guthrie
Commissioner

Liza Fleeson Trossbach
Authorized Representative

City of Poquoson

Stormwater Pollution Prevention Plan

Public Works/Utilities/ Fleet Maintenance Facility

12 Municipal Drive
Poquoson, VA 23662

June 2017

Submitted By

AECOM
11832 Rock Landing Drive
Newport News, VA 23606
(757) 873-0559

Stormwater Pollution Prevention Plan

for:

City of Poquoson, Public Works/Utilities/Fleet Maintenance Facility

12 Municipal Drive
Poquoson, VA 23662
(757) 868-3590

SWPPP Contact(s):

Facility Supervisor:
Jerry Cagle
12 Municipal Drive
Poquoson, VA 23662
(757) 868-3590
Jerry.cagle@poquoson-va.gov

SWPPP Preparation Date:

06/30/2017
MS4 Permit Number: VAR040024

AECOM

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INTRODUCTION

I. Purpose

The City of Poquoson's current Municipal Separate Storm Sewer System (MS4) permit was issued by the Virginia Department of Environmental Quality (DEQ) under the purview of the United States Environmental Protection Agency (EPA), and became effective on July 1, 2013. Under the terms and conditions of the permit, the City was required to identify all municipal "high-priority facilities" that have a high potential for discharging pollutants, and are not covered under a separate Virginia Pollutant Discharge Elimination System (VPDES) permit. For those facilities identified as high-priority facilities, the permit requires the development and implementation of facility specific stormwater pollution prevention plans (SWPPP). These facility SWPPPs identify potential sources of pollutants that can affect stormwater discharges, describe the practices that will be implemented to prevent or control the release of pollutants in stormwater discharges, and are designed to help minimize or prevent pollutant discharge from daily operations such as equipment and fleet maintenance, storage, transport, application and disposal of fuels, chemicals, waste fluids, construction material and roadway maintenance materials. The City of Poquoson identified its Public Works/Utilities/Fleet Maintenance Facility as its only high-priority facility.

A link to the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems is available on DEQ's website at:
http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx

II. SWPPP Content

This SWPPP includes the following:

a. Activities at the Facility and a site description that includes a site map identifying all outfalls, direction of flows, existing source controls, and receiving water bodies;
b. Stormwater pollution prevention team;
c. Summary of potential pollutant sources;
d. Description of erosion control measures;
e. A description of the applicable training as required;
f. Schedules and procedures; and
g. Signature requirements

The contents of this SWPPP will be evaluated and modified as necessary to accurately reflect any discharge, release, or spill from the facility.

A copy of this SWPPP will be kept at each facility and will be updated as needed, and will be used as part of facility staff training.

SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION.

1.1 Facility Information.

Facility Information

Name of Facility: City of Poquoson, Public Works/Utilities/Fleet Maintenance Facility

Street: 12 Municipal Drive, Poquoson, VA 23662

City: Poquoson State: VA ZIP Code: 23662

Latitude/Longitude

Latitude: 37. 1306° N (decimal degrees)

Longitude: 76.3764 ° W (decimal degrees)

Method for determining latitude/longitude (check one):

☐USGS topographic map (specify scale:) ☒GPS

☐Other (please specify):

Horizontal Reference Datum (check one):

☐NAD 27 ☒NAD 83 ☒WGS 84

Is the facility located in Indian country? ☐Yes ☒No

If yes, name of Reservation, or if not part of a Reservation, indicate "not applicable."

Are you considered a "federal operator" of the facility?

Federal Operator – an entity that meets the definition of "operator" in this permit and is either any department, agency or instrumentality of the executive, legislative and judicial branches of the Federal government of the United States, or another entity, such as a private contractor, operating for any such department, agency, or instrumentality.

☐Yes ☒No

Estimated area of industrial activity at site exposed to stormwater: 3.09 (acres)

Discharge Information

Does this facility discharge stormwater into a municipal separate storm sewer system (MS4)?

☒Yes ☐No

If yes, name of MS4 operator: The City of Poquoson Public Works

Name(s) of surface water(s) that receive stormwater from your facility: Cedar Creek, Floyds Bay

Does this facility discharge industrial stormwater directly into any segment of "impaired water" (see definition in 2015 MSGP, Appendix A)? ☐Yes ☒No

There are no direct discharges of stormwater from the facility to impaired waters. Stormwater from the facility drains to non-tidal perimeter ditches leading to Cedar Creek, and to non-tidal roadside ditches that ultimately drain to Floyds Bay. Both Cedar Creek and Floyds Bay are tidal waters and are considered impaired waters due to fecal coliform. [Cedar Creek (VAT-C07E_CCR01A06)(CO7E-17-SF); Floyds Bay (VAT-C07E_CCR01A06)(CO7E-17-SF)]

If Yes, identify name of the impaired water(s) (and segment(s), if applicable): NA

Which of the identified pollutants may be present in industrial stormwater discharges from this facility?

NONE

Has a Total Maximum Daily Load (TMDL) been completed for any of the identified pollutants? If yes, please list the TMDL pollutants: NA

Does this facility discharge industrial stormwater into a receiving water designated as a Tier 2, Tier 2.5 or Tier 3 water (see definitions in 2015 MSGP, Appendix A)? ☐Yes ☒No

Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2015 MSGP Table 1-1)? ☐Yes ☒No

If Yes, which guidelines apply?

1.2 Contact Information/Responsible Parties.

Facility Operator(s):

Name: H. Thomas Jones
Address: 12 Municipal Drive
City, State, Zip Code: Poquoson, VA 23662
Telephone Number: (757) 868-3590
Email address: thomas.jones@poquoson-va.gov
Fax number: (757) 868-3515

Facility Owner(s):

Name: City of Poquoson
Address: 500 City Hall Avenue
City, State, Zip Code: Poquoson, VA 23662
Telephone Number: (757) 868-3000
Email address: randy.wheeler@poquoson-va.gov
Fax number: (757) 868-3101

SWPPP Contact(s):

SWPPP Contact Name (Primary): Jerry Cagle
Telephone number: (757) 868-3590
Email address: jerry.cagle@poquoson-va.gov
Fax number: (757) 868-3515

1.3 Stormwater Pollution Prevention Team.

Table 1.1: Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
H. Thomas Jones	Director of Public Works
Bob Speechley	Utilities Superintendent
Jon Ellis	Fleet Maintenance Supervisor
Jerry Cagle	Facility Supervisor

1.4 Site Description.

The Public Works/Utilities/Fleet Maintenance Facility is a centralized facility that maintains city vehicles and consolidates operations for Public Works, Public Utilities, and Fleet Maintenance. The facility contains administrative buildings, a public works storage building, fleet maintenance garages, a vehicle wash bay, a salt/sand shed, fuel/oil storage tanks, a fueling area, and indoor and outdoor storage for construction and maintenance related tools and materials. Activities at the site are generally related to fleet maintenance, equipment repair, and fuel and chemical storage and disbursement.

Activities at the Facility include:

- Street Sweeper Storage and Maintenance
- Landscaping Equipment Storage and Maintenance
- Fleet Vehicle Maintenance and Washing
- Heavy Equipment Maintenance and Washing
- Public Works Infrastructure Maintenance
- Outdoor Material Loading and Unloading
- Fuel/Heating Oil Disbursement
- Sanding and Painting*
- Welding and Metal Fabrication*

*As part of routine maintenance, fleet maintenance activity can include incidental equipment and/or vehicle sanding, painting, welding and metal fabrication. Larger or more complex maintenance activities of this nature are performed by off-site contractors. Minimal quantities of materials and chemicals for these activities are stored on-site.

The facility site is relatively flat. Stormwater from approximately 1.48 acres, or 48 percent of the facility area, runs off as sheet flow to one of three perimeter ditches located to the north, west, and south of the facility. The perimeter ditches are part of a larger ditch system that drains south to Cedar Creek. Overland flow to the perimeter ditches occurs primarily from the areas bordering the facility fence on northern, western and southern edges of the facility property.

A small pipe system drains the majority of the remaining site area. Approximately 1.34 acres, or 43 percent of the site, drains to a pipe system that discharges into a grassed roadside ditch just east of the facility which eventually drains to Floyds Bay. Overland flow from approximately .11 acres in the northeast corner

drains to a shallow paved swale on Municipal Drive and flows north to a road culvert and a ditch leading to Floyds Bay. The remaining .16 acres of the facility located in the southeast corner drains to a small system of roadside ditches and pipes before discharging into the southern perimeter ditch through an 18" pipe. The facility drainage map can be found in Attachment C.

1.5 General Location Map.

The general location map for this facility is included as Attachment A (provided at the end of this document).

1.6 Site Maps.

The facility site map is included as Attachment B. A separate drainage map for the facility is included as Attachment C.

SECTION 2: POTENTIAL POLLUTANT SOURCES.

2.1 Potential Pollutants Associated with Industrial Activity.

Table 2.1: Potential Pollutant Sources

Industrial Activity	Associated Pollutants
Fueling/Refueling	Fuel
Vehicle/Equipment Maintenance	Oil, Grease, Battery Acid, Vehicle Fluids, Cleaners, Cleaning Solvents, Hand Sanitizers, Paint hardener, Rust Proofers
Baseball Field Maintenance	Detergents, Air Fresheners, Bleach, Odor Neutralizers
Building Maintenance	Paint, Detergents, Air Fresheners, Bleach, Odor Neutralizers
General Maintenance	Insect Repellant, Insect Killer, Hydraulic Cement Compound, Propane
General and Roadway Maintenance	Adhesives, Sealants, De-Icers and Ice Melt Additives, Sand/Salt Mixture, Cold Patch Asphalt Mix, Sand
Good Housekeeping	Sweeping Compound, Crumb Rubber
Landscaping	Fertilizers, Soil Amendments, Adulticides, Larvicide, Herbicides, Insecticides

2.2 *Spills and Leaks.*

Table 2.2: Areas of Site Where Potential Spills/Leaks Could Occur

Location	Discharge Points
Fueling Station	Outfall B
Fleet Maintenance Garage	Outfall B
Public Works Storage	Outfall B
Chemical Storage	Outfall B
Vehicle Washing Area	Outfall B
Vehicle Storage Area	South Perimeter Ditch
Waste Oil Tank Storage Shed	Outfall C
Above Ground Diesel/Gasoline Storage Tank	Outfall B
Above Ground Heating Oil Storage Tank	Outfall B
Sand/Salt Storage Shed	West Perimeter Ditch
Used Battery Storage Area	South Perimeter Ditch
Used Tire Storage Area	South Perimeter Ditch

2.3 *Unauthorized Non-stormwater Discharges Documentation.*

No unauthorized non-stormwater discharges have been observed at the facility at this time.

2.4 *Salt Storage.*

A salt/sand mixture is stored under cover inside a divided wood and vinyl structure. The structure is approximately fifty feet in length, thirty feet in width and fifteen feet in height.

2.5 *Sampling Data Summary.*

No stormwater sampling was conducted for this site.

SECTION 3: STORMWATER CONTROL MEASURES AND PROCEDURES.

3.1 *Non-numeric Technology-based Effluent Limits (BPT/BAT/BCT)*

3.1.1 *Minimize Exposure.*

The salt/sand mixture pile is kept in a divided wood and vinyl covered structure. The front and back of the salt/sand structure is open. To avoid exposure of the mixture pile to precipitation, the edge of the pile is kept approximately three feet behind the drip line of the eave. A check dam (berm) consisting of #10 fines gravel is maintained across the bottom front of the pile in order to mitigate material migration into the general yard.

Figure 1. Salt/Sand Mixture Storage

Figure 2. Sand and Cold Patch Mix Storage

A small cold patch mix asphalt stockpile and sand stockpile are also kept under cover in the same wooden structure as the sand/salt mixture to minimize exposure to precipitation.

Used batteries and tires are temporarily stored outside prior to disposal in separate covered containers to limit exposure to the elements.

The used motor oil storage tank is located inside a separate metal shed to prevent exposure to precipitation. The used motor oil storange tank is a double lined tank that sits inside a container, and the shed utilizes a secondary containment pallet system.

All onsite dumpsters are fitted with closable lids and sliding doors. The lids and doors are kept closed at all times to prevent moisture from entering the dumpster.

Cleaning, landscaping and maintenance chemicals are stored inside various sheds and buildings within the facility to prevent exposure to precipitation. The yard is inspected every 7-10 days by city staff. Spills or vehicle leaks are cleaned up immediately and vehicle leaks are corrected promptly or scheduled for repair with Fleet Maintenance.

There is a clearly-marked dedicated chemical storage room inside the Public Works Storage Building. Safety Data Sheet (SDS) binders are maintained in the Public Works Storage Building, the Fleet Maintenance Garage, the Public Utilities Building as well as the Public Works Administration Building for safety and compliance.

Figure 3. Chemical Storage Room

3.1.2 Good Housekeeping.

Public Works staff developed standard operating procedures (SOPs) for the Public Works/Utilities/Fleet Maintenance Facility. Facility staff maintains the SOPs document which contains instructions on various municipal facility activity protocols for good housekeeping, maintenance, and storm water pollution prevention. The SOPs document is included as Attachment F of this SWPPP.

Fleet vehicles and equipment are routinely spray washed upon returning to the yard. Cleaning is conducted at the Public Works wash rack and personnel are trained to perform the washing activities so that wash water does not drain into the stormwater drainage system. A control valve directs wash rack waste water into an oil/water separator before discharging to the sanitary sewer system. The wash rack area is placarded with instruction to open the valve for wash rack use and close the valve after use.

Prior to disposal, scrap metal and miscellaneous unusable materials are temporarily stored off the ground on pallets or racks and kept covered.

The waste oil storage tank is typically pumped out 1 to 2 times a month by Heritage-Crystal Clean LLC., depending on the levels of oil in the tank. When necessary, additional pump outs are performed. The inside of the shed housing the tank is cleaned twice a week.

The yard area is swept as needed and any debris or sediment is properly disposed.

3.1.3 Maintenance.

City vehicles and equipment are maintained at this site. The majority of vehicles at the facility are stored outside due to limited covered space. Vehicles are visually monitored daily and weekly for leaks/spills and cleaned and repaired as needed. As part of the facility's SOPs, vehicles are to be inspected by city staff each day for leaks/spills before use, and any leaks found are contained and cleaned immediately. Vehicles with leaks that cannot be rectified at the time of discovery are sent for repair work by Fleet Maintenance.

Repair and maintenance work on vehicles and equipment is done primarily inside the Fleet Maintenance Garage or the Public Works Storage Building to prevent exposure to precipitation; however there are occasions where maintenance and repair work must be done outside. Maintenance activities that must be performed outside and that involve potentially hazardous substances are confined to fair-weather days to prevent exposure to precipitation, and/or stormwater.

In addition, if work is performed outside, stormwater drainage conveyances are protected from spills using filter socks, filter bags and/or drain seals. Work is done away from the drain inlet located near the Public Works Administration Building and away from perimeter ditches as well.

The rock check dam along the perimeter fence used to filter runoff from the site is maintained by removing excessive plant growth, routinely inspected, and additional rock is added on an as-needed basis. The oil/water separators and floor drain systems associated with the wash rack are inspected routinely, and the oil/water separator is pumped out as part of its yearly maintenance by Clean Harbors Tank Cleaning.

Figure 4. Fleet Maintenance Garage (right), and Public Works Storage Building

3.1.4 Spill Prevention and Response.

All vehicles with a potential for hydraulic fluid leaks are equipped with spill kits. Additional spill kits are also posted inside the Public Works Storage Building, the Public Utilities Building and the Fleet Maintenance Garage. Operators are trained on the proper response to small spills.

Vehicles and equipment, equipment storage areas, material storage areas, and waste storage areas are checked and inspected daily for fluid leaks, uncovered containers and deteriorating labels and/or containers as part of preventative facility maintenance.

Containers that could be susceptible to spillage or leakage are clearly labeled to encourage proper handling and facilitate rapid response if spills or leaks occur.

Gasoline and diesel fuel tanks are double walled and the leak detection devices and exterior seams are inspected monthly.

The oil/water separators and their downstream discharges are monitored and inspected on a monthly basis and pumped out on a regular schedule or as needed.

The vehicle fueling pump area is uncovered and exposed. There is an emergency stop button which immediately cuts the flow of gas to the pumps. There is a fuel spill kit located directly adjacent to the pumps. All spills/leaks must be properly contained using the spill containment protocol, cleaned up and reported to the Facility Supervisor. Virginia Department of Emergency Management's 24-hour Emergency Operations Center (VaEOC) must be notified of any reportable spills as stated in the DEQ Petroleum Spill Notification Policy.

Figure 5. Fueling Station Spill Kit

Figure 6. Drop Inlet Spill Covers

Figure 7. Drop Inlet Spill Covers

Heating oil and waste oil tanks are monitored and inspected routinely and emptied as necessary. The waste oil tank has a secondary containment perimeter since it is housed within a wood shed.

Chemicals used in landscaping, or for facility, vehicle, sports complex or roadway maintenance are stored inside various sheds and rooms throughout the maintenance facility. The chemical storage room inside the Public Works Storage Building utilizes a secondary containment rack sized to contain one hundred ten percent (110%) of the contents of the storage room.

The Poquoson Fire Department responds to and handles any spills at the facility over five (5) gallons. Public works employees handle smaller spills, and all Facility employees have participated in routine Hazmat training.

3.1.5 Erosion and Sediment Controls.

The facility's drop inlet structures use inter-drain filters and/or sock filters.

The Public Works staff installed premanufactured blocks to create a wall for push/containment of sand, crushed rock and aggregates stored at the facility. This has reduced the tracking and soil migration across the yard.

Figure 8. Premanufactured Block Containment

A rock check dam lines the facility's fence around the western half of the site. The check dam helps prevent sediment and floatables from leaving the yard and reaching the perimeter ditches, and limits concentrated flow from leaving the site thereby reducing erosion. The majority of the facility drains towards the middle of the yard and into the stormwater inlet located adjacent to the Public Works Administration Building, which drains to Outfall B as shown on the drainage map. The check dam is located along the fence to intercept stormwater runoff from the perimeter of the facility that does not drain into the stormwater inlet.

Exposed areas are stabilized by encouraging vegetative growth, and stormwater passing through the rock check dam flows through grassed areas before reaching the perimeter ditch.

The yard is swept regularly to help prevent sediment from being carried offsite by stormwater runoff.

3.1.6 Management of Runoff.

Approximately 1.34 acres, or approximately forty three percent of the facility, drains to a pipe system that begins just northwest of the Public Works Administration Building, and flows south to a yard drain at the southwest corner of the Administration building. The pipe system then drains east before discharging to a roadside ditch adjacent to Municipal Drive. This outfall is labeled "Outfall B" on the drainage map in Attachment C. The ditch from outfall B eventually drains to Floyds Bay, which is a tributary to the Poquoson River. A small part of the facility in the northeast corner also drains to Floyds Bay. Approximately 0.11 acre in this area drains towards Municipal drive as sheet flow, where a shallow paved swale drains north to a culvert under Municipal Drive. Where the paved swale leaves the facility is shown as Outfall "A" on the drainage area map.

Stormwater drains off from 1.48 acres of the facility as overland sheet flow to 3 perimeter ditches located to the north, west, and south of the facility. Stormwater flow to the perimeter ditches is fairly evenly divided between the three, with 0.55, 0.42, and 0.51 acre of the facility draining to the north, west, and south perimeter ditches respectively. These perimeter ditches eventually drain to Cedar Creek located approximately 2,000 feet downstream to the south. Cedar Creek is a tributary to the Northwest Branch of Back River. Approximately .16 acres in the southeast corner of the site drains to a small ditch and pipe system that discharges to the south perimeter ditch at Outfall "C" on the drainage map.

Overland flow leaving the site is controlled with a rock check dam against the fence on the west side of the facility. After passing through the check dam, stormwater is also filtered by grass and vegetation between the outside of the fence and the perimeter ditches.

Figure 9. Rock Check Dam Against Perimeter Fence

3.1.7 Salt Storage Piles or Piles Containing Salt.

A salt and sand mixture pile is stored under a large divided wood and vinyl storage structure approximately fifty feet in length, thirty feet in width and fifteen feet in height. Approximately seventy percent (70%) of the structure's storage capacity is dedicated to the salt and sand mixture.

The pile is contained by a check dam (berm) made of #10 fines gravel placed along the front opening of the storage structure. A four-foot high concrete blockade is used to help contain the sand and salt mixture and keep it separated from piles of sand and cold patch asphalt mix which are also stored in the structure. The sand and salt mixture pile is kept at least three feet behind the drip line of the structure eaves to minimize exposure to precipitation.

3.1.8 Non-Stormwater Discharges.

The facility does not generate non-stormwater discharges. Wash water from vehicle cleaning at the facility wash rack drains through an oil/water separator before discharging to the sanitary sewer system. Vehicle wash water is not allowed to drain to the storm sewer system. A control valve is used to direct wash water into the sanitary sewer system when the wash rack is in use, and facility staff are trained in the proper use of the wash rack.

Figure 10. Wash Rack and Oil/Water Separator Area

3.1.9 Dust Generation and Vehicle Tracking of Industrial Materials.

Sediment mobilization is minimized by keeping the pavement in areas which receive vehicular traffic in good condition. The paved surfaces are regularly swept to contain sediment, and minimize dust generation.

Vehicles that deliver stockpile materials such as crushed rock, sand or waste materials are washed in the wash rack area if needed.

3.1.10 Waste, Garbage and Floatable Debris

The discharge of waste and garbage is controlled by the facility's good housekeeping practices. Waste is disposed in roll off dumpsters within the facility. Waste and garbage collection is handled by a third party contractor, Republic Services, and is collected every Friday.

The discharge of floatable debris offsite through the storm sewer system is minimized through the use of filter socks or bags in stormwater inlets. The rock check dam along the facility fence helps minimize trash and debris from reaching the perimeter ditches by overland flow.

SECTION 4: SCHEDULES.

4.1 Schedules for Good Housekeeping/Stormwater Pollution Prevention Activities.

Daily

The following activities related to good housekeeping and stormwater pollution prevention are performed on a daily basis by staff at the Public Works/Utilities/Fleet Maintenance Facility:

- Equipment storage areas, materials storage areas, and waste storage areas are monitored and inspected for:
    - fluid leaks,
    - uncovered containers, and
    - deteriorating labels and/or containers.

  Any problems that are noted are corrected immediately.
- Vehicles and equipment are inspected for leaks prior to use. Any leaks are cleaned up immediately and rectified, If the leak cannot be fixed immediately, the vehicle is sent to the garage for repairs.

Monthly

The following activities related to good housekeeping and stormwater pollution prevention are performed on a monthly basis:

- Secondary containment systems (i.e. oil, fuel storage tanks) are inspected and emptied as necessary.
- Oil/water separators located by equipment building and at the wash rack are inspected and maintained. This includes monitoring downstream discharges from the oil/water separators for any oily discharges.
- Oil absorbent materials in floor drains and/or catch basins is inspected, and removed or replaced as appropriate.
- Floor drains and storm receiver inlets and outlets are inspected for excessive amounts of sediment, and cleaned out as necessary.
- A formal inspection is performed monthly at the facility, and an inspection report is produced. The monthly inspection report includes any incidents reported or actions taken as part of the daily/weekly visual inspections by facility staff.
- The sand/salt mixture storage and loading areas are inspected to ensure that the sand/salt mixture pile is not exposed to the weather.
- To minimize pesticide use, the facility is inspected for food, water, and harborage for pests. Pest traps are inspected and dead pests are removed and disposed of.

4.2 *Employee Training.*

Training for Public Works, Public Utilities, and Fleet Maintenance employees is required once every two years at a minimum under the City's MS4 general permit. The City is required to document training activities and submit training documentation to DEQ annually with its MS4 Annual Report by October 1st of each year. The training classes are reviewed routinely to determine effectiveness, appropriate additional topics and to ensure adequate training for all departments within the facility.

All Public Works employees are trained to identify, investigate and report illicit discharges. The drainage supervisor receives additional training on the importance of screening for, and identifying illicit discharges, and ensures his crews are properly trained.

Public Works, Public Utilities and Fleet Maintenance employees are also trained on topics which include, but are not limited to, the following:

1. Spill reporting procedures
2. Spill prevention procedures
3. Proper cleaning materials and techniques
4. Chemical and hazardous materials
5. Identifying the pathways a spill could take to enter the storm drain system
6. Best practices to prevent storm water contamination
7. Proper spill response and clean up procedures
8. Proper disposal of hazardous material and hazardous material containers
9. Identifying materials that can cause a harmful spill
10. Identifying petroleum and gasoline storage locations
11. Dry Weather Screening
12. Illicit Discharge

4.3 *Routine Facility Inspections.*

1. **Person(s) or positions of person(s) responsible for inspection.**

   Jerry Cagle, Facility Supervisor;

   Mark Boesen, Construction Inspector

2. **Schedules for conducting inspections.**

   The Poquoson Public Works/Utilities/Fleet Maintenance Facility Supervisor routinely conducts ongoing site inspections to ensure proper housekeeping, vehicle and equipment, materials, and waste petroleum maintenance. Visual inspections are conducted daily, with written reports filed on a monthly basis with the monthly facility inspection report. Any deficiencies identified during weekly visual inspections are corrected immediately.

The Facility Supervisor also conducts a formal monthly facility inspection. The monthly inspection includes an evaluation of all areas of the facility where pollutant sources are exposed to stormwater, and evaluates the vehicle storage areas, material storage areas, wash rack area, fueling area and areas where stormwater leaves the site. Facility personnel are notified of any findings or deficiencies identified during inspections. The Stormwater Pollution Prevention Plan Monthly Inspection Report can be found in Attachment C. The report and the associated checklists include various site specific concerns.

3. **Areas where industrial materials or activities are exposed to stormwater**.

   Fueling area, gasoline and diesel fuel tank

4. **Areas identified in the SWPPP and any others that are potential pollutant sources**

   Fueling area, fleet maintenance area, wash rack area, salt/sand storage, chemical storage room.

5. **Areas where spills and leaks have occurred in the past 3 years.**

   No spills or leaks have occurred in the past 3 years

6. **Inspection information for discharge points.**

   There are three outfall locations where stormwater leaves the facility and enters the City's MS4 as a point discharge. A 12-inch pipe carries stormwater east from the site where it outfalls into a v-shaped, grass lined ditch adjacent to Municipal Drive. This outfall is labelled "Outfall B" on the drainage map included as Attachment C. Approximately 1.34 acres, or forty three percent of the facility drains to Outfall B.

   The second location is just north of the fueling station, where a small concrete swale along Municipal Drive carries stormwater north away from the facility. This concrete swale collects overland flow from approximately 0.11 acres of facility property in the northeast corner. This outfall is shown as "Outfall A" on the drainage map.

   The third location is an 18" pipe that drains approximately 0.16 acres of the southeast corner of the facility, near the used battery drop off shed. The pipe discharges into the south perimeter ditch, and is shown as "Outfall C" on the drainage map.

   The remaining 1.48 acres of the site drain offsite as sheet flow to the perimeter ditches located on the north, west, and south sides of the facility. There are no outfall locations receiving point discharges from the site. The perimeter ditches are shown on the drainage map.

7. **List the control measures used to comply with the effluent limits contained in this permit.**
   No effluent limits for this facility

8. **Other site-specific inspection objectives.**

   - Posting and maintaining barriers to provide proper location of household waste drop off service for controlled debris removal.
   - Maintaining "NO DUMPING" signs.
   - Used oil facility outside Public Works Facility open to public 365 days a year; closed during yearly five (5) day event in October, overwhelming storm events and when tank is full.
   - Maintaining barriers used to prevent access to facility.

4.4 Monitoring.

There are no monitoring efforts required for this facility.

SECTION 5: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS.

5.1 Documentation Regarding Endangered Species.

There are no endangered or threatened species or critical habitat in the facility area.

5.2 Documentation Regarding Historic Properties.

There are no historic properties in the facility area.

SECTION 6: CORRECTIVE ACTIONS.

To date, no corrective actions were required for this facility.

SECTION 8: SWPPP MODIFICATIONS.

The SWPPP is a "living" document and is required to be modified and updated, as necessary, in response to corrective actions. For SWPPP modifications, a log will be kept with a description of the modification, the name of the person making it, and the date and signature of that person.

SWPPP ATTACHMENTS

Attachment A – General Location Map

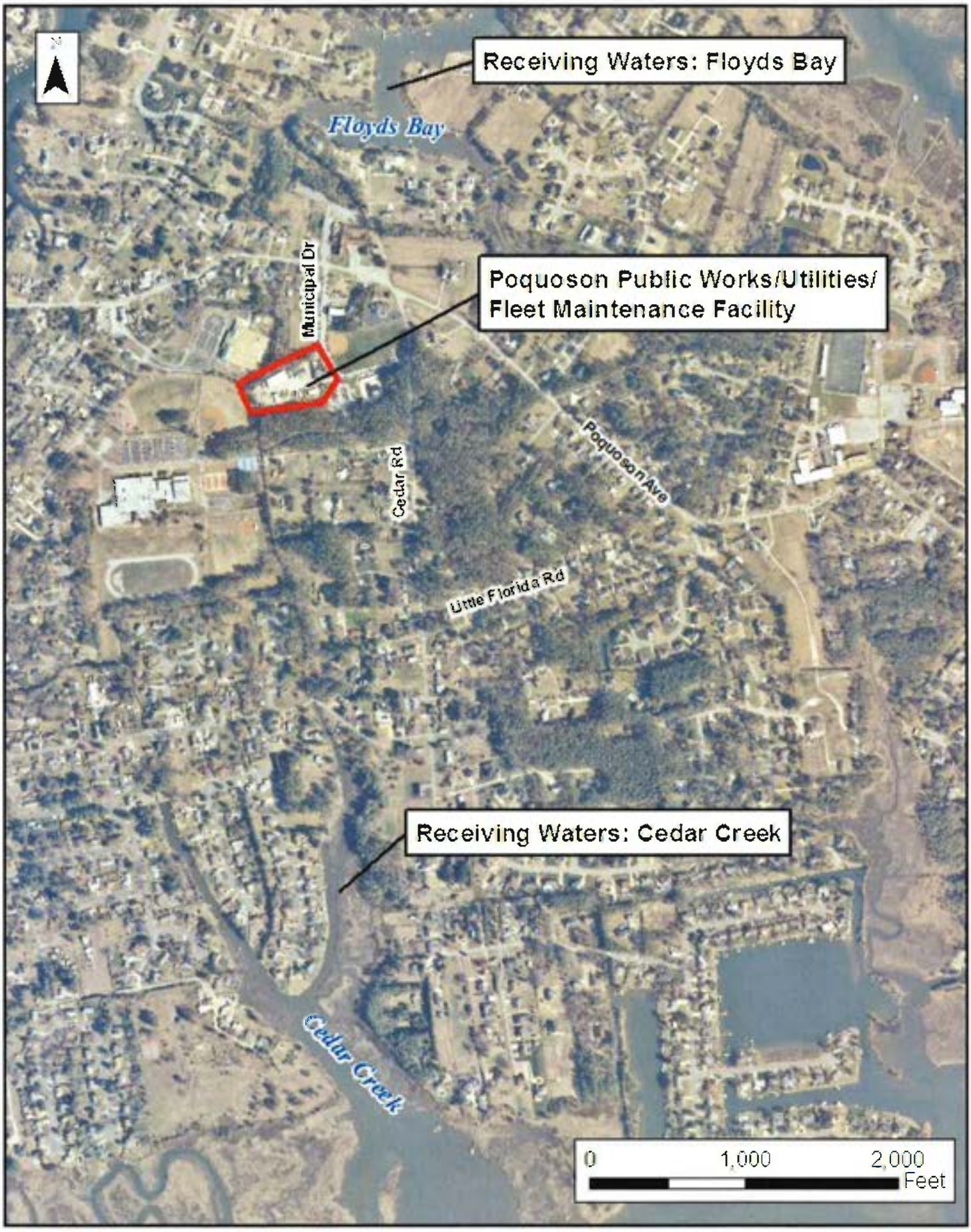
Attachment B – Site Map

Attachment C – Drainage Map

Attachment D – SWPPP Monthly Inspection Report

Attachment E – Standard Operating Procedures for Good Housekeeping and Stormwater Pollution Prevention

Attachment A – General Location Map

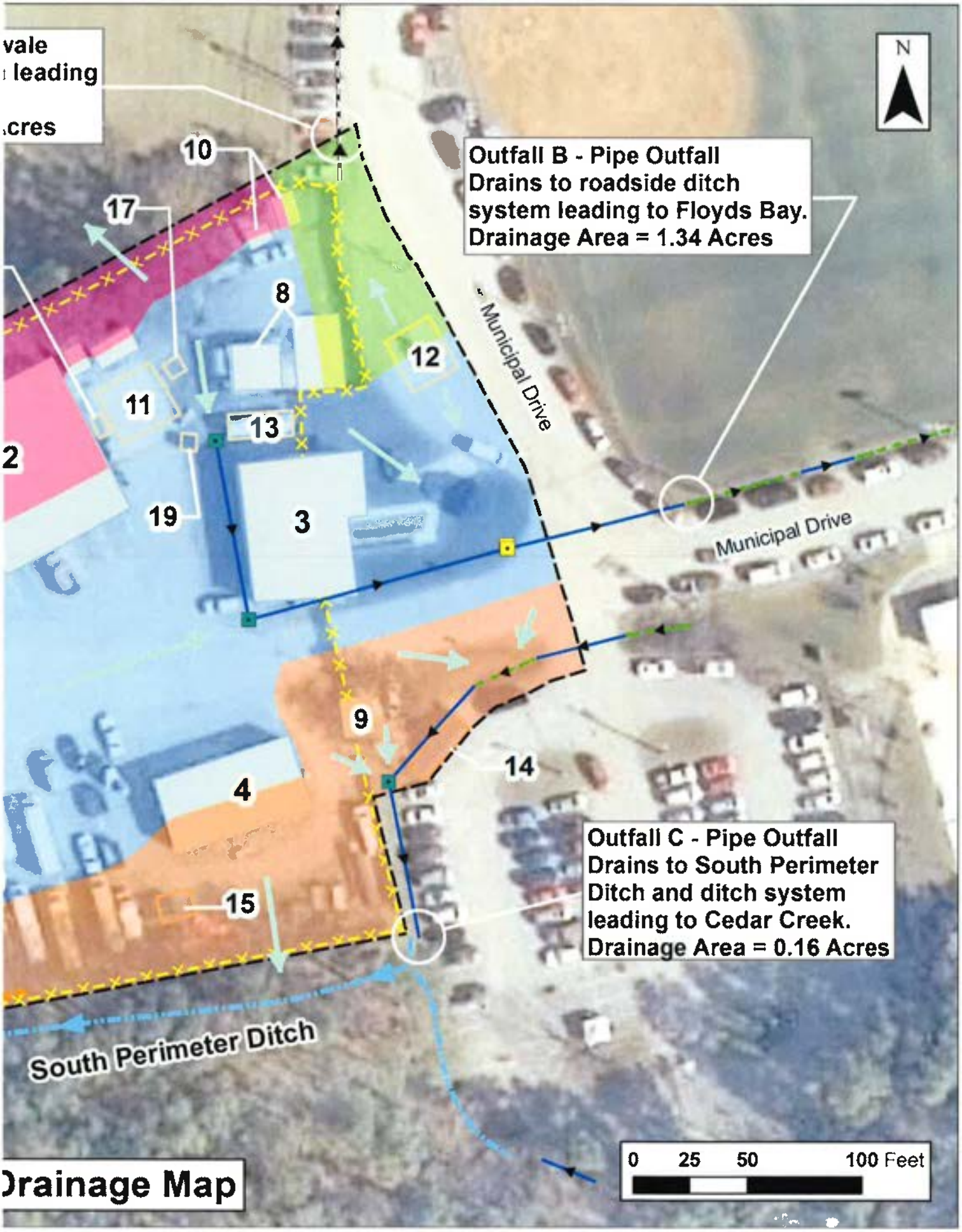


Attachment A. Public Works/Utilities/Fleet Maintenance Facility General Location Map

Attachment B – Site Map


Buildings and Significant Areas
1. Public Works Storage Building (Paint, Rust Proofers, Propane, Sweeping Compound)
2. Fleet Maintenance Building (Fuel & Oil, Vehicle Fluids, Metals)
3. Public Works Administration Building
4. Public Utilities Buidling (Metals, Paint, Chemicals)
5. Salt/Sand Mixture Storage Structure
6. Small Equipment Storage Building
7. Chemical Storage Room
8. Landscape Maintenance Storage Sheds (Fertilizers, Soil Amendments)
9. Waste Oil Tank Storage Shed (Oil & Grease, Fuel)
10. Maintenance Storage Sheds (Detergents, Bleach, Solvents)
11. Wash Rack
12. Fueling Station
13. Above Ground Diesel/Gasoline Storage Tank
14. Used Battery Drop-Off Area
15. Used Tire Storage Cage
16. Above Ground Heating Oil Storage tank
17. Oil/Water Separator
18. Oil/Water Separator
19. Dumpster (Metals, Nutrients, Trash)
20. Vehicle Storage
21. Drop Inlet Spill Covers
22. Spill Kit
North Perimeter Ditch
18
1
6
22
5
West Perimeter Ditch
Verizon Comm. Property
Legend
Facility Boundary
Fence Line
Significant Area
Stormwater Pipe
Drop Inlet
Grass Ditch
Concrete Swale
Attachmer

Attachment C – Drainage Map


vale
leading
cres
N
Outfall B - Pipe Outfall
Drains to roadside ditch
system leading to Floyds Bay.
Drainage Area = 1.34 Acres
Municipal Drive
Municipal Drive
10
17
8
12
11
13
2
19
3
9
14
4
15
Outfall C - Pipe Outfall
Drains to South Perimeter
Ditch and ditch system
leading to Cedar Creek.
Drainage Area = 0.16 Acres
South Perimeter Ditch
0 25 50 100 Feet
Drainage Map

Attachment D – Monthly Inspection Report Checklist

CITY OF POQUOSON - Department of Public Works
STORMWATER POLLUTION PREVENTION PLAN
MONTHLY INSPECTION REPORT

FACILITY NAME: City of Poquoson, Public Works/Utilities/Fleet Maintenance Facility
FACILITY ADDRESS: 12 Municipal Drive, Poquoson, VA 23662

NOTE: The facility is located on approx. 4.52 acre portion of a 15.25 acre parcel. The facility contains an equipment storage building, utilities building, fleet maintenance garages, wash bay, salt/sand storage shed, fuel/oil storage tanks and storage for construction related materials. ***(SEE ATTACHED MAP)***

CONTACTS:

NAME:	TITLE:	TELEPHONE:
Tom Jones	Director of Public Works	(757) 868-3592
Bob Speechley	Utilities Superintendent	(757) 868-3594
Jon Ellis	Fleet Maintenance Supervisor	(757) 868-3595
Jerry Cagle	Facility Supervisor	(757) 868-3590

Training:

MATERIAL	DESCRIPTION	LOCATION	QUANTITY	EXPOSED YES	EXPOSED NO	SPILLS / LEAKS YES	SPILLS / LEAKS NO
Gasoline	Dual Walled Storage Tank (Outside)	Above Ground	4000 gals				
Diesel Fuel	Dual Walled Storage Tank (Outside)	Above Ground	6000 gals				
Heating Oil	Storage Tanks (Outside)	Above Ground	275 gals ea.				
Other Waste Fluids	Used Motor Oil Storage Tank (Inside)	Above Ground	385 gals				
Used Batteries	Various Types	Covered Outside Container	Approx. 12				
Used Tires	Various Types	Covered Outside Container	Approx. 120				

Were Leak Detection Device(s) on Storage Tank(s) Visually Inspected?	__ Yes __ No
Were Exterior Seam(s) on Storage Tank(s) Visually Inspected?	__ Yes __ No

NOTE: If any of the above was exposed to storm water please describe below:

MATERIAL EXPOSED TO STORMWATER, LEAKS/SPILLS? __ Yes __ No Please describe below:

MATERIAL	DESCRIPTION	LOCATION	QUANTITY	EXPOSED YES	EXPOSED NO	SPILLS / LEAKS YES	SPILLS / LEAKS NO
Asphalt	Cold Patch Mix	Covered / Under Shelter	Approx. 3 tons				
Salt / Sand Material Storage	Salt / Sand Mix For Use on Roadway	Covered / Under Shelter	Approx. 150 tons				
Stone Material Storage	Processed Stone	Outside Stockpiles	Approx. 525 tons				

NOTE: If any of the above was exposed to storm water please describe below:

MATERIAL EXPOSED TO STORMWATER, LEAKS/SPILLS? _ Yes __ No Please describe below:

Description of Equipment & Vehicle with problems "Found"

EQUIPMENT STORAGE AREA	DESCRIPTION & NUMBER OF EQUIPMENT	Description of spill/leak	EXPOSED YES	EXPOSED NO	SPILLS / LEAKS YES	SPILLS / LEAKS NO
PUBLIC WORKS YARD						
PARKS MAINTENANCE YARD						

NOTE: If any of the above was exposed to storm water please describe below

EQUIPMENT EXPOSED TO STORMWATER, LEAKS/SPILLS? __ Yes __ No Please describe below:

VEHICLE STORAGE AREA	DESCRIPTION & NUMBER OF VEHICLE	Description of spill/leak	EXPOSED YES	EXPOSED NO	SPILLS / LEAKS YES	SPILLS / LEAKS NO
PUBLIC WORKS YARD						
PARKS MAINTENANCE YARD						

NOTE: If any of the above was exposed to storm water please describe below:

VEHICLE EXPOSED TO STORMWATER, LEAKS/SPILLS? _X_ Yes __ No Please describe below:

WASH RACK AREA: __ Yes __ No	**CLEAN:** __ Yes __ No	**SPILLS / STAINS:** __ Yes __ No
CHECK VALVE: __ Yes __ No	**GRATE / WASH RACK:** __ Yes __ No	
OIL /WATER SEDIMENT SEPERATOR 1: __ Yes __No *(Inspect on a monthly basis)*		
OIL /WATER SEDIMENT SEPERATOR 2: __ Yes __No *(Inspect on a monthly basis)*		
COMMENTS: *(If spills or strains are present, please describe & attach Spill / Leak Clean-up Report)*		

NOTE: Wash Rack Area is uncovered. When in operation, staff members open a valve which allows the rack to drain through an oil/sediment separator and enter the municipal sewer system. Following wash operations, the wash rack pad is rinsed off and the valve is closed .When the wash rack is not in operation, storm water runoff from the concrete pad drains through grass in to a sediment trap. The sediment trap and oil/sediment separator is inspected monthly for accumulated sediment, trash and debris and cleaned when needed. ***updated 9-23-2015**

DUMPSTERS: __ Yes __ No	**CLOSED:** __ Yes __ No	**DRAIN PLUGS:** __ Yes __ No
COMMENTS: *(If spills or leaks are present, please describe)*		

NOTE: Dumpsters are stored on hard surface, are contained and dumped by provider on a weekly basis.

FUELING AREA: __ Yes __ No	**CLEAN:** __ Yes __ No	**SPILLS / STAINS:** __ Yes __ No

COMMENTS: *(If spills or strains are present, please describe & attach Spill / Leak Clean-up Report)*

NOTE: Fueling Area is uncovered and exposed. All spills/leaks must be properly cleaned up and reported.

GENERAL FACILITY SITE AREA:

Description of Equipment & Vehicle with problems "Repaired"

EQUIPMENT STORAGE AREA	DESCRIPTION & NUMBER OF EQUIPMENT	* METHOD OF REPAIR	Work order # for repair		Repaired Yes	No
PUBLIC WORKS YARD						
PARKS MAINTENANCE YARD						

VEHICLE STORAGE AREA	DESCRIPTION & NUMBER OF VEHICLE	* METHOD OF REPAIR	Work order # for repair		Repaired Yes	No
PUBLIC WORKS YARD						
PARKS MAINTENANCE YARD						

Completed By: NAME: _____ SIGNED: _____ DATE:

(Print Name) (Signature)

City of Poquoson, VA

Legend

- City Boundary
- Poquoson Streets (12,000)
- Poquoson Streets Back (12,000)
- Yorktown Road; PR 172; PR 171; Ridge Rd; Poquoson Ave
- Other
- Road Labels
- Parcel Boundaries
- Places

Feet

0 50 100 150 200

1 2 257 / 1"=100 Feet

Title: Poquoson public Works Coumpound SWPPP

Date: 5/11/2016

DISCLAIMER: This drawing is neither a legally recorded map nor a survey and is not intended to be used as such. The information displayed is a compilation of records, information, and data obtained from various sources, and City of Poquoson is not responsible for its accuracy or how current it may be.

Attachment E – Standard Operating Procedures for Good Housekeeping and Stormwater Pollution Prevention

Standard Operating Procedures for Good housekeeping & Storm Water Pollution Prevention City of Poquoson Public Works

Established June -13-2011
Revised May -27-2015

Table of Contents

Spill Prevention:

Purpose: to prevent contamination of stormwater by using proper washing techniques, proper washing locations, and proper disposal of wash water.

1. Monitor equipment storage areas, materials storage areas, and waste storage areas, checking for: fluid leaks, uncovered containers, and deteriorating labels and/or containers, and correct any problems that are noted. **Suggested frequency- bi-monthly**

2. Inspect secondary containment systems (i.e. oil, fuel storage tanks) as necessary, and empty them as necessary. **Suggested frequency- monthly**

3. Monitor oil/water separators and their downstream discharges. An oily discharge indicates that the unit is either not functioning properly or needs to be "pumped out". **Suggested frequency- monthly**

4. Install oil absorbent materials in floor drains and/or catch basins, and inspect, remove/replace as appropriate. **Suggested frequency- monthly**

5. Monitor floor drains and storm receiver inlets and outlets for excessive amounts of contaminants, and clean out as necessary. **Suggested frequency – monthly**

6. Document any/all inspection activities on the proper forms. **Suggested frequency - monthly**
   Ex: Storm water Pollution Prevention Plan, Dry Weather Screening/Illicit Discharge Detection Forms.

Landscaping and Lawn Care:

Purpose: to prevent contamination of stormwater by minimizing contact with fertilizer and by using innovative landscaping techniques

1. Plant vegetation that needs minimal amounts of care (i.e. water, fertilizer). **Suggested frequency – at time of initial landscaping**

2. Implement landscaping techniques that minimize water usage. **Suggested frequency – at time of initial landscaping**

3. Water just enough to supplement rainfall – use drip irrigation techniques and/or moisture sensors. **Suggested frequency - always**

4. Minimize fertilizer application, use slow release fertilizers. **Suggested frequency – always**

5. Mow with blades set high, leave grass clippings on turf areas. **Suggested frequency – always**

6. Use compost or natural (organic) fertilizers. **Suggested frequency –when avaliable**

Pest Control:

Purpose: to prevent contamination of stormwater by pesticides which can be toxic to aquatic life and may contaminate receiving waters.

1. Purchase pesticides for immediate use when possible and storing per manufacture label,. **Suggested frequency – always**

2. Adopt Integrated Pesticide Management techniques. **Suggested frequency – always**

3. Adopt alternatives to pesticides options. **Suggested frequency - always**

4. Eliminate food, water, harborage for pests by implementing routine inspections. **Suggested frequency – once/week**

5. Inspect pest traps regularly, remove and properly dispose of dead pests. **Suggested frequency – once/week**

6. Minimize pesticide application; use non toxic/lowest toxicity pesticides - **(glue boards). Suggested frequency – as warranted**

7. Do not apply pesticides immediately before/during rain events. **Suggested frequency - always**

Pet Waste Collection:

Purpose: to prevent contamination of stormwater via contact with pet related wastes

1. Check for pet waste (i.e. feces, food wastes) per inspection of parks, playgrounds etc. **Suggested frequency – 2-3x per week**

2. Remove all pet waste, and dispose of properly. Preferred method of disposal is bagged and placed in a trash receptacle. **Suggested frequency – 3x per week**

3. Wash the affected areas with a disinfectant soap and hot water, and rinse to a vegetated area.**Suggested frequency – bi-monthly or as needed**

Vehicle and Equipment Maintenance:

Purpose: to prevent contamination of stormwater by using proper maintenance techniques, proper maintenance locations, and retrofitting infrastructure.

1. Check vehicles and equipment for leaks prior to use, cleaning spills immediately, turning in to garage for repairs. **Suggested frequency – continuous**

2. Conduct maintenance work indoors – dedicate specific vehicle bays, seal floor drain systems. **Suggested frequency – at time of construction/replacement**

3. If work is performed outside, protect stormwater drainage conveyances from spills. **Suggested frequency – continuous**

4. Clean up spilled materials immediately, using dry methods (absorbents) contaminated materials to be placed in labeled containers located in Vehicle Maintenance Garage and serviced by reputable contractor for disposal as needed. **Suggested frequency– continuous**

5. Install oil/water separators where necessary. **Suggested frequency – continuous**

6. Rinse grass from lawn care equipment over permeable, vegetated areas. **Suggested frequency– continuous**

7. Never leave vehicles/equipment unattended while refueling. **Suggested frequency - continuous**

8. Document any/all inspection activities on the proper forms. **Suggested frequency - continuous**

Vehicle and Equipment Washing:

Purpose: to prevent contamination of stormwater by using proper washing techniques, proper washing locations, and proper disposal of wash water

1. Inspect oil/water separators and floor drain systems periodically to determine maintenance needs. **Suggested frequency– before and after use**
2. Designate a specific vehicle washing bay/facility – the wastewater from the floor drain should flow into an oil/water separator – the treated wastewater should flow to a municipal sanitary sewer line, if possible. If a sanitary sewer is not available, a wastewater permit must be obtained for the floor drain discharges. **Suggested frequency – continuous**

3. Close unneeded floor drains. **Suggested frequency – continuous**

4. Wash vehicles in a designated wash area only, which collects wash water and directs it either to the sanitary sewer or a vegetated area. **Suggested frequency – continuous**

5. Document any/all inspection activities on the proper forms. **Suggested frequency-monthly per SWPPP report**

Roadway Maintenance:

Purpose: to prevent contamination of stormwater as it flows over debris that is deposited on road infrastructure and bridges

1. Pave only in dry weather. **Suggested frequency – always**
2. Cover manholes and catch basins prior to paving, patching, etc. **Suggested frequency – always.**
3. Clean all fluid leaks immediately. **Suggested frequency – always**
4. Maintain roadside vegetation – restrict pesticide use. **Suggested frequency – whenever possible.**
5. Sweep/vacuum roadways and shoulders to remove debris, particulate matter. **Suggested frequency – bi-monthly, increase when needed**

Road Salt Storage and Application:

Purpose: to prevent contamination of storm water by using proper storage techniques, and improving application techniques of deicing materials.

1. Store road salt, road salt/sand mixtures in properly sized, covered structure **Suggested frequency – as needed**
2. Order/request salt delivery prior to the onset of winter weather to enable immediate storage (i.e. in salt barn, under tarp) to prevent runoff.
Suggested frequency – at time of purchase
3. Unload salt deliveries directly into barn, or move inside immediately. **Suggested frequency -each delivery**
4. Store salt on highest ground possible. **Suggested frequency – continuous**
5. Cover salt loading area or "build into" storage shed. **Suggested frequency – continuous**
6. Control spreading speeds; use a wetting agent to minimize "bounce". **Suggested frequency- as needed**
7. Control spread patterns to concentrate material where it is most effective. **Suggested frequency – continuous**
8. Inspect salt storage area, salt loading area to ensure that salt is not exposed to weather. **Suggested frequency– weekly/monthly**
9. Minimize salt usage by calibrating salt application equipment periodically. **Suggested frequency – weekly during winter months**
10. Minimize salt spillage by not exceeding capacities of equipment (i.e. front-end loader, truck bed) during loading operations. **Suggested frequency – always**
11. Always plow when de-icing roads. **Suggested frequency – weekly during winter months**
12. Reference/use Chemical Application Rate Charts. **Suggested frequency- as needed**
13. Document any/all inspection activities on the proper forms. **Suggested frequency – continuous**

Hazardous and Waste Materials Management:

Purpose: to prevent contamination of stormwater by properly storing, handling, and disposing of hazardous and waste materials.

1. Store all materials/wastes in closed, labeled containers – if outside storage is necessary, the storage area should be sheltered from the weather. **Suggested frequency – continuous**

2. Designate storage areas away from floor drains (if inside) and storm receivers (if outside). **Suggested frequency – continuous**

3. Install a pretreatment system (oil/water separator) where a potential exists for petroleum products to enter floor drains. Eliminate floor drains if possible. **Suggested frequency –at time of construction**

4. Reduce stocks of materials where viable - use "first in/first out" management techniques. **Suggested frequency – as needed**

5. Use least toxic materials. **Suggested frequency- continuous**

6. Install secondary containment devices where appropriate. **Suggested frequency– at time of construction**

7. Recycle/dispose of materials properly. **Suggested frequency – continuous**

8. Do not mix dissimilar wastes in the same containers. **Suggested frequency - continuous**

9. Document any/all inspection activities on the proper forms. **Suggested frequency – monthly**

10. Disposal of "road kill" -place in double plastic bag, and place in dumpster, via contractor to landfill and/or incinerator. **Suggested frequency – as needed**

Operational By Products/Wastes

Purpose: to prevent contamination of stormwater by preventing "illegal" disposal, and by properly storing, handling, and disposing of facility generated and wastes.

FACILITY GENERATED WASTES:

1. Develop a list of wastes, with associated procedures for handling/storage/recycling/disposal, and provide to staff. Instruct all staff to adhere to this information, and to inform the facility manager if new wastes are generated. **Suggested frequency – as needed**

2. Secure the facility to prevent access (fence/lock gates) .**Suggested frequency – at close of business**

MUNICIPAL AREAS THAT ARE SUSCEPTIBLE TO ILLEGAL DUMPING:

1. Post/maintain "NO DUMPING" signs, erect barriers to prevent access, illuminate area. **Suggested frequency – as needed**
2. Patrol areas. **Suggested frequency – as needed**
3. Maintain areas/remove illegally dumped trash/debris. **Suggested frequency – as needed**
4. Document any/all inspection activities on the proper forms **Suggested frequency - continuous**

DROP OFF SERVICE: SATELLITE LOCATION FOR CONTROLLED DEBRIS REMOVAL:

1. Post/maintain "signs", erect barriers to provide proper location of site. **Suggested frequency - during hours of operation**

2. Maintain and clean area used pre & post use. **Suggested frequency - during hours of operation**

3. Remove debris and take to controlled off-site. **Suggested frequency - during hours of operation**

4. Spill kits on site with vehicles in case of spill. **Suggested frequency – as needed**

City Properties Required to Use Nutrient Management Plans:

The City of Poquoson does not fertilize its school sites.

Only four other City properties have contiguous managed turf areas of one acre or more:

South Lawson Park

- Tax Map # 27-10-00-0006; 21-01-00-0141; 21-01-00-0136
- Lat: 37° 07’ 23.79”N; Long: 76° 20’ 44.60”W
- HUC CB21
- 3.40 contiguous acres turf
- 16.21 acres total acreage

Baseball complex at 17 Park Street

- Tax Map # 210-01-00-0025
- Lat: 37° 07’ 48.08”N; Long: 76° 21’ 35.95”W
- HUC CB21
- 1.69 acres turf
- 9.60 acres total site acreage

Municipal Park

- Tax Map # 19-01-00-0210; 19-01-00-2111
- Lat: 37° 07' 52.9"N; Long: 76° 22' 30.9"W
- HUC CB21
- 2.03 contiguous acres turf
- 16.45 acres total acreage

Phillips Park

- Tax Map # 19-01-00-0151
- Lat: 37° 07' 50.2" N; Long: 76° 22' 44.7"W
- HUC CB21
- 4.69 acres turf
- 15.18 acres total acreage

BMP SC: TMDL Special Conditions

Appendix

City of Poquoson Annual Report

VAR# 040024

Fiscal Year 2024

Submitted to DEQ September 30th, 2024

BMP SC	Special Conditions: TMDLs
SC-2	Back River and Poquoson River Bacterial TMDL Action Plans

Updated MS4 Program Plan July 1, 2023 - June 30, 2024

TMDL Special Conditions								
BMP	**Permit Section**	**BMP Description**	**Measurable Goals**	**Metric**	**Responsible Party**	**Timeline**	**Associated Documents**	**PY 1 Status**
SC-1		Chesapeake Bay TMDL						
SC-1a	II.A.12.b	Update the Chesapeake Bay TMDL Action Plan	Update the Bay TMDL Action Plan to meet 100% reduction of pollutants of concern (POC)	Updated Bay TMDL Action Plan	SW Program Administrator	Before Nov. 1, 2024	Updated Bay TMDL Action Plan	Compliant. Submitted draft to DEQ as required in PY 1 and will submit full Action Plan prior to Nov. 1, 2024.
SC-1b	II.A.15-16	Update the Chesapeake Bay TMDL Action Plan to account for 2020 Census	Update the Bay TMDL Action Plan to offset increased loads from new sources & grandfathered projects that are located in the expanded 2020 census urban areas with a population of at least 50,000 and within the permittee's MS4 service area	Updated Bay TMDL Action Plan to account for 2020 census	SW Program Administrator	End of PY 5	Updated Bay TMDL Action Plan to account for the 2020 census	Compliant. No new urban areas were delineated within the City.
SC-1c	II.A.13	Provide opportunity for public comment on the updated Bay TDML Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Bay TMDL Action Plan	Record of Comments	Compliant. Public comment period will begin October 1st, 2024.

SC-1d	II.A.3	Implement Bay TMDL Action Plan	Implement the Bay TMDL Action Plan to meet 100% of the Level 2 (L2) reductions of POC by the end of the permit cycle	BMPs implemented	SW Program Administrator	End of PY5	Bay TMDL Action Plan	Compliant. Poquoson is on track to meet 100% of the required reduction by the end of PY5.
SC-1e	II.A.14	Submit Bay TMDL Implementation Status Report	Submit the Bay TMDL Implementation Status Report in a method and format specified by the Department	Submit forms and reports electronically	SW Program Administrator	Annually	Bay TMDL Implementation Status report	Compliant. TMDL implementation status report will be submitted alongside Annual Report.
SC-2		Local TMDL						
SC-2a	II.B.2.a	Local TMDL Action Plan for TMDLs approved by EPA prior to July 1, 2018	Develop or update, as applicable, a local TMDL Action Plan	Local TMDL Action Plan	SW Program Administrator	No later than 18 months after permit effective date	Local TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.

SC-2b	II.B.2.b	Local TMDL Action Plan for TMDLs approved by EPA on or after July 1, 2018 and prior to October 31, 2023	Develop and initiate implementation of local TMDL Action Plans	Local TMDL Action Plans	SW Program Administrator	No later than 30 months after the permit effective date	Local TMDL Action Plan	Compliant. TMDL Action Plans developed and submitted to DEQ in May 2021. See Appendix for attached action plans.
SC-2c	II.B.4.d	Identify the significant sources of the POC	Identify the significant sources	Sources identified	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2d	II.B.4.g	Outreach strategy to enhance public (including staff) education on reducing POC discharges	Develop and implement an outreach strategy	Outreach Strategy	askHRgreen and SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2e	II.B.4.h	Schedule of anticipated actions for this permit term	Schedule of anticipated actions provided	Schedule of actions	SW Program Administrator	No later than 18 or 30 months after permit effective date, as applicable	Local TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-2f	II.B.9	Public comment period for the updated Local TDML Action Plan	Opportunity provided for public comment	Public comment period for no less than 15 days	SW Program Administrator	Prior to submittal of updated Local TMDL Action Plan	Record of Comments	Compliant. Public comment period took place in April 2021.
SC-3		Bacteria TMDLs						

SC-3a	II.B.5.a	Implement at least 3 strategies from Table 5	Identify strategies	At least 3 strategies implemented	SW Program Administrator	As listed in schedule of anticipated actions	Bacteria TMDL Action Plan	Compliant. See Action Plans included in Appendix.
SC-4		Sediment, Phosphorous, and Nitrogen TMDLs						
SC-4a	II.B.6.a	Implement one or more BMPs to reduce pollutant loads	BMPs listed in the VA BMP Clearinghouse, BMPs approved by the CBP, or using land disturbance thresholds lower than required	BMPs installed	SW Program Administrator	As listed in schedule of anticipated actions	Sediment, P, or N TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.
SC-4b	II.B.6.d	Submit an update on progress made and the anticipated end date by which the WLA will be met	Identify progress made and anticipated end date	Submit progress update and anticipated end date	SW Program Administrator	Before Nov. 1, 2026	Annual report	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.
SC-5		PCB TMDLs						
SC-5a	II.B.7.a	Develop an inventory of potentially significant sources of PCBs owned or operated by the permittee	Develop potentially significant sources inventory	Potentially significant sources identified	SW Program Administrator	As scheduled in permit	PCB TMDL Action Plan	N/A Poquoson only has bacterial TMDLs approved after July 1, 2013.

BACK RIVER BACTERIAL TMDL ACTION PLAN

CITY OF POQUOSON, VIRGINIA

VAR 040024

April 22, 2021

In accordance with the requirements of the GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (9VAC25-890-40), the City of Poquoson is required to develop an action plan to address bacterial contamination in the Back River. The Virginia Department of Environmental Quality established Total Maximum Daily Loads of Bacteria for Back River in York County and the Cities of Hampton, Poquoson, and Newport News, Virginia in 2018. It was approved by the EPA on February 9, 2018 and can be found on the DEQ's website at https://www.deq.virginia.gov/water/water-quality/tmdl-development/approved-tmdls

TMDL PROJECT NAME: Back River Fecal Coliform TMDL

EPA APPROVAL DATE: 2/09/2018

PUBLIC COMMENTS ON THIS ACTION PLAN WILL BE ACCEPTED THURSDAY, APRIL 22, 2021 THROUGH SUNDAY, MAY 3, 2021. COMMENTS SHOULD BE EMAILED TO THE ENGINEERING DEPARTMENT AT garrett.feagans@poquoson-va.gov Comments may also be submitted in writing to the Engineering Department at 500 City Hall Avenue, Poquoson, VA 23662.

WASTELOAD ALLOCATED TO THE PERMITTEE: The following table 4.2 is excerpted from the Back River TMDL. Table 4.2 provides Wasteload allocations for all MS4s in the watershed. Poquoson's wasteload is 3.20E+11, a reduction of 61.78%.

Table 4.2: Estimated Daily Wasteloads and Allowable Wasteloads for Fecal Coliform by MS4 Permit[1]

Watershed	Permit Number	MS4 Permit Holder	Existing Load (Counts/day)	Wasteload Allocation (Counts/day)	Percent Reduction(%)[2]
Poquoson River	VAR040024	City of Poquoson	8.38E+11	3.20E+11	61.78
	VAR040028	York County	2.20E+12	1.24E+12	43.69
	VAR040115	VDOT	8.53E10	8.53E10	0.0
	SUM		3.04E+12	1.56E+12	48.68
Back Creek	VAR040028	York County	9.56E+10	8.52E+10	10.86
	VAR040115	VDOT[3]	N/A	N/A	
	SUM		9.56E+10	8.52E+10	10.86

[1]For MS4 permits, the permittee may address the TMDL WLAs for stormwater through the iterative implementation of programmatic BMPs.
[2]Percent reduction is based on averaged daily WLA and is computed as a reduction from the baseline existing load
[3]No VDOT managed highway

Note that because of the nature of the bacteria TMDL, any new or expanded permittee may discharge into the watershed at the bacteria water quality criteria without a TMDL revision.

SIGNIFICANT SOURCES OF BACTERIA DISCHARGING TO THE PERMITTEE'S MS4: The following are sources of bacterial discharging to Poquoson's MS4 that are not covered under a separate permit. It should be noted that a significant majority of the length of the City of Poquoson's storm sewer system is tidal or tidally influenced. This means that the waters of the Back River are transported by the tide into the City's storm sewer system. Tidal waters transport downstream pollutants, including pollutants from other localities and from the Plum Tree Island Federal Wildlife Refuge, into the City's MS4 system. This has a bearing on the water quality of the City's storm sewer system that is difficult if not impossible to quantify. It also means that flows through the drainage system could still contain bacteria even if the City were able to

remove 100% of the upstream sources of bacteria from its service area.

The following significant sources have been identified:

- The Plum Tree Island Federal Wildlife Refuge: While the Refuge is outside the Poquoson service area, the TMDL assigns a portion of the wildlife refuge's bacterial runoff to the City's service area, citing tidal conveyance of the runoff into water bodies within the service area. While only a portion of the runoff pollution was assigned to the service area, the refuge's extremely large size still makes this loading significant. City property records indicate the refuge is 3,290 acres. This area drains to the Back and Poquoson Rivers. In comparison, the City of Poquoson's service area in the Back River is 1,250 acres. Obviously, the refuge is also a source of waterfowl that may on occasion wander into the City's MS4 service area. While DEQ was assigned a wasteload allocation that is in part due to the refuge, the City cannot take any action to mitigate bacterial pollution from the property. A portion of Plum Tree was used as a bombing range during and prior to the 1950's. Public access to the refuge is prohibited, and the City of Poquoson has no role in its management. City workers cannot enter the property and cannot control any activities on the island.
- Itinerant waterfowl taking up residence in the developed portion of the City.
- Septic tank and sanitary sewer overflow waste. As commented on in stakeholders' advisory group meetings during the initial TMDL development, the water quality monitoring data for these reports was for a term of 2007 to 2014. The long-term water quality and bacterial levels in the watershed before, during and after this period show a continuing downward trend in bacteria in the waters receiving runoff from the Poquoson service area. This is due in large part to the City's major expansion of its sewer system in the first decade of the 2000's and its current municipal sewer find and fix program. The 2018 revision to the TMDL prior to EPA approval did consider and try to update data. However, more improvement in water quality monitoring data is expected in future years.

- Boat privy dumping, calculated based on the number of marinas is a contributing factor to bacteria in the watershed. While dumping occurs in open waters outside City limits, the load is attributed to the service area.
- Pet waste

BEST MANAGEMENT PRACTICES DESIGNED TO REDUCE BACTERIA IN ACCORDANCE WITH PARTS II B 4, B 5 AND B 6:

Best Management Practices (BMPs) are listed by significant source:

- Other source: Plum Tree Island Federal Wildlife Refuge wildlife: as noted above, this federally owned reserve is off limits to the City of Poquoson and its residents. City staff's past efforts to include the Refuge staff members in TMDL stakeholders' groups or discussions have not met with success. This is not a pollutant source that Poquoson has legal authority to address and we defer to the U.S. Fish and Wildlife Service.
- Birds (Waterfowl): The most significant concentration of itinerant waterfowl that have been observed in the City of Poquoson is the Canadian Goose flock at the South Lawson Park pond and on the fields. These birds no longer appear to be migratory and remain at the park year-round. The City of Poquoson has worked to find solutions to this goose infestation. Past efforts included "scarecrows" in the form of wooden silhouette cut outs and staff members returning daily to the park to chase the geese away. These have not helped and the goose population has grown as new goslings have hatched and taken up residence. The best measure for reducing and possibly eliminating itinerant geese is to work with the U.S. Fish and Wildlife Service on population control strategies. The City has initiated this effort and plans to continue this as needed. This effort will be expanded to include other City properties if a permanent goose population appears to be developing on those properties. In addition, the City will provide public education discouraging feeding waterfowl.
- Illicit discharges to the MS4: Human fecal coliform from septic tanks: Over 95% of the City's residences are connected to public sewer. Poquoson will maintain its proactive outreach program to septic tank owners, reminding them of the need for pump outs. In addition, the City will educate septic tank owners on how to determine whether their septic system is failing. This campaign will be targeted on the approximately 30 homes out of almost 4000 still connected to septic tanks. The City will also continue its aggressive sewer system find

and fix program performed as part of the regional Consent Order effort.

- Other sources: Boat privy waste: Poquoson will continue to operate boat privy pump outs at two locations in the City. It will educate the public as to their availability by publishing locations on its blueway map. This map is included in Parks and Recreation brochures and on the City's website. The City will also include the location of privately owned pumpouts on the map.
- Domestic Pets: Provide at minimum one sign and one pet waste station equipped with a disposal can and with pet waste bags at each of the City's parks and trails.

CALCULATIONS: The City of Poquoson does not have a TMDL for pollutants identified in Part II B 4, B 5 or B 6. Therefore, calculations and outreach strategies targeted at those pollutants are not required.

SCHEDULE OF ANTICIPATED ACTION PLANNED FOR IMPLEMENTATION DURING THE PERMIT TERM:

- By December 31, 2021: Information will be posted on the City website and the Poquoson Cable TV channel on the proper disposal of pet waste and on NOT feeding waterfowl.
- By December 31, 2021: Educational articles submitted to the Island Times, a City-wide magazine sent to every household in the Poquoson, on picking up after pets and not feeding waterfowl.
- January 2022 through the end of Permit Year 5: Staff members will continue updating the public education outreach described above. Poquoson will continue to participate in the regional AskHRGreen educational campaign on pet waste.
- By October 31, 2023: Education on boat privy pump out facilities will be distributed through the blueways map and other sources targeted at boaters.
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- Ongoing, continuing through the remainder of the permit term: Poquoson will continue to maintain a database of known septic tank owners in the City and will continue its septic tank pumpout reminder outreach. The Poquoson Utilities Department will continue its find and fix program to identify and repair sewer system issues in an effort to minimize and eliminate wet weather overflows.
- By October 31, 2023: Poquoson staff members will have developed and distributed to septic tank owners an educational paper explaining how to identify failing septic tanks and needed corrective steps.

INCLUSION BY REFERENCE OF THIS ACTION PLAN AND ANNUAL PROGRESS REPORTING: The City's MS4 program plan includes the development and implementation of this action plan as required actions (see BMP SC). The City of Poquoson Annual Report for the MS 4 program, provided to DEQ by October 1st of each year will include a progress report of the previous year's actions and the planned actions for the upcoming permit year. Next year's annual report will include the finalization date and title for this action plan in the BMP SC status of compliance and next permit year's planned actions, as well as on the progress report.

COMMENTS: This action plan is being posted on the City's website beginning Thursday, April 22, 2021. A ten-day comment period will follow, ending Monday, May 3, 2021. Following this comment period, the action plan will remain posted on line and the public will continue to be invited to provide comments to the Poquoson Engineering Department anytime.

END OF DOCUMENT

POQUOSON RIVER AND BACK CREEK BACTERIAL TMDL ACTION PLAN

CITY OF POQUOSON, VIRGINIA

VAR 040024

April 22, 2021

In accordance with the requirements of the GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (9VAC25-890-40), the City of Poquoson is required to develop an action plan to address bacterial contamination in the Poquoson River. The Virginia Department of Environmental Quality established Total Maximum Daily Loads of Bacteria for Poquoson River in York County and the City of Poquoson,Virginia in 2018. A waste load allocation was also assigned to VDOT. It was approved by the EPA on February 9, 2018 and can be found on the DEQ's website at https://www.deq.virginia.gov/water/water-quality/tmdl-development/approved-tmdls

TMDL PROJECT NAME: Poquoson River and Back Creek Fecal Coliform TMDL

EPA APPROVAL DATE: 2/01/2018

PUBLIC COMMENTS ON THIS ACTION PLAN WILL BE ACCEPTED THURSDAY, APRIL 22, 2021 THROUGH SUNDAY, MAY 3, 2021. COMMENTS SHOULD BE EMAILED TO THE ENGINEERING DEPARTMENT AT garrett.feagans@poquoson-va.gov Comments may also be submitted in writing to the Engineering Department at 500 City Hall Avenue, Poquoson, VA 23662.

WASTELOAD ALLOCATED TO THE PERMITTEE: The following table 4.2 is excerpted from the Poquoson River and Back Creek TMDL. Table 4.2 provides Wasteload allocations for all MS4s in the watershed. Poquoson's wasteload is 3.20E+11, a reduction of 61.78%.

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FINAL PAGE of Appendix & Report

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