



**COUNTY OF YORK
VIRGINIA**

**VSMP
ANNUAL REPORT**

FISCAL YEAR 2011

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Summary

This Annual Report is for Fiscal Year 2011 and is being submitted to the Department of Conservation and Recreation (DCR) as part of the County of York's Virginia Stormwater Management Program (VSMP) Permit requirements for the Municipal Separate Stormwater System (MS4), Phase II locality.

The report addresses the status of the six minimum control measures for the fiscal year in York County. (Attachment A)

The six measures are:

1. Public Education – Outreach
2. Public Participation – Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Controls
5. Post Construction Controls
6. Pollution Prevention – Good Housekeeping

It also addresses the plan for the program next fiscal year (FY12) as well as any proposed changes. The County receives assistance with the program from the Hampton Roads Planning District Commission (HRPDC) on the educational, training, tracking and other permitting requirements.

Other sections of the report address the impaired waters in York County that have a Waste Load Allocation (WLA) for the Total Maximum Daily Load (TMDL) of the designated pollutant.

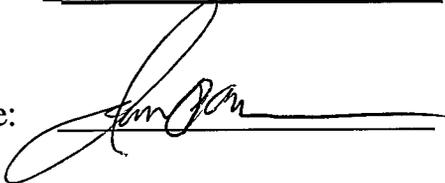
The report includes the number of reported illicit discharges and Land disturbing activities as well as BMP's, Inspections and Maintenance Projects the County has had over the past fiscal year.

A. Background Information

1. County of York –VAR040028
2. Permit Year 3 – FY2011
3. There have been no modifications to the operator's roles and responsibilities since the permit registration statement submittal dated January 6, 2008.
4. There have been 0 outfalls with acreage of 0 AC added to HUC --- in FY2011.
5. **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."

Print Name: James O. McReynolds

Title: County Administrator

Signature: 

Date: September 28, 2011

B. Status of Compliance With Permit Conditions

1. See Attachment A – Minimum Control Measures FY2011
 - (a) See Attachment A1 – Attendance to Meetings
 - (b) See Attachment A2– Attendance to Training
 - (c) See Attachment A3 – Training Matrix
 - (d) See Attachment A4 – Promotion Giveaway Items List
 - (e) Attachment A5 – Stormwater Advisory Committee Fact Sheets
 - (f) Attachment A6 – Adopt a Spot Stream sign
 - (g) Attachment A7 – Regional Protocol for Illicit Discharges

C. Results of information collected and analyzed, including monitoring data during reporting period.

1. No information was collected during this time period of July 1, 2010 and June 30, 2011.

D. Summary of the stormwater activities York County plans to undertake during the reporting cycle July 1, 2011 and June 30, 2012.

1. See Attachment B – Minimum Control Measures FY2012

E. Changes in any identified Best Management Practices or Measurable Goals for the Minimum Control Measures.

1. There are no changes planned at this time

F. Notice of York County relying on another government to satisfy some of the permit obligations.

1. See Attachment C – HRPDC MOA
2. See Attachment D – HRPDC HRSTORM FY11 Annual Report

G. Status of Programs pursuant to Section II C of the General Permit

1. Not applicable – No programs

- H. Total Maximum Daily Load (TMDL) Information required pursuant to Section I B 9 of the General Permit
 - 1. See Attachment E for the County of York list of Impaired Waters and TMDL Waste Load Allocation (WLA)
 - (a) Attachment E1 – TMDL WLA calculations
 - (b) Attachment E2 – Septic Tank Pump Outs

- I. Illicit Discharges Identified and Resolved pursuant to Section II B 3 of the General Permit
 - 1. See Attachment F – Impaired Waters Drainage Areas
 - 2. See Attachment F1 – Hansen database printout
 - 3. See Attachment F2 SSORS Report

- J. Regulated Land Disturbing Activities Data pursuant to Section II 4 c of the General Permit
 - 1. See Attachment G – E & S Database (excel spreadsheet)
 - 2. See Attachment G1 – Hansen Complaints

- K. All known Stormwater Management Facilities (SWMF) in York County pursuant to Section II B5 b (6) of the General Permit
 - 1. See Attachment H – SWMF Database (excel spreadsheet)
 - 2. See Attachment H1 – SWMF Inspections

- L. List of Agreements between the County of York and third party, HRPDC, for assistance on portions of Implementation of Minimum Control Measures
 - 1. See Attachment C – HRPDC MOA

- M. Copies of Written comments during Public comment period regarding the MS4 Program Plans or modifications
 - 1. No written comments during July 1, 2010 and June 30, 2011

1. Public Outreach and Education

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2011 Status
1.1	Participate in regional committees: HRSTORM, HR GREEN, RSMC, and SW Phase II Subcommittee					HR STORM Annual Report, MOA, HRPDC Regional Cooperation in Stormwater Management	
1.1a	<i>Regional Cooperation</i>	Renew MOA with the HRPDC to participate in the regional processes, including the Regional Stormwater Management Program, the Stormwater Phase II Subcommittee and HR STORM.	Maintain valid MOA	HRPDC	Continuously	Hampton Roads Regional Stormwater Management Program MOA; Attachment C	See MOA Attachment
1.1b	<i>HR STORM and HR GREEN</i>	Participate in at least 50% of monthly HR STORM meetings	Number of meetings attended/Number of meetings held	York County	Annually	Attendance Sheet in Attachment A1	Attendance FY11 - Attachment A1
		Participate in annual HR GREEN meetings and subcommittee meetings as appropriate.	Number of meetings attended	York County	Annually	Attendance Sheet in Attachment A1	Attendance FY11 - Attachment A1
		Participate in the development of regional Strategic Plans and Communication Plans for HR STORM and HR GREEN.	Participation	York County	Annually	Meeting Minutes	
1.1c	<i>Stormwater Phase II Subcommittee</i>	Participate in at least 50% of monthly SW Phase II Subcommittee Meetings.	Number of meetings attended/Number of meetings held	York County	Annually	Attendance Sheet in Attachment A1	Attendance FY11 - Attachment A1
		Participate in identifying stormwater education needs and priorities through the HRPDC Phase II Subcommittee.	Participation	York County	Annually	Training Spreadsheet	See attachment for a list of training topics and recent and planned activities.
1.2	Educate citizens on techniques to reduce impacts of stormwater pollution on public waterways with an emphasis on impaired waters.						
1.2a	<i>Distribute educational materials developed through HR STORM.</i>	Distribute materials developed through HRSTORM to target audience in locality.	Number of materials distributed	York County	Continuously	Documentation spreadsheet in Attachment D. Education materials provided by HRPDC.	Attachment A4 Giveaway Items; Attachment D NIE information
1.2b	<i>Maintain and enhance HR STORM Website, coordination with other educational programs, and distribution of e-newsletter.</i>	Improve visits and click through rates to industry standard by end of permit cycle	click through rates as compared to industry standard	HRPDC	Permit Cycle		HRSTORM website has been replaced with askHRGreen.com; site launched in PY4.
1.2c	<i>Ensure distribution of regional environmental tabloid to all 4th graders and teachers' guides to all 4th grade teachers</i>	Develop and Distribute environmental tabloids	Number of tabloids distributed	HRPDC	Permit Year 3	Newspapers in Education (NIE) and teachers guide are included in Attachment D	Copies of "We All Live on the Water" NIE were distributed in Fall 2010. Locality reports number

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2011 Status
1.2d	<i>Regional Media Campaign</i>	Participate in the HR STORM regional media campaign which will make impressions with a stormwater message via print, television (local municipal access, cable and local affiliate), and radio with a target of reaching 72% of adults (25-54) three times over.	Demographic, reach and frequency	HRSTORM	Annually	Copies of ads	Details of the Hampton Roads media campaign for FY2011 is located in the HR STORM Annual Report.
1.2e	<i>"Scoop the Poop" Campaign</i>	Make "Scoop the Poop" information and giveaways available where citizens receive animal licenses and at pet-related events as appropriate	Number of giveaways distributed	York County	Annually	Spreadsheet	Attachment A4 Giveaway Items
1.2f	<i>"Chesapeake Club" Campaign</i>						
	<i>Participate in DCR's campaign currently undergoing redesign by BCF Communications Consultants.</i>	Localities will participate in the campaign through HRStorm.	Number and type of materials distributed.	York County	Permit Year 3	Spreadsheet, HRStorm Annual Report	Virginia DCR launched the "Plant More Plants" campaign to replace the previous "Chesapeake Club" campaign in March 2011. Through participation in HRSTORM, localities promoted this campaign through social media and the purchase of TV ads. Details are included in the FY 2011 HRSTORM report in Attachment X.
	<i>Target Restaurant Owners and Patrons</i>	Recruit restaurants to participate as a Chesapeake Club partner, promoting the message of reduced fertilizer use at least once during permit cycle.	List of participating restaurants	York County	Permit Cycle		Localities distributed 37,000 coasters and 100 posters in PY2.
1.3	Illicit Discharge Elimination Education						
1.3a	<i>Educate public employees on hazards and legal implications of illegal discharges and improper disposal of waste.</i>	Identify and prioritize education and training needs for city/county employees through the HRPDC Phase II Subcommittee.	Prioritized list of training needs and number of employees that need training.	York County	End of PY1		List completed in PY1
		Conduct 2 trainings per permit cycle	Number of trainings, and # of attendees	HRPDC	Permit Cycle		IDDE Field Screening Training held in October 2009
		Ensure at least <u>20%</u> of appropriate employees attend IDDE training(s) coordinated by the HRPDC.	Number of participants/ Number of identified appropriate employees	York County	Permit Cycle		Reference training attendance sheet.
1.3b	<i>Target local commercial, industrial, and institutional entities likely to have significant stormwater impacts.</i>	Identify and prioritize education needs for businesses, and residential behaviors according to relative risk for producing illicit discharges through the HRPDC Phase II Subcommittee.	List of entities and priorities	York County	Within first 2 years of Permit	Attachment D HRFOG Material	Priority List : Businesses - Restaurants; Residential - turf management. In PY3 priorities were expanded to include residential use of garbage disposals

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2011 Status
1.3c	Educate business owners on hazards and legal implications of illegal discharges and improper disposal of waste.	Distribute educational materials developed through the HRPDC to groups with high risk for producing illicit discharges.	Number of materials distributed.	York County SAC	PY3-PY4	Education materials and distribution list.	HRFOG materials for Food Service Establishments (FSEs) were developed and distributed in PY2. . New HRFOG materials to FSEs on proper grease trap cleaning procedures will be distributed in PY4.
1.3d	Educate homeowners on hazards and legal implications of illegal discharges and improper disposal of waste.	Promote 58-STORM info line for appropriate contacts in each locality for citizens to report illicit discharges.	Number of calls	HRPDC and locality	Annually	number of calls received.	HRFOG Rack Cards to educate homeowners on how to keep drains fat free were designed at the end of PY2 and were distributed in PY3. 58-STORM received 133 calls in FY 2011.
		Investigate possibility of regional 800 number for illicit discharge reporting.	Establish regional line/ number of calls	HRPDC Staff	If feasible, establish line in PY2		The 58-STORM line will remain in operation through FY 2012, but HRSTORM is considering new ways to provide citizens with locality contact info in the future.
1.4	Encourage involvement in local water quality improvement initiatives.						
		Post volunteer opportunities on local website.	Number and types of events	York County	Quarterly		
		Submit articles for HR Green regional e-newsletter for public participation in water quality improvement initiatives.	Number and types of events submitted	York County	Quarterly		
		Post volunteer opportunities through HR STORM and/or HR Green	Number and types of events submitted	HRPDC Environmental Educator	Quarterly		
	Local Advisory Committee	Develop and Distribute environmental Fact Sheets	Number and types of events	York County SAC	Continuously	Fact Sheets: Easy Steps to Cleaner Stormwater; Homeowners Are Key to Stormwater Control; Off Road Vehicles Impact to Drainage Systems and Wetlands; Stormwater Management for Homeowners Low Impact Development	In PY3, SAC updated the Homeowner's Guide

1. Public Outreach and Education

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2011 Status
1.5	Diversify strategies to target local MS4 specific audiences.	Expand Fact Sheet series to include residential car washing best practices.	Fact Sheets and number distributed	HR STORM	PY 3-5		In PY3, HRSTORM developed a residential guide to stormwater runoff entitled "A Clean, Healthy Bay Starts at Home." Additional details are available in the HRSTORM annual report.
1.6	Improve outreach program to address concerns of target audience as well as minorities, disadvantaged audiences, and minors .	Improve outreach to school-aged children	Reprint of HR STORM tabloid size newspaper for elementary schools	HR STORM/ HR Green	PY 3, and 5		Copies of "We All Live on the Water" NIE were distributed to fourth graders in Fall 2010.
		Improve outreach to disadvantaged and minority audiences.	Targeted ads through channels such as CW, BET, and urban radio stations.	HR STORM	Annually		In PY3, HRFOG decided to have Food Service Establishment outreach materials translated to Spanish and Chinese in order to expand outreach. Materials will be distributed in PY4.
1.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		Any changes to program plan highlighted

2. Public Involvement/Participation							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY 2011 Status
2.1	Provide Public Notice of Program Plan and Modifications	Promote the availability of the operator's MS4 Program Plan and any modifications for public review and comment in accordance with public law.	public notice of modifications.	York County	As necessary	Website	om website
2.2	Make Program Plan and other Stormwater Program Information Available to Public	Provide the program plan, stormwater annual reports, the stormwater permit, and the stormwater ordinances on the City/County website.	presence of materials on website	York County	Continuously	Website	http://www.yorkcounty.gov/Default.aspx?tabid=3570
2.3	Participate in local activities to improve water quality	Stormwater Medallion Installation by Voluneers	Medallions	York County	As appropriate		Several Volunteer groups installed medallions
		Attend annual Earth Day activities	Activities	York County	Annually		Regional Earth Day in York County
	Volunteer Groups	Adopt a Spot Stream Sign	Sign Posted	York County Waterway Alliance	As necessary	Pictures	Attachment A6
2.3a	Citizen Advisory Committee	Bimonthly Meetings to discuss Stormwater Issues in the County	Meetings and Minutes	York County SAC	Bimonthly	Minutes	Fact Sheet - LID
2.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		

3. Illicit Discharge Detection and Elimination							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2011 Status
3.1	Storm Sewer System Map	Map all known outfalls	map # of outfalls catalogued	York County	20% of remaining outfalls annually		Mapping outfalls into GIS
		Map surface waters, and impaired waters. Estimate MS4 acreage discharging to each HUC and impaired water.	impaired waters; HUCs	York County	PY1	See attachment E1 for Impaired Waters List	
3.2	Illicit Discharge Detection & Elimination Ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	number of investigations and actions taken	York County	annually		
3.3	Illicit Discharge Detection & Elimination Procedures					See attachment A7 for Regional Protocol	Regional Protocol developed.
		Track illicit discharge detection and elimination activities.	number of investigations and actions taken	York County	ongoing	See Attachment F1	Complaints resolved
		Develop Dry weather screening procedures and schedule.	documentation of screening performed and results	York County	PY3	Procedures and documentation of annual results.	Developed dry weather screening procedure and schedule
3.4	Prevent or minimize the discharge of hazardous substances and oil in the MS4 stormwater discharge.	Yard inspections; Develop/enhance reporting relationship with FD/Haz Mat Team; targeted education	number of responses/ number of inspections	York County			
3.5	Cooperation with adjacent MS4s	Identify and notify, in writing, any downstream regulated MS4 to which the small regulated MS4 is physically interconnected of the small regulated MS4's connection to that system.	Develop map, Regional Phase II Stormwater Subcommittee Meetings, letters	York County	PY1		completed in PY1
3.6	Report all spills that reach state waters to DEQ and DCR						completed in PY1
3.6a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to The Department of Environmental Quality's Pollution Response Program (PREP).	Obtain PREP number.	York County	Report in accordance to Section III. G.		No spills reached state waters
3.6b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	York County	continuously	Attachment F2	Attachment F2
3.7	Continue Sanitary Sewer System improvements in coordination with SSO consent order						50 Septic systems taken out of service with sewer connection
3.8	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		Added item under 3.3.

4. Construction Site Storm Water Runoff Control

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY 2011 Status
4.1	Local Erosion and Sediment Control Ordinance	Continue to implement the site plan review, LID implementation where deemed appropriate, construction site BMP, and inspection provisions of the local Erosion and Sediment Control Ordinance.	# of inspections; # plan reviews, # enforcement actions	E&S Program Administrator	annually		See Attachment G
		"At a minimum be consistent with the VA ESC Law and regulation"	Soil and Water Conservation Board finding of consistency	E&S Program Administrator	continuously		No Review this FY program was found in compliance in FY05
		Continue to receive and respond to information from citizens relating to the local erosion and sediment control program through personal visits, email, telephone, and the City/County web page.	# of calls/requests, #site visits	E&S Program Administrator	annually		See Attachment G1 - Complaints Report
4.2	VSMP Permits	Continue to direct applicants, proposing to disturb an acre or more of land or part of a larger common plan of development or sale that would disturb one acre or more, or >= 2,500 sq. ft. in CBPA areas to VDCR to secure a VSMP Permit for Discharges of Stormwater from Construction Activities. Ensure permit has been obtained.	#of permit applications and permits issued.	E&S Program Administrator	Continuously		Evidence of VSMP permit is requested for all appropriate permits prior to issuance of local permit.
4.3	Training						All certifications current
		Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Erosion and Sediment Control Law	certifications obtained	E&S Program Administrator	ongoing		See section J of this annual report. Attachment G
4.4	Tracking and Reporting	Continue to track and report the total number of permitted land disturbing activities as well as the total disturbed acreage.	number of permits & acres disturbed	E&S Program Administrator	annually		Compliance with this measurable goal is met through the submission of this annual report.
4.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		

5. Post Construction Storm Water Management in New Development and Redevelopment

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY 2011 Status
5.1	Stormwater Management Ordinance	Continue to implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment, and update ordinance to comply with Section II.5.a of the General Permit.	Ordinance updates	SW Program Administrator		Ordinance	Continue to Implement
5.2	Encourage the use of Low-Impact Development (LID)		LID Fact Sheet	York County SAC		Fact Sheet	
		Develop fact sheet/checklist to help developers and local staff determine appropriateness of LID for project(s)	Checklist developed	HRPDC & Regional Stormwater Mgt. Committee	PY2-PY3 Permit Cycle		This requirement was tied to the State's revision of stormwater regulations. The State was still revising these regulations late into FY 2011. Hampton Roads localities have begun developing a checklist for developers, but plan to finalize during PY4-PY5.
5.3	VSMP Permits	Continue to direct applicants, proposing to disturb an acre or more of land or part of a larger common plan of development or sale that would disturb one acre or more, or >= 2,500 sq. ft. in CBPA areas to VDCR to secure a VSMP Permit for Discharges of Stormwater from Construction Activities.					Continue to Direct applicants
5.4	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of agreements & inspection schedules	SW Program Administrator	Ongoing	Recorded Agreement	See section K of this annual report - Attachment H.
5.5	BMP Maintenance Program	Update mapping of locally owned structural stormwater controls with reference to HUC and any impaired waters in drainage area.	map	SW Program Administrator	As needed	map	Mapping Updated
		Develop schedules for regular inspection and maintenance of locally owned stormwater control structures in accordance with SWM regulations.	Inspections	SW Program Administrator	Annually	PARS	
5.6	Site Inspection and Enforcement	Construction site inspections	#Inspections & Reinspections; NOVs	SW Program Administrator	As designated	PARS	See section K of this annual report - Attachment H1.
5.7	BMP Tracking	Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the following information: (a) Type of structural stormwater management facility installed as defined in the Virginia Stormwater Management Handbook; (b) Geographic location (HUC); (c) Where applicable, the impaired surface water that the stormwater management facility is discharging into; (d) Number of acres treated.	#&type of BMP, location, watershed, acres treated, impaired waters	SW Program Administrator	Annually	via PARS	See section K of this annual report - Attachment H.
5.8	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		edit made to BMP 5.2

6. Pollution Prevention/Good Housekeeping for Municipal Operations							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY 2011 Status
6.1	Employee Education & Training	Identify and prioritize pollution prevention education and training needs for municipal employees based on relative risk for stormwater pollution from municipal operations through the HRPDC Phase II Subcommittee.	Update Training Schedule	HRPDC & Localities	PY3		
		Develop training materials to eliminate illicit discharges from storage yards, fleet or maintenance shops, outdoor storage areas, rest areas, waste transfer stations, and other municipal facilities.	Develop fact sheets	HRPDC	PY3-5		
		Educate local government employees on proper techniques for fertilizer and pesticide application.	Participate in nutrient management training through HRPDC	HRPDC and Localities	PY3	Training Materials, Agenda, and attendance records.	Nutrient Management Training held in March 2011.
		Distribute pollution prevention educational materials developed through the HRPDC/HR STORM to municipal employees engaging in operations with a high risk of discharging pollutants into the MS4.	# of items distributed	HRPDC & Localities	annually		
		Participate in at least one regional annual training workshop for municipal employees engaging in operations with a high risk of discharging pollutants into the MS4 coordinated by the HRPDC Phase II Subcommittee.	# employees attending	SW Program Administrator	annually		
6.2	Spill Prevention & Control Plans						
		Determine any educational needs for employees and develop appropriate training and/or materials.	Training assessment	SW Ph II Subcommittee	PY3		Developed Checklists for municipal facilities
6.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		No Changes.

TMDL SPECIAL CONDITIONS (effective starting January 8, 2010)							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY 2011 Status
7.1	List Program Plan components related to source reduction of pollutants indicated in WLAs.	Develop list of current ordinances and legal authorities, BMPs, policies, plans, procedures and contracts implemented as part of the MS4 Program that are applicable to reducing bacteria from lands draining to waterbody segments with a bacteria TMDL for wh	List	York County	End of PY2	List of applicable components.	Completed in PY 2 See attached Ordinance Program List
7.2	Evaluate Program Plan for effectiveness to reduce pollutant indicated in WLAs.	Use checklist created by HRPDC to evaluate ordinances and program elements	Checklist	HRPDC and Locality	End of PY3-Permit Cycle		Planned
		Review water quality data collected by DEQ to track water quality improvements for bacteria.	Data summary	locality/HRPDC	Annually	Water quality data summary	Bacteria Study still underway through HRPDC includes YC Poquoson River
7.3	Develop a schedule to address Program Plan deficiencies at addressing bacteria pollution delivered to TMDL waterbodies.	Schedule to update program components and ordinances identified in BMP 7.2	schedule	York County	End of PY3-Permit Cycle	schedule	
		List of limited legal authorities that need to be addressed by the General Assembly.	List	York County	Permit Cycle	List	
7.4	Implement Schedules in 7.3	Implementation according to schedules developed under 7.3	Implementation	York County	According to 7.3	Progress Report	
7.5	Public education and outreach to promote bacteria source reduction.	Continue to promote public education through HRSTORM and activities listed under BMP 1.2 of Program Plan.	As defined in 1.2	locality/HRPDC	Annually		Developed
7.6	Participate as a stakeholder in the development of TMDL Implementation Plans	Participate in TMDL Implementation Plan for " Poquoson and Back Rivers"	Participation	York County	Permit Cycle	Implementation Plan	
7.7	Outfall Reconnaissance	Develop outfall reconnaissance procedures as outlined in 4VAC50-60-1240 Section I.B.5	Reconnaissance Plan	York County	End of PY2	Reconnaissance Plan	
		Conduct reconnaissance of X outfalls from MS4 area within X drainage area.	X outfalls	York County	Beginning in PY3 Annually	Reconnaissance Reports.	
		Identify outfalls from MS4 area to X drainage area.	Map of outfalls	York County	End of Permit Cycle	Map and Report.	
7.8	Evaluate properties owned or operated by MS4 that may contribute bacteria to TMDL waterbody.	Develop list of land use categories that could contribute bacteria.	List	HRPDC and Locality	End of PY2		
		Map County owned properties within MS4 area that drains to Poquoson and Back Rivers	Map	York County	End of PY2	Map	
		Identify County properties with potential to generate bacteria pollution.	List	York County	End of PY3	List	
		Conduct site review of identified County properties in accordance with 4VAC50-60-1240 Section I.B.6	Site Review	York County	January 2013		
		Develop schedule to reduce any discharges found during review described in 4VAC50-60-1240 Section I.B.6	schedule	York County	End of Permit Cycle		
		Implement Schedule produced in accordance with 4VAC50-60-1240 Section I.B.6c		York County	In accordance with schedule		
7.9	Characterize volume of stormwater and bacteria concentrations delivered from MS4 areas to TMDL waterbodies.	Calculate discharge of bacteria from MS4 area to "stream"	concentration of bacteria	York County			
7.1	Update Program Plan as necessary to include new TMDL information.						Compliance with this measurable goal is met through the submission of this annual report.
7.1a	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually		Changes Highlighted

List of Ordinances or MS4 Program Components that address Reduction of Bacterial Pollution from MS4 Area

Source Category	Ordinance Citation	Ordinance Summary	Program Component
Pet Waste		leash law	Scoop the Poop Program and Materials distribution
		waste pick up ordinance	Pet waste stations
		kennel/vet ordinances	
Illicit Discharges	Chapter 23.3 Stormwater Ord.	IDDE ordinance	reconnaissance program
Septic Systems	Chapter 18.1 Sewer Ord.	Ches Bay Requirements	Mailers to homeowners on pumpout requirements
		Septic ordinances	Septic education
		ordinances related to requirements to hook into available sewer (mandatory hookup?)	Septic Surveys (inventories or site inspections) See Attachment E3
			Plans to extend sewer service County has CIP Program to extend sewer
Wildlife	Chapter 4 Animals & Fowl	Ordinance to forbid feeding of 'nuisance' wildlife	Identify nuisance wildlife areas (resident geese)
	Art. II Sec 4-20(b) Livestock		Education/outreach on activities to discourage accumulation of wildlife (resident geese)
	-21 Manure Storage -22 Manure as fertilizer		
Utilities	Chapter 18.1 Sewer Ord.	hookup requirements	Activities related to SSO program
			coordination between Utilities and Stormwater programs
			Mandatory Hookup
General Stormwater Controls	Chapter 23.2 Chesapeake Bay Ordinance	Buffer requirements	Any buffer incentive programs
		any LID ordinances	Any land conservation programs
		any stormwater program ordinances that reference pollutant or volume control of runoff for new development.	
	Chapter 23.3 Stormwater Ord.		LID incentive programs or demo projects
			Runoff reduction education activities
			Inventory/assessment of structural BMPs in relevant area.
Source Identification			Regional Bacteria Study
			any monitoring activities

Phase II Meeting Attendance FY 09-10

Meeting Dates	7/29/2010	8/26/2010	10/28/2010	12/2/2010	1/27/2011	2/24/2010	Phase I and II 3/31/2011	Phase I and II 4/27/2011	Phase I and II 5/25/2011	Phase I and II 6/22/2009	# Meetings	% Attended
Phase II Localities:	1	1	1	1	1	1	1	1	1	1	10	
Isle of Wight County	1	1	1	1	1	1	1	1	1	1	10	100%
James City County	1	1	1	1	1	1	1	1	1	1	10	100%
Poquoson	1		1		1	1	1	1	1	1	8	80%
Suffolk	1	1	1	1	1	1	1	1	1	1	10	100%
Williamsburg	1	1	1		1		1	1	1	1	8	80%
York Co.	1	1	1	1	1	1	1	1	1	1	10	100%

HR STORM Attendance:
July 1, 2010 - June 30,
2011

Locality	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11	Apr-11	May-11	Jun-11	Total
Chesapeake			1		1		1		1			1	5
Gloucester	1	1	1	1			1				1		6
Hampton	1	1	1	1	1			1	1	1	1		9
Isle of Wight	1	1		1	1				1	1	1	1	8
James City County			1	1	1				1		1		5
Newport News	1			1							1	1	4
Norfolk	1	1	1	1	1		1		1		1	1	9
Poquoson	1			1	1		1			1		1	6
Portsmouth									1	1	1	1	4
Smithfield					1		1			1			3
Suffolk	1	1	1	1	1		1	1	1	1	1	1	11
Virginia Beach	1				1				1				3
Williamsburg	1		1	1	1			1	1			1	7
York	1	1	1	1	1		1		1	1	1	1	10

Cancelled

Attachment A3a Nutrient Training Participants

Barbachem, Mike	URS Corporation	Mike_Barbachem@URSCorp.com	08-Mar-2011 12:59 PM	Self-Responded		6SNXSYK3J98
Baronner, Terry	City of Suffolk Parks and Recreation	tbaronner@suffolkva.us	10-Mar-2011 9:10 AM	Self-Responded		7UNY4PZKUM6
Bott, Louis	City of Newport News	lbott@nngov.com	17-Mar-2011 3:15 PM	Self-Responded		78N99SLQA5C
Bradshaw, Erin	City of Suffolk	ebradshaw@suffolkva.us	10-Mar-2011 2:09 PM	Self-Responded		5VNNE6HSLEE
Brumbaugh, Barbara	City of Chesapeake	bbrumba@cityofchesapeake.net	08-Mar-2011 11:44 AM	Self-Responded		67NC8ZQ6DCT
Clark, Shinon	City of Suffolk Public Works Engineering	sclark@suffolkva.us	10-Mar-2011 2:52 PM	Self-Responded		7BNXGFA5LGS
Cook, Darryl	James City County	decook@james-city.va.us	10-Mar-2011 2:40 PM	Self-Responded	22-Mar-2011 10:18 AM	Self Modification 4KNRB4PMAEL
Deibler, Michael	City of Hampton	mdeibler@hampton.gov	10-Mar-2011 5:56 PM	Self-Responded		5DNJGJFMG5Q
Echternach, David	City of Chesapeake Parks & Rec.	dechtern@cityofchesapeake.net	22-Mar-2011 3:40 PM	Self-Responded		5ENASMQG8X6
Fidler, Will	Martin, Steve		10-Mar-2011 8:55 AM	Self-Responded		7JNS4UGK95A
Fleming, Chuck	city of hampton	cfleming@hampton.gov	10-Mar-2011 8:31 AM	Self-Responded		4JNHMRMHF6Q
Gonzalez, Gretchen	Isle of Wight Engineering	ggonzalez@isleofwightus.net	08-Mar-2011 11:28	Self-Responded		6SN44YJAVWS

Attachment A3a Nutrient Training Participants

Griffin, Wayne	Town of Smithfield	wgriffin@smithfieldva.gov	AM 21-Mar- 2011 10:51 AM	Self- Responded			5NNHU96QAGF
Griffin, Troy	DCR	troy.griffin@dcr.virginia.gov	21-Mar- 2011 10:21 AM	Self- Responded			54N566KT5FK
Hicks, Keith	Roberts, Ellen Poquoson		22-Mar- 2011 3:37 PM	Self- Responded			4SNPRUTF4AX
Hillegass, Julia	HRPDC	jbhillegass@gmail.com	08-Mar- 2011 11:22 AM	Self- Responded			4JN4EZ3DETM
Hillegass, Julia	HRPDC	jhillegass@hrpdcva.gov	08-Mar- 2011 11:21 AM	Self- Responded			56N27K3PYPC
Imburgia, David	City of Hampton	dimburgia@hampton.gov	10-Mar- 2011 4:09 PM	Self- Responded			55NFYR73J6L
Jarriel, David	City of Suffolk	djarriel@city.suffolk.va.us	10-Mar- 2011 3:00 PM	Self- Responded			4DNY2FKMER Q
Jenne, Lucas	Martin, Steve		10-Mar- 2011 8:55 AM	Self- Responded			45NVPAS7LQS
Johnson, Spotswood	Cook, Darryl James City County	SAjohnson@james-city.va.us	22-Mar- 2011 10:18 AM	Self- Responded	22-Mar- 2011 10:18 AM	Self Modification	6CNQDD4DX6X
Kelly, Mike	Suffolk Parks and Recreation	Mkelly@suffolkva.us	11-Mar- 2011 9:48 AM	Self- Responded			5UNMNGZ4AS C
Krieger, Robert	County of York	robert.krieger@yorkcounty.gov	14-Mar- 2011 8:41 AM	Self- Responded			4ZNWSZRRV2X
Martin,	City of Williamsburg	smartin@williamsburgva.gov	10-Mar-	Self-			7JNAZBLQRWH

Attachment A3a Nutrient Training Participants

Steve				2011 8:55 AM	Responded		
Menichino, Pat	Cook, Darryl	James City County	pmenichi@james-city.va.us	10-Mar-2011 2:40 PM	Self-Responded	22-Mar-2011 10:18 AM	Self Modification 4ZNBD8GETCR
Moses, Barry		James City County Stormwater Div	bmoses@james-city.va.us	08-Mar-2011 3:14 PM	Self-Responded		77NFCRQLGYB
Nordeman, Craig	Cook, Darryl	James City County	cnordy@james-city.va.us	10-Mar-2011 2:40 PM	Self-Responded	22-Mar-2011 10:18 AM	Self Modification 6YNCTQ3DGU6
Paine, John		URS	John_Paine@URSCorp.com	10-Mar-2011 9:32 AM	Self-Responded		7SNBGFB2FLS
Reed, Andy		Isle of Wight	areed@iwus.net	09-Mar-2011 8:06 AM	Self-Responded		7KN38A6YJHS
Roberts, Ellen		City of Poquoson	eroberts@poquoson-va.gov	22-Mar-2011 3:37 PM	Self-Responded		4HNHRGLEGCP
Rollins, Rob	Roberts, Ellen	Poquoson		22-Mar-2011 3:37 PM	Self-Responded		7CNX4W8TDKX
Somerset, Ken	Roberts, Ellen	Poquoson		22-Mar-2011 3:37 PM	Self-Responded		7TNK8TJMEEX
Stratton, David	Cook, Darryl	James City County	dstratton@james-city.va.us	10-Mar-2011 2:40 PM	Self-Responded	22-Mar-2011 10:18 AM	Self Modification 6MNTC875Z25
Sunderland, Jill		City of Norfolk	jill.sunderland@norfolk.gov	14-Mar-2011 10:34 AM	Self-Responded		6TNYCS6U5HM

34 records

Regional Nutrient Management Training
Wednesday, March 30, 2011
AGENDA

Welcome & Housekeeping—Julia Hillegass, HRPDC

Nutrient Management Planning—Bob Winters, VCE, JCC

Early James City County Involvement

- a. Residential Properties
- b. Commercial Properties
- c. Golf Courses

More Recent County Involvement

- a. NMP for County Properties
- b. MS 4 Permits

Nutrient Management Plan Content

NMP Examples

- a. Blayton/Hornsby Schools
- b. Warhill Sports Complex
- c. Governor's Land Common Areas
- d. Fairway Villas
- e. Residential Sites

Nutrient Management Partnerships

- a. JCC Service Authority
- b. Stormwater Division
- c. Virginia Cooperative Extension

Questions & Discussion

Wrap Up & Evals

Phase II Stormwater Training Topics

Referenced in the following Program Plan Components: 1.1c, 1.3a, and 6.1

Topic	<i>Last offered</i>	<i>Previous dates</i>	<i>Planned</i>
Fleet Maintenance	Mar-05		
Landscaping	Mar-06		
IDDE	Oct-09	5/1/2007, 2/1/2008	
General Pollution Prevention	Feb-09	Mar-04	Winter 2012
Parks & Open Space Mgt. (Nutrient Management)	Mar-11		

Note: Training topics are reviewed and prioritized at least twice during the permit cycle. Topics were reviewed and prioritized most recently at the August 2010 Ph II meeting, as documented in the meeting summary kept on file at the HRPDC.

HRPDC GIVEAWAY ITEMS

York received -

	<u>Quantity</u>
Dog Waste Bag Holders	<u>127</u>
Post it note pads	<u>194</u>
Magnets	<u>194</u>
Message Pens	<u>86</u>
Seed Packets	<u>200</u>
Residential brochures	<u>200</u>
	<u> </u>
 Total Distributed to <u>Juan Carlos Morgado</u>	 1001

**York County Construction Maintenance Projects
FY 2011**

	Location	District	Duration	Time Period Start	Finish	Work Required	Status
1.	104 Terrywood - Rosewood	3	1 day	07/06/10	07/06/10	Hand dig and seal leak in pipe	Complete
2.	Anchorage Lane	3	1 day	07/06/10	07/06/10	Add pipe in easement across driveway	Complete
3.	Landfill Trench – Other Landfill work	3	2 days	07/07/10	07/19/10	Install trench and vent pipe for landfill	Complete
4.	Vehicle Maint. Facility		2 days	07/26/10	07/27/10	Drainage improvements to coincide with construction improvements	Complete
5.	Moore's Creek, Yorktown Rd	5	1 day	06/23/10	07/29/10	Dredge Sediment (second portion to be contracted for vacuuming silt out from under culverts)	Complete
6.	Byrd Lane	2	2 days	07/28/10	08/02/10	Replace driveway culverts	Complete
7.	Dare Elementary/Wolftrap Properties	4	1 week	07/09/10	08/05/10	Add rip rap gabion baskets to stop erosion	Complete
8.	220 Kings Grant, Howard's Landing	4	1 day	08/09/10	08/09/10	Regrade part of ditch (County already opened up tidal area) Cannot pipe because adequate cover over pipe cannot be achieved	Complete
9.	County Administration Bldg. Parking Lot		1 day	08/12/10	08/12/10	Pipe repair due to sinkholes in parking lot	Complete
10.	1609 Calthrop Neck Road (at sewer line from Shackelford Road)	5	1 day	08/24/10	08/24/10	Repair erosion and add rip rap along outfall and regrade ditchline to protect sewer line	Complete
11.	Queens Lake - 124 & 125 Little John	1	2 days	08/31/10	09/08/10	Repair Swale and add rip rap	Complete
12.	Country Lane	3	4 weeks	07/14/10	09/20/10	Remove trees and excavate floodplain area of ditch Install pipes under roadway	Complete

**York County Construction Maintenance Projects
FY 2011**

	Location	District	Duration	Time Period Start	Finish	Work Required	Status
13.	Rainbrook Villas	3	1 week	09/13/10	09/23/10	Regrade Ditch	Complete
14.	101 Sharps Lane Magruder Woods	1	1 week	10/04/10	10/11/10	Pipe ditch in front yard due to erosion	Complete
15.	Skimino PS	1	2 days	10/20/10	10/21/10	Cut swale around PS	Complete
16.	106 Kent Taylor Mill Crossing	5	2 days	01/31/11	04/28/11	Recut ditch and repair erosion behind home	Completed
17.	110 Tallyho Drive Foxwood	2	1 day	01/31/11	01/31/11	Repair concrete swale	Completed
18.	204 Hollywood	4	1 day	01/31/11	01/31/11	Repair Swale where settlement occurred	Completed
19.	Country Lane Phase II	3	6 weeks	02/08/11	04/27/11	Excavate floodplain area adjacent to existing ditch	Completed
20.	New Quarter Park	1	3 days	02/17/11	02/23/11	Work on stopping erosion in park	Completed
21.	Queens Lake - Horseshoe and Hunter Lanes	1	1 day	02/24/11	02/24/11	Add coir logs to stop erosion	Completed
22.	106 Kyle Circle - Meadowlake Farms	3	2 weeks	03/16/11	03/16/11	rip rap to stop erosion	Completed
23.	Bayberry Lane, Phase II	5	2 weeks	03/17/11	06/03/11	Remove trees, lower driveway culverts, install pipe under road, pipe downstream and regrade ditch	Completed
24.	Wolftrap Properties	4	1 week	03/21/11	03/30/11	Repair erosion in ravine 121 tons of riprap	Completed
25.	101 Scotch Toms Way Scotch Toms Woods	4	1 day	03/28/11	03/28/11	Added coir logs to stop erosion	Completed

**York County Construction Maintenance Projects
FY 2011**

	Location	District	Duration	Time Period Start	Finish	Work Required	Status
26.	End of Tam-O-Shanter Drive Country Club Acres	1	2 weeks	04/04/11	05/17/11	Repair erosion along bank and in ravine - added coir logs	Completed
27.	Meadowlake - 104 Kyle Circle	5	2 days	05/02/11	05/03/11	repair erosion	Completed
28.	127 Dawson Crescent – Seaford	3	1 day	05/05/11	05/05/11	127 - Repair and replace pipe;	Completed
29.	103 Shea Lane Queens Creek Estates	1	1 day	05/11/11	05/11/11	Dig and repair storm sewer due to sinkhole	Completed
30.	York County Vehicle Maint. Gas pump ditch maintenance	2	1 day	05/11/11	05/11/11	Repair outfall pipe from BMP	Completed
31.	Hollywood Dr. PS	4	1 day	05/11/11	05/11/11	Fill and repair ditch, add coir logs	Completed
32.	Marlbank Farms - 302 Old Landing Road	3	1 day	05/18/11	05/19/11	Fill in roadside ditch	Completed
33.	Rosewood - 184 Goodwin Neck Road	3	3 days	05/25/11	05/31/11	Take out pipe and open up dam of old pond. County has drainage easement, old pond failed and no design plans to support it	Completed
34.	122 Devonshire - Banbury Cross	1	2 weeks	06/06/11	06/16/11	repair swale to stop erosion	Completed
35.	Queens Lake - Sheriff's Place	1	3 days	06/15/11	06/20/11	Repair Swale and add rip rap	Completed

TOTALS FOR FY11									
RED TEAM									
	FOOTAGE	DEBRIS	BRIQUETTS	DITCHES DONE	SER REQ				
JUL	65,939.00	POUNDS	7,120.00	UNITS	0.00		53		2
AUG	87,732.00	POUNDS	0.13	UNITS	0.00		32		0
SEP	56,504.00	POUNDS	56,504.00	UNITS	0.00		39		3
OCT	74,673.00	POUNDS	0.80	UNITS	0.00		34		2
NOV	48,702.00	POUNDS	4,240.00	UNITS	0.00		44		0
DEC	10,662.00	POUNDS	1,100.00	UNITS	0.00		9		0
JAN	28,810.00	POUNDS	0.00	UNITS	0.00		17		0
FEB	45,287.00	POUNDS	8,720.00	UNITS	0.00		29		0
MAR	45,287.00	POUNDS	5,640.00	UNITS	0.00		34		0
APR	58,803.00	POUNDS	9,580.00	UNITS	0.00		24		0
MAY	54,589.00	POUNDS	5,060.00	UNITS	0.00		34		0
JUN	70,976.00	POUNDS	2,380.00	UNITS	0.00		24		0
TOTAL	647,964.00	TOTAL	100,344.93	TOTAL	0.00	TOTAL	373.00	TOTAL	7.00
MILES	122.72	TONS	50.17						

BLUE TEAM									
	FOOTAGE	DEBRIS	BRIQUETTES	DITCHES DONE	SER REQ				
JUL	83,353.00	POUNDS	45,815.00	UNITS	0		64		2
AUG	84,119.00	POUNDS	160.00	UNITS	0		57		3
SEP	85,519.00	POUNDS	1,440.00	UNITS	0		46		0
OCT	98,913.00	POUNDS	0.00	UNITS	0		92		1
NOV	90,176.00	POUNDS	6,960.00	UNITS	0		57		0
DEC	16,727.00	POUNDS	4,130.00	UNITS	0		9		0
JAN	53,725.00	POUNDS	4,130.00	UNITS	0		21		1
FEB	56,465.00	POUNDS	7,940.00	UNITS	0		41		1
MAR	52,091.00	POUNDS	4,540.00	UNITS	0		41		7
APR	45,564.00	POUNDS	20,480.00	UNITS	0		32		4
MAY	64,792.00	POUNDS	7,840.00	UNITS	0		49		1
JUN	91,653.00	POUNDS	180.00	UNITS	0		64		2
TOTAL	823,097.00	TOTAL	103,615.00	TOTAL	0.00	TOTAL	573.00	TOTAL	22.00
MILES	155.89	TONS	51.81						

YELLOW TEAM									
	FOOTAGE	DEBRIS	BRIQUETTES	DITCHES DONE	SER REQ				
JUL	180,192.00	POUNDS	18,965.00	UNITS	0.00		97		0
AUG	161,231.00	POUNDS	260.00	UNITS	0.00		85		0
SEP	128,791.00	POUNDS	0.00	UNITS	0.00		0		0
OCT	186,144.00	POUNDS	680.00	UNITS	0.00		23		0
NOV	164,454.00	POUNDS	160.00	UNITS	0.00		4		0
DEC	28,820.00	POUNDS	1,010.00	UNITS	0.00		18		0
JAN	64,167.00	POUNDS	880.00	UNITS	0		0		0
FEB	58,763.00	POUNDS	11,660.00	UNITS	0		0		1
MAR	69,829.00	POUNDS	13,120.00	UNITS	0		0		0
APR	119,378.00	POUNDS	3,820.00	UNITS	8		66		0
MAY	119,378.00	POUNDS	1,500.00	UNITS	24		40		1
JUN	53,038.00	POUNDS	3,140.00	UNITS	0		26		1
TOTAL	1,334,185.00	TOTAL	55,195.00	TOTAL	32.00	TOTAL	359.00	TOTAL	3.00
MILES	252.69	TONS	27.60						

FISCAL YEAR TOTALS: RED, YELLOW, AND BLUE TEAMS									
	FOOTAGE	DEBRIS	BRIQUETTES	DITCHES DONE	SER REQ				
RED	647,964.00	POUNDS	100,344.93	UNITS	0.00		373.00		7.00
BLUE	823,097.00	POUNDS	103,615.00	UNITS	0.00		573.00		22.00
YELLOW	1,334,185.00	POUNDS	55,195.00	UNITS	32.00		359.00		3.00
TOTAL	2,805,246.00	TOTAL	259,154.93	TOTAL	32.00	TOTAL	1,305.00	TOTAL	32.00
MILES	531.30	TONS	129.58						



Adopt-a-Spot



York County Waterways Alliance, Inc.

York County Department of Environmental & Development Services

Adopt-a-Spot



York County Waterways Alliance, Inc.

York County Department of Environmental & Development Services

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
1.1	Participate in regional committees: HRSTORM, HR GREEN, RSMC, and SW Phase II Subcommittee					HR STORM Annual Report, MOA, HRPDC Regional Cooperation in Stormwater Management	
1.1a	<i>Regional Cooperation</i>	Renew MOA with the HRPDC to participate in the regional processes, including the Regional Stormwater Management Program, the Stormwater Phase II Subcommittee and HR STORM.	Maintain valid MOA	HRPDC	Continuously		
1.1b	<i>HR STORM and HR GREEN</i>	Participate in at least 50% of monthly HR STORM meetings	Number of meetings attended/Number of meetings held	Locality	Annually		
		Participate in annual HR GREEN meetings and subcommittee meetings as appropriate.	Number of meetings attended	Locality	Annually		
		Participate in the development of regional Strategic Plans and Communication Plans for HR STORM and HR GREEN.	Participation	Locality	Annually		
1.1c	<i>Stormwater Phase II Subcommittee</i>	Participate in at least 50% of monthly SW Phase II Subcommittee Meetings.	Number of meetings attended/Number of meetings held	Locality	Annually		
		Participate in identifying stormwater education needs and priorities through the HRPDC Phase II Subcommittee.	Participation	Locality	Annually		Done at Aug 2011 meeting.
1.2	Educate citizens on techniques to reduce impacts of stormwater pollution on public waterways with an emphasis on impaired waters.						
1.2a	<i>Distribute educational materials developed through HR STORM.</i>	Distribute materials developed through HRSTORM to target audience in locality.	Number of materials distributed	Locality	Continuously		
1.2b	<i>Maintain and enhance HR STORM Website, coordination with other educational programs, and distribution of e-newsletter.</i>	Improve visits and click through rates to industry standard by end of permit cycle	click through rates as compared to industry standard	HRPDC	Permit Cycle		new HRGreen website launched in August 2011.

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
1.2c	Ensure distribution of regional environmental tabloid to all 6 th graders and teachers' guides to all 6 th grade teachers	Develop and Distribute environmental tabloids	Number of tabloids distributed	HRPDC	Permit Cycle	Tabloid	Planned for distribution in Fall 2012.
1.2d	Regional Media Campaign	Participate in the HR STORM regional media campaign which will make impressions with a stormwater message via print, television (local municipal access, cable and local affiliate), and radio with a target of reaching 72% of adults (25-54) three times over.	Demographic, reach and frequency	HRSTORM	Annually	Copies of ads	
1.2e	"Scoop the Poop" Campaign	Make "Scoop the Poop" information and giveaways available where citizens receive animal licenses and at pet-related events as appropriate	Number of giveaways distributed	locality	Annually		PY4 focus will be on distribution of dog waste bag dispensers.
1.2f	Plant More Plants						
	Target Homeowners	Educate homeowners on the benefits of reducing turf grass and increasing other plants on their property.	Number of materials distributed, number of web hits, and number of media spots.	HRSTORM	PY3-PY4	Copy of materials distributed.	Continue to publicize program through website, social media, and blog articles and distribute giveaways provided by DCR at events.
	Target Garden Centers and Retail Nurseries	Encourage local garden centers and retail nurseries to sign up for DCR's program.	Number of local business members	DCR/HRSTORM	PY4-PY5	Copy of materials distributed.	Assist DCR in publicizing the program and signing up local businesses.
1.3	Illicit Discharge Elimination Education						
1.3a	Educate public employees on hazards and legal implications of illegal discharges and improper disposal of waste.	Identify and prioritize education and training needs for city/county employees through the HRPDC Phase II Subcommittee.	Prioritized list of training needs and number of employees that need training.	Locality	End of PY1	Prioritized needs list	completed
		Conduct 2 trainings per permit cycle	Number of trainings, and # of attendees	HRPDC	Permit Cycle	Description of training	Planning municipal facility training for Winter 2012.
		Ensure at least 20% of appropriate employees attend IDDE training(s) coordinated by the HR PDC.	Number of participants/ Number of identified appropriate employees	Locality	Permit Cycle	List of attendees	

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
1.3b	<i>Target local commercial, industrial, and institutional entities likely to have significant stormwater impacts.</i>	Identify and prioritize education needs for businesses, and residential behaviors according to relative risk for producing illicit discharges through the HRPDC Phase II Subcommittee.	List of entities and priorities	Locality	Within first 2 years of Permit	Priority list and materials developed	List developed in PY2.
1.3c	<i>Educate business owners on hazards and legal implications of illegal discharges and improper disposal of waste.</i>	Distribute educational materials developed through the HRPDC to groups with high risk for producing illicit discharges.	Number of materials distributed.	Locality	Permit Cycle	Education materials and distribution list.	In PY4, HRFOG will educate food service establishments on the proper techniques for grease trap cleaning. HRFOG also plans to translate existing educational materials into Spanish and Chinese to expand their outreach.
1.3d	<i>Educate homeowners on hazards and legal implications of illegal discharges and improper disposal of waste.</i>	Promote 58-STORM info line for appropriate contacts in each locality for citizens to report illicit discharges.	Number of calls	HRPDC and locality	post new info in PY1	Script, updated contact lists, phone bill with numbers of calls, logs on any follow up actions.	
		Investigate possibility of regional 800 number for illicit discharge reporting.	Establish regional line/ number of calls	HRPDC Staff	If feasible, establish line in PY2		Plan to explore new options in 2013.
1.4	Encourage involvement in local water quality improvement initiatives.			locality			
		Post volunteer opportunities on local website.	Number and types of events	locality	Quarterly	City/Co. website	
		Submit articles for HR Green regional e-newsletter for public participation in water quality improvement initiatives.	Number and types of events submitted	locality	Quarterly	E-newsletter	
		Post volunteer opportunities through HR STORM and/or HR Green	Number and types of events submitted	HRPDC Environmental Educator	Quarterly	websites	

1. Public Outreach and Education							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
	Local Advisory Committee	Develop and Distribute environmental Fact Sheets	Number and types of events	York County SAC	Continuously	Fact Sheets: Easy Steps to Cleaner Stormwater; Homeowners Are Key to Stormwater Control; Off Road Vehicles Impact to Drainage Systems and Wetlands; Stormwater Management for Homeowners Low Impact Development	
1.5	Diversify strategies to target local MS4 specific audiences.	Expand fact sheet series	Identify and prioritize targets	HR STORM	PY 2		
			Produce specific fact sheets	HR STORM	PY 3-5	Factsheets, e-newsletters, and websites	Car wash rack card for fundraising car washes.
1.6	Improve outreach program to address concerns of target audience as well as minorities, disadvantaged audiences, and minors .	Improve outreach to school-aged children	Reprint of HR STORM tabloid size newspaper for elementary schools	HR STORM/ HR Green	PY 1, 3, and 5	Newspaper	NIE for 6th graders in PY5.
		Improve outreach to disadvantaged and minority audiences.	Targeted ads through channels such as CW, BET, and urban radio stations.	HR STORM	Annually	Affadavits from TV and radio	
1.7	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	Locality	Annually	Annual report	Updated 1.2f

2. Public Involvement/Participation

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
2.1	Provide Public Notice of Program Plan and Modifications	Promote the availability of the operator's MS4 Program Plan and any modifications for public review and comment in accordance with public law.	public notice of modifications.	York County	As necessary	Virginia Code reference, updated plan	
2.2	Make Program Plan and other Stormwater Program Information Available to Public	Provide the program plan, stormwater annual reports, the stormwater permit, and the stormwater ordinances on the City/County website.	presence of materials on website	York County	Continuously		
2.3	Participate in local activities to improve water quality			York County	As appropriate		
		Attend annual Earth Day activities	Activities	York County	Annually		
2.3a	Citizen Advisory Committee	Bimonthly Meetings to discuss Stormwater Issues in the County	Meetings and Minutes	York County SAC	Bimonthly	Minutes	
2.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually	Annual report	

3. Illicit Discharge Detection and Elimination

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
3.1	Storm Sewer System Map	Map all known outfalls	map # of outfalls catalogued	York County	20% of remaining outfalls annually	map	
		Map surface waters, and impaired waters. Estimate MS4 acreage discharging to each HUC and impaired water.	impaired waters; HUCs	York County	PY1	Registration Statement	
3.2	Illicit Discharge Detection & Elimination Ordinance	Continue implementing and enforcing the illicit discharge/stormwater ordinance.	number of investigations and actions taken	York County	annually	ordinance	
3.3	Illicit Discharge Detection & Elimination Procedures	Continue implementing an illicit discharge detection and elimination program for the municipally-owned MS4 within the Urbanized Area.	develop regionally consistent protocol for responding and investigating IDDE	York County	PY1	Investigation forms	
		Track illicit discharge detection and elimination activities.	number of investigations and actions taken	York County	ongoing	PARS	
3.4	Prevent or minimize the discharge of hazardous substances and oil in the MS4 stormwater discharge.	Yard inspections; Develop/enhance reporting relationship with FD/Haz Mat Team; targeted education	number of responses/ number of inspections	York County		Inspection forms	
3.5	Cooperation with adjacent MS4s	Identify and notify, in writing, any downstream regulated MS4 to which the small regulated MS4 is physically interconnected of the small regulated MS4's connection to that system.	Develop map, Regional Phase II Stormwater Subcommittee Meetings, letters	York County	PY1	letters; meeting attendance	
3.6	Report all spills that reach state waters to DEQ and DCR						
3.6a	Report non sewer spills and releases from small MS4 operated properties that reach State waters to DEQ.	Report spills to The Department of Environmental Quality's Pollution Response Program (PREP).	Obtain PREP number.	York County	Report in accordance to Section III. G.		
3.6b	Report Sanitary Sewer Overflows through SSORS database.	Continue to utilize SSORS to report Sanitary Sewer Overflows	Number of overflows	York County	continuously		
3.7	Continue Sanitary Sewer System improvements in coordination with SSO consent order						
3.8	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually	Annual report	

4. Construction Site Storm Water Runoff Control							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
4.1	Local Erosion and Sediment Control Ordinance	Continue to implement the site plan review, LID implementation where deemed appropriate, construction site BMP, and inspection provisions of the local Erosion and Sediment Control Ordinance.	# of inspections; # plan reviews, # enforcement actions	E&S Program Administrator	annually	PARS is being developed to track all of these items	
		"At a minimum be consistent with the VA ESC Law and regulation"	Soil and Water Conservation Board finding of consistency	E&S Program Administrator	continuously	Letter from DCR	
		Continue to receive and respond to information from citizens relating to the local erosion and sediment control program through personal visits, email, telephone, and the City/County web page.	# of calls/requests, #site visits	E&S Program Administrator	annually	Tracked in Hansen system	
4.2	VSMP Permits	Continue to direct applicants, proposing to disturb an acre or more of land or part of a larger common plan of development or sale that would disturb one acre or more, or >= 2,500 sq. ft. in CBPA areas to VDCR to secure a VSMP Permit for Discharges of Stormwater from Construction Activities. Ensure permit has been obtained.	#of permit applications and permits issued.	E&S Program Administrator	Continuously		
4.3	Training	Participate in the development of at least one regional contractor training session during the life of the permit.	Trainings Completed	HRPDC & Phase II SW Committee	One per permit cycle	training sessions and eval forms	
		Ensure that plan reviewers, inspectors, and program administrators obtain the appropriate certifications as required under the Erosion and Sediment Control Law	certifications obtained	E&S Program Administrator	ongoing		
4.4	Tracking and Reporting	Continue to track and report the total number of permitted land disturbing activities as well as the total disturbed acreage.	number of permits & acres disturbed	E&S Program Administrator	annually	Annual Report	
4.5	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually	Annual report	

5. Post Construction Storm Water Management in New Development and Redevelopment							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
5.1	Stormwater Management Ordinance	Continue to implement the stormwater criteria of the Stormwater Management Ordinance for new development and redevelopment, and update ordinance to comply with Section II.5.a of the General Permit.	Ordinance updates	SW Program Administrator		Ordinance	
5.2	Encourage the use of Low-Impact Development (LID)	Encourage the use of LID as appropriate to local/regional conditions.	Conduct LID workshop for Hampton Roads localities	HRPDC	PY2		completed
		Develop fact sheet/checklist to help developers and local staff determine appropriateness of LID for project(s)	Checklist developed	HRPDC & Regional Stormwater Mgt. Committee	PY2	Factsheet	PY4-PY5
5.3	VSMP Permits	Continue to direct applicants, proposing to disturb an acre or more of land or part of a larger common plan of development or sale that would disturb one acre or more, or >= 2,500 sq. ft. in CBPA areas to VDCR to secure a VSMP Permit for Discharges of Stormwater from Construction Activities.					
5.4	BMP Maintenance Agreements	Require BMP maintenance agreements as directed by the Stormwater Management Ordinance.	# of agreements & inspection schedules	SW Program Administrator	Ongoing	Maint. Agreements	
5.5	BMP Maintenance Program	Update mapping of locally owned structural stormwater controls with reference to HUC and any impaired waters in drainage area.	map	SW Program Administrator	As needed	map	
		Develop schedules for regular inspection and maintenance of locally owned stormwater control structures in accordance with SWM regulations.	Inspections	SW Program Administrator	Annually	PARS	
5.6	Site Inspection and Enforcement	Conduct site inspections	#Inspections & Reinspections; NOVs	SW Program Administrator	As designated	PARS	
5.7	BMP Tracking	Track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the following information: (a) Type of structural stormwater management facility installed as defined in the Virginia Stormwater Management Handbook; (b) Geographic location (HUC); (c) Where applicable, the impaired surface water that the stormwater management facility is discharging into; (d) Number of acres treated.	#&type of BMP, location, watershed, acres treated, impaired waters	SW Program Administrator	Annually	via PARS	

5. Post Construction Storm Water Management in New Development and Redevelopment

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
5.8	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually	Annual report	

6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
6.1	Employee Education & Training	Identify and prioritize pollution prevention education and training needs for municipal employees based on relative risk for stormwater pollution from municipal operations through the HRPDC Phase II Subcommittee.	Training Schedule	HRPDC & Localities	1 during permit cycle	training schedule	completed.
		Develop training materials to eliminate illicit discharges from storage yards, fleet or maintenance shops, outdoor storage areas, rest areas, waste transfer stations, and other municipal facilities.	Develop fact sheets	HRPDC	Permit Cycle	Training documents	Py4-Py5
		Develop and distribute training materials to inform employees on proper waste disposal techniques.	Develop fact sheets	HRPDC	Permit Cycle	Training documents	PY4-PY5
		Educate local government employees on protecting soluble and erodible materials from exposure or precipitation.	Develop fact sheets	HRPDC	Permit Cycle	Training documents	
		Educate local government employees on proper techniques for fertilizer and pesticide application.	Develop fact sheets	HRPDC	Permit Cycle	Training documents	Held training in March 2011.
		Distribute pollution prevention educational materials developed through the HRPDC/HR STORM to municipal employees engaging in operations with a high risk of discharging pollutants into the MS4.	# of items distributed	HRPDC & Localities	annually	E-newsletter, training materials	
		Participate in at least one regional annual training workshop for municipal employees engaging in operations with a high risk of discharging pollutants into the MS4 coordinated by the HRPDC Phase II Subcommittee.	# employees attending	SW Program Administrator	annually	Training outline	
6.2	Spill Prevention & Control Plans	Develop plans describing spill prevention and control procedures for municipal facilities by end of PY 2.	SOP	SW Phase II Subcommittee	PY2	SOP	completed
		Determine any educational needs for employees and develop appropriate training and/or materials.	Training assessment	SW Ph II Subcommittee	1X per permit cycle	Training Schedule	training schedule complete.
6.3	Operations & Maintenance Program	Document or develop formal O&M Program for municipally owned stormwater facilities to include activities, schedules, and inspection procedures that include provisions and controls to reduce pollutant discharges into the regulated small MS4 and receiving surface waters.	O&M Plan	York County	By the end of the permit cycle	O&M Plan	

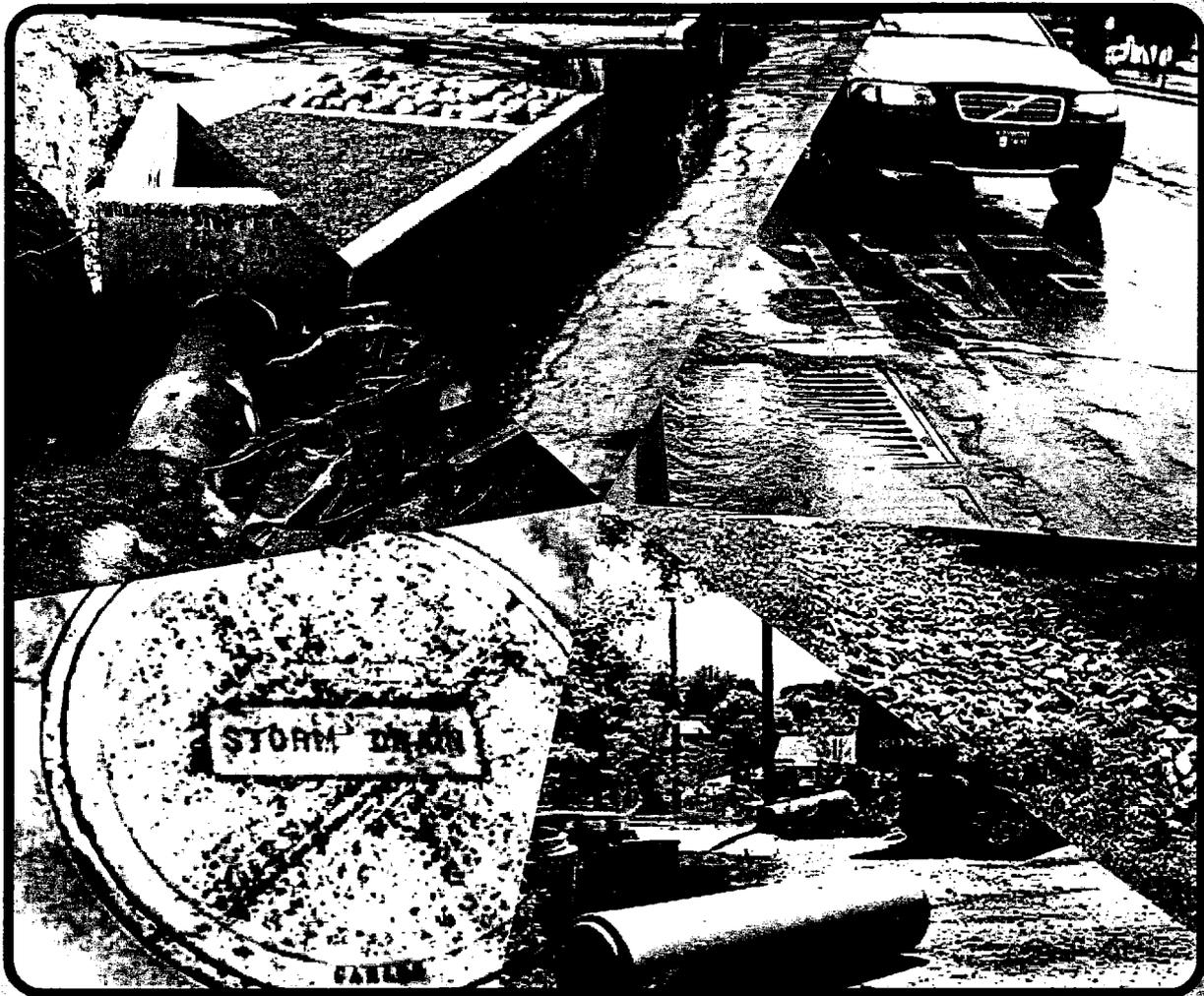
6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	FY2012 Plans
6.4	Evaluation and Assessment	Evaluate and assess progress towards meeting measurable goals.	In accordance with Section I E of 4VAC50-60-1200	York County	Annually	Annual report	

TMDL SPECIAL CONDITIONS (effective starting January 8, 2010)							
BMP	BMP Description	Measurable Goals	Metric	Responsible Party	Timeline	Associated Documents	
7.1	List Program Plan components related to source reduction of pollutants indicated in WLAs.	Develop list of current ordinances and legal authorities, BMPs, policies, plans, procedures and contracts implemented as part of the MS4 Program that are applicable to reducing bacteria from lands draining to waterbody segments with a bacteria TMDL for wh	List	York County	End of PY2	List of applicable components.	
7.2	Evaluate Program Plan for effectiveness to reduce pollutant indicated in WLAs.	Use checklist created by HRPDC to evaluate ordinances and program elements	Checklist	HRPDC and Locality	End of PY3		
		Review water quality data collected by DEQ to track water quality improvements for bacteria.	Data summary	locality/HRPDC	Annually	Water quality data summary	
7.3	Develop a schedule to address Program Plan deficiencies at addressing bacteria pollution delivered to TMDL waterbodies.	Schedule to update program components and ordinances identified in BMP 7.2	schedule	York County	End of PY3	schedule	
		List of limited legal authorities that need to be addressed by the General Assembly.	List	York County	Permit Cycle	List	
7.4	Implement Schedules in 7.3	Implementation according to schedules developed under 7.3	Implementation	York County	According to 7.3	Progress Report	
7.5	Public education and outreach to promote bacteria source reduction.	Continue to promote public education through HRSTORM and activities listed under BMP 1.2 of Program Plan.	As defined in 1.2	locality/HRPDC	Annually		
7.6	Participate as a stakeholder in the development of TMDL Implementation Plans	Participate in TMDL Implementation Plan for " Poquoson and Back Rivers"	Participation	York County	Permit Cycle	Implementation Plan	
7.7	Outfall Reconnaissance	Develop outfall reconnaissance procedures as outlined in 4VAC50-60-1240 Section I.B.5	Reconnaissance Plan	York County	End of PY2	Reconnaissance Plan	
		Conduct reconnaissance of X outfalls from MS4 area within X drainage area	X outfalls	York County	Beginning in PY3 Annually	Reconnaissance Reports.	
		Identify outfalls from MS4 area to X drainage area.	Map of outfalls	York County	End of Permit Cycle	Map and Report.	
7.8	Evaluate properties owned or operated by MS4 that may contribute bacteria to TMDL waterbody.	Develop list of land use categories that could contribute bacteria	List	HRPDC and Locality	End of PY2		
		Map City owned properties within MS4 area that drains to "stream name"	Map	York County	End of PY2	Map	
		Identify City properties with potential to generate bacteria pollution	List	York County	End of PY3	List	
		Conduct site review of identified City properties in accordance with 4VAC50-60-1240 Section I.B.6	Site Review	York County	January 2013		
		Develop schedule to reduce any discharges found during review described in 4VAC50-60-1240 Section I.B.6	schedule	York County	End of Permit Cycle		
		Implement Schedule produced in accordance with 4VAC50-60-1240 Section I.B.6c		York County	In accordance with schedule		
7.9	Characterize volume of stormwater and bacteria concentrations delivered from MS4 areas to TMDL waterbodies.	Calculate discharge of bacteria from MS4 area to "stream"	concentration of bacteria	York County			
7.1	Update Program Plan as necessary to include new TMDL information.						

Hampton Roads Regional Stormwater Management Program

Memorandum of Agreement



**MEMORANDUM OF AGREEMENT
ESTABLISHING THE
HAMPTON ROADS REGIONAL STORMWATER MANAGEMENT PROGRAM**

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

WHEREAS, the sixteen local governments that are signatories to this Agreement have acted, in accordance with Section 15.2-4200 of the Code of Virginia, to establish the Hampton Roads Planning District Commission; and

WHEREAS, the Hampton Roads Planning District Commission has been requested and has undertaken various studies to support local government stormwater management programs, including compliance with VSMP Permits; and

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

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

WHEREAS, pursuant to the Virginia Stormwater Management Act, 10.1-603.1, et. seq. of the Code of Virginia, 1950 As Amended, the Board of Soil and Water Conservation has promulgated implementing regulations 4 VAC 50-60, et. seq., which establish the Virginia Stormwater Management Permit Program (VSMP) requirements that localities obtain VSMP Permits for their Municipal Separate Storm Sewer System (MS4) discharges; and,

WHEREAS, the majority of the eighteen signatory local governments are required by their VSMP 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 VSMP 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, fifteen Cities and Counties and the Hampton Roads Planning District Commission executed the Memorandum of Agreement Establishing the Hampton

Roads Regional Stormwater Management Program on September 5, 2003 and that Agreement expires on December 31, 2007.

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

This Memorandum of Agreement, entered into this sixth day of March 2008, among and between eighteen cities and counties 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 MS4 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 five (5) year basis and the localities applied for renewed permits in 2005.

The Cities of Poquoson, Suffolk and Williamsburg and the Counties of Gloucester, Isle of Wight, James City, and York were all identified by the U. S. Environmental Protection Agency as requiring VPDES Permits under Phase II of the MS4 Regulations. Those localities that operate municipal separate storm sewer systems (MS4) 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 five (5) year basis with the next renewal planned for 2007.

Although Gloucester County was initially identified by the U.S. Environmental Protection Agency 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, 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. The City of Franklin and Southampton County are the only Hampton Roads localities that are not required to develop 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 aforementioned local governments are interested in managing stormwater in a manner which protects and does not degrade waters of the State and which meets locally established quality of life goals and objectives. The Clean Water Act and the VSMP permits require that stormwater quantity and quality be managed to the

maximum extent practicable.

In carrying out their stormwater management responsibilities, the aforementioned local governments have developed a consensus on regional goals to guide the operation of their stormwater management programs. Initially, approved by the Hampton Roads Planning District Commission at its Executive Committee Meeting of September 15, 1999, they are:

1. Manage stormwater quantity and quality to the Maximum Extent Practicable (MEP)
 - Implement Best Management Practices (BMP) 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 VSMP 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

The Hampton Roads Planning District Commission will serve as the policy-making body of the Hampton Roads Regional Stormwater Management Program with the concurrence of the signatory local governments.

Under the terms of this Agreement, the HRPDC is responsible for the following:

Establish and provide appropriate technical and logistical support to the Regional Stormwater Management Committee (RSMC), which will be the technical decision-making body of the Hampton Roads Regional Stormwater Management Program. It will provide technical and policy advice to the HRPDC.

Provide the necessary administrative, technical and clerical resources to support all program activities directed by the RSMC in order to ensure that the permit-holding cities and counties meet applicable stormwater management requirements, including the agreed upon provisions of the VSMP Permits.

Prepare, in cooperation with the RSMC, 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, which minimizes duplicative reporting and the administrative burden on the signatories. This assistance will include management of the Permit Administration and Review System (PARS), developed on a cooperative, regional basis. Development of the PARS is scheduled to be completed in 2008.

Conduct a regional stormwater education program. This will include public education activities and may include outreach to specific economic sectors and groups. The Public Information and Education Subcommittee (HR STORM) 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 Public Information and Education Subcommittee will advise the RSMC 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.

Develop and maintain staff capability to conduct more comprehensive activities, including stormwater discharge impact analyses and modeling in support of local programs.

Upon request from one or more participating localities, conduct technical studies to support compliance by the localities with VSMP Permit requirements and VSMP Program requirements.

Facilitate development of multi-jurisdictional management plans for shared watersheds. This may include conducting necessary technical analyses.

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.

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 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 VSMP Permits for their stormwater discharges.

Prepare annual program reports, or components thereof, which comply with the provisions of the individual VSMP Permits and stormwater management programs of the signatory localities. The basis for this reporting will be the Permit Administration and Reporting System (PARS), being developed cooperatively by the signatory localities and the HRPDC. Where appropriate, the Regional Indicators of Stormwater Management Program Effectiveness, developed through the HRPDC in 2000 will also be used.

Facilitate public outreach in support of TMDL Studies being prepared through the Virginia Department of Environmental Quality and facilitate preparation of TMDL Implementation Plans for impaired waters in all localities in the Hampton Roads Region.

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.

Coordinate the compilation of regional data for the Annual Reports to the DCR.

Regional Phase II Program

The HRPDC will be responsible for undertaking certain activities to enable localities permitted under Phase II, and participating in the Regional Phase II Program, to comply with the terms of their MS4 Permits. These activities include:

Operate the regional stormwater management and pollution prevention training programs for local government employees. This program will be one element of the local programs to meet the Pollution Prevention/Good Housekeeping for Municipal

Operations Minimum Management Measure and the education component of the Illicit Discharge Detection and Elimination Management Measure.

Operate the stormwater public information and education program. This program will be one element of the local programs to meet the Public Education and Outreach Minimum Management Measure and the education component of the Illicit Discharge Detection and Elimination Management Measure.

Maintain a Best Management Practices (BMP) Tracking System. This system will serve as one element of the local programs to meet the Construction Site Stormwater Runoff Control and Post-Construction Stormwater Management in new Development and Redevelopment Minimum Management Measures. The BMP Tracking System is a component of the Permit Administration and Reporting System.

Maintain an Illicit Discharge Tracking System. This system will serve as one element of the local programs to meet the Illicit Discharge Detection and Elimination Minimum Management Measure. The Illicit Discharge Tracking System is a component of the Permit Administration and Reporting System.

Continue assisting the localities in the preparation of Annual Reports to DCR, using reporting protocols, developed through the Phase II Program and being developed through the Permit Administration and Reporting System. These reports are to be submitted annually to the Department of Conservation and Recreation to satisfy permit requirements.

Assist the localities with MS4 Permits issued under Phase II of the Program with ongoing program development and evaluation and preparation of applications for permit reissuance.

LOCAL GOVERNMENT RESPONSIBILITIES

Under the terms of the Agreement, the signatory local governments are responsible for the following:

Appoint a representative and alternates, as appropriate, to the Regional Stormwater Management Committee.

Appoint a representative and alternates, as appropriate, to the Public Information and Education Subcommittee (HR STORM).

Provide, in a timely fashion, all locally generated data required by their VSMP Permits and such other data as may be necessary to accomplish locally requested services. This may include data necessary to meet the Annual Reporting requirements of other programs.

Provide timely technical review of HRPDC analyses and conclusions.

Provide technical recommendations to local representatives on the HRPDC, the policy-making body of the Hampton Roads Regional Stormwater Management Program (HRPDC).

Participate in regional efforts to conduct public outreach and education activities in support of the state'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.

Support HRPDC efforts to obtain additional funding to support the regional program.

Comply with all terms of their VSMP Permits and related program requirements.

In those cases where a locality is not required to obtain a VSMP Permit, comply with all minimum requirements of the Virginia Stormwater Management Program.

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

ROLE OF THE REGIONAL STORMWATER MANAGEMENT COMMITTEE

The RSMC will consist of one voting representative of each signatory, appointed by the Chief Administrative Officer of the signatory local government. One or more alternates may be formally designated by the CAO. Generally, the voting representative of each locality will be the VSMP Permit or Program Administrator.

The term of membership on the RSMC will be at the pleasure of the Chief Administrative Officer.

The RSMC may elect a Chairman and Vice-Chairman from among its membership. The HRPDC staff will serve as Secretary for the RSMC.

Ex-officio members of the RSMC will include representatives of the Hampton Roads Sanitation District, U.S. Navy and the Virginia Departments of Environmental Quality, Conservation and Recreation, and Transportation. The RSMC may determine that representatives of other organizations should serve as ex officio members of the Committee.

Generally, the RSMC will operate on a consensus basis. All consideration of and recommendations concerning the Annual Work Program and Budget will require a majority vote of the RSMC membership. Each signatory is entitled to one (1) vote on the RSMC. Approval of the Annual Work Program and Budget may be accomplished through an electronic letter ballot. Following approval of an electronic letter ballot, the RSMC will ratify the letter ballot.

The RSMC will provide technical and policy recommendations to the HRPDC, which is the policy-making body of the Hampton Roads Regional Stormwater Management Program. It will provide day-to day technical guidance on behalf of the signatory local governments to the HRPDC staff.

Various subcommittees may be established by the RSMC to facilitate operation of the Hampton Roads Regional Stormwater Management Program. The Public Information

and Education Subcommittee (HR STORM) is a standing subcommittee of the RSMC. The Phase I Subcommittee and the Phase II Subcommittee are standing committees of the RSMC.

METHOD OF FINANCING

Program costs will be allocated on a pro-rata basis among the local governments. There will be a base buy-in per participating local government with the balance of annual costs allocated according to a formula reflecting the local share of regional population. Formula details will be developed by the RSMC and approved by the HRPDC with the concurrence of the signatory local governments. The most current estimate of population developed by the Weldon Cooper Center for Public Service/Virginia Employment Commission, will be used as the population base for allocating program costs. Local contributions may be adjusted on an annual basis to reflect program experience and projected program expenditures necessary to satisfy permit requirements and local needs.

Individual local governments may request specific services from the HRPDC, which are in excess of the program elements common to all participants. The cost of such services will be borne by the requesting locality or localities.

When appropriate, financial support from other entities, such as state and federal agencies, and the private sector, will be sought and obtained to support the activities of the Hampton Roads Regional Stormwater Management Program.

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 Memorandum of Agreement must be submitted in writing, recommended for approval by the Regional Stormwater Management Committee, approved by the Hampton Roads Planning District Commission, and accepted by all signatories.

DURATION AND TERMINATION

This Agreement will have a term of five and one-half years, extending from the date of full execution of the renewed Agreement by the signatories or January 1, 2008, whichever occurs last through June 30, 2013. To conform to local government charter and Virginia Code requirements, the funding provisions of this Agreement will be subject to annual appropriations.

No later than January 1, 2013, 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 written Notice To Terminate to all other parties. Such termination will be effective with 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 state (Virginia Department of Conservation and Recreation).

OWNERSHIP OF PROPERTY

It is not the intent of the signatories that the Memorandum of Agreement will result in the purchase, ownership, leasing, holding or conveying of 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.

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

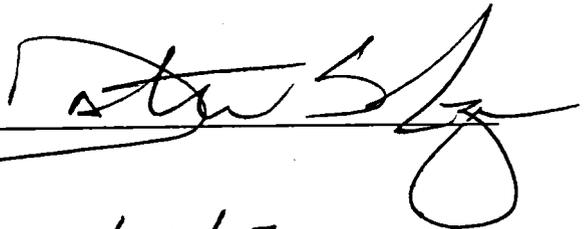
TOWM OF WINDSOR

HAMPTON ROADS PLANNING DISTRICT COMMISSION

This listing of participants will be followed by individual signature pages

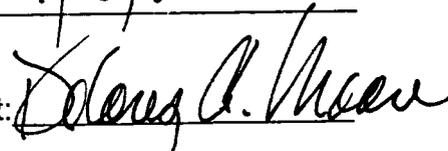
IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF CHESAPEAKE

By: 

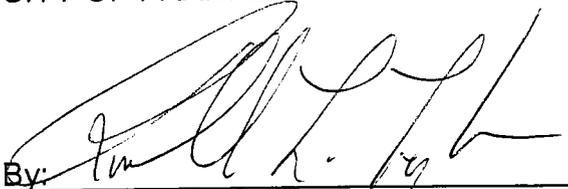
Date: 12/20/07

Date: 1/8/08

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 FRANKLIN

By: 

Date: 12.7.07

Date: 12/7/07

Attest: Eric M. Turner

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: W. J. St

Date: 11/30/07

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 HAMPTON

By: 

Date: 12/20/07

Date: 12/27/07

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.

ISLE OF WIGHT COUNTY

By: W. Douglas Cash

Date: December 17, 2007

Date: 12/17/07

Attest: Carey Mills Storm

Approved as to form:

A. Paul Burton

A. Paul Burton
Interim County 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.

JAMES CITY COUNTY

By: Sanford Blumme

Date: 12/6/07

Date: 12/6/07

Attest: Michelle Salmeron

RECEIVED
DEC 14 2007
HRPDC

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.

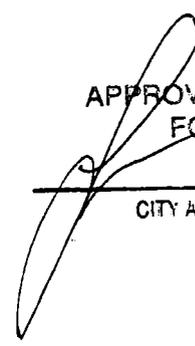
CITY OF NEWPORT NEWS

By: 

Date: 01/2/08

Date: 1-16-2008

Attest: Mabel U. Washington

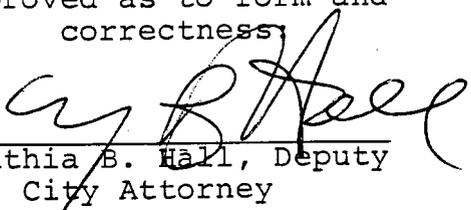

APPROVED AS TO
FORM

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 NORFOLK

Approved as to form and
correctness


Cynthia B. Hall, Deputy
City Attorney

Date: 3-6-08

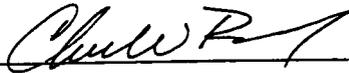
Attest: 

By: 
Regina K. Williams

Date: 12/31/07

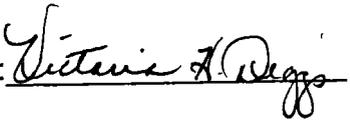
IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF POQUOSON

By: 

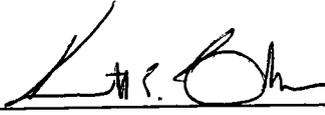
Date: 11/28/07

Date: 11/28/07

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 PORTSMOUTH

By: 

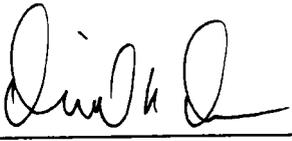
Date: 11-29-07

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.

SOUTHAMPTON COUNTY

By: 

Date: DECEMBER 18, 2007

Date: December 18, 2007

Attest: 

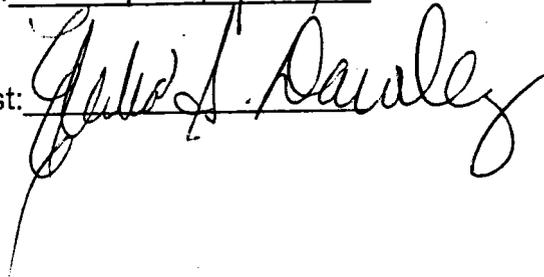
IN WITNESS THEREOF, the Chief Administrative Officer of the local governments and the Executive Director of the Hampton Roads Planning District Commission hereby execute this Agreement.

CITY OF SUFFOLK

By: 

Date: 12/19/07

Date: 12/21/07

Attest: 

IN WITNESS THEROF, 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: 2-20-08

Date: 2/20/08

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 VIRGINIA BEACH

By: James K. [Signature]

Date: 11/28/07

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: 
Jackson C. Tuttle

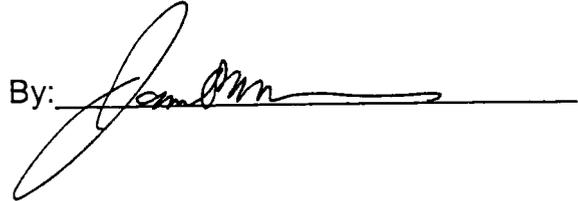
Date: December 14, 2007

Attest: 

Date: December 14, 2007

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.

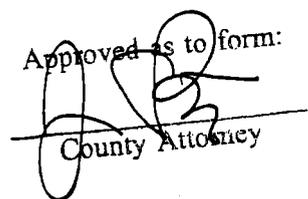
YORK COUNTY

By: _____

Date: 12-28-07

Date: 12-28-07

Attest: _____

Approved as to form:

County 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.

TOWN OF SMITHFIELD

By: 
PETER M. STEPHENSON
TOWN MANAGER

Date: DECEMBER 4, 2007

Date: 12/4/07

Attest: Sharon L. Thomas

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:  _____

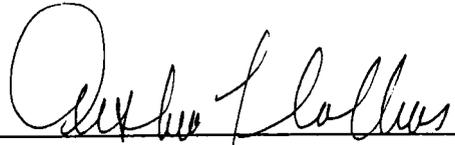
Date: 11/27/07 _____

Date: 11/27/07 _____

Attest: Jerry B. 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: 3/6/08

Date: _____

Attest: _____

REGIONAL COOPERATION IN STORMWATER MANAGEMENT



FISCAL YEAR 2010-2011 A STATUS REPORT



September 2011

PEP11-08

HAMPTON ROADS PLANNING DISTRICT COMMISSION

DWIGHT L. FARMER

EXECUTIVE DIRECTOR/SECRETARY

CHESAPEAKE

AMAR DWARKANATH

WILLIAM E. HARRELL

CLIFTON E. HAYES, JR

* ALAN P. KRASNOFF

ELLA P. WARD

FRANKLIN

* JUNE FLEMING

BARRY CHEATHAM

GLOUCESTER COUNTY

* BRENDA G. GARTON

GREGORY WOODARD

HAMPTON

MARY BUNTING

ROSS A. KEARNEY

* MOLLY JOSEPH WARD

ISLE OF WIGHT COUNTY

W. DOUGLAS CASKEY

* STAN D. CLARK

JAMES CITY COUNTY

* BRUCE C. GOODSON

ROBERT C. MIDDAUGH

NEWPORT NEWS

NEIL A. MORGAN

* MCKINLEY L. PRICE

SHARON P. SCOTT

NORFOLK

ANTHONY L. BURFOOT

* PAUL D. FRAIM

THOMAS R. SMIGIEL

MARCUS JONES

DR. THERESA W. WHIBLEY

POQUOSON

W. EUGENE HUNT, JR.

* J. RANDALL WHEELER

PORTSMOUTH

KENNETH L. CHANDLER

* KENNETH I. WRIGHT

SOUTHAMPTON COUNTY

ANITA T. FELTS

* MICHAEL W. JOHNSON

SUFFOLK

* SELENA CUFFEE-GLENN

LINDA T. JOHNSON

SURRY COUNTY

* TYRONE W. FRANKLIN

JOHN M. SEWARD

VIRGINIA BEACH

HARRY E. DIEZEL

ROBERT M. DYER

BARBARA M. HENLEY

* LOUIS R. JONES

PRESCOTT SHERROD

JAMES K. SPORE

JOHN E. UHRIN

WILLIAMSBURG

* CLYDE A. HAULMAN

JACKSON C. TUTTLE

YORK COUNTY

* JAMES O. McREYNOLDS

THOMAS G. SHEPPERD, JR.

*EXECUTIVE COMMITTEE MEMBER

PROJECT STAFF

JOHN M. CARLOCK

HRPDC DEPUTY EXECUTIVE DIRECTOR

WHITNEY S. KATCHMARK

PRINCIPAL WATER RESOURCES ENGINEER

JENNY L. TRIBO

SENIOR WATER RESOURCES PLANNER

FRANCES D. HUGHEY

ADMINISTRATIVE ASSISTANT

ROBERT C. JACOBS

GENERAL SERVICES MANAGER

MICHAEL R. LONG

ASSISTANT GENERAL SERVICES MANAGER

CHRISTOPHER W. VAIGNEUR

REPROGRAPHIC COORDINATOR

REGIONAL COOPERATION IN STORMWATER MANAGEMENT

FISCAL YEAR 2010-2011

A STATUS REPORT

**This report was included in the HRPDC Work Program
for FY 2011-2012, approved by the Commission at its Executive Committee Meeting on
June 16, 2011**

**Prepared by the staff of the
Hampton Roads Planning District Commission
in cooperation with the
Regional Stormwater Management Committee**

September 2011

REPORT DOCUMENTATION

TITLE:
**Regional Cooperation in Stormwater
Management Fiscal Year 2010-2011:
A Status Report**

REPORT DATE
September 2011

GRANT/SPONSORING AGENCY
LOCAL FUNDS

AUTHOR:
Jennifer L. Tribo

**ORGANIZATION NAME,
ADDRESS AND TELEPHONE**
Hampton Roads Planning
District Commission
723 Woodlake Drive
Chesapeake, Virginia 23320
(757) 420-8300
<http://www.hrpdcva.gov>

ABSTRACT

This document describes cooperative activities related to stormwater management undertaken by Hampton Roads local governments during Fiscal Year 2010-2011. Activities described include the regional information exchange process, public information and education, legislative and regulatory issues, cooperative regional studies and related programs. One of a series of Annual Reports, this document is used by the region's twelve localities with stormwater permits to assist them in meeting their permit requirements.

ACKNOWLEDGMENTS

The Hampton Roads Planning District Commission, in cooperation with the Regional Stormwater Management Committee (RSMC), prepared this report.

Preparation of this report was included in the HRPDC Unified Planning Work Program for FY 2011-2012, approved by the Commission at its Executive Committee Meeting of June 16, 2011.

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

INTRODUCTION

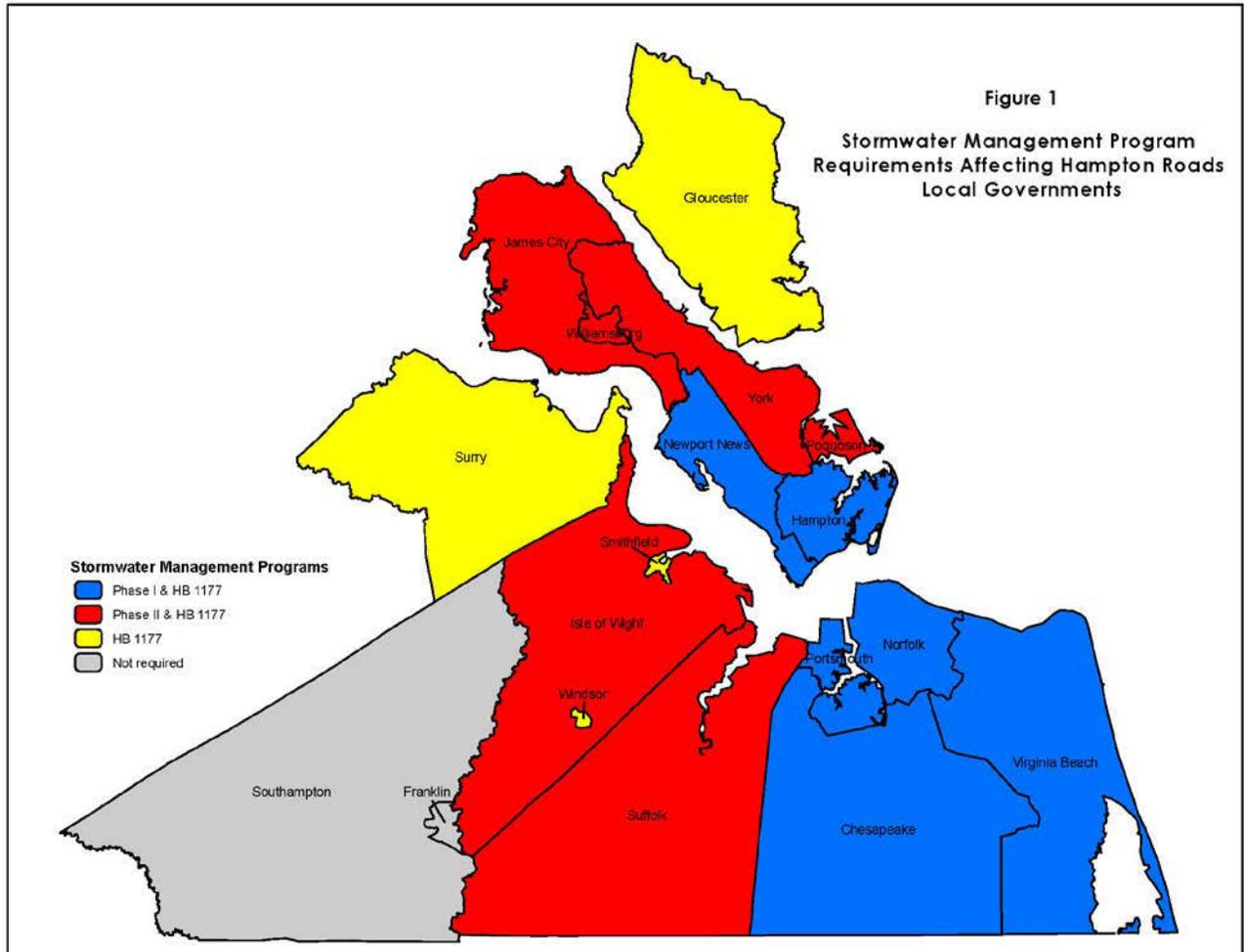
Working through the Hampton Roads Planning District Commission, the region's sixteen member cities and counties (Figure 1) cooperated on a variety of stormwater management activities during Fiscal Year 2010-2011. This cooperative effort has been underway as a formal adjunct to the Virginia Pollutant 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 1995-1996. The Cities of Suffolk, Poquoson, Williamsburg, and James City County, Isle of Wight County, and York County joined in 2002 to coordinate Phase II MS4 permit applications. Cooperative activities documented in this report represent a continuation of an ongoing effort, which has involved concerted activity since 1992.

REGIONAL STORMWATER MANAGEMENT PROGRAM GOALS

The HRPDC and the Regional Stormwater Management Committee undertook a comprehensive effort in FY 1998-1999, called the Regional Loading Study. This effort was completed in September 1999. The project included development by the RSMC of 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 March 2008 renewal of the MOA. 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 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 HRPDC Regional Stormwater Management Committee (RSMC) recommended during FY 1995-1996 that a formal regional program be established at the HRPDC, to be funded by the participating member localities for an initial period of up to three years. The program, established in July 1996, initially focused on activities that supported the permit compliance efforts of the six communities with Phase I VPDES Stormwater System Permits, technical assistance to the region's non-permitted communities and regional education and training to support all of the communities. Development and refinement of the regional program is a cooperative venture between the HRPDC staff and the Regional Stormwater Management Committee. The Regional Program is evaluated annually by the RSMC.

In late 1999, the U.S. Environmental Protection Agency promulgated the final Phase II Stormwater Permit Regulations. To facilitate review of the regulations, the HRPDC staff prepared a "Review and Summary of the Regulations." That review summarized regulatory requirements, highlighted differences between the Phase I and Phase II regulations, noted potential issues that needed to be considered by the Phase II localities in determining their response to the regulations and suggested alternative approaches by which the region's localities could meet the new requirements in a collaborative fashion. That report served as the basis for the region's six Phase II localities moving forward in a cooperative fashion to address the Phase II Permit requirements.

Phase I Localities

The efforts of the Phase I localities this year have centered on following the development of the Chesapeake Bay TMDL and Virginia's Phase I Watershed Implementation Plan as well as being involved in the revision of the Virginia Stormwater Management Regulations. The Hampton Roads localities have been involved in this intensive rule-making process since 2005. While localities have continued to follow the Phase I MS4 permit renewal process in Virginia, the Department of Conservation and Recreation has chosen to focus on reissuing the Fairfax County permit prior to any in Hampton Roads. HRPDC staff has continued to work with the localities to obtain copies of any draft permits and developed comments to DCR as requested.

Phase II Localities

The localities that are covered under Phase II of the Permit Program requested that the HRPDC facilitate a joint approach to development of their permit reapplications and stormwater management program plans, where applicable. Through this cooperative effort, the HRPDC developed a regionally consistent stormwater management program in cooperation with the affected localities.

In addition to participating in Regional efforts related to the Chesapeake Bay TMDL and the revision of the Virginia Stormwater Management Regulations, the Phase II localities cooperate to address program development and implementation of the Phase II General Permits, which

were reissued in 2008. Activities in FY 2011 included a regional training on nutrient management, development of a checklist for goodhousekeeping at municipal facilities, development of a residential guide for stormwater runoff.

INFORMATION EXCHANGE

The cornerstone of the Regional Stormwater Management Committee's activities 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.

Monthly Meetings

The sixteen communities are represented on the HRPDC Regional Stormwater Management Committee, which meets monthly. These monthly meetings provide an opportunity to exchange information about successful stormwater management techniques, program activities, utility structures and policies, and a myriad of related environmental issues. Cooperating agencies such as DCR, DEQ, VDOT, HRSD and the US Navy regularly participate in these meetings.

The monthly meetings provide a forum for exchange of information and coordination among the permitted communities, while providing educational background and preparation for staff from the non-permitted localities. Several related state programs, including those implementing the Virginia Stormwater Management Act, Erosion and Sediment Control Law, and Chesapeake Bay Preservation Act, as well as the evolving Chesapeake Bay Program water quality studies, including Tributary Strategies and now the Chesapeake Bay TMDL govern all of the localities. Increasingly, the region's localities are affected by and involved in the state's TMDL (Total Maximum Daily Load) Studies and Implementation Plan processes for locally impaired waterbodies. Issues associated with these programs are also addressed during the monthly meetings.

During FY 2010-2011, representatives of the Regional Stormwater Management Committee assisted the HRPDC staff with developing its comprehensive work program. The HRPDC work program continues to include a strategic planning initiative, identified previously as a high priority activity by this group. The Committee continued the long-term effort to better integrate the various reporting requirements associated with the state's stormwater management programs and to explore institutional approaches to further enhance the region's environmental planning and management programs.

State and Federal Agency Program Briefings

Representatives of state and federal agencies frequently brief the Committee on developing issues, regulatory guidance and technical programs. During the year, the Committee was briefed regularly by representatives of the Virginia Department of Conservation and Recreation (DCR) on state initiatives related to the Virginia Stormwater Management Regulations, by

representatives of the DCR Division of Chesapeake Bay Local Assistance on various aspects of the CBPA Regulations and associated guidance, by the U.S. Navy on their environmental programs, by DEQ staff on the TMDL process and by staff from DCR and DEQ concerning the Chesapeake Bay Program TMDL efforts.

In March 2011, the HRPDC hosted a special Commission meeting to discuss the Chesapeake Bay TMDL and the Phase II WIP process. Mr. Jeff Corbin, EPA's Senior Advisor on Chesapeake Bay Restoration, and Mr. Anthony Moore, Virginia's Assistant Secretary of Natural Resources for Chesapeake Bay Restoration both made presentations to the Commission. Members of the RSMC attended the meeting and worked with HRPDC staff to develop a follow-up letter to Mr. Corbin expressing the Region's concerns with how the final TMDL addressed allocations for stormwater in Hampton Roads.

Watershed Roundtables

The Watershed Roundtable approach is Virginia's preferred approach to nonpoint source pollution management. HRPDC leads the Lower James River (Hampton Roads) Watershed Roundtable and participates in the ongoing activities of both the York River Watershed Council and the Middle James River Roundtable. All members of the RSMC participate in the Roundtables, along with representatives from other local government departments, regional and state agencies, Soil and Water Conservation Districts and private organizations.

PUBLIC EDUCATION

HR STORM

To support development and operation of the stormwater education program, a Public Information and Education Subcommittee consisting of local stormwater education/public information staff was established in 1997. The regional stormwater education program is known as HR STORM. The Public Information and Education Subcommittee (HR STORM) was established during FY 1997-1998 and meets on a monthly basis. The HR STORM Program and its accomplishments for the year are summarized in the HR STORM FY 2011 annual report entitled, Hampton Roads Regional Stormwater Education Initiatives.

Program funding supports, in part, HRPDC staff members, who also coordinate the region's water conservation education program (HR WET), the regional litter control and recycling education program (HR CLEAN), the regional wastewater (fats, oil and grease) educational program (HRFOG), as well as other regional environmental education, public information and training programs. The HRPDC staff is facilitating a number of cooperative ventures among these programs, which serve to enhance the effectiveness of all of them. These joint ventures have come to be known as HR Green. In FY 2009-2010, an RFP was circulated for consultant services to assist in more effectively integrating the various educational messages, and the firm of Cahoon & Cross was selected. Activities in FY 2011 focused on benchmarking, branding, creative development, and website creation. While the website was being prepared for a FY 2012 launch, HR Green used a blog and social media to communicate information related to stormwater management. More detail about this effort is provided in the HR STORM Annual Report.

TRAINING

Since 2004, the HRPDC staff has worked with the six Phase II communities to develop and conduct training programs for local government staff. These programs are designed to assist the localities in meeting the Good Housekeeping Management Measure. Program topics are reviewed and prioritized annually by the Phase II Subcommittee. In FY 2011, HRPDC staff coordinated the logistical and technical aspects of a regional training seminar on nutrient management. Over thirty local government staff members, representing 11 localities within the region attended the one day workshop offered at both peninsula and southside locations. Training topics are reviewed and evaluated annually. The next training is tentatively scheduled for Winter 2012 and will likely focus on general pollution prevention and good housekeeping at municipal facilities.

Topic	Last offered	Previous dates
Fleet Maintenance	Mar 2005	
Landscaping	Mar 2006	
IDDE	Oct 2009	Feb 2008, May 2007
General Pollution Prevention	Feb 2009	March 2004
Parks & Open Space Mgt.	March 2011	
LID Practices	June 2010	

In June 2011, the HRPDC hosted a special stormwater training offered by the Chesapeake Bay Stormwater Training Partnership entitled, "Advanced Stormwater Design in the Chesapeake Bay." Locality stormwater staff, including many members of the RSMC, attended the two day workshop. Topics addressed included the science behind Virginia's stormwater regulations, coastal plain design adaptations, stormwater design for redevelopment, and nutrient accounting for watershed implementation plans.

LEGISLATIVE & REGULATORY MONITORING

This element of the program involves monitoring of state and federal legislative and regulatory activities that may impact local stormwater management programs. Based on this monitoring activity, the HRPDC staff develops briefing materials for use by the localities, including consideration by the governing bodies. As appropriate, the HRPDC staff in cooperation with the Committee develops consensus positions for consideration by the Commission and local governments. The level of effort devoted to this element has increased significantly over the past five years. During 2010-2011, the regional emphasis was continued participation in the evolving regulatory stormwater program of the Department of Conservation and Recreation and the development of the Total Maximum Daily Load (TMDL) and Implementation Plans for the Chesapeake Bay Watershed.

Virginia Stormwater Regulations

In FY2011, representatives from HRPDC and its member localities served on the Department of Conservation and Recreation's reassembled Regulatory Advisory Panel (RAP) to develop comprehensive stormwater management regulations that will enhance the ability of the local governments to implement cost-effective stormwater management programs that meet water quality requirements while minimizing adverse impacts on local governments. The Region supported the final Regulations that established a statewide phosphorus standard for post-construction stormwater runoff. The Regulations were approved by the Soil and Water Conservation Board in May 2011, and will be implemented by localities by July 1, 2014. The HRPDC Commissioners were provided periodic updates on the process, as developments warranted.

The region is also currently represented on the DCR Stormwater BMP Clearinghouse Committee that was developed to review protocols for proprietary BMP pollutant removal efficiencies, and is a result of a similar regional effort explored by the HRPDC. The Clearinghouse Committee has recently proposed a statewide protocol for the approval of proprietary stormwater BMPs. Consistent regional input is coordinated through the HRPDC Regional Stormwater Management Committee.

Chesapeake Bay TMDL and Virginia Phase I Implementation Plan

Because the water quality goals set forth in the Chesapeake 2000 Agreement were not met by 2010, the Environmental Protection Agency established a Total Maximum Daily Load for the Chesapeake Bay on December 29, 2010. The jurisdictions within the Bay watershed are expected to develop strategies to meet the nutrient and sediment load reductions outlined in the TMDL. In November 2010, Virginia submitted to EPA its Phase I Watershed Implementation Plan (WIP) that outlined the statewide strategies that would be implemented by each source sector. Virginia is currently developing its Phase II WIP that will outline the management actions that will be implemented by local governments.

During the last two years, staff has closely followed the EPA's development of the Chesapeake Bay TMDL by attending regularly scheduled webinars offered by the EPA throughout the Fall of 2009. Staff also participated in Virginia's efforts to create its Watershed Implementation Plan for the Chesapeake Bay through attending the Stakeholder Advisory Group meetings and the stormwater workgroup meetings from December 2009 through August 2010. In October 2010, HRPDC staff reviewed both the draft TMDL and the Phase I WIP developed by Virginia. The Regional Stormwater Management Committee worked with HRPDC staff and elected officials to develop Regional comments on both documents.

During FY2011, HRPDC staff has been active in communicating the requirements of the TMDL and analysis of its potential impacts to local governments through monthly briefings. The HRPDC is representing the Region on Virginia's Phase II WIP Stakeholder Advisory Committee. HRPDC has agreed to assist Virginia in facilitating local government involvement in the Phase II WIP process. HRPDC has formed a Regional Steering Committee to facilitate development of local government management action strategies.

REGIONAL STUDIES

Bacteria Source Tracking

The HRPDC is leading a regional effort to develop a bacterial identification methodology for the Hampton Roads Region. Proven genetic techniques are being used to differentiate bacteria sources, so that TMDL plans can be designed to address the cause of the bacterial impairment. During FY2011, researchers from Virginia Tech, University of South Florida, and University of North Carolina in coordination with locality staff and the Hampton Roads Sanitation District (HRSD) collected and analyzed bacteria samples from three case study watersheds in Suffolk, York County, and Virginia Beach. A final Study report is expected at the end of FY2012.

Stormwater Program Matrix

A comprehensive stormwater program matrix, including Phase I and Phase II communities, was developed in FY 2000 which addresses both utility and programmatic issues. HRPDC staff coordinates with local government stormwater program staff to update the information in the matrix annually.

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 process also provides a forum, allowing state regulatory agency staff to meet with the region's localities to discuss evolving stormwater management and other environmental regulations. Comprehensive technical data and information is maintained in the HRPDC library for use by the participating localities as well as the public. In addition, the HRPDC staff provides technical information and advice to all of the participating localities on a wide variety of issues upon request. The HRPDC is also frequently requested by localities from other parts of Virginia and adjacent states for assistance due to its experience with stormwater management programs in Hampton Roads.

In FY2011, technical assistance to localities was focused on disseminating information related to the Chesapeake Bay TMDL and Virginia's Phase I Watershed Implementation Plan. HRPDC developed preliminary estimates of the cost to implement the urban stormwater controls called for in the draft WIP and the TMDL. The resulting cost estimates gave local governments the leverage to put pressure on Virginia to develop a revised Phase I WIP that would provide greater reasonable assurances that agricultural targets could be met and require Hampton Roads' wastewater discharges to meet nutrient targets consistent with the rest of Virginia. The revised Phase I WIP convinced the EPA to remove the backstops placed on stormwater discharges in the draft TMDL, resulting in an estimated savings of \$7 billion to Hampton Roads local governments.

MEMORANDUM OF AGREEMENT

The Regional Stormwater Management Program was established in 1996 as a formal program of the Hampton Roads Planning District Commission with support and participation from the sixteen member local governments. Due to increasing dependence upon the HRPDC to fulfill various permit requirements for both Phase I and Phase II localities, the HRPDC staff and RSMC developed a Memorandum of Agreement (MOA), formalizing the existing regional program, while providing a structure for future program evolution and regional cooperation. The MOA outlines the basic regulatory and programmatic premises for the cooperative program, incorporating the Regional Program Goals, outlined earlier in this report. It establishes a division of program responsibilities among the HRPDC and the participating localities and establishes the role and responsibilities of the Regional Stormwater Management Committee. It formalizes the traditional method of allocating program costs, addresses questions of legal liability for program implementation and includes other general provisions. The MOA is reauthorized by the signatories every five years. It was last executed in March 2008.

PERMIT ADMINISTRATION AND REPORTING SYSTEM (PARS)

In an effort to streamline reporting and capture data more effectively for local governments, the twelve permitted localities have pooled resources to develop the Permit Administration and Reporting System, or PARS. Based on local needs and anticipated Phase I permit requirements, as well as changes in the state stormwater management regulations, the region has contracted with URS Corporation to develop a web-based data tracking and reporting system. The first modules of the system are already being utilized by local governments to catalog development sites and their associated best management practices (BMPs). The system also enables localities to capture inspection information, as well as collecting documentation for future inspections or enforcement actions. In addition, localities can use the site to catalog stormwater outfalls, document illicit discharge investigations and record public education information. Users can then query a variety of reports to satisfy the reporting requirements of their stormwater permits. Future modules will be developed as more details of the state regulations and Phase I permits are finalized. It is anticipated that this system will serve as a model for statewide compliance.

RELATED PROGRAMS AND PROJECTS

In various combinations, the twelve (12) MS4 communities, as well as their non-permitted counterpart communities, in Hampton Roads participate in a wide variety of related programs. These programs are noted here because of their relationship with stormwater management.

Chesapeake Bay Program

Over the past several years, the Hampton Roads Region has devoted considerable attention to the ongoing Chesapeake Bay Program (CBP). To facilitate local government participation in Chesapeake Bay Program activities, HRPDC staff and RSMC members have participated in the deliberations of many CBP Committees and Work Groups dealing with urban stormwater, land development, watershed planning, land use development, modeling and local government's role in the Bay Program. Since the development of the Chesapeake Bay TMDL in December 2010, the HRPDC and the RSMC have continued to follow the activities of the CBP primarily

through participation in the Urban Stormwater Workgroup. In FY 2012, local government stormwater staff have volunteered to serve on several subcommittees that will work to develop Bay Program accepted efficiencies for new stormwater best management practices.

Chesapeake Bay Preservation Act Program

Fourteen of the sixteen member localities, including the six cities with Phase I MS4 Permits and the six localities with Phase II MS4 Permits, continue to implement programs in response to the Virginia Chesapeake Bay Preservation Act. Stormwater management is one component of those programs. Although the CBPA is not formally part of the multi-state Chesapeake Bay Program, described above, it serves as one element of local government implementation actions to comply with their MS4 Permits and to meet the goals of the Bay Program. Through the HRPDC Chesapeake Bay Committee, which also involves the region's non-permitted communities, staff members responsible for implementation of that program share information on successful program activities. These efforts are closely coordinated with the Regional Stormwater Management Committee. Routinely, the two Committees meet jointly to address technical and regulatory issues of common concern.

Water Supply Planning

Beginning with the drought of 2002, the Department of Environmental Quality embarked on an intensive effort to develop regulations governing water supply planning and permitting. This effort was directed by legislation enacted by the Virginia General Assembly in 2003. Through the HRPDC Directors of Utilities Committee, the HRPDC and sixteen localities were heavily involved in these efforts. The HRPDC, as recommended by the Committee, adopted a formal position in support of the water supply planning regulations as finally proposed. These Regulations, governing local and regional water supply planning, became effective in late 2005. The region was also heavily involved in the effort beginning in FY 2003-2004 to develop modifications to the Virginia Water Protection Permit Regulations as they apply to water supply projects. Those regulations became final in early 2006.

Beginning in late Fall 2005, the HRPDC Directors of Utilities Committee began discussions on possible approaches to meeting the planning requirements in a cooperative, regional fashion. With a small grant from DEQ, the HRPDC staff and Utilities Committee developed a framework for accomplishing development of a regional water supply and educational materials on the state planning requirements. In 2011, HRPDC completed the Hampton Roads Regional Water Supply Plan. The plan addresses the requirements of the state planning process for all local governments in the region.

Water Quality Management Planning

Under the Clean Water Act, state legislation, water quality management planning regulations and a consent order involving the Commonwealth of Virginia and the federal government, the state is proceeding with development of a substantial number of TMDL (Total Maximum Daily Load) Studies and subsequent development of TMDL Implementation Plans. This work follows from the classification of the waters by the state as meeting or failing to meet water quality standards. Water bodies that fail to meet water quality standards are classified as "impaired," triggering the requirement to prepare the TMDL study. Once a TMDL Study is completed, state

law requires the development of an Implementation Plan, which will restore water quality in the water body to a level that meets water quality standards.

The HRPDC staff has coordinated regional involvement in the “impaired waters” listing process. This has entailed providing opportunities through the Joint Environmental Committee for education of local government staff on the TMDL process, development of technical comments on the “impaired waters” list and response to the development of TMDLs themselves.

The HRPDC staff is currently working with the region’s localities in participating in TMDL studies. To assist the region’s localities in addressing this requirement and ensuring that Implementation Plans are feasible, the HRPDC staff is working with DEQ to devise a cooperative regional partnership to coordinate the TMDL study process with the localities and to develop the required Implementation Plans.

Sanitary Sewer Overflows

In late 2004, the HRPDC staff began implementing an electronic reporting and record keeping system known as the Sanitary Sewer Overflow Reporting System (SSORS). HRPDC staff has provided informational briefings and presentations on this system to a variety of agencies across the state. SSORS enables localities to communicate information about sanitary sewer overflows across departmental lines, allowing for easier reporting. SSORS was the basis for the creation of PARS.

Work continues under the Regional Special Order by Consent with DEQ, thirteen local governments, HRSD and HRPDC. The Order established the framework for sewer system evaluation, flow monitoring, determination of allowable levels of infiltration/inflow, system modeling, and the appropriate balance between system and treatment capacity and collection systems.

As a part of this effort, the regional fats, oils and grease abatement program (HR FOG) was invigorated. A variety of materials for restaurants and residents has been developed to inform the public of proper FOG disposal methods. This is relevant to the stormwater program because of the potential for illicit discharges into the stormwater system.

CONCLUSION

Through the Hampton Roads Planning District Commission, the sixteen 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, supporting both permitted and non-permitted localities alike. 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 twelve localities with VPDES Permits for their Municipal Separate Storm Sewer Systems to comply with permit requirements. Their long history of participating in the Regional Stormwater Management Program enhanced the efforts of the localities that obtained Phase II MS4 Permits in 2003 to move forward cooperatively with permit applications and program development. In fact, their participation in the regional program over the past

decade led to the establishment of the cooperative Phase II Permit component of the regional program.

Since the HRPDC staff also coordinates a number of other regional environmental initiatives, the program allows for effective coordination and regional balancing of the various activities. On several occasions over the last several years, the HRPDC formally endorsed recommendations developed through this coordinated initiative on state water quality and technology standards, funding guidelines, implementation strategies, as well as on state legislation addressing funding needs for water quality improvement programs.

The Regional Stormwater Management Program provides a mechanism through which the strengths of the sixteen local stormwater programs can be mutually supportive. It allows for cost-effective compliance with permit requirements, resolution of citizen concerns with stormwater drainage and water quality matters, and achievement of improved environmental quality throughout the Hampton Roads Region.

HAMPTON ROADS REGIONAL STORMWATER EDUCATION

INITIATIVES

ANNUAL REPORT

Fiscal Year 2011

July 1, 2010 – June 30, 2011

HR STORM

HAMPTON ROADS REGIONAL STORMWATER EDUCATION INITIATIVES

EXECUTIVE SUMMARY

HR STORM, the stormwater education program of the Hampton Roads Planning District Commission (HRPDC), is a coalition of local government staff members who come together to share ideas and pool resources for various educational programs tailored to stormwater management. HR STORM is a subcommittee of the Regional Stormwater Management Committee (RSMC). This committee's focus is to develop and implement successful educational programs promoting stormwater management and pollution prevention throughout the Hampton Roads region. Some of the most recent educational efforts have encouraged watershed-friendly landscaping, proper pet waste management, maintenance of best management practices, and general pollution prevention tactics for homeowners.

HR STORM uses a variety of traditional and social media to reach the residents of Hampton Roads. Print and local television advertisements are the main media sources. Secondary sources are Facebook, Twitter, YouTube, local publications, and web advertisements on newspaper and media station websites.

HR STORM continues to be a regional partner in joint environmental education programming with members of HR FOG (Fats, Oils and Grease), HR CLEAN (recycling/beautification) and HR WET (Water Efficiency Team), now collectively referred to as HR Green. At the start of FY 11, HR Green began its first year of a multi-year contract with the marketing firm Cahoon and Cross. The contract was initiated by the four education committees to re-brand HR Green as Hampton Roads' one-stop shop for environmental information. The contract includes market research and benchmarking at year one, three and five; branding and creative development; website development; and public relations. While the new website askHRgreen.org was under development in FY 11, HR Green used a blog and social media to provide campaign updates and share environmentally friendly tips from subject matter experts. Moving forward, the committees will all share one website, askHRgreen.org, and will use the new [askHRgreen](http://askHRgreen.org) logo.



Through participation in the HR Green Mini-Grant program, the committee reaches its goal of educating and raising awareness of pollution prevention and the importance of water quality among the youth of Hampton Roads. In FY11, \$4,724 was awarded to 15 schools and youth groups working on projects related to the missions and goals of HR STORM.

MEDIA

Cahoon and Cross, consulting firm for HR Green, facilitated contracts with WVBT, WHRO, WTKR, and WVEC for television advertising. The consultant also contracted with Pilotonline.com, dailypress.com, Whro.org, and Wavy.com for online promotions. The television ads appeared during shows with high viewership such as The Today Show, Dr. Oz, Good Morning America, and Rachel Ray. During Earth Week, April 18 – 22, 2011, each HR Green committee had a two-three minute interview with the host of the [Hampton Roads Show](#). Fleta Jackson, Norfolk, spoke on behalf of HR STORM about the role of rain barrels in reducing stormwater runoff. In FY 11, HR STORM also promoted the Chesapeake Club's new website [PlantMorePlants.com](#) by extending the television and online ad schedule in the Hampton Roads market. HR STORM spent a total of \$25,500 on media in FY 11.

Earth Week promotion, April 18 – 22, 2011, Fox 43 WVBT, \$500



Fleta Jackson, NO, discussed the role of rain barrels in preventing stormwater runoff on April 21st.

Plant More Plants promotion, May 9 – 29, 2011, \$10,000



Television: 72 - 0:30 spots

- WHRO-TV PBS
- WHRO-TV Create

Online

- Pilotonline.com
- Dailypress.com
- WHRO.org

HR STORM & HR FOG promotion, May 16 – June 3, 2011, \$15,000



Television: 94 - 0:30 spots

- WAVY-TV NBC
- WTKR-TV CBS
- WVEC-TV ABC



Online

- Pilotonline.com
- Dailypress.com

FY2010-2011 Media Breakdown:

TV and Radio Spots	ADS	REACH	FREQUENCY	Web Banner Ads	IMPRESSIONS	CLICK- THRUS	*CTR
Earth Week - \$500							
Hampton Roads Show- Fox 43	1 feature segment 2-3 minutes	Audience 2,300 people	NA	WAVY.com	156,115	210	.05%
Plant More Plants - \$10,000							
WHRO-TV PBS	72	NA	NA	Pilotonline.com	NA	450	.10%
				Dailypress.com			
				WHRO.org	43,129	74	.18%
HR STORM & HR FOG Promotion "What you put in here..." - \$15,000 (FOG additional \$5,000)							
WAVY-NBC 10	23	Adults 25-54 70.4%	Adults 25-54 3.3	WVEC.com	651,897	179	.09%
WTKR-CBS 3	27	Women 25-49 72.1%	Women 25-49 3.4	Dailypress.com		387	.09
WVEC-ABC 13	42			Pilotonline.com			

*The average Click-Thru Rate (CTR) for an online ad is .02 - .04%. CTR measures the percentage of viewers who click on an ad. The HR Green banner ads remain well-above the national average in all locations.

WEBSITE AND SOCIAL MEDIA

While the askHRgreen.org website was under construction in FY11, HRGreenBlog.com was used to share HR Green campaign updates. HRstorm.org was pointed to the blog and then to askHRgreen.org once the site launched and will no longer exist as a standalone website. The blog also featured a panel of experts who wrote about environmental education topics pertaining to recycling/beautification, Fats Oils and Grease, water conservation, and stormwater management and pollution prevention. The posts pertaining to HR STORM covered [lawn care](#), [illegal dumping](#), [stormwater ponds](#), and [Scoop the Poop](#) among others. During FY 11 the HR Green Facebook page, [facebook.com/askHRgreen](https://www.facebook.com/askHRgreen), Twitter account, [@HRGreen](https://twitter.com/HRGreen), and YouTube account, [youtube.com/HRGreenVA](https://www.youtube.com/HRGreenVA), were re-energized.

The blog was created in January and was integrated into the new website in July, 2011.

- The blog received 4,935 unique visitors from January - July.
- 28% of the visits were direct visits to the site.

- 19% of the visits were directed from Google searches.
- 6% of visitors were referred from Facebook.com.
- 6% of visitors were from email subscription to the blog.
- 5% of visitors were referred from Pilotonline.com.

INFOLINE: (757) 58-STORM

The HR STORM InfoLine, which directs callers to local contact numbers, received 52% fewer calls in FY 11 than in FY 10. The promotional materials contain the 58-STORM number. The committee has decided to maintain the info line through FY 12, and is considering new ways to provide citizens with locality contact information in the future.

FY	CALLS
08	222
09	222
10	253
11	133

TOPICAL CAMPAIGNS

Education of local citizens on the need for clean waterways remains a goal of HR STORM. The committee is able to achieve this through a variety of educational programs on topics such as proper disposal of automotive waste, pet waste, and the maintenance of BMPs.

Plant More Plants Campaign

The Virginia Department of Conservation and Recreation launched the [Plant More Plants](#) campaign by starting with [Facebook](#) and [Twitter](#) accounts in March. The website followed in mid-March and then online ads and TV spots started running March 7, 2011. HR STORM continued the online ads and TV spots from May 9-29, 2011. The campaign generated earned media, or unpaid coverage, through coverage in online newspapers, blog posts and radio talk shows features. The website provides guidance on choosing native plants and their benefits, tips for successful plant growth, landscaping plans, and a blog featuring subject matter experts.

Promotional and Exhibit Materials

HRPDC staff and local representatives distribute promotional items for various events and meetings. A number of trainings and regional meetings occurred where material from HR STORM was made available. This year HR STORM purchased dog waste bag holders, magnets, sticky notes, pens, and flower seeds. The committee also printed a residential brochure that covered stormwater best management practices for homeowners.

HR GREEN PARTNERSHIPS

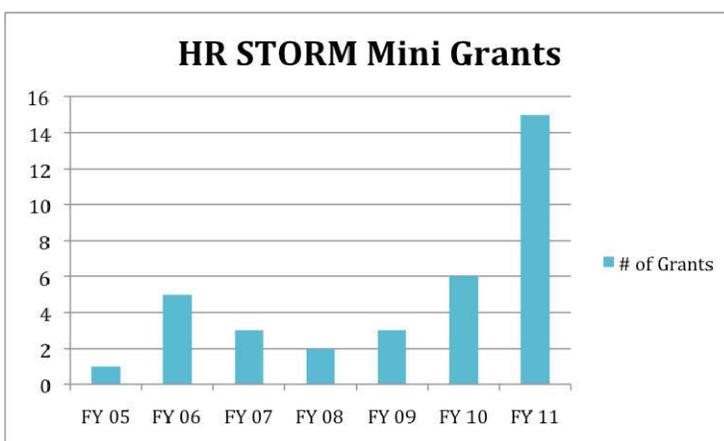


This fiscal year marked the launch of HR Green as the central resource for environmental issues. By using only the HR Green logo and consolidating into one website, each committee benefits from traffic driven to the website. Whether driven to the site by an online ad for plastic bag recycling or a radio ad for Drinking Water Week, once there, people will be intrigued to learn more about environmental topics when they see the colorful, randomly generated “green” tips on each page, the list of upcoming events or all the helpful resources that populate each page.

Newspapers in Education (NIE) – Copies of the *We All Live on the Water* NIE piece for fourth graders were distributed to each school in Hampton Roads school in the fall of 2010. A companion Teacher’s Guide was also distributed.

Mini Grants – The Mini Grant Program is available for schools and youth groups. Teachers and project leads can submit a mini grant application for up to \$500 for an environmental education project that meet the goals of HR CLEAN, HR FOG, HR STORM or HR WET.

In FY11, HR STORM awarded \$4,724 to 15 different schools and youth groups working on projects related to the mission and goals of HR STORM. HR STORM awarded funding to many oyster restoration projects. Funds also supported a Scoop the Poop project and a handful of rain garden projects.



The picture on the left is from Willard Elementary School in Norfolk. The 5th grade class learned about the importance of oysters to the Bay’s health, the local economy, and the estuary’s food web. A majority of the oysters survived and were transported to an existing established reef.



This second picture is from Ocean Lakes High School in Virginia Beach. This project involved students and teachers from various classes as well as local nurseries, city horticulturists and the Department of Landscape Services. Advanced placement environmental sciences students calculated slope of area. Independent study students used software to generate the official plans and design the garden. Art students sketched plants in the garden, and biology and oceanography students learned the importance of rain gardens and their role in protecting local watersheds.



This last picture is from Willoughby Elementary School in Norfolk. The 4th grade class was involved with oyster gardening. The oysters were pulled out once a month to measure growth. At the end of the year, the class transplanted them by boat while also learning about river habitats, crabbing, fishing, and oystering.

CONCLUSION

In conclusion, HR STORM remains focused on the education of all local citizens, including homeowners and businesses, regarding the importance of clean waterways and personal responsibility associated with stormwater pollution prevention. By joining with HR FOG, HR WET, and HR CLEAN in the new askHRGreen.org campaign, HR STORM will greatly broaden its reach and benefit from campaigns led by the other committees that drive people to the new askHRGreen.org site. Once there, they will have quick and easy access to a wealth of environmental topics including stormwater pollution prevention.

We all live on the **Water**



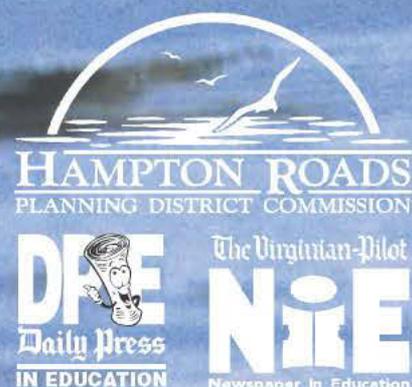
What's Inside

Page 2 What's a Watershed?

Page 9 What's Your Litter IQ?

Page 12 Water-Wise Word Find

Page 17 Do Alligators Really Live in the Sewers?



What's a Watershed?



A watershed is an area of land where all water drains to the same place. When it rains or the snow melts in a watershed, the water drains away and ends up in the nearest river, lake, stream, bay or ocean. Chesapeake Bay's watershed covers six states and 64,000 square miles of land. It stretches from the Appalachian Mountains, to the hills of the Piedmont region, to the Delmarva Peninsula's and Hampton Roads' flat coastal plain. It pours billions of gallons of water into the Atlantic Ocean!

The Chesapeake Bay watershed is home to about 15 million people and several thousand species of plants and animals. Even though you may not see the Chesapeake Bay from your backyard, you're closer than you think! Within 15 minutes, you could probably walk to a stream or river that flows into the Bay.

Fresh Water Bodies

The Many Shapes and Sizes of Water Bodies

Many kinds of water bodies can be part of a watershed. Study the photos and match the pictures with the description of water bodies listed below.



- A. Wetlands** – This area may include fresh and salt water marshes, swamps, wet meadows and small ponds. The area is very close to or level with the water table, which is why it is often wet.
- B. Creek** – It is a small body of flowing water. It is smaller than a river.
- C. River** – It is a body of flowing water. It is larger than a creek.
- D. Lake** – It is a large inland body of fresh water. It can be part of a river system.
- E. Pond** – It is a small inland body of fresh water. It is smaller than a lake.



Does HR Need to Conserve Water?

Even though Hampton Roads seems to have water everywhere, it's still important to conserve this natural resource whenever we can. Follow the steps below, and see why water conservation is so important!

Materials needed: 1000 ml beaker, 100 ml graduated cylinder, 10 ml graduated cylinder, eyedropper, a globe or map, salt, water.

Step #1 – Fill the 1000 ml beaker with water. This

represents all the water on Earth.

Step #2 – Take a look at your globe or map and locate large bodies of water. Where is most of the Earth's water located?

Step #3 – Pour 30 ml of water from the 1000 ml beaker into the 100 ml graduated cylinder. This represents all of the earth's fresh water—only about 3%!

Step #4 – Pour salt into the remaining 970 ml of water in the beaker. This

simulates the water found in the oceans, which is unsuitable for drinking.

Step #5 – Take a look at your globe and locate the North and South poles. Almost 80% of the Earth's freshwater is frozen in ice caps and glaciers!

Step #6 – Pour 6 ml of fresh water from the 100 ml graduated cylinder into the 10 ml graduated cylinder. This represents the non-frozen, fresh water on Earth—about 0.6% of the total! However, not all

of this water is available. Only about 25% of this is surface water; the rest is underground in our ground water system.

Step #7 – Using the eyedropper, remove a single drop of water. This represents the clean, fresh water that is not polluted, frozen, or underground – only 0.003% of the total!

As you can see, this precious drop must be used carefully so all 6.6 billion people on Earth have water to drink and use!

Exercise

The World's Water

Read the following true story about water. Fill in the blanks using the words listed below.

oceans • fresh • ice • wetlands • clouds • poles
drinking • wells • highways • Antarctica • food • power

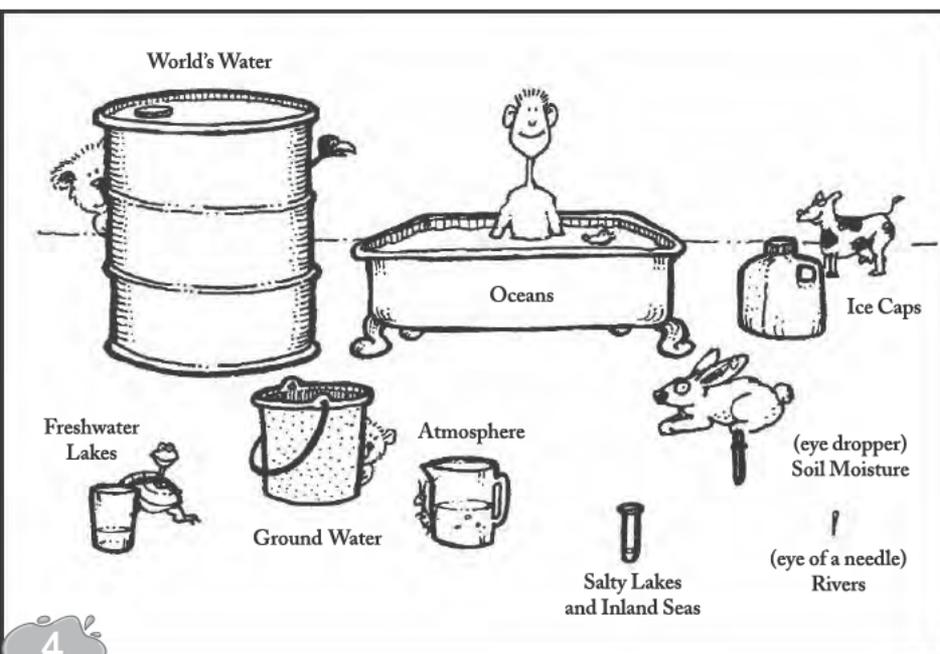
Imagine if you were to measure all the water everywhere on planet Earth: in the oceans, in rivers, lakes, and streams, in swamps and _____, in the atmosphere, under ground, and even in the ice caps at the north and south _____. If you did, you would discover that the Earth's water supply was a whopping 400 billion billion gallons (that's a 4 followed by 20 zeroes). Sounds like a lot, doesn't it?

But nearly all of the Earth's water—a full 97% of it—is salt water stored in the _____. So only 3% of the world's water is _____ and two-thirds of all fresh water is locked away as _____ in the Arctic Ocean and on the continent of _____.

That leaves less than 1% of the world's water available as drinking water. But much of that is water vapor stored in the sky as humidity or contained in _____. And another chunk of the world's water is too deep in the ground for _____ to reach.

Then we come to lakes and rivers. Consider the importance of rivers to humankind. Most early civilizations grew up on the banks of rivers. Our ancestors used rivers as _____ for transportation, as a source of clean _____ water, as a source of fish for _____, and even as a place to build dams for _____. Yet only 0.0001% of the earth's water supply flows in rivers! And only 0.009% is in lakes.

The illustration shows how the world's water supply would be divided if all the water were placed in a 55-gallon drum. How much water flows through rivers? Are you surprised?



Make Your Own Watershed

Make a 3-dimensional watershed of your own, and put it into action!

Materials needed: One sheet of used paper, washable markers, and spray bottle with water

Step #1

Crumple the paper into a ball.

Step #2

Un-crumple the paper (but don't flatten!), forming mountains with ridges and peaks. The low-lying areas are rivers and streams where water drains. In Hampton Roads, all the rivers and streams flow into the Chesapeake Bay or the Albermarle and Pamlico Sounds.

Step #3

Color along the ridges and peaks, using as many colors as you want. The colors represent potential water pollutants – sediment, pesticides, fertilizers, animal waste, fuel and oil, etc.

Step #4

Pretend it is raining by spraying water onto the tops of the mountains.

Step #5

Watch what happens to the pollution when it becomes runoff in your watershed!

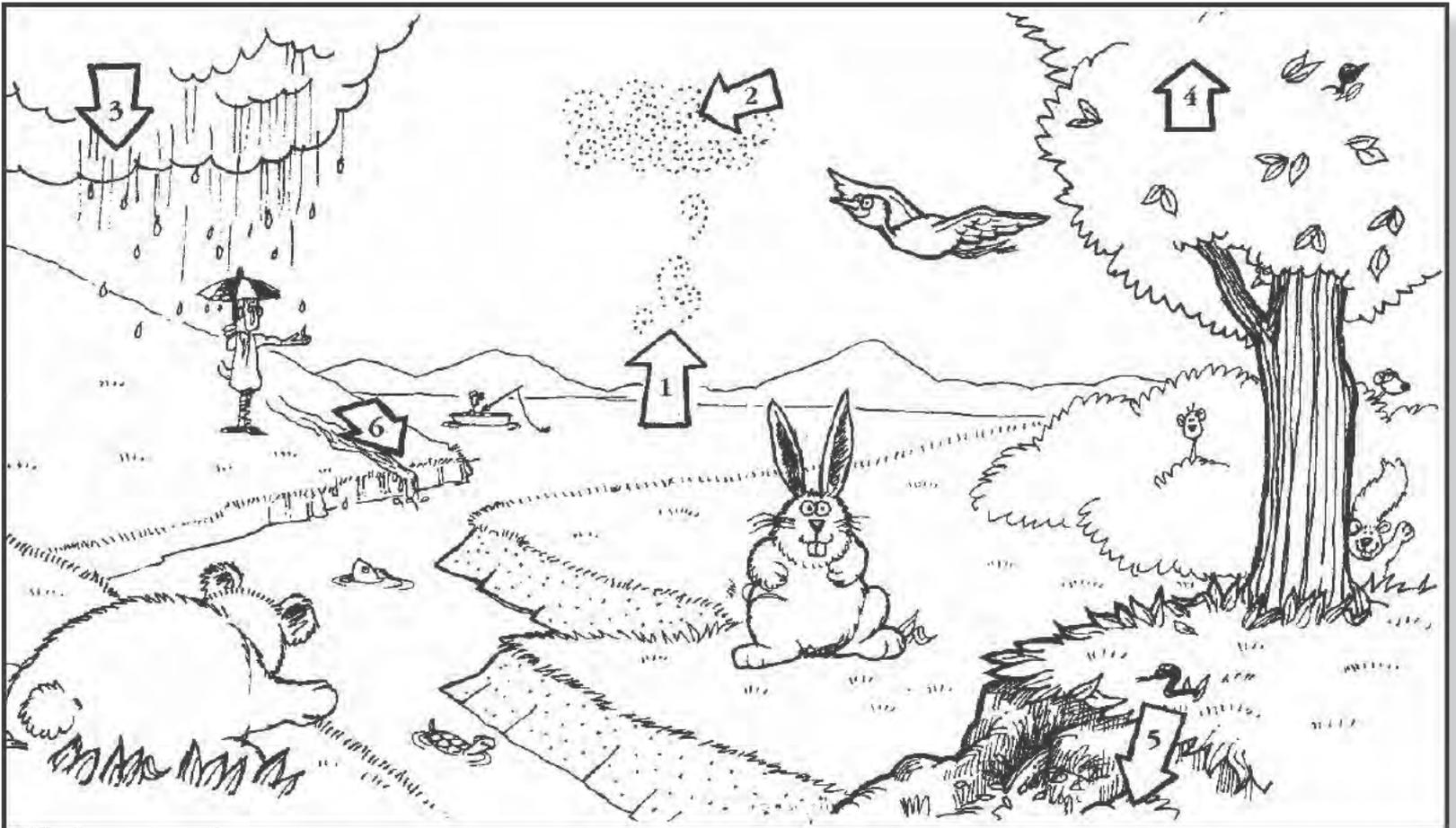
The Water Cycle

Right now, rivers like the Mississippi and the Amazon are dumping billions of gallons of fresh water into the oceans. Yet the oceans never fill up, rivers always have new water to bring to the ocean, and your bathroom faucet never runs out.

How is this possible? The earth's supply of water keeps moving through the sky, the sea, and land. This process is called the water cycle.

On this page we've described the parts of the water cycle. Can you match every word to its proper arrow?

- # _____ **Precipitation:** Water in the atmosphere falls to the ground as rain, snow, sleet, or hail.
- # _____ **Transpiration:** Water is released through the leaves and stems of plants.
- # _____ **Percolation:** Water soaks through layers of soil, usually continuing down to the ground water or water table and into aquifers and wells.
- # _____ **Condensation:** Water vapor changes from a gas into a liquid.
- # _____ **Runoff:** Water falls as rain and stays on the surface of the earth, moving from higher to lower elevations.
- # _____ **Evaporation:** Water is converted from its solid or liquid state into a gas, which is called water vapor.



The Big Question

Wait a minute! If the earth's water supply has always been 400 billion billion gallons, then the earth's water supply will always be 400 billion billion gallons. And since we use the same water over and over again, why should we conserve it? If the earth's water supply flows through the water cycle endlessly, why might we still have to consider saving it? Discuss this as a class.

What Impacts our Watershed?



Water Pollution in the Chesapeake Bay: Excess Nutrients are Bad for the Bay

Nutrients—like nitrogen and phosphorus—are needed for the growth of all living things in the Chesapeake Bay. But too much nitrogen and phosphorus damage the health of the Bay's water. Nutrient pollution is the most serious pollution problem for the Bay because it causes algae blooms that eat up oxygen in the water, so that fish and shellfish die. Excess nutrients add to the Bay's "Dead Zone" and create algae blooms that block

sunlight to underwater grasses, so that they can't grow and produce oxygen for the plants and animals living in the Bay. In the early 1600s, the Bay was healthy. The land around the Chesapeake Bay was mainly made up of forested areas, wetlands, and open spaces that soaked up and removed these nutrients. Over time, farms, factories, cities, and suburbs have replaced much of these natural filters, and allow pollution to flow directly into waterways. This

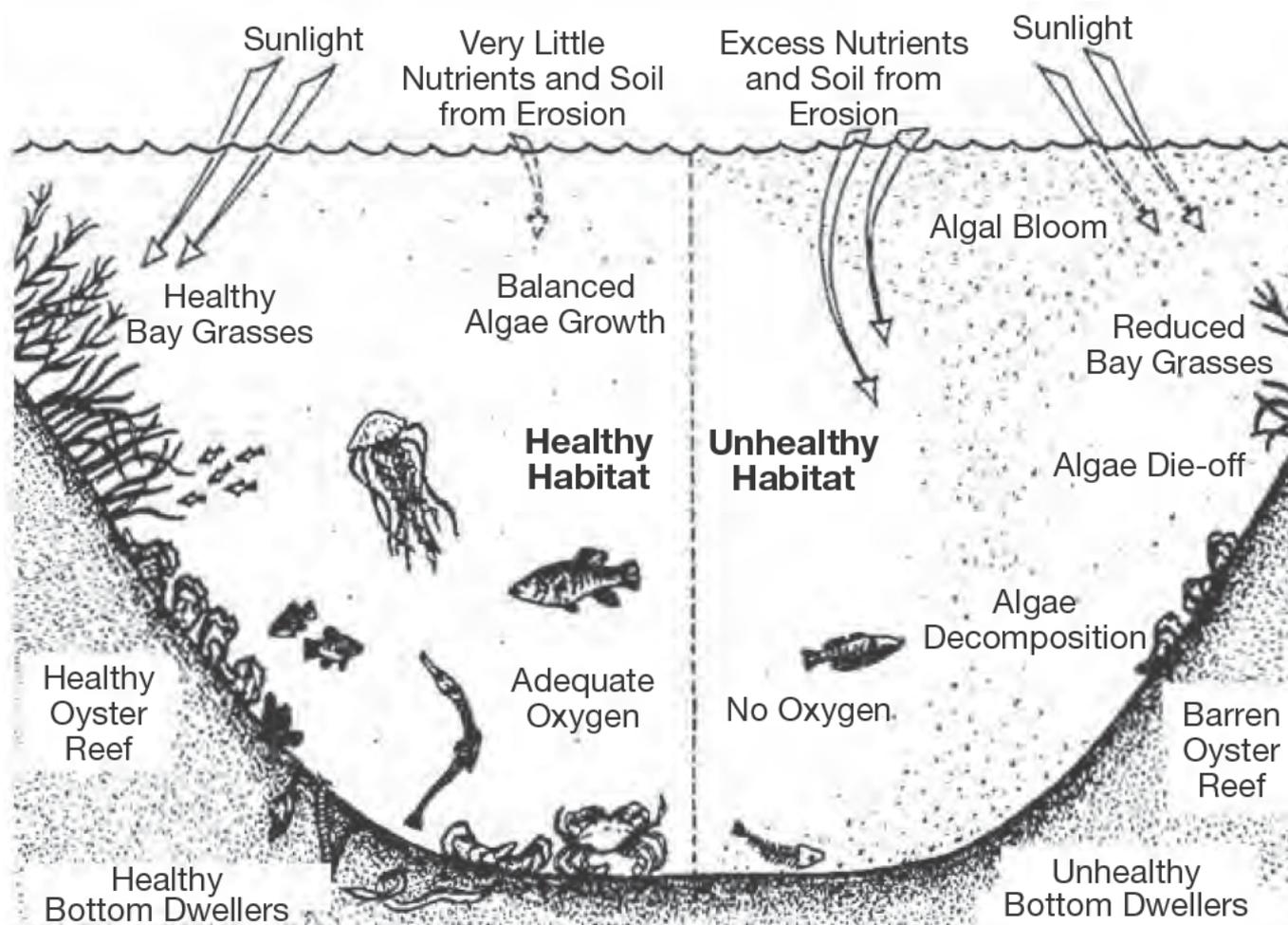
has damaged the water quality so severely that the Chesapeake Bay is on the EPA's "Dirty Waters" list. As development increases and populations grow, the amount of nutrients entering the Bay's waters continues to increase. Roughly 300 million pounds of polluting nitrogen reaches the Chesapeake Bay every year!

Nutrients also come from natural sources like decaying leaves and plants in forests and wetlands. Most nutrient

pollution comes from humans (sewage treatment plants), large-scale animal operations (chicken or hog farms), agriculture and air pollution (vehicle exhaust and smoke stacks from manufacturers, power plants and factories).

Other sources include septic systems, runoff from roadways, land development, and residential and commercial lawn fertilizers. The #1 source of nutrient pollution to the Chesapeake Bay comes from agricultural runoff, which is responsible for 40% of the nitrogen and 50% of the phosphorus entering the Chesapeake Bay.

Healthy vs. Unhealthy Water Quality



Make the Connection:

- Name two things the healthy picture has that are missing from the unhealthy side.
- What do plants produce?
- Why do you think that few plants can result in few animals?
- What causes the plants to die in the unhealthy picture?
- What are some things we can do on land to prevent that?

What Can You Do to Protect Your Watershed?

Make Today and Every Day a Waste-Free Lunch Day

Get the Ball Rolling—Organize a Waste-Free Lunch Day!

- 1. Plan a Waste-Free Lunch Day.** Before holding a Waste-Free Lunch Day at school, check to see if cafeteria space will be available. Work with the school administrators, custodians, and cafeteria staff to arrange for the proper recycling and disposal services for the waste-free lunch. Make sure they schedule a pick-up time on the day of the event. A week before the event, send home flyers or checklists with tips on how to pack waste-free, along with sample menus.
- 2. Get the Message Out!** Before the Waste-Free Lunch Day, educate students and teachers about the event. Students can make their own waste-free lunch posters in art class, or an announcement can be made over the school intercom system. Use the school newsletter to educate parents about the event and how they can help.
- 3. Have a Waste-Free Lunch Day.** On the Waste-Free Lunch Day, have each student and teacher bring in a waste-free lunch (or as close to waste-free as possible). Work with the school cafeteria staff to plan a “waste-free lunch” for students who don’t bring in their own from home. During the school-wide waste-free lunch, have students and teachers share how they made their lunches waste-free.
- 4. Don’t Stop Here.** While planning the Waste-Free Lunch Day, work together with school administrators, teachers, support staff, and community public health services to put leftovers to good use:



Reduce food waste: Feed hungry people with unspoiled, wholesome food. Donate this food to local food banks, soup kitchens, and shelters.



Provide food to animal farmers or zoos: Farmers and zookeepers can feed their animals with leftovers.



Compost food to fertilize plants: Composting is a good way to convert food scraps that cannot be fed to people or animals into a valuable nutrient source for plants and soil organisms. For school environments, worm composting, also known as vermiculture or vermicomposting, may be the best method to use. Composting on a large scale is a complicated task. Please work together with local solid waste and health authorities if you would like to undertake such a task.

- 5. Measure Success.** Create a chart to determine the success of the Waste-Free Lunch Day. List all the items included in each of your classmates’ lunches before the Waste-Free Lunch Day and compare the list with the items included on Waste-Free Lunch Day.

- 6. Share Your Story!** Help others join the waste-free lunch craze by sharing your success story! E-mail your story and pictures from your Waste-Free Lunch Day to EPA at rcc-challenge@epa.gov. In your email, include your name, your school’s name, an explanation of what you did to make your Waste-Free Lunch Day a success, and any photos you would like posted on the EPA Web site. Photos should be at least 5 inches by 7 inches and 72 dots per inch. Make sure you have your school’s permission before sending photos to be posted on the EPA Web site.





Pack a Waste-Free Lunch



Exercise

What's Your Litter IQ?

Think you know a thing or two about trash? Take the quiz below and find out just how litter-savvy you are!

1. What is Litter?

- Misplaced trash made by humans
- Misplaced trash used by humans
- Misplaced trash made and used by humans
- Any form of pollution – solid waste, noise pollution, etc.

2. Where does litter come from?

- Household garbage, commercial dumpsters, construction/demolition sites
- Motorists, pedestrians, loading docks, uncovered trucks
- Canada
- A and B

3. What is the most common piece of litter in the United States?

- Bottles
- Cigarette butts
- Plastic bags
- Cans

4. Where does nearly all of the trash in the Chesapeake Bay come from?

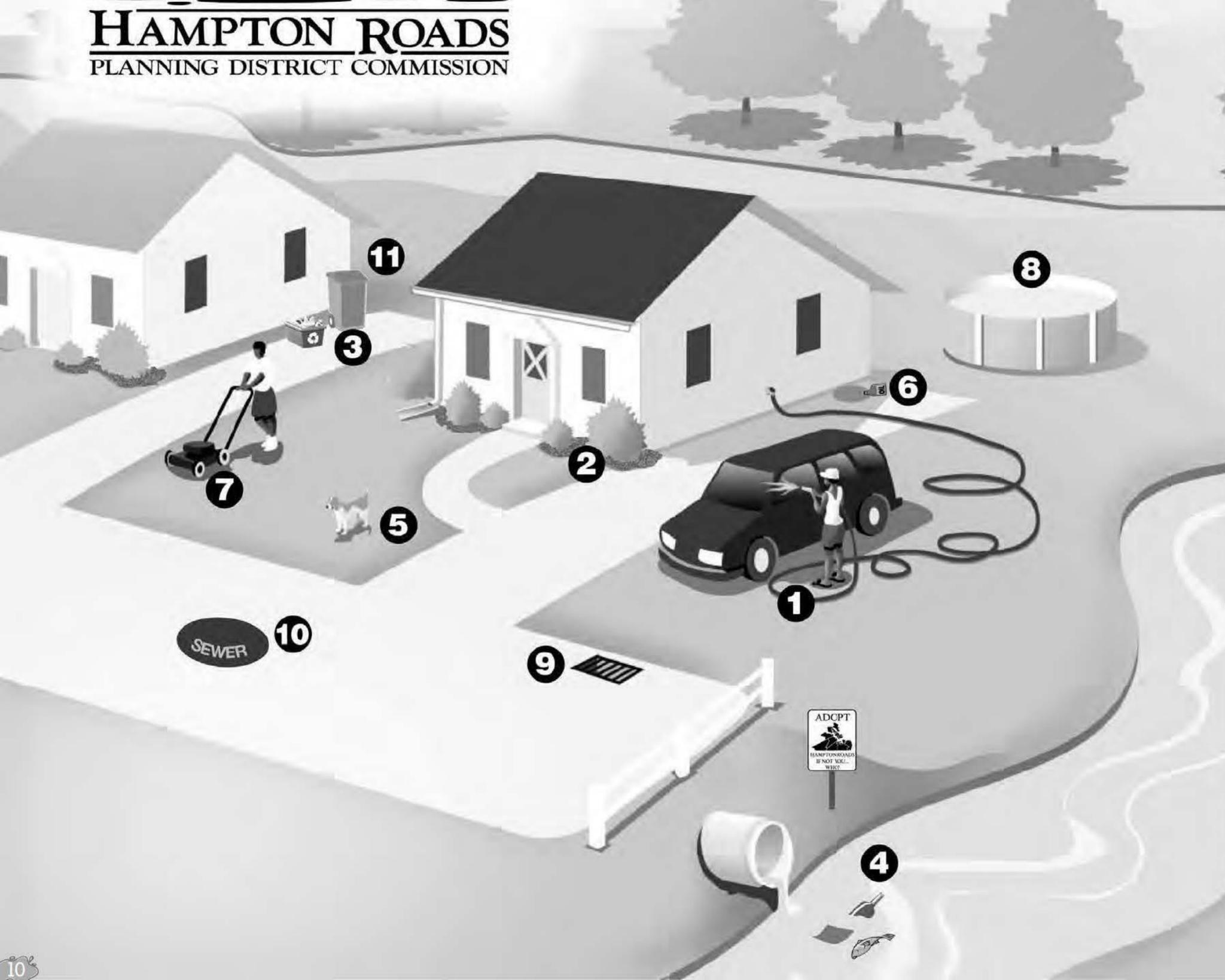
- Boats and ships
- Tourists
- Wind
- Storm drains

5. How can you help protect the Chesapeake Bay?

- See the litter, pick it up!
- Put trash in the right place!
- Keep storm drains free of chemicals and trash!
- All of the above



It All Begins With You.



- 1 Conserve water!** Save 100 gallons of water when washing your car by using a hose nozzle. By washing your car in the grass, you'll water your lawn while reducing the amount of polluted water flowing to area storm drains.
- 2 Mulch!** Use a layer of mulch around plants to reduce evaporation and weeds. Plant native and drought tolerant shrubs and flowers that require less water. Log onto www.hrwet.org to find other ways to save water. Support your local compost facilities by buying mulch and compost.
- 3 Reduce, Reuse, Recycle!** Recycling saves natural resources and landfill space and reduces pollution. Recycling in Hampton Roads diverts tens of thousands of tons of waste materials from local landfills every year.
- 4 Volunteer** to help during neighborhood and local waterway clean up events. Litter and yard debris kills wildlife and pollutes area waterways. Log onto www.hrclean.org to find out about events in your area.
- 5 Scoop the Poop!** Pet waste contaminates waterways, adding excess nutrients and harmful bacteria, which can spread disease to humans.
- 6 Recycle used oil!** One gallon of oil pollutes one million gallons of water. Log onto www.hrstorm.org to find recycling centers.
- 7 Mulch Mow!** Save time, money and water. Mow your lawn so that the blades of grass are chopped into smaller pieces and deposited back into the turf. This will promote a healthier lawn, requiring less fertilizer and other harmful chemicals.
- 8 Dispose of chemicals properly!** If you must empty your swimming pool, direct the water across your lawn - not down the storm drain - once chemicals have dissipated. The water will soak into the lawn and be further filtered in the process. Also, cover the pool when it's not being used to reduce evaporation. Discard old chemicals at local household chemical collection facilities.
- 9 Only rain down the storm drain.** Storm drains empty directly, without treatment, into area waterways, making it important to keep them clean and free of litter, yard and household wastes. Keeping them clean and clear also prevents clogging which can lead to flooding during rain storms.
- 10 Cease the grease.** Pour used cooking grease and oil into a container and freeze. On trash day, throw the hardened grease away. Pouring grease down drains leads to sanitary sewer overflows that pollute the environment.
- 11 Trash it!** Scrape food scraps into the trash, not down the garbage disposal. You'll keep your pipes clear and prevent a sewage backup.

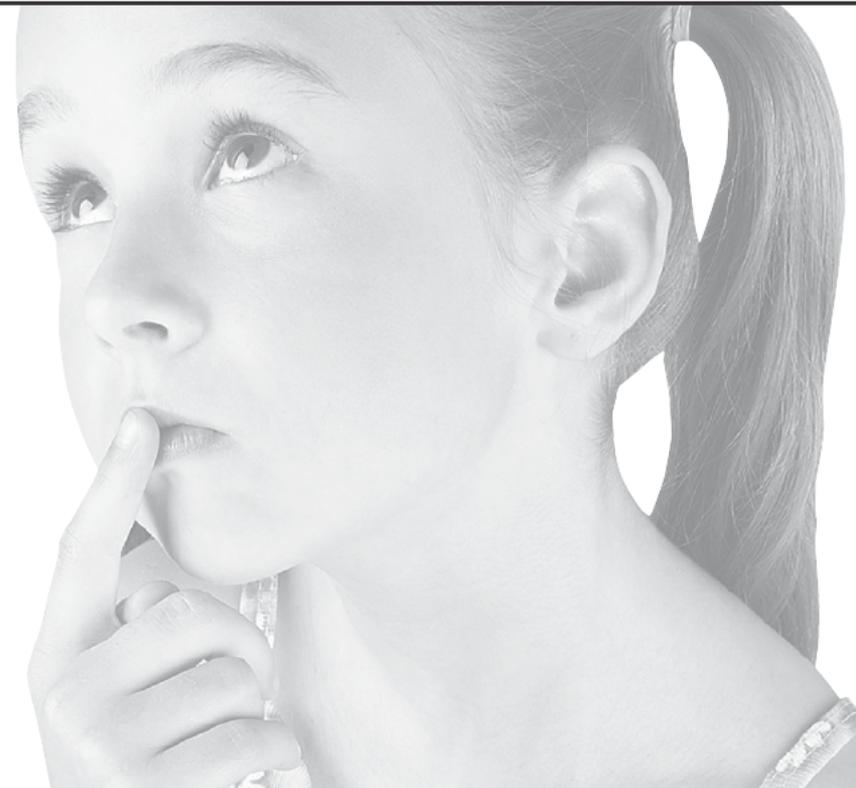
Using Water Wisely

Exercise

Water-Wise Word Find

These tips will teach you and your parents how to use water wisely. When you've finished reading the tips, see how many of the bolded words you can find in the puzzle.

1. When washing **DISHES** by hand, don't let the water run while rinsing.
2. Run only **FULL LOADS** in your washing machine and dishwasher.
3. **WATER** plants and grass early in the day, when temperatures are cooler and winds are lighter.
4. Wash your **PRODUCE** in the sink or a pan that is partially filled with water instead of running water from the tap.
5. Use a **BROOM** instead of a hose to clean your driveway or sidewalk.
6. Don't forget to check faucets, pipes, and hoses for **LEAKS**.
7. Take **SHORT SHOWERS**. Keep your shower time under 5 minutes.
8. Don't use running water to **THAW** food.
9. Grab a wrench and fix that leaky **FAUCET**.
10. Turn faucets off **TIGHTLY** after each use.
11. Install low-flow **SHOWERHEADS**.
12. **SOAK** your pots and pans instead of scrubbing them clean under running water.
13. Don't water your lawn on windy days: **SIDEWALKS** and driveways don't need water.
14. Turn off the water while you **BRUSH** your teeth.
15. Cut back on pre-rinsing if your **DISHWASHER** is new. Newer models clean more thoroughly than older ones.
16. **LANDSCAPE** with trees and plants that don't use much water.
17. **INSULATE** hot water pipes so you don't have to run as much water to get hot water to the faucet.
18. Drop that tissue into a **TRASHCAN** instead of flushing it.
19. Use a **HOSE NOZZLE** and turn off the water while you wash your car.
20. Listen for **DRIPPING** faucets and toilets that flush themselves.



Conservation Crossword

On page 6, we asked the “Big Question.” If the same water is used over and over, why do we bother conserving it? To answer that question, read the following article. When you’re done, fill in the crossword puzzle using words from the article.

The water we drink is as old as the earth itself. Every moment of every day, water is moving through the water cycle. It is endlessly evaporating, condensing, and precipitating. But that doesn’t mean there is always enough water for people to use.

The earth will always have 400 billion billion gallons of water—in the oceans, in rivers, in the ice caps, under the ground, and in the atmosphere. But the amount of water in

any one place can always change.

For example, Hampton Roads usually gets about 44 inches of rain each year. But in 2007, we had a drought. It was so dry that the Governor asked all Virginians to use less water. Many people in Virginia drink water from wells. That water comes from under the ground. It is called ground water. If people use the ground water faster than nature can recharge it, the wells will run dry.

Even large rivers can run dry when their water is used for irrigating crops, raising cattle, and providing drinking water.

Pollution can make water undrinkable. Many things can find their way into lakes, rivers, and ground water. Motor oil, gasoline, fertilizers, pesticides, sewage from humans, and animal waste can all harm our drinking water sources. The earth’s water supply stays the same, but it is getting harder to get

clean water to the world’s population. That’s why water conservation is so important.

Discussion questions:

Can you name at least three reasons why it’s important to conserve water?

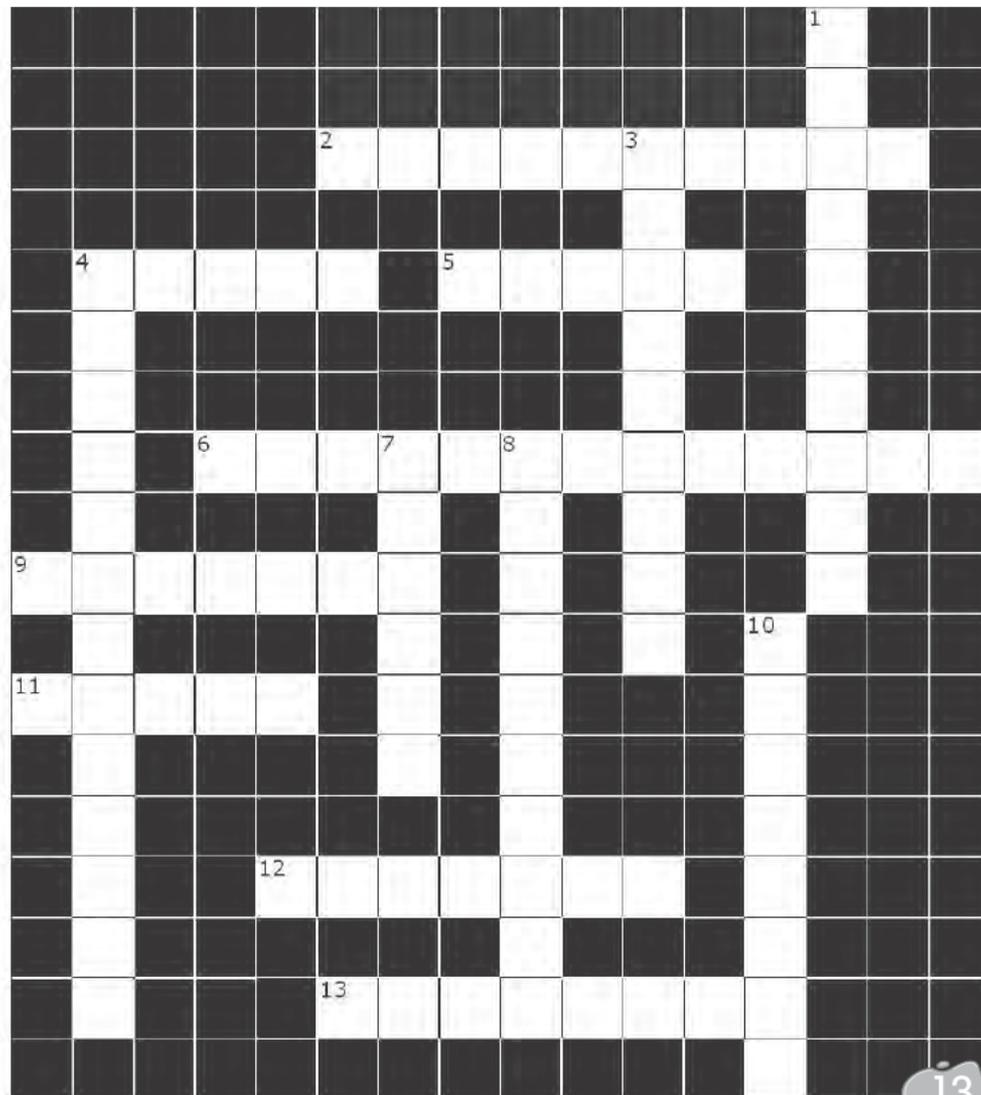
Many people drink water from wells. How does water get into the ground? As water is pumped from wells, how does nature replace it?

Across

- 2. The envelope of air surrounding the earth
- 4. A series of events or operations that recur regularly and usually lead back to the starting point
- 5. Holes dug into the earth to reach a supply of water
- 6. Condensing from a vapor and falling as rain, sleet, or snow
- 9. A long period of dry weather
- 11. The planet on which we live that is third in order from the sun
- 12. 1,000,000,000
- 13. The act of taking liquid into the mouth for swallowing

Down

- 1. Supplying land or crops with water by artificial means
- 3. Something that contaminates or makes impure
- 4. The careful protection or wise use of a natural resource
- 7. Domesticated four-legged animals usually raised on a farm or ranch
- 8. The total number of people living in an area
- 10. To fill again; replenish

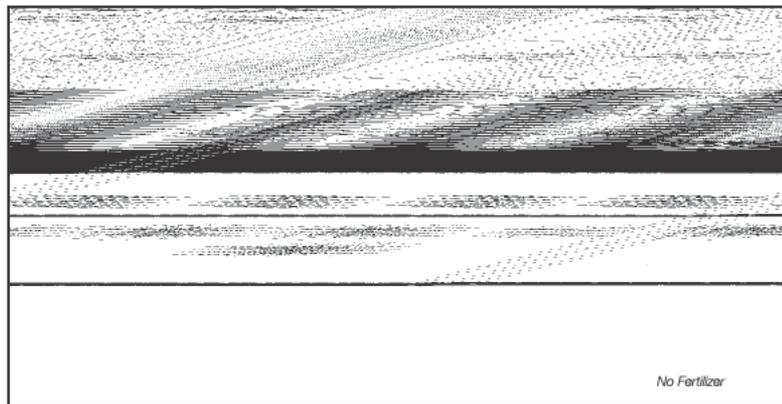


Bay In a Beaker: Mini-Bay Simulation

Question: How does the amount of fertilizer and light affect the growth of algae in water?

Hypothesize! If I increase the amount of fertilizer in water and decrease the amount of light, then the growth of algae will increase or decrease. (circle one)

1. Fill four beakers or jars with 750 ml of stream or pond water.
2. Weigh and then add 10 mg of fertilizer to one beaker.
3. Weigh and add 25 mg of fertilizer to the second beaker.
4. Add 10 mg of fertilizer to a third beaker and completely cover it with aluminum foil. (This is the control for the light!)
5. Don't add anything to the fourth beaker. (This is the control for the fertilizer.)
6. Label and date each beaker.
7. Place all four beakers together on a sunny windowsill.
8. Observe each container each day for 10 days.
9. Record your results daily.



Conclusion

Relate the water in the beakers to the water in our ponds, streams, and the Chesapeake Bay. How could the abundance of algae affect submerged aquatic vegetation? Crabs, oysters, and fish? How do nutrients get into the Chesapeake Bay? Where do they come from?

How can we reduce our inputs of nutrients to the Chesapeake Bay?

Picture a Healthy Bay

Directions: What do you think a healthy bay should look like? Draw a picture in the frame. See how many Bonus Points you can earn by including items from the Bonus Items box. Each item is worth 5 points.

BONUS ITEMS

- Yourself picking up litter
- Shoreline plants
- Someone "scooping the poop"
- Trash cans
- Someone raking leaves instead of clogging storm drains
- People enjoying the water
- Bay animals (5 points for each kind of animal you draw)



_____ **Total Bonus Points**

Stormwater

Have you ever thought about where rain or snow goes after it falls? According to the laws of gravity, stormwater continues to flow to lower ground. An observation that you may have made is that stormwater seeps into your lawn or runs down the curbside drain. Although it appears to be a

simple process, it's much more complicated than that! Water in the form of precipitation can be a powerful force in not only shaping our landscape, but replenishing ground water, rivers and lakes.

Sounds good, right? Only if we do our part to keep our stormwater clean. Once water falls as

precipitation, it picks up whatever is on the ground and carries it to its new location. For example, if a piece of trash is left on the ground, then it can wind up in your local stream, lake or pond. And that's not all! Stormwater runoff picks up every other form of pollution as well. In fact, stormwater pollution is one

of the leading causes of water pollution in America and affects every part of Virginia's watershed systems. It's important to understand that most people do not even realize that they are polluting or recognize the long-term effects of their short-term actions!

Let's Take A Closer Look

Litter

Litter is carelessly thrown on the ground in our neighborhoods and in public areas. Litter, such as cans, paper or plastic bags, sometimes called gross pollutants, is just one of the



types of pollution that spoil the beauty of our community and waterways. A great deal of street litter is plastic and takes thousands of years to break down. Marine animals mistake plastics for food or become tangled up in it. Recycle as much trash as possible and dispose of trash in trash receptacles. Encourage others to do the same!

Chemical Pollution

Who would think that soaps and fertilizers could play such a big role in polluting our water? Remember that soaps and fertilizers contain nutrients that promote algae growth! When people wash their cars, the soapy water finds

its way into the storm drain system. Fertilizers and pesticides designed to make your yard beautiful hurt the waterways and critters that live in them. Fertilizers run off the land into storm drains, roadside ditches, and nearby waterways and cause algae to grow very quickly in the water. These algae blooms reduce the levels of oxygen available for fish to breathe! Just as rapidly as the algae bloom, they die, and decomposition occurs. Without oxygen in the water, the fish begin to die!

Did you know that one gallon of motor oil can contaminate 1,000,000



gallons of water? Motor oil or antifreeze can damage or kill underwater plants and animals. Never pour used motor oil or antifreeze down a storm drain, onto the soil, or into a waterway. Put used oil or antifreeze in a sturdy container and take it to a local automotive store or household hazardous waste facility.

Erosion

Hampton Roads is a rapidly growing region! As the population grows, so does the demand for more roads and homes. When



new roads are constructed and neighborhoods are developed, trees and plants are removed or disturbed. Soil that was once stable can be easily washed into nearby lakes and streams by rain. This soil makes the water muddy and can suffocate aquatic life, clog fish gills, and cut off sunlight that underwater plants need to grow. You can help by planting trees or leave native grasses and shrubs along a stream bank to reduce erosion. Plants prevent erosion by keeping soil where it belongs!

Beach Closures

Beach water becomes polluted when rainwater washes pollutants (like animal waste, fertilizer, pesticides, and trash) from yards, farms, streets, and construction sites. Pollutants can also come from sewage treatment plants and septic tanks that are not working right.

The pollutants cause microorganisms to grow in the water. Microorganisms are tiny living creatures that are too small to see with your eyes, so you can't tell if the water is clean by looking at it. Not all of them are bad, but some can make you sick. Some microorganisms at beaches are bacteria, viruses, worms and protozoa.

Bacteria can lead to infections, diarrhea, and stomach aches. Viruses can cause fever, colds, and intestinal diseases. They can also make it hard for us to breathe. Some symptoms of illnesses caused by worms are coughs, chest pains, fever, vomiting and restlessness, while protozoa can cause intestinal diseases, stomach cramps and a serious disease called dysentery.



Grease Does That?

When fat, oil, or grease is poured down the drain, it sticks to pipe walls and hardens. It can also stick to other solid things in the sewer system, forming giant chunks of grease that eventually clog the pipe. When that happens, wastewater (that's "poop" and "pee water" to you and me) can back up into your home through your sink and shower drains. Or, it can overflow at a man-hole in the street, polluting the environment and flowing into the same water you use for fun stuff like fishing, sailing and surfing.

Exercise

Fact or Fiction?

Here are a few of the most common myths about grease and drains.

It's OK to pour grease down the drain as long as . . .

. . . I use the garbage disposal. **Fiction.** The garbage disposal only grinds up stuff before passing it into your sewer pipes.

. . . I chase it down with a dose of dish soap. **Fiction.** It's true that soap breaks up

grease. You see it happen every time you help wash the dishes. But what you don't see is what happens in your sewer pipes. Eventually, soap loses its effectiveness and grease hardens and sticks on pipe walls. (Think about bacon grease that has cooled off!) Gross!

. . . I run hot water. **Fiction.**

This myth is similar in logic to chasing grease down the drain with soap. Eventually, the water will cool, and the grease will harden.

. . . it is a liquid at room temperature. **Fiction.** Liquid cooking oils like the ones you use for frying fries float on wastewater and easily stick to sewer pipes. The oily film can collect food

particles and other solids and begin to create a blockage in the sewer pipe.

FACT: The best way to dispose of cooking oil and grease is to pour it into a heat-safe container and store it in the freezer. An old soup can is perfect for this! On trash day, throw the can away, hardened grease and all!

Three Tips to Avoid Calling a Plumber

If your drains are getting clogged with oil and grease, you may need a plumber to make things work right again.

Plumbing repairs are expensive – and it's money your family could use on other stuff – like YOU!

Tell your mom or dad about these tips to avoid plumbing repairs:

1. Give your garbage disposal a vacation. Throw scraps and leftovers in the trash.
2. Tell your parents to "Can it!" Pour used cooking oil, drippings, and other fats into a can—not down the drain. Store the can in the freezer until trash day, and then throw it away.
3. Wipe greasy pots, pans, and plates with a paper towel before washing. Soap and hot water only move grease further down the drain before it hardens and causes a blockage.



Saving the World with French Fries

An interview with Justin Carven, owner of a business that sells kits that let diesel cars run on vegetable oil.

There are lots of uses for fats, oils, and greases. Rendering companies collect used grease from restaurants and process it for use in animal feed, cosmetics, and soap. Some cars can even run on used fryer oil instead of gas!

A typical fuel tank holds 15 gallons. Where do people get that much vegetable oil? Most of our customers are using recycled cooking oil from restaurants.

So I can get all the fuel I need at the local fast-food joint? Restaurants can produce as much as 100 gallons of waste oil per week, which they're willing to give away. Plus, the converted vehicles have one tank for diesel and one for vegetable oil - so you have backup fuel.

How far will a tank take me? Vegetable oil

is similar to diesel. Many diesel cars get 40 miles per gallon, so a tank should take you 600 miles.

Will my car smell like fries? It will smell like food cooking, but not what was cooked in that oil.

How much does the kit cost? It starts at \$795 and includes a manual and all the parts to install it yourself. To have a professional install it will run \$500 to \$1,000.

Is using your kit a violation of the Clean Air Act? Any aftermarket automotive product must go through an

evaluation process with the Environmental Protection Agency to be certified - we're in the process of doing that.

Could customers be fined in the meantime? The EPA has never fined anyone for using vegetable oil.

How many kits have you sold? We've sold about 3,000 conversion kits since I founded the business six years ago. Sales broke \$1 million last year.

What are the benefits? Besides cheap fuel, there are incredible environmental

benefits. You're putting less carbon dioxide into the atmosphere than plants take out.

Is this a step toward curing our "addiction to oil"? I believe so. It's still going to be an addiction; it's just going to be an addiction to something a bit healthier for us. **For more information, go to www.greasecar.com.**

*- Interview by Jessica Anderson
From Kiplinger's Personal Finance magazine,
December 2006*

Do Alligators Really Live in the Sewers?

A well-known urban legend, the sewer alligator, is that of giant alligators or crocodiles residing in sewers, especially of major

metropolitan areas. Urban legend claims baby pet alligators, flushed down toilets by tourists returning from Florida, continue to

live and flourish in the pipes below.

There have always been stories of creatures found in our sewers, but alligators

in the sewers are just an urban legend... aren't they?

This alligator was discovered in a sewer in Mississippi during the effort to assess and clean the main following Hurricane Katrina in the Fall of 2005. Experienced people aided in gaining control of the reptile and arranging for its physical removal from the sewer. The alligator most likely entered the sewer through an opening/wash-out of the main - a break likely caused by the physical/erosive forces of the hurricane.

Source: Tim Ware of Garner Environmental Services, Inc. (of Lytle, Texas) and www.sewerhistory.org.



Vocabulary

Nutrient - a substance such as nitrogen, phosphorous or potassium that is needed for the survival, growth, and development of an organism

Reuse - to use again especially in a different way or after reclaiming or reprocessing

Aquifer - an underground layer of rock or soil that holds water

Overflow - excess water that spills out

Sanitary Sewer System - an underground system of pipes used to carry wastewater or sewage to a wastewater treatment plant

Condensation - the process of water changing from a gas into a liquid or the water that results from the process

Percolation - the process of water soaking deep into the ground through layers of soil, usually continuing down into the aquifers

Solid waste - trash or litter from places of human habitation

Conserve - to use wisely; to preserve or save

Pollute - to contaminate an environment or make it impure, especially with man-made waste

Transpiration - the process of water being released into the air through the leaves and stems of plants

Decompose - to break into basic parts; disintegrate

Precipitation - the process of water falling to the ground as rain, snow, sleet, or hail

Wastewater - the used water and water-carried solids from homes and business that flow in sewers to a wastewater treatment plant. Also called sewage

Ecosystem - all organisms and their nonliving environment within a defined area

Recharge - to refill, refresh, or restore; the process by which rainwater seeps down through the soil into an aquifer

Watershed - an area of land that all drains to the same body of water

Estuary - a place where fresh and salt water mix (e.g., a bay, salt marsh); a place where a river enters an ocean

Recycle - to process waste, glass, cans, paper, and other goods in order to regain the material for human use

Wetland - an area of land that is wet during some or all of the year and may include fresh & salt water marshes, swamps, wet meadows and small ponds

Evaporation - the process of water being converted from its solid or liquid state into a gas, which is called water vapor

Reduce - to lessen in size, amount, extent, or number

Grease - animal fat in a melted or soft state; oily or fatty matter of any kind

Ground Water - water that collects or flows beneath the Earth's surface and fills up spaces in the soil and between rocks

Litter - man-made and man-used misplaced trash

Main - a large pipe which carries either water or sewage

Manhole - a hole (usually with a flush cover) through which a person can gain access to an underground structure, such as the sanitary sewer system

Non-Point Source Pollution/Stormwater Runoff - the part of the precipitation, snow melt, or irrigation water that appears in surface streams, rivers, lakes, drains, or sewers. Runoff may be classified according to speed of appearance after rainfall or melting snow (direct or base runoff) or according to source (surface runoff, or ground-water runoff)

Websites

Hampton Roads Planning District Commission – www.hrpdcva.gov

HR CLEAN – www.hrclean.org

HR STORM – www.hrstorm.org

HR WET – www.hrwet.org

Children & Nature Network – <http://cnaturenet.org>

Environmental Kids Club – www.epa.gov/kids

Environmental Protection Agency – www.epa.gov

Get Wise – www.getwise.com

H2OUSE: Water Saver Home – www.h2ouse.org

KABMan – www.kabman.org

Keep America Beautiful – www.kab.org

Pain in the Drain – www.paininthedrain.com/cartoons.aspx

Recycle it Now – www.recycleitnow.net

Save The Bay – www.savethebay.cbf.org

The Arbor Day Foundation – www.arborday.org

The Story of Drinking Water – www.vbgov.com/sites/pu/kids/html/story.htm

US Geologic Survey's Water Science for Schools – www.usgs.gov/edu

Use Less Stuff – www.use-less-stuff.com

Virginia Department of Environmental Quality – www.deq.virginia.gov

Virginia Naturally – www.vanaturally.com

Water Cycle Model – www.projectwetusa.org/mas/watermodels.html

Water Use It Wisely – www.wateruseitwisely.com



Answer Page

PAGE 2:
Bodies of Water

- 1. E 4. D
- 2. A 5. C
- 3. B

PAGE 6:
The Water Cycle

- # 3 Precipitation
- # 4 Transpiration
- # 5 Percolation
- # 2 Condensation
- # 6 Runoff
- # 1 Evaporation

PAGE 4:
The World's Water

- wetlands
- poles
- oceans
- fresh
- ice
- Antarctica
- clouds
- wells
- highways
- drinking
- food
- power

PAGE 9:
What's Your Litter IQ

- 1. **C.** These are things like bottles, cans, cigarette butts, paper products, nearly any kind of trash you see on the ground that doesn't come from, or belong in, nature.
- 2. **D.** Litter comes from a variety of sources
- 3. **B.** Cigarette butts
- 4. **D.** 80% of water debris starts out as litter on land, which is washed into local waterways through storm drains when it rains.
- 5. **D.** All of these actions will help protect the Chesapeake Bay

PAGE 12: Water-Wise Word Find

PAGE 13: Conservation Crossword



This publication was paid for, in part, by funding from the Chesapeake Bay License Plate Fund. Buy yours today and become a "Friend of the Chesapeake"!

The Chesapeake Bay Watershed

Formed more than 12,000 years ago as glaciers melted and flooded the Susquehanna River valley, the Chesapeake Bay is North America's largest estuary and the world's third largest. The Chesapeake Bay is approximately 200 miles long and runs north-south from the mouth of the Susquehanna River to Hampton Roads and the Atlantic Ocean. The headwaters begin at Cooperstown, N.Y., home of the baseball hall of fame. The Chesapeake Bay watershed is 64,000 square miles in area and has 11,600 miles of tidal shoreline, including tidal wetlands and islands.

The Bay watershed stretches across six states; Maryland, Delaware, New York, Pennsylvania, Virginia, and West Virginia, as well as the District of Columbia. The Bay watershed is made up of dozens of "sub-watersheds" – smaller land features that drain water into streams and rivers that flow into the Chesapeake. The average depth of the Bay, including tributaries, is about 21 feet. The deepest part of the Bay, "the Hole," is 174 feet deep and is located off Bloody Point, southeast of Annapolis, Maryland. The narrowest part of the Bay, near Aberdeen, Maryland, is about 3.5 miles. The widest point is 30 miles and stretches from Smith Island, Virginia, to Virginia's Eastern Shore. Approximately 16 million people live in the watershed; about 10 million people live along its shores or near them. There are more than 100,000 streams, creeks, or rivers in the watershed, including 150 major rivers. One can reach a Bay tributary in less than 15 minutes from nearly everywhere in the watershed. The Bay supports 3,600 species of plant and animal life, including more than 300 fish species and 2,700 plant types. Each year more than 500 million pounds of seafood is harvested from the Bay.

Since colonial times, the Bay has lost half of its forested shorelines, over half of its wetlands, nearly 90 percent of its underwater grasses, and more than 98 percent of its oysters.

Exercise

The Chesapeake Bay influences nearly every facet of life in the Hampton Roads area. Find newspaper articles or features (like the weather page) that illustrate how the Chesapeake Bay affects the way we live: our climate, industries, vocations, recreation, etc. How many of these can you find in just one day's newspaper? From your newspaper findings, write a summary of how the Chesapeake Bay most affects your own life. Include reasons why you like living near the Bay and (if applicable) why you don't like living near the Bay.



BAY FACTS:

- The Chesapeake Bay holds more than 18 trillion gallons of water.
- There are about 150 major rivers and streams in the Chesapeake Bay drainage basin.
- The Susquehanna River provides about 50% of the freshwater coming into the Bay - an average of 19 million gallons of water per minute.

NIE Distribution--4th Graders		
	Students	Teacher Guides
Chesapeake	2800	130
Franklin	120	10
Gloucester	500	25
Hampton	1400	110
Isle of Wight + Smithfield	400	17
James City County	1150	35
Newport News	2400	120
Norfolk	3100	150
Poquoson	165	10
Portsmouth	1100	55
Southampton County	400	4
Suffolk	1076	50
Surry	85	5
Virginia Beach	7000	120
York	950	38
TOTAL	22,646	879

Picked up

Tammy Barry, HR STORM

No

Lorna Frazier-Lindsey, HR CLEAN

Chris Ausink, HR STORM

Will Councill, HR WET & FOG

Beth Davis, HR WET & FOG

Dan Baxter, HR CLEAN

Jennifer Caldwell, HR WET & FOG (has since left agency. Contact Harry Kenyon)

Sherry Coffey, HR STORM

Cindy Linkenhoker, HR STORM

John Jenkins, HR CLEAN

Kim Wieckert, HR WET & FOG

Rhonda Mack

Katie Rider, HR WET & FOG (has since left agency. Contact Tiffany Wright)

Laurie Halperin, HR CLEAN

We All Live on the Water...

4th Grade Teacher's Guide

brought to you by:



We All Live on the Water

4th Grade Teacher's Guide

We All Live on the Water is a Newspapers In Education (NIE) publication, designed to help you meet SOL requirements while teaching important concepts about care of the environment to 4th grade students. *We All Live on the Water* incorporates articles, puzzles, and interactive class activities to teach concepts such as the water cycle, pollution prevention, stormwater management, and the importance of keeping sanitary sewer systems unclogged.

The *Teacher's Guide* includes suggested resources and additional educational activities. The SOLs, which are met by each article in *We All Live on the Water* and by the additional activities, are listed on the SOL chart at the end of this guide for easy reference.

We All Live on the Water is being provided for use by 3rd and 4th grade students throughout Hampton Roads. It was created by the Hampton Roads Planning District Commission (HRPDC) staff in cooperation with the public education committees of the HRPDC: HR WET, HR STORM, HR CLEAN, and Fat Free Drains. Collectively, the committees are known as HR Green. Both *We All Live on the Water* and the *Teacher's Guide* for 3rd and 4th grades are available on the following websites: www.hrwt.org, www.hrstorm.org, www.hrclean.org, and www.fatfreedrain.com.

Resources for “What is Your Watershed Address” (page 3)

Maps: local map, aerial map of the Chesapeake Bay, and map of the Chesapeake Bay that includes information about population density. If you don't have a local map, use <http://earth.google.com>. As an alternative to a large aerial map of the Chesapeake Bay, you can use the map on the back of the *We All Live on the Water* newspaper. You could also visit www.chesapeakebay.net/mapsearch.aspx and search for “Chesapeake Bay Watershed.” A map of population density is available at this same site. Search for “Chesapeake Bay Classification of Watersheds.”

How Close are You?

SOLs: Computer/Technology 3-5.1, 3-5.5, 3-5.7
English 4.1
Math 4.2, 4.4, 4.5, 4.9, 4.11, 4.12
Science 4.8
Virginia Studies VS.10

Resource: <http://earth.google.com/>

Related Content: **“What is a Watershed?” (page 2)**
“What is Your Watershed Address?” (page 3)

The student will identify their location within the watershed and identify how close they are to the nearest river or stream.

Using Google Earth, or another aerial map program, locate your school. Zoom in so students can identify distinguishing characteristics of your school and clearly understand that the school on the map is their school. Use the map to find the nearest stream or river. You can do this through a combination of dragging the map and zooming in and out. Estimate how far away the body of water is by using the ruler tool in Google Earth or distance key on a map.

Discussion:

- Were you surprised by the location of the nearest stream or river? Was it closer or farther than you thought?
- How far away is the nearest stream or river in miles or yards? Estimate the distance in kilometers or meters. Do you think you could walk there within 15 minutes like it says in “What is a Watershed?”, assuming you could walk 2.5 miles per hour?
- Use a map to determine in which Virginia geographic region your school is located (Appalachian Plateau, Blue Ridge Mountains, Coastal Plain, Piedmont, or Ridge and Valley).

Water Storage Throughout History

**SOLs: English 4.1
Science 4.8
Virginia Studies VS.3
Visual Arts 4.3**

Resources: www.harvestingrainwater.com and www.rain-barrel.net

Google terms: Roman cisterns, water towers, and rain barrels for pictures

Related Content: Does HR Need to Conserve Water? (page 4)

The student will learn about water storage throughout history by comparing and contrasting systems through the creation of a collage.

Discussion:

Have students create a poster using pictures to make a collage. The poster should show different styles of water storage used throughout history. Start with Roman times and end with current water storage practices.

- Ancient Rome used aqueducts and cisterns
- Early Jamestown used barrels made by a cooper (couper)
- Present day towns and cities store water in water towers or reservoirs
- Some homeowners store rain water in rain barrels

Discuss how some of the ancient Roman water systems are similar to today. Who had water piped to their homes? Where did people get their water? How are water systems different today?

Multiply the Benefits of Rain Barrels

SOLs: Math 4.3, 4.5, 4.12

Resources: www.hrwet.org to find a link to your locality's water utility department

Related Content: "Does HR Need to Conserve Water?" (page 4)

The student will practice multiplication, estimation, and fractions while learning about water meters, public water supply, and rain barrels.

Individuals in most cities and municipalities use water that is pumped to them through a complex network of pipes. The water is treated by the water utility to make it clean and safe to drink. The utility installs a meter at your home to determine how much water you use. You are charged based on the amount of water you use. Pure, clean water is a valuable resource that provides:

- Public health protection
- Fire protection
- Support for the economy
- Quality of life

Discussion:

To save money and give your garden water that has no chemicals in it, you decide to collect rain water from your roof in a 50 gallon barrel. For the questions below, assume the rain barrel is completely full and no additional rain is collected.

- Estimate how many liters of water a 50 gallon rain barrel can hold. Refine the estimate using terms such as closer to, between, and a little more than.
- If your vegetable or flower garden used 5 gallons of water once per week, how many weeks will you be able to water your garden for free?
- If your garden used 5 gallons twice a week, how many weeks will you be able to water your garden for free?
- Which would save you more money, a rain barrel $\frac{2}{3}$ full or a rain barrel $\frac{7}{9}$ full?

(Teacher – ask additional word problems by changing the barrel capacity and number of gallons used.)

Map the School Yard

**SOLs: English 4.1
Math 4.19
Science 4.1, 4.5, 4.8**

Resources: Local map showing the location of your school

Related Content: “Make Your Own Watershed” (page 5)

The student will identify storm drains on school property and learn the purpose of storm drains. The student will learn that everything that enters a storm drain flows untreated to nearby waterways.

1. Have the students sketch a map of the school yard. They should identify major landmarks like the school building, the parking lot, the play ground, athletic fields, etc.
2. Show the students a local map and help them locate the approximate location of the school. Then identify several of the nearest bodies of water. Have the students add one or two bodies of water to their map, even if it is only a stream that is unidentified on the local map, or a storm water pond.
3. Bring the children outside with pencils and their maps. Explore the school yard looking for storm drains and best management practices. Have the children mark these features on their maps. If possible, point out the nearest body of water to which the stormwater likely flows. Discuss the role of gravity and elevation in draining water off the land.
4. After the students have found and mapped the storm drains, have them draw pipes, or arrows to the bodies of water on their maps. They should connect the storm drain to the most likely destination. A guess is fine, as students only need to understand that storm drains flow to waterways by way of gravity and elevation.

Discussion questions:

1. What are the differences between storm drains and toilet drains? (Answer: Toilet drains connect to the sanitary sewer system which is a closed system that flows to a wastewater treatment plant. Water in the sanitary sewer system is cleaned before being returned to the environment. Storm drains are generally open to the environment and flow directly to area waterways. The water that flows through the storm drain is not cleaned before it enters our waterways. Storm drains help reduce flooding. Toilet drains create a safe way to dispose of human waste.)
2. Discuss the meaning of the HR STORM motto: “Clean Waterways Begin With You.” What will happen to fertilizer, litter, and pet waste left on the ground when it rains?
3. What is the probability that the items listed below (or others that you can think of) might enter the storm drain from your school property? Use the terms *certain*, *likely*, *unlikely*, *impossible*.
 - Car oil
 - Leaves and grass clippings
 - Soapy water from washing cars and buses
 - Toys left on the playground
 - Pet waste and wild animal waste
4. Explain how each of the items in the previous question is harmful to the quality of our water

Sewer Stories

SOLs: Computer/Technology 3-5.1, 3-5.5, 3-5.6, 3-5.7
English 4.1, 4.2, 4.3 4.4, 4.5, 4.6, 4.7
Science 4.4, 4.5, 4.8

Resources: www.FatFreeDrains.com
www.HRSTORM.org

Related Content: “Stormwater” (page 15)
“Do Alligators Really Live in the Sewers?” (page 17)

The student will write a short fictional story about what is in the sanitary sewer system and share it with the class. Then, students will research sanitary sewer systems to find out what is actually in the system and explain the difference between the sanitary sewer and stormwater systems.

Discussion:

- What is the difference between the sanitary sewer system and the stormwater system? What is the purpose of each system?
- Why is it important to keep trash and other items out of the storm drains? Where do you think the stormwater goes?

Create Your Own Grease Can

SOLs: Math 4.11
Science 4.1, 4.5, 4.8, 4.15
Visual Arts 4.3

Related Content: “Grease Does That?” (page 16)
“Fact or Fiction?” (page 16)
“Three Tips to Avoid Calling a Plumber” (page 16)

Student will take a coffee can and measure the height of the can. The student should then take a ruler and make a mark at the same measurement on construction paper. The student will use the ruler to draw a straight line across the paper at the measurement mark and then cut the construction paper across the line.

Student should wrap the construction paper around the can to make sure it fits. Student can then decorate the grease can label anyway they choose. The decorated construction paper should then be wrapped around the can again, and glued into place. Student should crumple up a piece of newspaper and place inside the can to help with absorption.

Materials Needed

Empty one-pound metal coffee can with plastic lid
Construction paper
Ruler
Glue
Scissors
Crayons or Markers
Decorating Items (buttons, paper, fabric, ribbons, etc.)
Newspaper

Discussion:

- After cooking, what happens to grease when it cools?
- Why is it important to dispose of grease properly instead of pouring it down the drain? What could happen if we poured grease down the drain?

Water Audit

**SOLs: English 4.1
Math 4.5, 4.12**

**Related Content: “Does HR Need to Conserve Water?” (page 4)
“Water-Wise Word Find” (page 12)
“Conservation Crossword” (page 13)**

Students will calculate the amount of water they use in one day. They will measure the length of time for showers or brushing teeth, etc. and multiply that by the applicable numbers below. Students will report on their water usage and then discuss water conservation tips. Before conducting the water audit, students will estimate each activity's water use and rank the activities in order of least to most water use. For an extra challenge, convert gallons to quarts.

Toilet: 1.3 to 5 gallons per flush

Shower: 2.5 to 5 gallons per minute

Bathtub: 36 gallons (an average bathtub that is half full)

Faucet: 3 gallons per minute

Dishwasher: 15 gallons per load

Clothes Washer: 18 to 45 gallons per load

Discussion:

- What daily activity uses the most water? What uses the least amount of water?
- Why is it important to conserve water? What are some ways you can conserve water?
- Some water-using devices are automatic, like a dishwasher. If a dishwasher automatically uses 15 gallons for each load of dishes, how can you conserve water when using the dishwasher?
- Calculate how much water you would save if you took a shorter shower or only filled up the tub half as much as usual. If you do this every day for a week, how many gallons of water would you save?

Is This Recyclable?

SOLs: Communication/Technology 3-5.6
English 4.1, 4.5, 4.6
Science 4.1, 4.8

Related Content: “What Can You Do to Protect Your Watershed?” (page 8)
“Pack a Waste-Free Lunch” (page 9)
“What’s Your Litter IQ?” (page 9)
“Stormwater” (page 15)

Different communities recycle different items. Have your students determine what your locality collects for recycling. Make copies of the worksheet on the next page and have students complete the exercise. Students will draw a line from each object to either the trash can or the recycling bin. Or give students a list of items to label either “recycle” or “trash can.” Have students check their answers at the locality’s waste management authority website. A good starting point for the students is HRCLEAN.org, a regionally focused website that provides information on litter prevention and recycling in a user-friendly, well-organized fashion.

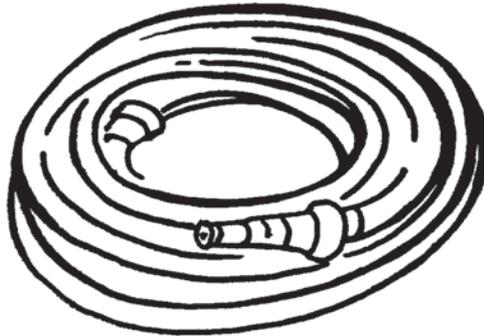
Discussion:

- Were you surprised by any of the items that were or were not recyclable? Why or why not?
- How does recycling conserve natural resources?
- What can you do to help your school or family recycle only the items your locality collects?
- What can you do to recycle items you no longer need, but your locality does not collect? Some discussion starters could include: donating, yard sales, repurposing, ebay, etc.

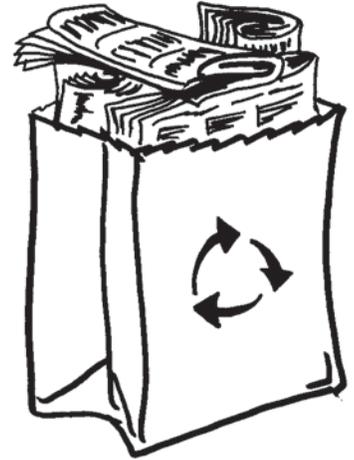
Did you know that paper, glass bottles, and metal cans can be recycled? Let's put these items in the proper container! Draw a line from the items that can be recycled to the recycling bin and those that can't be recycled to the trash can.



Sneakers



Garden Hose



Newspaper



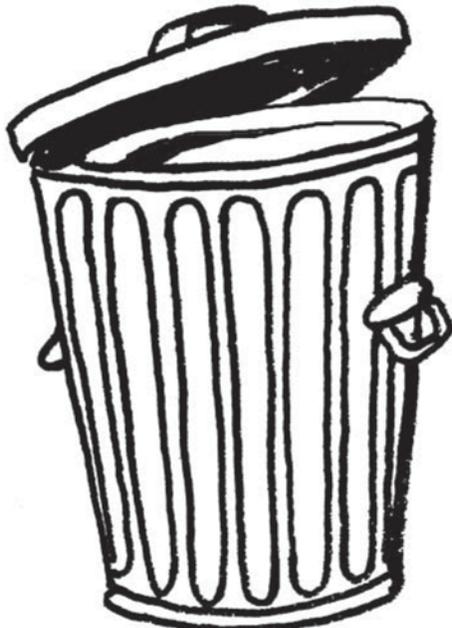
#5 Plastic Jugs



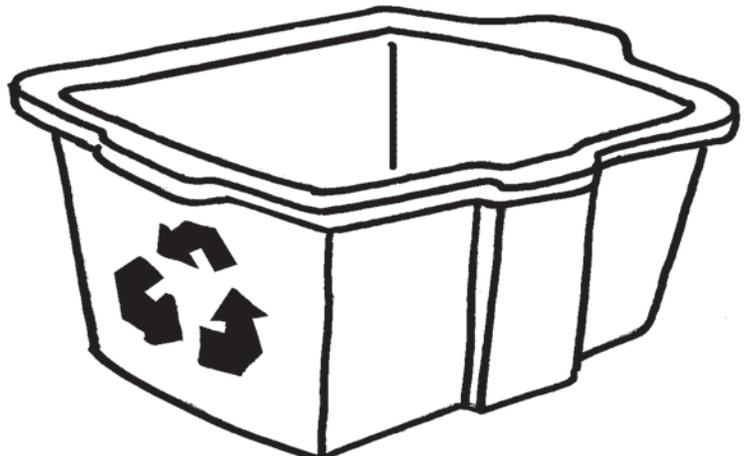
Glass



Aluminum Cans



TRASH CAN



RECYCLE BIN



Clean your pool, fountain or spa regularly. Maintain proper chlorine levels, water filtration and circulation.

Drain water to grassy areas. Grassy areas will soak up water rather than let it flow to nearby storm drains.

Check pH and drain only clear water. Water should not appear murky and pH should be between 6.5 and 8.5 before draining.

Avoid algaecides. Maintain your pool's chemicals properly and avoid use of copper sulfate.

Break down chlorine. Add sodium thiosulfate to break down chlorine faster.

Let it be. Before draining, let pool water sit for several days without treating to allow chlorine to dissipate.

☀ Pools & Spas

Carry extra bags. Take along bags when walking your dog and make them available to other pet owners who are without. When traveling with your dog, ensure you always have extra bags in your car.

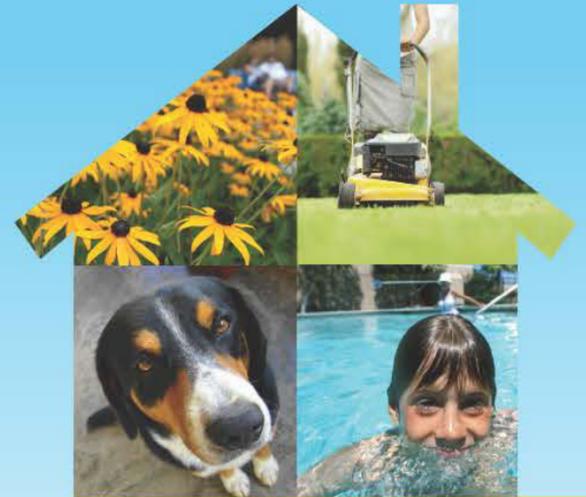


Pick up pet waste. Always clean up after your dog, whether it's on your lawn, in the park or at the beach.

Your Pets

☀ A Clean, Healthy Bay Starts at Home

Residential Guide to Stormwater Runoff



askHRgreen.org



Wash vehicles on grass or gravel. Wash your car only in areas that allow water to soak into the ground. If you wash your car on a street, use soap sparingly, and use a hose nozzle with flow restriction or a bucket and sponge to minimize runoff and save water. Dispose of the dirty, soapy water in a utility sink, on grass or gravel.

Be mindful of runoff. Do not store used vehicle parts in areas that drain to the storm drain.

Recycle used batteries. Many auto parts stores accept old batteries for recycling.

Recycle antifreeze/coolant. Bring used coolant to an auto parts store or hazardous waste collection facility. Check your radiator hoses when changing your oil and inspect your car at the first sign of a coolant leak.

Recycle waste oil. When you change your own oil, use an oil change box. Change your oil away from storm drains and have old rags or other absorbent materials available to respond in case of a spill. Take used oil to an auto parts store or hazardous waste collection facility.



Use drip pans. Install a drip pan under a leak until it is repaired. Place large pans under wrecked cars to catch fluids.

Clean up leaks or spills promptly. Use dry, absorbent materials, such as cat litter, and a broom to clean up leaks. Be careful to keep dirty water from running into the street and storm drain when hosing down garage floor or driveway.

Repair leaks. If you discover spots in your driveway, or have to fill fluids often, make repairs right away.

Vehicle Maintenance

Item	Method	Disposal
CFLs, cleaning products, insect repellents & fungicides, weed killers, swimming pool chemicals	Label contents of containers	Hazardous waste recycling event or collection facility
Household batteries	Recycle	Battery stores or E-cycling event
Electronics	Recycle	E-cycling event
FOG (fats, oils, & grease)	Cool or freeze in sealed container	Trash or recycling event
Prescription drugs	Remove personal information, crush or dilute meds and mix with cat litter, sawdust, etc. Seal in original container	Deposit in trash or take to pharmacy
Antifreeze, car batteries, motor oil, brake & transmission fluid, car wax, gasoline	Label contents of containers containing liquid and recycle	Auto parts store, VPPSA or SPFA collection facility or recycling event

Use alternative products. Select non-hazardous or less hazardous components that do the same job.

Reduce. Buy and use only the amount needed. Leftovers can be shared or donated.

Recycle. Bring leftover hazardous waste materials to a hazardous waste event (VPPSA or SPFA residents, www.vppsa.com), one of the five SPFA hazardous waste collection facilities (www.spsa.com), or the Virginia Beach Landfill at 1989 Jake Sears Road.

☀ Household Hazardous Waste

Start at Home

Every day activities greatly affect the health of our waterways. This guide contains tips on how you can help protect our waterways, starting at home.



☀ What is Stormwater Runoff?

Stormwater runoff occurs when rain or melted snow flows over parking lots, sidewalks, streets, or any other surface that cannot absorb water. As stormwater runoff moves, it picks up dirt, trash, oil, grease, fertilizers, and other pollutants and carries them into the storm drain system, which empties directly into local waterways.

Stormwater runoff does not flow to a treatment plant; it flows directly into our streams, bay and ocean. Pollution from untreated stormwater runoff affects drinking water supplies, recreation, fisheries and wildlife.



askHRgreen.org

for tips on keeping it clean and finding your inner green.



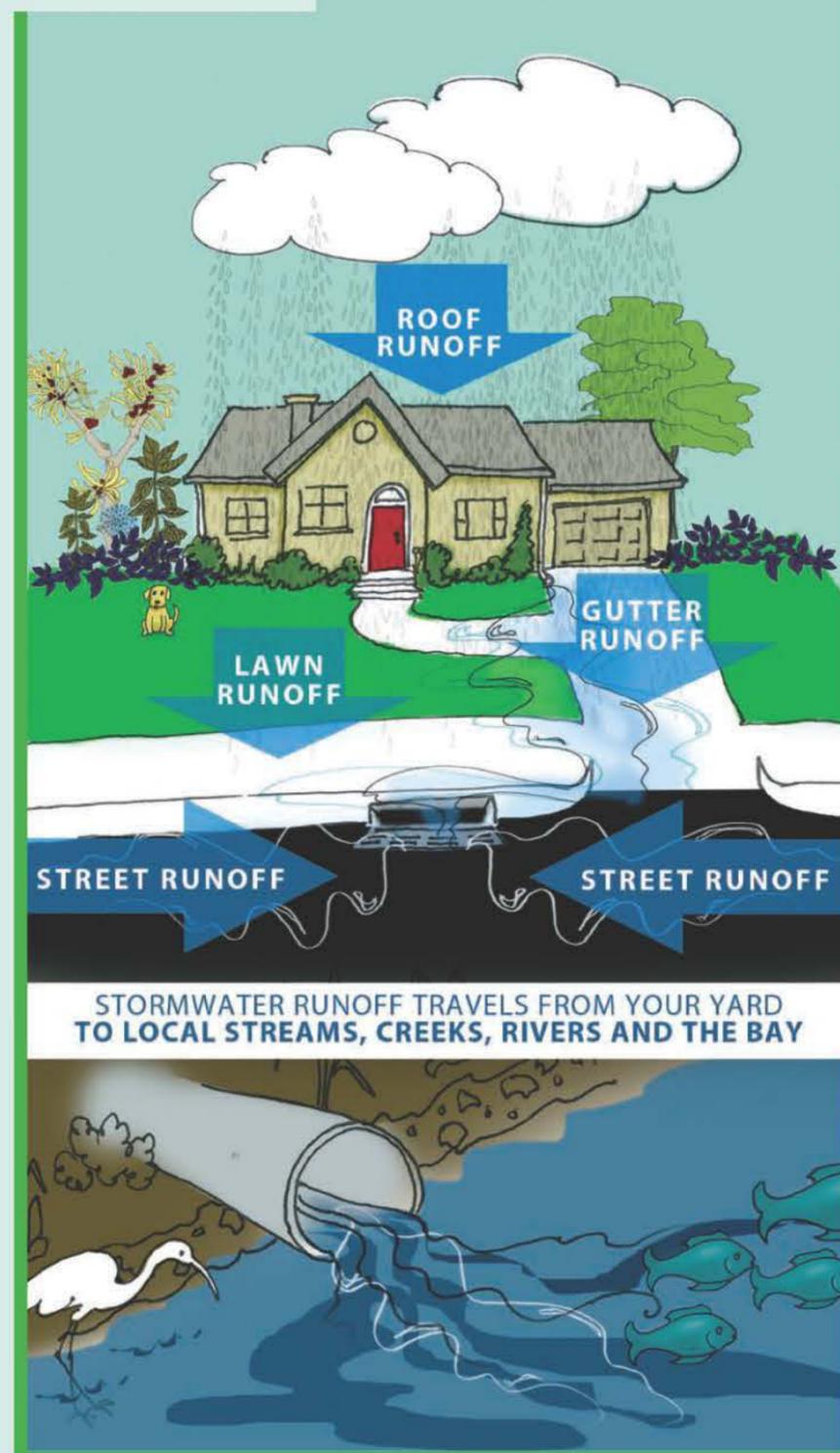
"Ask HR Green" is a regional awareness campaign sponsored by 16 Hampton Roads cities and counties working together with the Hampton Roads Planning District Commission.



Lawn & Garden

A healthier Bay means a safer environment for us all to enjoy for years to come. Your yard can be one of the greatest defenses against water pollution. Choose native trees, shrubs and plants to help stabilize soil, absorb and filter stormwater runoff. There are plenty of ways to maintain a beautiful, healthy, Bay-friendly landscape. Here are just a few of them...

PLANT MORE PLANTS



Plant Native Flowers, Trees and Shrubs



Trees, shrubs and hardy perennials can beautify your home and help reduce stormwater runoff. Use plants that are adjusted to local growing conditions. Consider native plants; they are typically more resistant to insects and disease and use less water and fertilizer.

Mulch, Mulch, Mulch



Mulch helps to control erosion, retain moisture and stabilize soil temperature. A two-inch layer of mulch material, such as fir bark, pine needles or wood chips, will reduce water loss and maintain uniform soil moisture around roots. Mulch can also reduce or eliminate weeds that compete with landscape plants for moisture, nutrients, and sunlight.

By planting more plants, homeowners can improve the health of the Chesapeake Bay.

As stormwater flows across hard surfaces and through landscaped areas, it carries particulates through drainage systems and into local waterways. Harmful amounts of nitrogen, phosphorus, sediments and other pollutants are channeled from residences directly into the waters of the Bay.

These pollutants include:

- fertilizer
- pesticides
- topsoil
- oil and gasoline
- pet waste

Homeowners can mitigate the amount of harmful elements that reach the Bay through landscaping practices that include reducing hard surfaces, fertilizing responsibly and planting native trees, shrubs, plants and grasses.

Choosing the right species and planting in abundance will establish expansive root systems to hold soil in place, creating a natural filter that reduces the harmful effects of fertilizers, pesticides and spilled fuels.

Sweep It Up



Clean up anything that is lying on pavement. Fertilizer spill? Sweep or blow it into the yard, not into the street.

Mow It



Proper mowing is important for a well-kept lawn. Newly seeded lawns should be mowed early and often, leaving 1.5 to 2.0 inches of grass height. Once your lawn is established, set the mower blade higher, leaving 2 to 3.5 inches of grass.

Test Your Soil



Save money by having your soil tested. Soil testing will ensure you get the right fertilizer with the nutrient levels that your lawn requires and will determine the right amount needed so you don't over fertilize. Testing should be done every 3-4 years in the fall.

Graphic used with permission from PlantMorePlants.com

Fertilize in the Fall

Apply fertilizer in the fall when there is typically less rain and less chance for it to be washed off your lawn. Keep fertilizer off paved surfaces and never apply it to driveways, sidewalks, or roadways.



Know Your Grass

For cool season grass, such as fescue or ryegrass, seed in the late summer. For warm season grass, such as zoysiagrass or Bermuda grass, seed in early spring. Seed bare areas during the appropriate time of year to reduce erosion potential.



Leave Lawn Clippings

After mowing, leave grass clippings on your lawn. Clippings break down and return nitrogen to the lawn, generating up to 25% of the lawn's fertilizer needs.



A Clean, Healthy Bay Starts at Home  Find out more at askHRgreen.org

Item Three of the Registration Statement - 2008

Names of the receiving waters into which the small MS4 discharges

<u>HUC</u>	<u>Body of Water</u>
YO65	Skimino Creek
YO66	Carter Creek
YO67	Queens Creek
YO68	King Creek
YO69	York River
JL 28	Chickahominy River – Yarmouth Creek
JL 31	Powhatan Creek
JL34	College Creek
JL35	James River – Skiffes Creek
JL38	Warwick River
CB22	NW Branch/Back River (Brick Kiln Creek)
CB21	Lower Chesapeake/Poquoson River

Impaired Waters – Approved

- CB22 NW Branch/Back River (Brick Kiln Creek) (enterococci, and Fecal Coliform)
- CB21 Lower Chesapeake/Poquoson River (enterococci, and Fecal Coliform)

Impaired Waters – Proposed

- YO67 Queens Creek
- YO68 King Creek – Felgates Creek
- JL38 Warwick River- Baptist Run

York County WLA's as of July 9, 2008*

HUC Code	Waterbody	Allocation	Pollutant	Unit
JL38	Baptist Run	8.79E+06	E coli	cfu/day
JL38	Warwick and James	1.75E+07	fecal coliform	cfu/day
JL35	James River -Opposite Ft. Eustis & Skiffes Crk.	1.95E+07	fecal coliform	cfu/day
YO67	Queen Creek	5.72E+11	fecal coliform	MPN/day
YO68	King Creek	4.37E+10	fecal coliform	MPN/day
YO68	Felgates Creek	3.70E+10	fecal coliform	MPN/day
	*Does not include WLA's for waters within the Back and Poquoson River watersheds. The WLA for these Watersheds are attached separately but are not separated by locality			

These waste loads are not part of this permit at this time. The TMDL's were not approved prior to the issuance of this permit.

Trib Subbasin	County	WLA	Parameter	%IMP
Poquoson TMDL				
Chisman Creek	York	3.71E+10	Fecal	
UC Patricks Creek	York	5.75E+07	Fecal	
Patricks Creek	York	2.13E+09	Fecal	
Poquoson River	Newport News	9.11E+09	Fecal	8
	York	5.69E+09		5
Lambs Creek	Poquoson	2.51E+09	Fecal	5
	York	1.00E+09		2
Roberts Creek	Poquoson	1.73E+09	Fecal	
Whitehouse Creek	Poquoson	8.54E+09	Fecal	
Back Creek	York	2.26E+10	Fecal	
Upper Poquoson River	York	4.17E+11	Enterococci	
Back River TMDL				
	York	3.93E+08	Fecal	2
Topping Creek	Poquoson	1.18E+09		6
Cedar Creek	Poquoson	7.20E+08	Fecal	6
	York	2.40E+08		2
NW Back River	Poquoson	1.45E+09	Fecal	6
	York	2.18E+09		9
	Newport News	5.81E+09		24
	Hampton	2.66E+09		11
Tabbs Creek	Hampton	4.85E+09	Fecal	
SW Back River	Newport News	1.86E+11	Fecal	33
	Hampton	1.64E+11		29
Inlet 1	Hampton	8.89E+08	Fecal	
Harris River	Hampton	3.44E+10	Fecal	
Inlet 2	Hampton	3.49E+08	Fecal	
Wallace Creek	Hampton	2.42E+09	Fecal	
Front Cove	Poquoson	1.76E+09	Fecal	
Long & Grunland Creeks	Hampton	8.06E+09	Fecal	
Brick Kiln Creek & NW Back R	Hampton	7.39E+10	Enterococci	11
	Poquoson	4.03E+10		6
	Newport News	1.61E+11		24
	York	6.05E+10		9
New Market Creek 1 & 2 & SW Back River	Hampton	5.67E+10	Enterococci	

Areas in teal are the WLA that were split

Land Cover Data used = NLCD 2001

% Impervious used to split WLA per City

Simple Method Calculation of Pollutant Loads

Precipitation	(in)	Bacteria Concentration	colonies/100ml	Acres of Landuse	3,281.90
Winter (October - March)	20.5	Winter	1000	Impervious Fraction	0.19
Summer (April - September)	24.25	Summer	21000	Runoff Coeficient	0.22
Annual	44.75				

Annual Runoff	(in)	Annual Load	Billions of Colonies
Winter	4.09	Winter	13815
Summer	4.83	Summer	343183
Annual	8.92	Total	356998

Volume of SW Discharge	acre-ft	Daily Load	Fecal Coliform
Annual	2439.883	Average	9.78E+11
$R=(P)(Pj)(Rv/12)(A)$			

These Numbers are based on assumptions of average rainfall and bacteria concentrations based on winter and summer
 There is no credit for SWMFs in the watersheds.
 Better methods may be developed in the future to obtain more accurate results.

Simple Method Calculation of Pollutant Loads

Precipitation	(in)	Bacteria Concentration	colonies/100ml	Acres of Landuse	17,247.05
Winter (October - March)	20.5	Winter	1000	Impervious Fraction	0.09
Summer (April - September)	24.25	Summer	21000	Runoff Coeficient	0.13
Annual	44.75				

Annual Runoff	(in)	Annual Load	Billions of Colonies
Winter	2.41	Winter	42888
Summer	2.86	Summer	1065411
Annual	5.27	Total	1108300

Volume of SW Discharge	acre-ft	Daily Load	Fecal Coliform
Annual	7574.621	Average	3.04E+12
$R=(P)(Pj)(Rv/12)(A)$			

These Numbers are based on assumptions of average rainfall and bacteria concentrations based on winter and summer. There is no credit for SWMFs in the watersheds. Better methods may be developed in the future to obtain more accurate results.

Hampton Roads Regional Phase II MS4 IDDE Protocol

IDDE Notification and Investigation Protocol

1. Receive complaint by telephone, e-mail, or another source.
2. Log complaint into DICE system (Stormwater Division's tracking system).
3. Make a site visit to determine if a violation exists.
4. If site visit reveals a violation, a Notice of Inspection will be issued to document the violation.
5. Notice of Corrective Action to obtain compliance.
6. Record all Notices and Corrective Action activities.
7. If the issuance of the Notices does not achieve compliance, violations are to be forwarded to County Attorneys' office for prosecution.

SEPTIC TANK PUMP-OUTS/INSPECTIONS REPORTED

<u>APNO</u>	<u>STNO</u>	<u>STSUB</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>ISSDTM</u>	<u>COMPDTM</u>	<u>COMMENTS</u>
2010							
200800132	510		ALLENS MILL	RD	09/17/2010	10/07/2010	SEPTIC TANK PUMPED 7/22/10
200800124	540		ALLENS MILL	RD	09/17/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/24/10
201000040	544		ALLENS MILL	RD	09/13/2010	09/07/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 8/9/10
200800129	548		ALLENS MILL	RD	09/17/2010	09/23/2010	SEPTIC TANK PUMPED 2-6-10
200800136	558		ALLENS MILL	RD	09/17/2010	10/25/2010	SEPTIC TANK PUMPED 10/25/10
200800137	562		ALLENS MILL	RD	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/1/10
200600839	595		ALLENS MILL	RD	10/04/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/10/10
201000031	605		ALLENS MILL	RD	09/17/2010	09/21/2010	SEPTIC TANK PUMPED 1/3/09
201000036	618		ALLENS MILL	RD	09/17/2010	11/30/2010	SEPTIC TANK PUMPED 5/15/08
200100228	104		ANNS	CT	07/26/2010	07/02/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 6/11/10
201000016	101		BACK FORTY	LOOP	09/17/2010	09/21/2010	PER MELINDA, NEW HOUSE. DUE 3/31/13
200100576	191		BARLOW	RD	11/30/2010	11/22/2010	PER VA PUMP & MOTOR LIST, SEPTIC TANK PUMPED 10/22/10
200900069	3017		BIG BETHEL	RD	09/17/2010	10/13/2010	SEPTIC TANK PUMPED 10/11/10
200300232	3101		BIG BETHEL	RD	11/30/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/28/10
200500477	309		BOLIVAR	DR	11/30/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/7/10
201000489	109		BRICK CHURCH	RD	09/17/2010	10/12/2010	SEPTIC TANK PUMPED 10/8/10
201000551	109		BRICK CHURCH	RD	10/13/2010	10/12/2010	SEPTIC TANK PUMPED 10/8/10
200500664	504		BROKENBRIDGE	RD	07/26/2010	07/06/2010	PER VIRGINIA PUMP AND HAUL'S LIST, SEPTIC TANK PUMPED 6/22/10
201000490	104		BROOK	RD	09/17/2010	10/11/2010	PER MELINDA, CONNECTED IN 1999.
201000532	104		BURTS	RD	09/17/2010	10/01/2010	SEPTIC TANK PUMPED 6/4/10
201000573	519	C	BYPASS	RD	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 9/1/10
200900511	108		CANNON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900512	110		CANNON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900513	111		CANNON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900514	114		CANNON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200800141	500		CARTERS NECK	RD	09/17/2010	11/23/2010	SEPTIC TANK PUMPED 1/18/10
200800255	510		CARTERS NECK	RD	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 10/28/10
200500916	105		CARVER	PL	07/26/2010	07/06/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 6/22/10
201000538	101		CHARLENE	CT	09/17/2010	12/23/2010	CLOSE OUT PER MELINDA. THEY ARE BILLED FOR SEWER OFF A MASTER METER.

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201000537	109		CHARLENE	CT	09/17/2010	12/23/2010	CLOSE OUT PER MELINDA. THEY ARE BILLED FOR SEWER OFF A MASTER METER.
200300354	102		CHEADLE POINT	RD	09/13/2010	09/07/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 8/5/10
200900064	108		CHERWELL	CT	09/17/2010	09/22/2010	SEPTIC TANK PUMPED 12/19/07
200000395	119		COPSE	WAY	07/26/2010	07/13/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 6/1/10
200800155	203		CREEK POINT	CIR	09/17/2010	09/22/2010	SEPTIC TANK PUMPED 5/13/10
200800156	204		CREEK POINT	CIR	09/17/2010	10/13/2010	SEPTIC TANK PUMPED 10/11/10
200600323	509		DARE	RD	08/11/2010	08/10/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 7/27/10
200000578	166		DENNIS	DR	12/20/2010	12/20/2010	PER VIRGINIA PUMP & MOTOR SEPTIC KARE, SEPTIC TANK PUMPED 11/24/10
200900497	108		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900498	109		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900499	110		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900500	111		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900501	114		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900502	200		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900503	203		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900504	204		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900505	205		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900506	206		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900507	208		DOGWOOD	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200300382	107		DOGWOOD	DR	11/30/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 10/2/10
200900508	204		FALCON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900509	206		FALCON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900510	212		FALCON	RD	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900487	436	A	FENTON MILL	RD	09/17/2010	09/22/2010	PER MELINDA, HOUSE DEMOLISHED IN 2007. CLOSE OUT.
201000519	103		FIRST	ST	09/17/2010	10/04/2010	SEPTIC TANK PUMPED 10/1/10

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200100703	111		FOREST	LN	07/26/2010	07/02/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 6/17/10
200600955	1403		GEO WASH MEM	HWY	12/07/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/8/10
201000541	3001		GEO WASH MEM	HWY	09/17/2010	09/21/2010	CLOSE SEPTIC APPLICATION: OWNER CALLED AND IT WAS CONFIRMED IN BILLING THAT THIS PROPERTY IS BEING BILLED FOR SEWER
201000493	4033		GEO WASH MEM	HWY	09/17/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/24/10
201000498	4101		GEO WASH MEM	HWY	09/17/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/24/10
201000517	6021		GEO WASH MEM	HWY	09/17/2010	09/27/2010	SEPTIC TANK PUMPED 9/22/10
201000002	7100	A	GEO WASH MEM	HWY	09/17/2010	12/14/2010	SEPTIC TANK PUMPED 12/6/10
201000003	7100	B	GEO WASH MEM	HWY	09/17/2010	12/14/2010	SEPTIC TANK PUMPED 12/6/10
200900493	7119		GEO WASH MEM	HWY	09/17/2010	10/07/2010	VACANT LOT. CLOSE OUT.
201000555	7602		GEO WASH MEM	HWY	10/15/2010	10/14/2010	SEPTIC TANK PUMPED 4/30/08
200300224	3108	A	GOODWIN NECK	RD	09/15/2010	09/03/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 8/2/10
201000529	404		GRAFTON	DR	09/17/2010	11/23/2010	SEPTIC TANK PUMPED 11/18/10
201000552	409		GRAFTON	DR	10/13/2010	10/12/2010	SEPTIC TANK PUMPED 10/8/10
201000539	204		HAMPTON	HWY	09/17/2010	11/30/2010	SEPTIC TANK PUMPED 11/8/10
200601180	208		HAMPTON	HWY	12/07/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/8/10
201000463	1409		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/18/10
200600589	3505		HAMPTON	HWY	11/05/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
200900519	3505		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
201000074	3505		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
201000075	3505		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
201000077	3505		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
201000076	3505		HAMPTON	HWY	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/5/10
200500816	114		HARROD	LN	12/07/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/24/10
200800274	400		HORNSBYVILLE	RD	10/04/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/16/10
200500857	404		HORNSBYVILLE	RD	11/05/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/29/10
200500445	601		HORNSBYVILLE	RD	11/05/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/7/10
200500445	601		HORNSBYVILLE	RD	10/04/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/28/10
200100188	105		J. FARM	LN	08/11/2010	08/03/2010	PER PARLSEY'S LIST, SEPTIC TANK PUMPED 7/16/10
201000019	113		J. FARM	LN	09/17/2010	09/27/2010	SEPTIC TANK PUMPED 9/22/10
201000462	212		JETHRO	LN	08/11/2010	08/10/2010	PER VIRGINIA PUMP AND MOTOR'S LIST, SEPTIC TANK PUMPED 7/16/10
201000464	225		JETHRO	LN	09/17/2010	09/23/2010	SEPTIC TANK PUMPED 9/22/10
201000465	300		JETHRO	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/12/10
201000466	303		JETHRO	LN	09/17/2010	12/10/2010	SEPTIC TANK PUMPED 12/8/10
201000467	304		JETHRO	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/29/10
200601003	305		JETHRO	LN	11/05/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/14/10
201000471	311		JETHRO	LN	09/17/2010	12/09/2010	PER CHARGE STATEMENT, SEPTIC TANK PUMPED 9/25/08

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201000470	313		JETHRO	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/17/10
201000469	315		JETHRO	LN	09/17/2010	10/13/2010	SEPTIC TANK PUMPED 10/12/10
200500833	201		KENTUCKY	DR	07/26/2010	07/12/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 6/28/10.
200000174	114		KING RICHARD	CT	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 10/27/10.
201000508	124		LAWSON	DR	09/13/2010	09/07/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 8/5/10
201000587	212		LIGHTFOOT	RD	12/10/2010	12/08/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 11-20-10
201000575	901		LIGHTFOOT	RD	11/30/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/8/10
200900489	103		LOBLOLLY	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900490	104		LOBLOLLY	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900491	105		LOBLOLLY	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900492	106		LOBLOLLY	CT	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
201000107	604		LOTZ	DR	09/17/2010	09/29/2010	SEPTIC TANK PUMPED 9/24/10
201000108	606		LOTZ	DR	09/13/2010	09/07/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 8/12/10
201000109	609		LOTZ	DR	09/17/2010	12/06/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 11-16-10.
200600018	302		MARL RAVINE	RD	07/26/2010	07/13/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 6/7/10
200600759	117		MILL	LN	11/30/2010	11/22/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/15/10
201000022	4010		NEWMAN	RD	09/17/2010	11/02/2010	SEPTIC TANK PUMPED 10/24/10
200000518	317		NOTTINGHAM	RD	08/18/2010	08/17/2010	SEPTIC TANK PUMPED 8/10/10.
201000027	228		OAKTREE	RD	09/17/2010	10/01/2010	SEPTIC TANK PUMPED 12/1/08
200600596	600		OLD DOMINION	RD	11/30/2010	11/22/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 10-19-10
200100095	6290		OLD MOORETOWN	RD	11/16/2010	11/15/2010	SEPTIC TANK PUMPED 11/15/10.
200500383	207		OLD WORMLEY CREEK	RD	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 8/6/10
200500414	212		OLD WORMLEY CREEK	RD	07/26/2010	07/13/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 6/8/10
200500370	217		OLD WORMLEY CREEK	RD	08/11/2010	08/10/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 7/21/10
200900470	401		OLD YORK-HAMPTON	HWY	07/26/2010	07/06/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 6/26/10
200900471	404		OLD YORK-HAMPTON	HWY	09/17/2010	09/22/2010	PER MELINDA, PROPERTY WILL BE DEMOLISHED. CLOSE OUT.
200900473	420		OLD YORK-HAMPTON	HWY	09/17/2010	09/22/2010	PER MELINDA, PROPERTY WILL BE DEMOLISHED. CLOSE OUT.
201000511	501		OLD YORK-HAMPTON	HWY	09/17/2010	09/23/2010	SEPTIC TANK PUMPED 3/17/09
200900474	511		OLD YORK-HAMPTON	HWY	09/17/2010	09/23/2010	SEPTIC TANK PUMPED 3/1/10
200900475	521		OLD YORK-HAMPTON	HWY	09/17/2010	09/21/2010	SEPTIC TANK PUMPED 3/21/08
201000512	601		OLD YORK-HAMPTON	HWY	09/17/2010	10/13/2010	PER MELINDA, NO SEPTIC TANK ON PROPERTY. CLOSE OUT.
200601216	1709		OLD YORK-HAMPTON	HWY	07/26/2010	07/12/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 6/2/10

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200900476	1801		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900477	1901		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	LAST PUMP OUT WAS 12-03-10. CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900478	2019		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900480	2204		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900481	2207		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900482	2211		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.Pumped tank 1/17/2011 per hogges list
200900483	2212		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900484	2215		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200900485	2303		OLD YORK-HAMPTON	HWY	09/17/2010	09/27/2010	CLOSE OUT PER MELINDA. PROPERTY IS IN THE FALCON-LOBLOLLY SEWER PROJECT.
200800305	102		PHEASANT SPRINGS	RD	11/30/2010	11/22/2010	SEPTIC TANK PUMPED 12/13/10
200000559	102		PRINCE CHARLES	RD	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 9/15/10
200100266	123		QUAKER MTNG HOUSE	RD	12/20/2010	12/20/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 9/8/10
200100268	127		QUAKER MTNG HOUSE	RD	11/30/2010	11/22/2010	PER VIRGINIA PUMP & MOTOR SEPTIC KARE, SEPTIC TANK PUMPED 11/1/10
201000004	203		RIVERSIDE	DR	08/31/2010	08/31/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 9/21/10
200900494	104		SANGAREE	TWST	09/17/2010	10/31/2010	CLOSE OUT PER MELINDA.
200100401	102		SCHENCK	DR	08/11/2010	08/10/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/19/10
201000518	201		SECOND	ST	09/17/2010	09/27/2010	PER HOGGE'S LIST, SEPTIC TANK PUMPED 7/28/10
200100586	105		SHADY BLUFF	PT	07/30/2010	07/27/2010	SEPTIC TANK INSPECTED 3/26/10
200900063	106		SHADY BLUFF	PT	09/17/2010	10/05/2010	SEPTIC TANK PUMPED 7/27/10
200600592	110		SHADY BLUFF	PT	11/30/2010	11/22/2010	SEPTIC TANK PUMPED 3-20-09
201000024	111		SHADY BLUFF	PT	09/17/2010	09/27/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 9/18/10
201000025	112		SHADY BLUFF	PT	09/17/2010	09/23/2010	SEPTIC TANK PUMPED 9/23/10
200500780	108		SHEILD	LN	11/05/2010	10/31/2010	SEPTIC TANK PUMPED 3/30/08
200500559	113		SHEILD	LN	12/07/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/13/10
200000349	101		SHERIFFS	PL	08/11/2010	08/03/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/12/10
201000005	113		SINCLAIR	LN	09/17/2010	11/15/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 7/14/10
							SEPTIC TANK PUMPED 11/4/10.

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200100630	218		SKIMINO	RD	12/20/2010	12/20/2010	PER VIRGINIA PUMP & MOTOR SEPTIC KARE, SEPTIC TANK PUMPED 11/26/10
201000507	229		SKIMINO	RD	09/17/2010	09/28/2010	SEPTIC TANK PUMPED 8/12/10
201000026	100		SKIMINO LANDING	DR	09/17/2010	12/21/2010	SEPTIC TANK PUMPED 7/15/07
200800326	105		SKIMINO LANDING	DR	11/30/2010	11/22/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 10/4/10
200900062	401		SKIMINO LANDING	DR	09/17/2010	11/09/2010	SEPTIC TANK PUMPED 7/25/08
200900517	121		SMITH	ST	09/17/2010	09/21/2010	PER MELINDA, THIS IS A VACANT LOT. NO SEPTIC SYSTEM. CLOSE OUT.
200900516	139		SMITH	ST	09/17/2010	09/21/2010	SEPTIC TANK INSPECTED 10/8/08
200500853	105		TERREBONNE	RD	11/05/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/22/10
200300350	1612		VICTORY	BLVD	10/04/2010	10/02/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 9/20/10
201000574	189		WEST QUEENS	DR	11/30/2010	11/22/2010	SEPTIC TANK PUMPED 11/12/10
200000633	211		WEST QUEENS	DR	08/11/2010	08/03/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 7/22/10
200100409	320		WILKINSON	DR	07/26/2010	07/02/2010	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 6/17/10
200900065	102		WINFREE	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/30/10
200900469	103		WINFREE	LN	09/17/2010	10/04/2010	SEPTIC TANK PUMPED 6/2/09
200900066	105		WINFREE	LN	09/17/2010	10/31/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 10/1/10
200900067	108		WINFREE	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/30/10
200900068	110		WINFREE	LN	09/17/2010	12/06/2010	PER WOOD'S LIST, SEPTIC TANK PUMPED 11/30/10
200500374	1101		WOLF TRAP	RD	09/15/2010	09/03/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 8-31-10
200500529	1210		WOLF TRAP	RD	07/26/2010	07/06/2010	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 6/1/10
200500789	1303		WOLF TRAP	RD	09/27/2010	09/27/2010	SEPTIC TANK PUMPED 9/23/10
200500525	1305		WOLF TRAP	RD	11/30/2010	11/22/2010	PER VA PUMP & MOTOR LIST, SEPTIC TANK PUMPED 10/11/10

of Pump-outs/Inspections Reported for 2010:

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2011

200800020	539		ALLENS MILL	RD	03/15/2011	03/15/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 2/15/11
200800128	545		ALLENS MILL	RD	03/09/2011	05/06/2011	SEPTIC TANK PUMPED 5/5/11
200800131	553		ALLENS MILL	RD	03/09/2011	04/26/2011	SEPTIC TANK PUMPED 4/19/11
201000535	579		ALLENS MILL	RD	03/09/2011	06/24/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 5/2/11
200600939	593		ALLENS MILL	RD	02/09/2011	02/08/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 1/31/11
201000534	597		ALLENS MILL	RD	03/09/2011	04/19/2011	SEPTIC TANK PUMPED 4/15/11
201000533	603		ALLENS MILL	RD	03/09/2011	05/09/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 4/15/11
201000032	608		ALLENS MILL	RD	09/17/2010	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12-2-10.
201000033	614		ALLENS MILL	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.

<u>APNO</u>	<u>STNO</u>	<u>STSUB</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>ISSDTM</u>	<u>COMPDTM</u>	<u>COMMENTS</u>
201000034	615		ALLENS MILL	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.
201000035	617		ALLENS MILL	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.
201000037	619		ALLENS MILL	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.
201000017	100		BACK FORTY	LOOP	09/17/2010	03/09/2011	PER MELINDA, FINAL BUILDING PERMIT COMPLETED 1/14/09. SEPTIC PUMP OUT DUE 2/28/14.
200100530	266		BARLOW	RD	04/01/2011	04/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 3/25/11
201000023	291		BARLOW	RD	03/09/2011	04/08/2011	SEPTIC TANK PUMPED 12/10/10
200100517	291	A	BARLOW	RD	01/05/2011	01/04/2011	SEPTIC TANK PUMPED 11/30/10
200100518	297		BARLOW	RD	04/05/2011	04/04/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 3/30/11.
200300699	3410		BIG BETHEL	RD	03/11/2011	03/11/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 2/28/11.
201100003	206		BURTS	RD	01/10/2011	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12-20-10.
201000491	166		CARDINAL	LN	09/17/2010	03/08/2011	PER MELINDA'S E-MAIL FROM NANCY ROWE, ADDRESS IS BEING BILLED FOR SEWER. CLOSE OUT.
200300354	102		CHEADLE POINT	RD	02/09/2011	02/08/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 1-10-11
200100286	141		CHERWELL	CT	02/05/2010	04/25/2011	SEPTIC TANK PUMPED 4/21/11
200100298	210		CHERWELL	CT	02/05/2010	03/24/2011	SEPTIC TANK PUMPED 11/21/08
201100191	302		COCKLETOWN	RD	04/13/2011	04/12/2011	SEPTIC TANK PUMPED 9/5/08
201100193	803		COCKLETOWN	RD	06/24/2011	06/24/2011	CONNECTED TO SEWER 5/17/11
200300403	203		COLLEEN	DR	06/24/2011	06/24/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 5/31/11
201000515	120		COURT	RD	09/17/2010	03/07/2011	PER MELINDA, PLUMBING PERMIT FINAL JANUARY 2008. DUE TO PUMP OUT 1/31/2013.
200800151	101		CREEK POINT	CIR	03/09/2011	06/23/2011	SEPTIC TANK PUMPED 6/14/11
200800154	201		CREEK POINT	CIR	03/09/2011	05/04/2011	SEPTIC TANK PUMPED 4/25/11
201000524	300		CRINER	LN	03/09/2011	03/11/2011	PER MELINDA. CLOSE OUT. ON COUNTY SEWER.
200100471	110		FENTON MILL	RD	06/24/2011	06/15/2011	PER VIRGINIA PUMP & MOTOR'S LIST, SEPTIC TANK PUMPED 4/15/11
200500332	1403	A	GEO WASH MEM	HWY	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/25/11
200600955	1403		GEO WASH MEM	HWY	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/25/11
200600970	1403	B	GEO WASH MEM	HWY	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/25/11
200600971	1403	C	GEO WASH MEM	HWY	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/25/11
201000497	2320		GEO WASH MEM	HWY	09/17/2010	01/20/2011	CLOSE OUT. OLD STRUCTURE. NO VALUE. VACANT
201000492	2720		GEO WASH MEM	HWY	03/09/2011	03/15/2011	PER MELINDA, CLOSE OUT. NO SEPTIC SYSTEM. PARKING LOT.
201000494	5101		GEO WASH MEM	HWY	09/17/2010	01/14/2011	CLOSE OUT. ON SEWER, PER MELINDA.
201000499	5758		GEO WASH MEM	HWY	09/17/2010	01/20/2011	UNIT WITHIN GRAFTON SHOPPING CENTER. CLOSE OUT.
201000500	6207		GEO WASH MEM	HWY	09/17/2010	01/20/2011	BILLING COMMERCIAL. VERY LOW USAGE, USUALLY MINIMUM. CLOSE OUT PER MELINDA.
201000516	7331		GEO WASH MEM	HWY	09/17/2010	01/20/2011	SEPTIC TANK PUMPED 1/14/11.

<u>APNO</u>	<u>STNO</u>	<u>STSUB</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>ISSDTM</u>	<u>COMPDTM</u>	<u>COMMENTS</u>
200601208	7530		GEO WASH MEM	HWY	02/09/2011	02/08/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 1/27/11
200900131	7907	A	GEO WASH MEM	HWY	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/28/11
200500336	109		GILES	LN	06/24/2011	06/15/2011	PER VIRGINIA PUMP & MOTOR'S LIST, SEPTIC TANK PUMPED 4/15/11
200600959	509		GOOSLEY	RD	03/28/2011	03/25/2011	PER VIRGINIA PUMP & MOTOR, SEPTIC TANK PUMPED 2/9/11
200500643	800		GOOSLEY	RD	01/12/2011	01/04/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 12-8-10
200500643	800		GOOSLEY	RD	04/05/2011	04/04/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 3/28/11.
201000528	317		GRAFTON	DR	03/09/2011	03/30/2011	SEPTIC TANK PUMPED 3/28/11
201000531	419		GRAFTON	DR	09/17/2010	03/09/2011	CLOSE OUT PER MELINDA. BUILDING VALUE \$100
200000202	106		GREENWOOD	DR	02/05/2010	03/31/2011	SEPTIC TANK PUMPED 3/30/11
200900070	1501		HAMPTON	HWY	03/09/2011	03/22/2011	SEPTIC TANK PUMPED 10/26/10.
200900071	1912		HAMPTON	HWY	03/09/2011	03/29/2011	SEPTIC TANK PUMPED 3/13/10.
200300257	2300		HAMPTON	HWY	02/09/2011	02/08/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 1/14/11
200300293	2823		HAMPTON	HWY	05/11/2011	05/09/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 4/15/11
201000536	3416		HAMPTON	HWY	03/09/2011	06/24/2011	SEPTIC TANK PUMPED 5/9/11
201000513	210		HARROD	LN	03/09/2011	04/21/2011	SEPTIC TANK PUMPED 4/15/11
200500646	318		HORNSBYVILLE	RD	03/15/2011	03/15/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 2/21/11
200500497	1109		HORNSBYVILLE	RD	05/11/2011	05/09/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 4/18/11
200100368	419		HUDSON	DR	05/11/2011	05/04/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 4/15/11
201000020	114		J. FARM	LN	03/09/2011	03/18/2011	SEPTIC TANK PUMPED 3/16/11
200500776	300		JANIS	DR	02/09/2011	02/08/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 1/31/11
201000472	309		JETHRO	LN	03/09/2011	05/02/2011	SEPTIC TANK PUMPED 5/27/10
201000587	212		LIGHTFOOT	RD	01/12/2011	01/11/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 12/23/10
200100099	1009		LIGHTFOOT	RD	02/05/2010	03/31/2011	SEPTIC TANK PUMPED 5/11/10.
200900518	407		LOTZ	DR	03/09/2011	05/04/2011	SEPTIC TANK PUMPED 5/2/11
201000106	601		LOTZ	DR	03/09/2011	05/06/2011	SEPTIC TANK PUMPED 4/29/11
201000495	1007		MOORE HOUSE	RD	09/17/2010	01/04/2011	PER DYE TEST CONDUCTED 10/27/10, RESIDENCE IS CONNECTED TO SEWER. CLOSE OUT.
201000072	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000073	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000068	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000069	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000070	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000071	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000066	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000067	4000		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000064	5210		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000063	5210		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11
201000065	5210		NEWMAN	RD	03/09/2011	05/11/2011	SEPTIC TANK PUMPED 5/3/11

<u>APNO</u>	<u>STNO</u>	<u>STSUB</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>ISSDTM</u>	<u>COMPDTM</u>	<u>COMMENTS</u>
200500673	206		OAK POINT	DR	04/13/2011	04/12/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 3/21/11.
200500763	100		OAK POINT	LN	02/25/2011	02/17/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 1/25/11.
200100165	508		OLD TAYLOR	RD	02/05/2010	04/08/2011	SEPTIC TANK PUMPED 4/6/11
200500526	1016		OLD YORK-HAMPTON	HWY	01/10/2011	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12-2-10.
200800490	109		PAMELA	PL	06/24/2011	06/24/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 5/6/11
200100255	119		PENN	DR	04/01/2011	04/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 3/18/11
200100256	124		PENN	DR	01/12/2011	01/11/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 12/30/10
200000693	1677		PENNIMAN	RD	02/05/2010	06/28/2011	SEPTIC TANK PUMPED 4/29/09
201000496	103		PINEHURST	DR	09/17/2010	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12-10-10.
200100173	100		QUAKER MTNG HOUSE	RD	03/03/2011	03/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 2/3/11.
201000021	145		QUAKER MTNG HOUSE	RD	03/09/2011	04/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 3/15/11
200500365	105		ROBERTS	RD	05/04/2011	04/26/2011	PER VIRGINIA PUMP & MOTOR CO. LIST, SEPTIC TANK PUMPED 3/29/11
200900495	105		SANGAREE	TWST	03/09/2011	05/05/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 4/29/11
200900496	108		SANGAREE	TWST	09/17/2010	02/17/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 1/17/11.
200000215	101		SAXON	RD	01/12/2011	01/11/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 12/9/10
200100382	203		SCHENCK	DR	01/12/2011	01/11/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 12/20/10
201000502	202		SEAFORD	RD	03/09/2011	03/22/2011	SEPTIC TANK PUMPED 3/16/11.
200500378	107		SECOND	ST	01/10/2011	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12/15/10.
200100611	188		SKIMINO	RD	02/04/2011	02/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 1/4/11.
200100638	232		SKIMINO	RD	06/24/2011	06/16/2011	PER VIRGINIA PUMP & MOTOR'S LIST, SEPTIC TANK PUMPED 5/20/11
200800324	103		SKIMINO LANDING	DR	04/01/2011	04/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 3/23/11
200800339	302		SKIMINO LANDING	DR	02/04/2011	02/01/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 1/18/11.
201000523	1215		VICTORY	BLVD	03/09/2011	05/09/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 4/16/11
200900151	1625		VICTORY	BLVD	03/11/2011	03/11/2011	PER HOGGE'S LIST, SEPTIC TANK PUMPED 02/09/11.
200800348	198		WEST QUEENS	DR	05/11/2011	05/04/2011	PER PARSLEY'S LIST, SEPTIC TANK PUMPED 4/16/11
200000555	210		WEST QUEENS	DR	03/15/2011	03/15/2011	PER ZIEGLER'S LIST, SEPTIC TANK PUMPED 2/22/11
200100664	104		WILSON	DR	02/25/2011	02/16/2011	SEPTIC TANK PUMPED 12-19-10.
200500838	1209		WOLF TRAP	RD	01/10/2011	01/07/2011	PER WOOD'S LIST, SEPTIC TANK PUMPED 12-29-10.
201000038	1301		WOLF TRAP	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.
201000039	1313		WOLF TRAP	RD	09/17/2010	01/19/2011	WOLF TRAP SEWER PROJECT. DESIGN STAGE MAY. HAVE SERVICE BY END OF 2012.

of Pump-outs/Inspections Reported for 2011:

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<u>APNO</u>	<u>STNO</u>	<u>STSUB</u>	<u>STNAME</u>	<u>SUFFIX</u>	<u>ISSDTM</u>	<u>COMPDTM</u>	<u>COMMENTS</u>
Total # of Pump-outs /Inspections Reported:					277		

Impaired Waters

Permittee	HUC Watershed	Watershed Name	LandUse	Area - Ac.	PerImperv
York	CB21	Poquoson River	Conservation	4599.97	1
York	CB21	Poquoson River	Agricultural	297.85	1
York	CB21	Poquoson River	Commercial	416.15	52
York	CB21	Poquoson River	General Industrial	786.27	16
York	CB21	Poquoson River	Limited Industrial	209.55	31
York	CB21	Poquoson River	Multi-Family Residential	247.82	41
York	CB21	Poquoson River	Public/Semi-Public	559.81	20
York	CB21	Poquoson River	Single-Family Residential	5955.79	14
York	CB21	Poquoson River	Vacant	4166.46	1
York	CB21	Poquoson River	Tourist Commercial	7.38	58
			Total	17,247.05	
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Conservation	619.10	1
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Agricultural	6.87	12
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Commercial	128.91	65
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	General Industrial	6.46	28
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Limited Industrial	55.90	61
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Multi-Family Residential	243.45	39
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Military	396.80	23
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Public/Semi-Public	107.28	29
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Single-Family Residential	1315.22	21
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Vacant	399.79	1
York	CB22	Northwest Branch - Back River/Brick Kiln Creek	Tourist Commercial	2.12	56
			Total	3,281.90	
York	JL38	Warwick River	Conservation	5119.21	1
York	JL38	Warwick River	Commercial	6.91	27
York	JL38	Warwick River	General Industrial	2.85	9
York	JL38	Warwick River	Multi-Family Residential	23.24	28
York	JL38	Warwick River	Military	174.08	10
York	JL38	Warwick River	Public/Semi-Public	62.52	20
York	JL38	Warwick River	Single-Family Residential	261.73	14
York	JL38	Warwick River	Vacant	367.68	1
			Total	6,018.21	
			TOTAL	26,547.17	

Report Date 10/03/2011 03:43 PM

Submitted By

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Search Criteria: Exact Sort By Serv # Ascend Service Req Status ALL
 Search Style IDDC
 Show Linked
 Problem 07/01/2010 00:00 To 06/30/2011 23:59

Service Request Summary

Service #	66077	Problem	IDDC	Link #	1	Priority	1	A/P Attached	N	Problem Date	03/01/2011 15:35
Address	5005 VICTORY BLVD B					Taken By	MM/CEL	Project		Scheduled Date	
Cross Street						Responsibility	U	Source		Start Date	
Cross Street						Map #		Resolve Code	RES	Inspection Date	
Name										Resolve Date	03/04/2011 10:29
Location	SUPER KMART SHOPPING COMPLEX										

Service #	66300	Problem	IDDC	Link #	1	Priority	1	A/P Attached	N	Problem Date	03/10/2011 12:44
Address						Taken By	RT	Project		Scheduled Date	
Cross Street						Responsibility	U	Source		Start Date	
Cross Street						Map #		Resolve Code		Inspection Date	
Name										Resolve Date	
Location	PRODUCTION DRIVE										

Service #	67080	Problem	IDDC	Link #	1	Priority	1	A/P Attached	N	Problem Date	06/01/2011 12:16
Address	103 GNARLED OAK LN					Taken By	VG	Project		Scheduled Date	07/01/2011 09:39
Cross Street						Responsibility	U	Source		Start Date	06/03/2011 09:42
Cross Street						Map #		Resolve Code		Inspection Date	
Name	HAYWOOD									Resolve Date	
Location	GRAFTON WOODS - CORNER OF GNARLED OAK LANE AND FALLING SPRING RUN										

Service #	67635	Problem	IDDC	Link #	1	Priority	1	A/P Attached	N	Problem Date	06/23/2011 10:23
Address						Taken By	VG	Project		Scheduled Date	
Cross Street						Responsibility	U	Source		Start Date	
Cross Street						Map #		Resolve Code	RES	Inspection Date	
Name	ANONYMOUS									Resolve Date	06/23/2011 16:17
Location	YORKTOWN - COOK ROAD PAST DOCTORS' OFFICES ON RIGHT (GOING TOWARDS BEACH)										

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:25 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

SSORS ID:	102626	Reported:	07/07/10 3:28 PM	Amount Spilled:	200 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	07/07/10 3:28 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	07/05/10 10:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	07/06/10 12:15 AM
	Riverwalk Landing	Final Submittal:		Spill Duration:	2 hour(s) 15 minute(s)
Responsible Party:	Resturant			SSO Classification:	Maintenance-Grease
Site Name:	Riverwalk Landing				
Cordinates:					

Description Of Incident

Sewerage backed up in the Riverwalk Landing Resturant, On-call personnel responded and cleared grease blockage from lateral

Possible Receptors

York River

Description of Materials

Sanitary Sewer

Corrective Action

Routine Grease Trap Insspections

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102626	Reported:	07/07/10 3:28 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102626	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	07/07/10 3:32 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	07/05/10 10:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	07/06/10 12:15 AM
	Riverwalk Landing	Final Submittal:		Spill Duration:	2 hour(s) 15 minute(s)
Responsible Party:	Resturant			SSO Classification:	Maintenance-Grease
Site Name:	Riverwalk Landing				
Cordinates:					

Description Of Incident

Sewerage backed up in the Riverwalk Landing Resturant, On-call personnel responded and cleared grease blockage from lateral

Possible Receptors

York River

Description of Materials

Sanitary Sewer

Corrective Action

Routine Grease Trap Insspections

DEQ Comments (Reviewed 7/7/2010 3:32:44 PM by Tammy Snell)

Date of incident 7/5/10; DEQ notified 7/7/10

Attachments

None.

SSORS ID:	102626	Reported:	07/07/10 3:28 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102626	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	08/12/10 4:34 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	07/05/10 10:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	07/06/10 12:15 AM

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Responsible Party: Riverwalk Landing Restaurant
Site Name: Riverwalk Landing
Final Submittal: 08/12/10 4:34 PM
Spill Duration: 2 hour(s) 15 minute(s)
SSO Classification: Maintenance-Grease
Cordinates:

Description Of Incident

Sewerage backed up in the Riverwalk Landing Resturant, On-call personnel responded and cleared grease blockage from lateral

Possible Receptors

York River

Description of Materials

Sanitary Sewer

Corrective Action

Routine Grease Trap Insspections

DEQ Comments (Reviewed 7/7/2010 3:32:44 PM by Tammy Snell)

Date of incident 7/5/10; DEQ notified 7/7/10

Attachments

None.

SSORS ID:	102659	Reported:	08/12/10 4:33 PM	Amount Spilled:	240 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	08/12/10 4:33 PM	Reaching State Waters:	240 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	08/11/10 3:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/11/10 8:00 PM
Responsible Party:	Young Construction Company	Final Submittal:		Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Victory Blvd & Hampton Highway			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor performing a jack & bore under Hampton Highway damage a 10" diameter line that provided sanitary sewer service to a gas station and a contractor's administration offices.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Operations emergency on-call personnel responded to the damaged line and made a temporay repair. Adequate repair bands need to be ordered and a larger area excavated for the permanent fix.

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102659	Reported:	08/12/10 4:33 PM	Amount Spilled:	240 Gallons
DEQ IR #:	SSORS#2011-T-102659	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	08/13/10 8:04 AM	Reaching State Waters:	240 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	08/11/10 3:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/11/10 8:00 PM
Responsible Party:	Young Construction Company	Final Submittal:		Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Victory Blvd & Hampton Highway			SSO Classification:	Damage By Others

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Cordinates:****Description Of Incident**

Contractor performing a jack & bore under Hampton Highway damage a 10" diameter line that provided sanitary sewer service to a gas station and a contractor's administration offices.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Operations emergency on-call personnel responded to the damaged line and made a temporary repair. Adequate repair bands need to be ordered and a larger area excavated for the permanent fix.

DEQ Comments

(Reviewed 8/13/2010 8:04:21 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102659	Reported:	08/12/10 4:33 PM	Amount Spilled:	240 Gallons
DEQ IR #:	SSORS#2011-T-102659	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	09/14/10 1:16 PM	Reaching State Waters:	240 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	08/11/10 3:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/11/10 8:00 PM
Responsible Party:	Young Construction Company	Final Submittal:	09/14/10 1:16 PM	Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Victory Blvd & Hampton Highway			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor performing a jack & bore under Hampton Highway damage a 10" diameter line that provided sanitary sewer service to a gas station and a contractor's administration offices.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Operations emergency on-call personnel responded to the damaged line and made a temporary repair. Adequate repair bands need to be ordered and a larger area excavated for the permanent fix.

DEQ Comments

(Reviewed 8/13/2010 8:04:21 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102675	Reported:	08/31/10 2:04 PM	Amount Spilled:	200 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	08/31/10 2:04 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	08/27/10 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/27/10 6:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

911 Center contacted Emergency On-Call personnel at 4:30pm on 8/27. Upon arrival Utilities discovered that the 4" cap on the lateral had been removed and sanitary sewer was backing up. Utilities cleared the blockage in the lateral and installed 4" cap.

Possible Receptors

Ground water

Description of Materials

Sanitary sewer

Corrective Action

CCTV of main line and lateral scheduled

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102675	Reported:	08/31/10 2:04 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102675	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	08/31/10 2:17 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	08/27/10 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/27/10 6:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

911 Center contacted Emergency On-Call personnel at 4:30pm on 8/27. Upon arrival Utilities discovered that the 4" cap on the lateral had been removed and sanitary sewer was backing up. Utilities cleared the blockage in the lateral and installed 4" cap.

Possible Receptors

Ground water

Description of Materials

Sanitary sewer

Corrective Action

CCTV of main line and lateral scheduled

DEQ Comments

(Reviewed 8/31/2010 2:17:33 PM by Tammy Snell)

Incident date 8/27/10; DEQ notified 8/31/10

Attachments

None.

SSORS ID:	102675	Reported:	08/31/10 2:04 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102675	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	09/14/10 1:16 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	08/27/10 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	08/27/10 6:00 PM
Responsible Party:	York County	Final Submittal:	09/14/10 1:16 PM	Spill Duration:	1 hour(s) 30 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

911 Center contacted Emergency On-Call personnel at 4:30pm on 8/27. Upon arrival Utilities discovered that the 4" cap on the lateral had been removed and sanitary sewer was backing up. Utilities cleared the blockage in the lateral and installed 4" cap.

Possible Receptors

Ground water

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Sanitary sewer

Corrective Action

CCTV of main line and lateral scheduled

DEQ Comments

(Reviewed 8/31/2010 2:17:33 PM by Tammy Snell)

Incident date 8/27/10; DEQ notified 8/31/10

Attachments

None.

SSORS ID:	102679	Reported:	09/14/10 1:15 PM	Amount Spilled:	300 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	09/14/10 1:15 PM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/11/10 12:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/12/10 6:30 PM
					30 hour(s) 30 minute (s)
Responsible Party:	Private	Final Submittal:		Spill Duration:	(s)
Site Name:	304 Old Lakeside Drive			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor damaged private lateral

Possible Receptors

Ground Water, Patricks Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations crew repaired damaged to private lateral and Utilites is working with the property owner to reroute their on-site plumbing to a new lateral location

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102679	Reported:	09/14/10 1:15 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2011-T-102679	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	09/14/10 1:18 PM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/11/10 12:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/12/10 6:30 PM
					30 hour(s) 30 minute (s)
Responsible Party:	Private	Final Submittal:		Spill Duration:	(s)
Site Name:	304 Old Lakeside Drive			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor damaged private lateral

Possible Receptors

Ground Water, Patricks Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations crew repaired damaged to private lateral and Utilites is working with the property owner to reroute their on-site plumbing to a new lateral location

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**DEQ Comments** (Reviewed 9/14/2010 1:18:45 PM by Tammy Snell)

Incident occurred 9/11/10; DEQ notified 9/14/10

Attachments

None.

SSORS ID:	102679	Reported:	09/14/10 1:15 PM	Amount Spilled:	300 Gallons
DEQ IR #:	SSORS#2011-T-102679	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	09/24/10 3:57 PM	Reaching State Waters:	300 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/11/10 12:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/12/10 6:30 PM
					30 hour(s) 30 minute(s)
Responsible Party:	Private	Final Submittal:	09/24/10 3:57 PM	Spill Duration:	
Site Name:	304 Old Lakeside Drive			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor damaged private lateral

Possible Receptors

Ground Water, Patricks Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations crew repaired damaged to private lateral and Utilites is working with the property owner to reroute their on-site plumbing to a new lateral location

DEQ Comments (Reviewed 9/14/2010 1:18:45 PM by Tammy Snell)

Incident occurred 9/11/10; DEQ notified 9/14/10

Attachments

None.

SSORS ID:	102759	Reported:	10/01/10 3:01 PM	Amount Spilled:	20250 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/01/10 3:01 PM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 9:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 3:45 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	6 hour(s) 45 minute(s)
Site Name:	Lackey PS #45			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rains from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Newport News Waterworks Harwood Mills Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Lackey PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

SSORS ID:	102759	Reported:	10/01/10 3:01 PM	Amount Spilled:	20250 Gallons
DEQ IR #:	SSORS#2011-T-102759	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/10 7:32 AM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 9:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 3:45 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	6 hour(s) 45 minute(s)
Site Name:	Lackey PS #45			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rains from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Newport News Waterworks Harwood Mills Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Lackey PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:32:31 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102759	Reported:	10/01/10 3:01 PM	Amount Spilled:	20250 Gallons
DEQ IR #:	SSORS#2011-T-102759	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/10 3:22 PM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 9:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 3:45 AM
Responsible Party:	York County	Final Submittal:	10/27/10 3:22 PM	Spill Duration:	6 hour(s) 45 minute(s)
Site Name:	Lackey PS #45			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rains from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Newport News Waterworks Harwood Mills Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Lackey PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:32:31 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102761	Reported:	10/01/10 3:12 PM	Amount Spilled:	450 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Asset ID:		Last Edited	10/01/10 3:12 PM	Reaching State Waters:	450 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 10:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 11:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Williamsburg Hospital PS #64			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Waller Mill Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Wmbg Hospital PS collection basin is part of the county's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102761	Reported:	10/01/10 3:12 PM	Amount Spilled:	450 Gallons
DEQ IR #:	SSORS#2011-T-102761	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/10 7:34 AM	Reaching State Waters:	450 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 10:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 11:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Williamsburg Hospital PS #64			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Waller Mill Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Wmbg Hospital PS collection basin is part of the county's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:34:31 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102761	Reported:	10/01/10 3:12 PM	Amount Spilled:	450 Gallons
DEQ IR #:	SSORS#2011-T-102761	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/10 3:23 PM	Reaching State Waters:	450 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 10:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 11:30 PM

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Responsible Party:	York County	Final Submittal:	10/27/10 3:23 PM	Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Williamsburg Hospital PS #64	SSO Classification:			Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system and the interceptor force main pressures increased reducing the pumping capacity of the station

Possible Receptors

Waller Mill Reservoir Watershed

Description of Materials

Sanitary Sewer

Corrective Action

Wmbg Hospital PS collection basin is part of the county's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:34:31 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102763	Reported:	10/01/10 3:22 PM	Amount Spilled:	1125 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/01/10 3:22 PM	Reaching State Waters:	1125 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 8:15 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Pinetree PS collection basin is part of the County's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102763	Reported:	10/01/10 3:22 PM	Amount Spilled:	1125 Gallons
DEQ IR #:	SSORS#2011-T-102763	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/10 7:36 AM	Reaching State Waters:	1125 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 8:15 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Pinetree PS collection basin is part of the County's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments

(Reviewed 10/4/2010 7:36:06 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102763	Reported:	10/01/10 3:22 PM	Amount Spilled:	1125 Gallons
DEQ IR #:	SSORS#2011-T-102763	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/27/10 3:23 PM	Reaching State Waters:	1125 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 8:15 AM
Responsible Party:	York County	Final Submittal:	10/27/10 3:23 PM	Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Pinetree PS collection basin is part of the County's Sewer system Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments

(Reviewed 10/4/2010 7:36:06 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102764	Reported:	10/01/10 4:06 PM	Amount Spilled:	900 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/01/10 4:06 PM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 8:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 9:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Sanitary sewer

Corrective Action

Pine Tree PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102764	Reported:	10/01/10 4:06 PM	Amount Spilled:	900 Gallons
DEQ IR #:	SSORS#2011-T-102764	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/10 7:38 AM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 8:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 9:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

Sanitary sewer

Corrective Action

Pine Tree PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:38:29 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102764	Reported:	10/01/10 4:06 PM	Amount Spilled:	900 Gallons
DEQ IR #:	SSORS#2011-T-102764	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/10 3:24 PM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 8:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 9:30 PM
Responsible Party:	York County	Final Submittal:	10/27/10 3:24 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Pine Tree PS #03			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Jones Pond/ Kings Creek

Description of Materials

Sanitary sewer

Corrective Action

Pine Tree PS collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:38:29 AM by Tammy Snell)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	102766	Reported:	10/01/10 4:12 PM	Amount Spilled:	525 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/01/10 4:12 PM	Reaching State Waters:	525 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 7:35 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Hickory Hills PS #06			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Quuens Lake/ Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Hickory Hills PS is collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102766	Reported:	10/01/10 4:12 PM	Amount Spilled:	525 Gallons
DEQ IR #:	SSORS#2011-T-102766	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/04/10 7:39 AM	Reaching State Waters:	525 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 7:35 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Hickory Hills PS #06			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Quuens Lake/ Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Hickory Hills PS is collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:39:52 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102766	Reported:	10/01/10 4:12 PM	Amount Spilled:	525 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

DEQ IR #:	SSORS#2011-T-102766	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/27/10 3:24 PM	Reaching State Waters:	525 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 7:35 AM
Responsible Party:	York County	Final Submittal:	10/27/10 3:24 PM	Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Hickory Hills PS #06			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Quuens Lake/ Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Hickory Hills PS is collection basin is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:39:52 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102769	Reported:	10/01/10 4:28 PM	Amount Spilled:	20250 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/01/10 4:28 PM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 2:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 1:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	11 hour(s) 15 minute(s)
Site Name:	Rolling Hills Gravity			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling Hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102769	Reported:	10/01/10 4:28 PM	Amount Spilled:	20250 Gallons
DEQ IR #:	SSORS#2011-T-102769	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/04/10 7:42 AM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 2:30 AM

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Spilled-In Jurisdiction:	York	Phoned In:	Date Under Control:	09/30/10 1:45 PM 11 hour(s) 15 minute (s)
Responsible Party:	York County	Final Submittal:	Spill Duration:	
Site Name:	Rolling Hills Gravity		SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling Hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:42:06 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102769	Reported:	10/01/10 4:28 PM	Amount Spilled:	20250 Gallons
DEQ IR #:	SSORS#2011-T-102769	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/10 3:24 PM	Reaching State Waters:	20250 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 2:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	09/30/10 1:45 PM 11 hour(s) 15 minute (s)
Responsible Party:	York County	Final Submittal:	10/27/10 3:24 PM	Spill Duration:	
Site Name:	Rolling Hills Gravity			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling Hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:42:06 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102771	Reported:	10/01/10 4:36 PM	Amount Spilled:	12900 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/01/10 4:36 PM	Reaching State Waters:	12900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 2:10 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	7 hour(s) 10 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Site Name:** Rolling Hills Gravity**SSO Classification:** Capacity-Weather Related**Cordinates:****Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102771	Reported:	10/01/10 4:36 PM	Amount Spilled:	12900 Gallons
DEQ IR #:	SSORS#2011-T-102771	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/04/10 7:43 AM	Reaching State Waters:	12900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	09/30/10 7:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 2:10 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	7 hour(s) 10 minute(s)
Site Name:	Rolling Hills Gravity			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments (Reviewed 10/4/2010 7:43:36 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102771	Reported:	10/01/10 4:36 PM	Amount Spilled:	12900 Gallons
DEQ IR #:	SSORS#2011-T-102771	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	10/27/10 3:25 PM	Reaching State Waters:	12900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	09/30/10 7:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/01/10 2:10 AM
Responsible Party:	York County	Final Submittal:	10/27/10 3:25 PM	Spill Duration:	7 hour(s) 10 minute(s)
Site Name:	Rolling Hills Gravity			SSO Classification:	Capacity-Weather Related

Cordinates:**Description Of Incident**

Rain from tropical storm caused excessive inflow/infiltration in the collection system

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Possible Receptors**

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

Gravity service area to the Rolling hills PS is part of the County's Sewer System Evaluation Survey (SSES) plan for evaluation and rehabilitation

DEQ Comments

(Reviewed 10/4/2010 7:43:36 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102824	Reported:	10/20/10 3:34 PM	Amount Spilled:	40000 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	36000 Gallons
Asset ID:		Last Edited:	10/20/10 3:34 PM	Reaching State Waters:	4000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/20/10 4:45 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/20/10 6:30 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	Victory Boulevard & Yorktown Road			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor for HRSD was jack and boring a 42" casing pipe underneath Yorktown Road and hit the County's 10" force main

Possible Receptors

Lambs Creek

Description of Materials

Sanitary Sewer

Corrective Action

Pump stations were shut down, applicable valves were closed and a pump and haul operation was commenced. Work is still on going to repair the damaged 10" force main.

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102824	Reported:	10/20/10 3:34 PM	Amount Spilled:	40000 Gallons
DEQ IR #:	SSORS#2011-T-102824	Reported by:	Administrator York	Amount Recovered:	36000 Gallons
Asset ID:		Last Edited:	10/20/10 3:39 PM	Reaching State Waters:	4000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	10/20/10 4:45 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/20/10 6:30 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	Victory Boulevard & Yorktown Road			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor for HRSD was jack and boring a 42" casing pipe underneath Yorktown Road and hit the County's 10" force main

Possible Receptors

Lambs Creek

Description of Materials

Sanitary Sewer

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Corrective Action**

Pump stations were shut down, applicable valves were closed and a pump and haul operation was commenced. Work is still on going to repair the damaged 10" force main.

DEQ Comments (Reviewed 10/20/2010 3:39:18 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102824	Reported:	10/20/10 3:34 PM	Amount Spilled:	40000 Gallons
DEQ IR #:	SSORS#2011-T-102824	Reported by:	Administrator York	Amount Recovered:	36000 Gallons
Asset ID:		Lasted Edited	10/27/10 3:26 PM	Reaching State Waters:	4000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/20/10 4:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/20/10 6:30 AM
Responsible Party:	York County	Final Submittal:	10/27/10 3:26 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	Victory Boulevard & Yorktown Road			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor for HRSD was jack and boring a 42" casing pipe underneath Yorktown Road and hit the County's 10" force main

Possible Receptors

Lambs Creek

Description of Materials

Sanitary Sewer

Corrective Action

Pump stations were shut down, applicable valves were closed and a pump and haul operation was commenced. Work is still on going to repair the damaged 10" force main.

DEQ Comments (Reviewed 10/20/2010 3:39:18 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102829	Reported:	10/22/10 4:10 PM	Amount Spilled:	25 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	2 Gallons
Asset ID:		Lasted Edited	10/22/10 4:10 PM	Reaching State Waters:	23 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/19/10 5:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/19/10 6:15 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Dawn Place			SSO Classification:	Maintenance-Roots

Cordinates:**Description Of Incident**

Homeowner was having a back-up and called the emergency number for Utilitites'. Utilities' on-call personel responded and found that roots had grown from the private side lateral to our clean-out.

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

Corrective Action

Roots were removed from our clean-out assembly and the private side lateral. Work Order has been submitted to repair cracked pipe and to remove any remaining roots.

DEQ Comments not yet reviewed

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	102829	Reported:	10/22/10 4:10 PM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2011-T-102829	Reported by:	Administrator York	Amount Recovered:	2 Gallons
Asset ID:		Last Edited:	10/22/10 4:15 PM	Reaching State Waters:	23 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	10/19/10 5:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/19/10 6:15 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Dawn Place			SSO Classification:	Maintenance-Roots

Cordinates:**Description Of Incident**

Homeowner was having a back-up and called the emergency number for Utilities'. Utilities' on-call personel responded and found that roots had grown from the private side lateral to our clean-out.

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

Corrective Action

Roots were removed from our clean-out assembly and the private side lateral. Work Order has been submitted to repair cracked pipe and to remove any remaining roots.

DEQ Comments (Reviewed 10/22/2010 4:15:15 PM by Tammy Snell)

Incident date 10/19/10; DEQ notified 10/22/10

Attachments

None.

SSORS ID:	102829	Reported:	10/22/10 4:10 PM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2011-T-102829	Reported by:	Administrator York	Amount Recovered:	2 Gallons
Asset ID:		Last Edited:	10/27/10 3:26 PM	Reaching State Waters:	23 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/19/10 5:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/19/10 6:15 PM
Responsible Party:	York County	Final Submittal:	10/27/10 3:26 PM	Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Dawn Place			SSO Classification:	Maintenance-Roots

Cordinates:**Description Of Incident**

Homeowner was having a back-up and called the emergency number for Utilities'. Utilities' on-call personel responded and found that roots had grown from the private side lateral to our clean-out.

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

Corrective Action

Roots were removed from our clean-out assembly and the private side lateral. Work Order has been submitted to repair cracked pipe and to remove any remaining roots.

DEQ Comments (Reviewed 10/22/2010 4:15:15 PM by Tammy Snell)

Incident date 10/19/10; DEQ notified 10/22/10

Attachments

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

SSORS ID:	102838	Reported:	10/26/10 7:41 PM	Amount Spilled:	500 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/26/10 7:41 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/25/10 8:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/25/10 11:45 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	3 hour(s) 45 minute(s)
Site Name:	Kings Bottom			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

Maintenance crews were called out to the Church on Hampton Highway by our drainage crews and found that the 6" Clean-out plug had been removed and that the service lateral had grease build-up.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Cleaned the service line to the church and installed locking 6" clean-out cap on stand pipe

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102838	Reported:	10/26/10 7:41 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2011-T-102838	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	10/27/10 7:11 AM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	10/25/10 8:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/25/10 11:45 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	3 hour(s) 45 minute(s)
Site Name:	Kings Bottom			SSO Classification:	Maintenance-Grease

Cordinates:**Description Of Incident**

Maintenance crews were called out to the Church on Hampton Highway by our drainage crews and found that the 6" Clean-out plug had been removed and that the service lateral had grease build-up.

Possible Receptors

Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Cleaned the service line to the church and installed locking 6" clean-out cap on stand pipe

DEQ Comments (Reviewed 10/27/2010 7:11:19 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102838	Reported:	10/26/10 7:41 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2011-T-102838	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	11/15/10 1:52 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	10/25/10 8:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	10/25/10 11:45 AM

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Received notification from 911 dispatch and on-call crews responded. Crews found that galvanized pipe on air bleed off had split and shut down pump stations and closed force main valve. Crews replaced bleed-off pipe with stainless steel and re-established flow.

Possible Receptors

Moores Creek

Description of Materials

Sanitary Sewer

Corrective Action

Crews replaced deteriorated galvanize pipe on air release valve with a stainless steel pipe

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102855	Reported:	11/15/10 2:02 PM	Amount Spilled:	4500 Gallons
DEQ IR #:	SSORS#2010-T-102855	Reported by:	Administrator York	Amount Recovered:	3600 Gallons
Asset ID:		Last Edited	11/16/10 2:17 PM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	John Settle	Spill Date:	11/14/10 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	11/14/10 3:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Calthrop Neck Road			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Received notification from 911 dispatch and on-call crews responded. Crews found that galvanized pipe on air bleed off had split and shut down pump stations and closed force main valve. Crews replaced bleed-off pipe with stainless steel and re-established flow.

Possible Receptors

Moores Creek

Description of Materials

Sanitary Sewer

Corrective Action

Crews replaced deteriorated galvanize pipe on air release valve with a stainless steel pipe

DEQ Comments

(Reviewed 11/16/2010 2:17:07 PM by John Settle)

None.

Attachments

None.

SSORS ID:	102855	Reported:	11/15/10 2:02 PM	Amount Spilled:	4500 Gallons
DEQ IR #:	SSORS#2011-T-102855	Reported by:	Administrator York	Amount Recovered:	3600 Gallons
Asset ID:		Last Edited	11/22/10 8:01 AM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	11/14/10 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	11/14/10 3:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Calthrop Neck Road			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Received notification from 911 dispatch and on-call crews responded. Crews found that galvanized pipe on air bleed off had split and shut down pump stations and closed force main valve. Crews replaced bleed-off pipe with stainless steel and re-established flow.

Possible Receptors

Moores Creek

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Sanitary Sewer

Corrective Action

Crews replaced deteriorated galvanize pipe on air release valve with a stainless steel pipe

DEQ Comments (Reviewed 11/22/2010 8:01:12 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102855	Reported:	11/15/10 2:02 PM	Amount Spilled:	4500 Gallons
DEQ IR #:	SSORS#2011-T-102855	Reported by:	Administrator York	Amount Recovered:	3600 Gallons
Asset ID:		Last Edited	12/14/10 3:44 PM	Reaching State Waters:	900 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	11/14/10 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	11/14/10 3:30 PM
Responsible Party:	York County	Final Submittal:	12/14/10 3:44 PM	Spill Duration:	4 hour(s) 30 minute(s)
Site Name:	Calthrop Neck Road			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Received notification from 911 dispatch and on-call crews responded. Crews found that galvanized pipe on air bleed off had split and shut down pump stations and closed force main valve. Crews replaced bleed-off pipe with stainless steel and re-established flow.

Possible Receptors

Moores Creek

Description of Materials

Sanitary Sewer

Corrective Action

Crews replaced deteriorated galvanize pipe on air release valve with a stainless steel pipe

DEQ Comments (Reviewed 11/22/2010 8:01:12 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102886	Reported:	12/07/10 1:59 PM	Amount Spilled:	50 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	3 Gallons
Asset ID:		Last Edited	12/07/10 1:59 PM	Reaching State Waters:	47 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/01/10 11:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/01/10 1:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	Creekside Landing			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Home owner called Utility Operations with a sanitary sewer back-up. Crew responded and shot lateral from property owner side and cleared blockage.

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations will CCTV Main and Lateral

DEQ Comments not yet reviewed

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	102886	Reported:	12/07/10 1:59 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-102886	Reported by:	Administrator York	Amount Recovered:	3 Gallons
Asset ID:		Last Edited	12/07/10 2:09 PM	Reaching State Waters:	47 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/01/10 11:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/01/10 1:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	Creekside Landing			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Home owner called Utility Operations with a sanitary sewer back-up. Crew responded and shot lateral from property owner side and cleared blocakge.

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations will CCTV Main and Lateral

DEQ Comments (Reviewed 12/7/2010 2:09:30 PM by Tammy Snell)

Incident date 12/1/10; DEQ notified 12/7/10

Attachments

None.

SSORS ID:	102886	Reported:	12/07/10 1:59 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-102886	Reported by:	Administrator York	Amount Recovered:	3 Gallons
Asset ID:		Last Edited	12/14/10 3:45 PM	Reaching State Waters:	47 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/01/10 11:30 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/01/10 1:30 PM
Responsible Party:	York County	Final Submittal:	12/14/10 3:45 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	Creekside Landing			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Home owner called Utility Operations with a sanitary sewer back-up. Crew responded and shot lateral from property owner side and cleared blocakge.

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

Operations will CCTV Main and Lateral

DEQ Comments (Reviewed 12/7/2010 2:09:30 PM by Tammy Snell)

Incident date 12/1/10; DEQ notified 12/7/10

Attachments

None.

SSORS ID:	102892	Reported:	12/14/10 2:19 PM	Amount Spilled:	5 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	1 Gallons
Asset ID:		Last Edited:	12/14/10 2:19 PM	Reaching State Waters:	4 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/12/10 1:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/12/10 1:35 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Dale Hollow			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called emergency number for Utilities and the on-call staff person responded. Utilities' flushed and clean the sanitary sewer service line and restored flow. The service line was full of heavy paper products.

Possible Receptors

Kiln Creek

Description of Materials

Sanitary Sewer

Corrective Action

Utilities' notified property owner on the proper disposal of the heavy paper products that were being flushed down the toilet

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102892	Reported:	12/14/10 2:19 PM	Amount Spilled:	5 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	1 Gallons
Asset ID:		Last Edited:	12/14/10 3:45 PM	Reaching State Waters:	4 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/12/10 1:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/12/10 1:35 PM
Responsible Party:	York County	Final Submittal:	12/14/10 3:45 PM	Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Dale Hollow			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called emergency number for Utilities and the on-call staff person responded. Utilities' flushed and clean the sanitary sewer service line and restored flow. The service line was full of heavy paper products.

Possible Receptors

Kiln Creek

Description of Materials

Sanitary Sewer

Corrective Action

Utilities' notified property owner on the proper disposal of the heavy paper products that were being flushed down the toilet

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102892	Reported:	12/14/10 2:19 PM	Amount Spilled:	5 Gallons
DEQ IR #:	SSORS#2011-T-102892	Reported by:	Administrator York	Amount Recovered:	1 Gallons
Asset ID:		Last Edited:	12/15/10 8:11 AM	Reaching State Waters:	4 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/12/10 1:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/12/10 1:35 PM
Responsible Party:	York County	Final Submittal:	12/14/10 3:45 PM	Spill Duration:	0 hour(s) 35 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Site Name:** Dale Hollow**SSO Classification:** Maintenance-Other**Cordinates:****Description Of Incident**

Property owner called emergency number for Utilities and the on-call staff person responded. Utilities' flushed and clean the sanitary sewer service line and restored flow. The service line was full of heavy paper products.

Possible Receptors

Kiln Creek

Description of Materials

Sanitary Sewer

Corrective Action

Utilities' notified property owner on the proper disposal of the heavy paper products that were being flushed down the toilet

DEQ Comments (Reviewed 12/15/2010 8:11:51 AM by Tammy Snell)

DEQ did not receive email notification.

Attachments

None.

SSORS ID:	102892	Reported:	12/14/10 2:19 PM	Amount Spilled:	5 Gallons
DEQ IR #:	SSORS#2011-T-102892	Reported by:	Administrator York	Amount Recovered:	1 Gallons
Asset ID:		Last Edited	12/15/10 8:14 AM	Reaching State Waters:	4 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/12/10 1:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/12/10 1:35 PM
Responsible Party:	York County	Final Submittal:	12/14/10 3:45 PM	Spill Duration:	0 hour(s) 35 minute(s)
Site Name:	Dale Hollow			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called emergency number for Utilities and the on-call staff person responded. Utilities' flushed and clean the sanitary sewer service line and restored flow. The service line was full of heavy paper products.

Possible Receptors

Kiln Creek

Description of Materials

Sanitary Sewer

Corrective Action

Utilities' notified property owner on the proper disposal of the heavy paper products that were being flushed down the toilet

DEQ Comments (Reviewed 12/15/2010 8:14:37 AM by Tammy Snell)

DEQ did not received email notification.

Attachments

None.

SSORS ID:	102905	Reported:	12/21/10 2:15 PM	Amount Spilled:	25 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/21/10 2:15 PM	Reaching State Waters:	25 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/20/10 4:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Rolling Hills			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Emergency "On-Call" Staff were called and responded to a sanitary sewer back-up. Crew used Jet Rodder to clear blockage in service line.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Possible Receptors**

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV inspection of service line and downstream main scheduled and cleaning if necessary.

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102905	Reported:	12/21/10 2:15 PM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2011-T-102905	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	12/21/10 2:44 PM	Reaching State Waters:	25 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/20/10 4:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Rolling Hills			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Emergency "On-Call" Staff were called and responded to a sanitary sewer back-up. Crew used Jet Rodder to clear blockage in service line.

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV inspection of service line and downstream main scheduled and cleaning if necessary.

DEQ Comments

(Reviewed 12/21/2010 2:44:40 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102905	Reported:	12/21/10 2:15 PM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2011-T-102905	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/06/11 4:05 PM	Reaching State Waters:	25 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/20/10 4:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:45 PM
Responsible Party:	York County	Final Submittal:	01/06/11 4:05 PM	Spill Duration:	0 hour(s) 45 minute(s)
Site Name:	Rolling Hills			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Emergency "On-Call" Staff were called and responded to a sanitary sewer back-up. Crew used Jet Rodder to clear blockage in service line.

Possible Receptors

Kings Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV inspection of service line and downstream main scheduled and cleaning if necessary.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**DEQ Comments**

(Reviewed 12/21/2010 2:44:40 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102907	Reported:	12/21/10 2:31 PM	Amount Spilled:	100 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	50 Gallons
Asset ID:		Last Edited	12/21/10 2:31 PM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/20/10 12:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:05 PM
Responsible Party:	JD Ludwig Inc	Final Submittal:		Spill Duration:	3 hour(s) 20 minute(s)
Site Name:	Brandywine			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor damaged 8" gravity main while installing a storm drain. Contractor called Utilities and our crew responded and repaired the damaged line

Possible Receptors

Ground Water

Description of Materials

Sanitary sewer

Corrective Action

Utilities crew repaired damaged line

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102907	Reported:	12/21/10 2:31 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102907	Reported by:	Administrator York	Amount Recovered:	50 Gallons
Asset ID:		Last Edited	12/21/10 2:46 PM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/20/10 12:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:05 PM
Responsible Party:	JD Ludwig Inc	Final Submittal:		Spill Duration:	3 hour(s) 20 minute(s)
Site Name:	Brandywine			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor damaged 8" gravity main while installing a storm drain. Contractor called Utilities and our crew responded and repaired the damaged line

Possible Receptors

Ground Water

Description of Materials

Sanitary sewer

Corrective Action

Utilities crew repaired damaged line

DEQ Comments

(Reviewed 12/21/2010 2:46:40 PM by Tammy Snell)

None.

Attachments

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

SSORS ID:	102907	Reported:	12/21/10 2:31 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102907	Reported by:	Administrator York	Amount Recovered:	50 Gallons
Asset ID:		Last Edited:	01/06/11 4:06 PM	Reaching State Waters:	50 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/20/10 12:45 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/20/10 4:05 PM
Responsible Party:	JD Ludwig Inc	Final Submittal:	01/06/11 4:06 PM	Spill Duration:	3 hour(s) 20 minute(s)
Site Name:	Brandywine			SSO Classification:	Damage By Others

Cordinates:

Description Of Incident

Contractor damaged 8" gravity main while installing a storm drain. Contractor called Utilities and our crew responded and repaired the damaged line

Possible Receptors

Ground Water

Description of Materials

Sanitary sewer

Corrective Action

Utilities crew repaired damaged line

DEQ Comments

(Reviewed 12/21/2010 2:46:40 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102912	Reported:	12/23/10 12:42 PM	Amount Spilled:	500 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	25 Gallons
Asset ID:		Last Edited:	12/23/10 12:42 PM	Reaching State Waters:	475 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	12/22/10 7:45 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/22/10 9:30 AM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	Yorktown Road			SSO Classification:	Damage By Others

Cordinates:

Description Of Incident

Local Contractor noticed bubbling around the ARV cover casting and notified Utilities. Utilities responded and replaced 2" Brass gate valve and handle. Handle was missing, no problems or work orders were generated from previous FM inspection 6/8/10.

Possible Receptors

Moore's Creek

Description of Materials

Sanitary Sewer

Corrective Action

Continue with our regular schedule force main inspection program, identify and fix problems

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102912	Reported:	12/23/10 12:42 PM	Amount Spilled:	500 Gallons
DEQ IR #:	SSORS#2011-T-102912	Reported by:	Administrator York	Amount Recovered:	25 Gallons
Asset ID:		Last Edited:	12/29/10 7:31 AM	Reaching State Waters:	475 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	12/22/10 7:45 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	12/22/10 9:30 AM

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

911 dispatch notified Utilities On-Call crew and crew responded and jetrodded main to release blockage. Crews determined the blockage was caused by heavy fiber rags that had been flushed into the collection system

Possible Receptors

Queens Lake, Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV main line to determine where heavy rags are being entered into the collection system

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102921	Reported:	01/06/11 4:15 PM	Amount Spilled:	350 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/06/11 4:15 PM	Reaching State Waters:	350 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	01/05/11 8:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/05/11 10:30 PM
Responsible Party:	York County	Final Submittal:	01/06/11 4:15 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	Springfield Terrace			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

911 dispatch notified Utilities On-Call crew and crew responded and jetrodded main to release blockage. Crews determined the blockage was caused by heavy fiber rags that had been flushed into the collection system

Possible Receptors

Queens Lake, Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV main line to determine where heavy rags are being entered into the collection system

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102921	Reported:	01/06/11 4:15 PM	Amount Spilled:	350 Gallons
DEQ IR #:	SSORS#2011-T-102921	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	01/07/11 7:30 AM	Reaching State Waters:	350 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	01/05/11 8:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/05/11 10:30 PM
Responsible Party:	York County	Final Submittal:	01/06/11 4:15 PM	Spill Duration:	2 hour(s) 30 minute(s)
Site Name:	Springfield Terrace			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

911 dispatch notified Utilities On-Call crew and crew responded and jetrodded main to release blockage. Crews determined the blockage was caused by heavy fiber rags that had been flushed into the collection system

Possible Receptors

Queens Lake, Queens Creek

Description of Materials

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Sanitary Sewer

Corrective Action

CCTV main line to determine where heavy rags are being entered into the collection system

DEQ Comments (Reviewed 1/7/2011 7:30:55 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102930	Reported:	01/14/11 5:05 PM	Amount Spilled:	100 Gallons
DEQ IR #:		Reported by:	Sharon Nicklas	Amount Recovered:	0 Gallons
Asset ID:	179	Last Edited:	01/14/11 5:05 PM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Sharon Nicklas	Spill Date:	01/14/11 8:15 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/14/11 8:45 AM
Responsible Party:	HRSD	Final Submittal:		Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	Force main			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor was exposing force main to install line stop and hit a corporation stop on the pipe that was not in the drawings.

Possible Receptors

golf course water hazard

Description of Materials

wastewater

Corrective Action

Contractor installed plug to stop spill. HRSD installed tapping saddle and new corporation stop for permanent repair. Spill entered a water hazard on the Kiln Creek Golf Course.

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	102930	Reported:	01/14/11 5:05 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102930	Reported by:	Sharon Nicklas	Amount Recovered:	0 Gallons
Asset ID:	179	Last Edited:	01/18/11 7:32 AM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Tammy Snell	Spill Date:	01/14/11 8:15 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/14/11 8:45 AM
Responsible Party:	HRSD	Final Submittal:		Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	Force main			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor was exposing force main to install line stop and hit a corporation stop on the pipe that was not in the drawings.

Possible Receptors

golf course water hazard

Description of Materials

wastewater

Corrective Action

Contractor installed plug to stop spill. HRSD installed tapping saddle and new corporation stop for permanent repair. Spill entered a water hazard on the Kiln Creek Golf Course.

DEQ Comments (Reviewed 1/18/2011 7:32:18 AM by Tammy Snell)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	102930	Reported:	01/14/11 5:05 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102930	Reported by:	Sharon Nicklas	Amount Recovered:	0 Gallons
Asset ID:	179	Last Edited:	01/18/11 3:14 PM	Reaching State Waters:	100 Gallons
Reporting Jurisdiction:	HRSD	Last Edited by:	Sharon Nicklas	Spill Date:	01/14/11 8:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	01/14/11 8:15 AM
Responsible Party:	HRSD	Final Submittal:	01/18/11 3:14 PM	Spill Duration:	0 hour(s) 15 minute(s)
Site Name:	Force main			SSO Classification:	Damage By Others

Cordinates:**Description Of Incident**

Contractor was exposing force main to install line stop and hit a corporation stop on the pipe that was not in the drawings.

Possible Receptors

golf course water hazard

Description of Materials

wastewater

Corrective Action

Contractor installed plug to stop spill. HRSD installed tapping saddle and new corporation stop for permanent repair. Area was limed. Spill entered a water hazard on the Kiln Creek Golf Course. Time of event was corrected.

DEQ Comments

(Reviewed 1/18/2011 7:32:18 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	102968	Reported:	02/18/11 4:02 PM	Amount Spilled:	100 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	100 Gallons
Asset ID:		Last Edited:	02/18/11 4:02 PM	Reaching State Waters:	0 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	02/16/11 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/16/11 12:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Cobble Stone			SSO Classification:	Other

Cordinates:**Description Of Incident**

During the smoke testing operation a mainline was plugged that recieves flow from another station/ forcemain. When station pumps started the line segment being smoke tested backed up and caused an SSO in the garage at 412 Cobble Stone.

Possible Receptors

None

Description of Materials

Sanitary Sewer

Corrective Action

Review of Smoke Testing SOP to make sure stations/forcemain connections are turned off during smoke testing operations

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102968	Reported:	02/18/11 4:02 PM	Amount Spilled:	100 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

DEQ IR #:	SSORS#2011-T-102968	Reported by:	Administrator York	Amount Recovered:	100 Gallons
Asset ID:		Last Edited	02/22/11 7:08 AM	Reaching State Waters:	0 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	02/16/11 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/16/11 12:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Cobble Stone			SSO Classification:	Other

Cordinates:**Description Of Incident**

During the smoke testing operation a mainline was plugged that recieves flow from another station/ forcemain. When station pumps started the line segment being smoke tested backed up and caused an SSO in the garage at 412 Cobble Stone.

Possible Receptors

None

Description of Materials

Sanitary Sewer

Corrective Action

Review of Smoke Testing SOP to make sure stations/forcemain connections are turned off during smoke testing operations

DEQ Comments (Reviewed 2/22/2011 7:08:05 AM by Tammy Snell)

Incident Date 2/16/11; DEQ notified 2/18/11

Attachments

None.

SSORS ID:	102968	Reported:	02/18/11 4:02 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102968	Reported by:	Administrator York	Amount Recovered:	100 Gallons
Asset ID:		Last Edited	02/22/11 7:08 AM	Reaching State Waters:	0 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	02/16/11 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/16/11 12:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Cobble Stone			SSO Classification:	Other

Cordinates:**Description Of Incident**

During the smoke testing operation a mainline was plugged that recieves flow from another station/ forcemain. When station pumps started the line segment being smoke tested backed up and caused an SSO in the garage at 412 Cobble Stone.

Possible Receptors

None

Description of Materials

Sanitary Sewer

Corrective Action

Review of Smoke Testing SOP to make sure stations/forcemain connections are turned off during smoke testing operations

DEQ Comments (Reviewed 2/22/2011 7:08:26 AM by Tammy Snell)

Incident Date 2/16/11; DEQ notified 2/18/11

Attachments

None.

SSORS ID:	102968	Reported:	02/18/11 4:02 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102968	Reported by:	Administrator York	Amount Recovered:	100 Gallons
Asset ID:		Last Edited	02/22/11 7:08 AM	Reaching State Waters:	0 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	02/16/11 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/16/11 12:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 0 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Site Name:** Cobble Stone**SSO Classification:** Other**Cordinates:****Description Of Incident**

During the smoke testing operation a mainline was plugged that recieves flow from another station/ forcemain. When station pumps started the line segment being smoke tested backed up and caused an SSO in the garage at 412 Cobble Stone.

Possible Receptors

None

Description of Materials

Sanitary Sewer

Corrective Action

Review of Smoke Testing SOP to make sure stations/forcemain connections are turned off during smoke testing operations

DEQ Comments (Reviewed 2/22/2011 7:08:47 AM by Tammy Snell)

Incident Date 2/16/11; DEQ notified 2/18/11

Attachments

None.

SSORS ID:	102968	Reported:	02/18/11 4:02 PM	Amount Spilled:	100 Gallons
DEQ IR #:	SSORS#2011-T-102968	Reported by:	Administrator York	Amount Recovered:	100 Gallons
Asset ID:		Last Edited	02/23/11 1:25 PM	Reaching State Waters:	0 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	02/16/11 11:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/16/11 12:00 PM
Responsible Party:	York County	Final Submittal:	02/23/11 1:25 PM	Spill Duration:	1 hour(s) 0 minute(s)
Site Name:	Cobble Stone			SSO Classification:	Other

Cordinates:**Description Of Incident**

During the smoke testing operation a mainline was plugged that recieves flow from another station/ forcemain. When station pumps started the line segment being smoke tested backed up and caused an SSO in the garage at 412 Cobble Stone.

Possible Receptors

None

Description of Materials

Sanitary Sewer

Corrective Action

Review of Smoke Testing SOP to make sure stations/forcemain connections are turned off during smoke testing operations

DEQ Comments (Reviewed 2/22/2011 7:08:47 AM by Tammy Snell)

Incident Date 2/16/11; DEQ notified 2/18/11

Attachments

None.

SSORS ID:	102975	Reported:	02/23/11 1:24 PM	Amount Spilled:	200 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	25 Gallons
Asset ID:		Last Edited	02/23/11 1:24 PM	Reaching State Waters:	175 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	02/22/11 10:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/22/11 12:00 PM
Responsible Party:	TMJ Trucking	Final Submittal:		Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	TMJ Trucking			SSO Classification:	Third Party Action

Cordinates:**Description Of Incident**

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Adjacent business owner called in SSO. Operations arrived on-site and shut down the grinder pump and closed forcemain valves. Operations found that the low pressure forcemain fittings right outside of private grinder pump failed which allowed the sanitary sewer to seep through the ground.

Possible Receptors

Jones Pond

Description of Materials

Sanitary Sewer

Corrective Action

Operations repaired forcemain fittings for the property owner , used Vactor to clean area and limed the entire effected area

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102975	Reported:	02/23/11 1:24 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102975	Reported by:	Administrator York	Amount Recovered:	25 Gallons
Asset ID:		Last Edited:	02/23/11 2:11 PM	Reaching State Waters:	175 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	02/22/11 10:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/22/11 12:00 PM
Responsible Party:	TMJ Trucking	Final Submittal:		Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	TMJ Trucking			SSO Classification:	Third Party Action

Cordinates:**Description Of Incident**

Adjacent business owner called in SSO. Operations arrived on-site and shut down the grinder pump and closed forcemain valves. Operations found that the low pressure forcemain fittings right outside of private grinder pump failed which allowed the sanitary sewer to seep through the ground.

Possible Receptors

Jones Pond

Description of Materials

Sanitary Sewer

Corrective Action

Operations repaired forcemain fittings for the property owner , used Vactor to clean area and limed the entire effected area

DEQ Comments

(Reviewed 2/23/2011 2:11:42 PM by Tammy Snell)

DEQ did not receive an email notification regarding this incident.

Attachments

None.

SSORS ID:	102975	Reported:	02/23/11 1:24 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-102975	Reported by:	Administrator York	Amount Recovered:	25 Gallons
Asset ID:		Last Edited:	03/07/11 1:22 PM	Reaching State Waters:	175 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	02/22/11 10:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	02/22/11 12:00 PM
Responsible Party:	TMJ Trucking	Final Submittal:	03/07/11 1:22 PM	Spill Duration:	2 hour(s) 0 minute(s)
Site Name:	TMJ Trucking			SSO Classification:	Third Party Action

Cordinates:**Description Of Incident**

Adjacent business owner called in SSO. Operations arrived on-site and shut down the grinder pump and closed forcemain valves. Operations found that the low pressure forcemain fittings right outside of private grinder pump failed which allowed the sanitary sewer to seep through the ground.

Possible Receptors

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

Jones Pond

Description of Materials

Sanitary Sewer

Corrective Action

Operations repaired forcemain fittings for the property owner , used Vactor to clean area and limed the entire effected area

DEQ Comments

(Reviewed 2/23/2011 2:11:42 PM by Tammy Snell)

DEQ did not receive an email notification regarding this incident.

Attachments

None.

SSORS ID:	102986	Reported:	03/07/11 1:34 PM	Amount Spilled:	5250 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	250 Gallons
Asset ID:		Lasted Edited	03/07/11 1:34 PM	Reaching State Waters:	5000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/05/11 6:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/05/11 9:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	Tabb Lakes, Shallow Lagoon			SSO Classification:	Other

Cordinates:**Description Of Incident**

Property owner at 104 Shallow Lagoon called and reported an SSO. Operations responded and found that a blow-up plug was left in a downstream manhole by our contractor performing night time flow isolation testing. Operations pull the plug and restored normal flow.

Possible Receptors

Tabb Lake, Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Review and make necessary checks and improvements in the SOP for night time flow isolation testing to insure that all plugs are removed upon completion of testing

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	102986	Reported:	03/07/11 1:34 PM	Amount Spilled:	5250 Gallons
DEQ IR #:	SSORS#2011-T-102986	Reported by:	Administrator York	Amount Recovered:	250 Gallons
Asset ID:		Lasted Edited	03/07/11 1:38 PM	Reaching State Waters:	5000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	03/05/11 6:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/05/11 9:30 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	Tabb Lakes, Shallow Lagoon			SSO Classification:	Other

Cordinates:**Description Of Incident**

Property owner at 104 Shallow Lagoon called and reported an SSO. Operations responded and found that a blow-up plug was left in a downstream manhole by our contractor performing night time flow isolation testing. Operations pull the plug and restored normal flow.

Possible Receptors

Tabb Lake, Poquoson River

Description of Materials

Sanitary Sewer

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Corrective Action**

Review and make necessary checks and improvements in the SOP for night time flow isolation testing to insure that all plugs are removed upon completion of testing

DEQ Comments

(Reviewed 3/7/2011 1:38:29 PM by Tammy Snell)

Incident date 3/5/11; DEQ notified 3/7/11.

Attachments

None.

SSORS ID:	102986	Reported:	03/07/11 1:34 PM	Amount Spilled:	5250 Gallons
DEQ IR #:	SSORS#2011-T-102986	Reported by:	Administrator York	Amount Recovered:	250 Gallons
Asset ID:		Last Edited:	03/21/11 4:12 PM	Reaching State Waters:	5000 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/05/11 6:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/05/11 9:30 PM
Responsible Party:	York County	Final Submittal:	03/21/11 4:12 PM	Spill Duration:	3 hour(s) 0 minute(s)
Site Name:	Tabb Lakes, Shallow Lagoon			SSO Classification:	Other

Cordinates:**Description Of Incident**

Property owner at 104 Shallow Lagoon called and reported an SSO. Operations responded and found that a blow-up plug was left in a downstream manhole by our contractor performing night time flow isolation testing. Operations pull the plug and restored normal flow.

Possible Receptors

Tabb Lake, Poquoson River

Description of Materials

Sanitary Sewer

Corrective Action

Review and make necessary checks and improvements in the SOP for night time flow isolation testing to insure that all plugs are removed upon completion of testing

DEQ Comments

(Reviewed 3/7/2011 1:38:29 PM by Tammy Snell)

Incident date 3/5/11; DEQ notified 3/7/11.

Attachments

None.

SSORS ID:	103000	Reported:	03/21/11 4:20 PM	Amount Spilled:	50 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited:	03/21/11 4:20 PM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/18/11 2:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/18/11 3:45 PM
Responsible Party:	Private Property	Final Submittal:		Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	1104 Stewart Drive			SSO Classification:	Other

Cordinates:**Description Of Incident**

Crews in neighborhood performing manhole checks found private lateral leaking. Crews called the Vactor Truck and cleared blockage in private lateral.

Possible Receptors

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

Home owner notified to fix and or replace private lateral

DEQ Comments

not yet reviewed

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	103000	Reported:	03/21/11 4:20 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-103000	Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited	03/22/11 7:08 AM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	03/18/11 2:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/18/11 3:45 PM
Responsible Party:	Private Property	Final Submittal:		Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	1104 Stewart Drive			SSO Classification:	Other

Cordinates:**Description Of Incident**

Crews in neighborhood performing manhole checks found private lateral leaking. Crews called the Vactor Truck and cleared blockage in private lateral.

Possible Receptors

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

Home owner notified to fix and or replace private lateral

DEQ Comments (Reviewed 3/22/2011 7:08:28 AM by Tammy Snell)

Incident Date 3/18/11; DEQ notified 3/21/11

Attachments

None.

SSORS ID:	103000	Reported:	03/21/11 4:20 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-103000	Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited	03/24/11 3:31 PM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/18/11 2:00 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/18/11 3:45 PM
Responsible Party:	Private Property	Final Submittal:	03/24/11 3:31 PM	Spill Duration:	1 hour(s) 45 minute(s)
Site Name:	1104 Stewart Drive			SSO Classification:	Other

Cordinates:**Description Of Incident**

Crews in neighborhood performing manhole checks found private lateral leaking. Crews called the Vactor Truck and cleared blockage in private lateral.

Possible Receptors

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

Home owner notified to fix and or replace private lateral

DEQ Comments (Reviewed 3/22/2011 7:08:28 AM by Tammy Snell)

Incident Date 3/18/11; DEQ notified 3/21/11

Attachments

None.

SSORS ID:	103004	Reported:	03/24/11 3:42 PM	Amount Spilled:	530 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	30 Gallons
Asset ID:		Last Edited	03/24/11 3:42 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/23/11 1:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/23/11 2:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	Hubbard Lane			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

Utility Opreations crew member spotted manhole overflowing near Maintenance Shop. Utilities dispatched our Vactor Combination Unit to site and jet-roddeed main to clear blockage and restore flow.

Possible Receptors

queens Lake, Queens Creek, York River

Description of Materials

Sanitary Sewer

Corrective Action

Clean and CCTV main line

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	103004	Reported:	03/24/11 3:42 PM	Amount Spilled:	530 Gallons
DEQ IR #:	SSORS#2011-T-103004	Reported by:	Administrator York	Amount Recovered:	30 Gallons
Asset ID:		Last Edited	03/25/11 7:08 AM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	03/23/11 1:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/23/11 2:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 30 minute(s)
Site Name:	Hubbard Lane			SSO Classification:	Maintenance-Debris

Cordinates:

Description Of Incident

Utility Opreations crew member spotted manhole overflowing near Maintenance Shop. Utilities dispatched our Vactor Combination Unit to site and jet-roddeed main to clear blockage and restore flow.

Possible Receptors

queens Lake, Queens Creek, York River

Description of Materials

Sanitary Sewer

Corrective Action

Clean and CCTV main line

DEQ Comments (Reviewed 3/25/2011 7:08:36 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103004	Reported:	03/24/11 3:42 PM	Amount Spilled:	530 Gallons
DEQ IR #:	SSORS#2011-T-103004	Reported by:	Administrator York	Amount Recovered:	30 Gallons
Asset ID:		Last Edited	04/04/11 1:52 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/23/11 1:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/23/11 2:00 PM
Responsible Party:	York County	Final Submittal:	04/04/11 1:52 PM	Spill Duration:	0 hour(s) 30 minute(s)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Site Name:** Hubbard Lane**SSO Classification:** Maintenance-Debris**Cordinates:****Description Of Incident**

Utility Opreations crew member spotted manhole overflowing near Maintenance Shop. Utilities dispatched our Vactor Combination Unit to site and jet-rodded main to clear blockage and restore flow.

Possible Receptors

queens Lake, Queens Creek, York River

Description of Materials

Sanitary Sewer

Corrective Action

Clean and CCTV main line

DEQ Comments

(Reviewed 3/25/2011 7:08:36 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103007	Reported:	03/25/11 4:24 PM	Amount Spilled:	50 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited	03/25/11 4:24 PM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/24/11 7:20 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/24/11 7:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 25 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called in sanitary sewer back-up and Emergency On-Call personnel responded. Utilities cleared service lateral and restored normal; flow.

Possible Receptors

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

Work Order entered to CCTV line

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	103007	Reported:	03/25/11 4:24 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-103007	Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited	03/29/11 7:28 AM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	03/24/11 7:20 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/24/11 7:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 25 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called in sanitary sewer back-up and Emergency On-Call personnel responded. Utilities cleared service lateral and restored normal; flow.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Possible Receptors**

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

Work Order entered to CCTV line

DEQ Comments

(Reviewed 3/29/2011 7:28:58 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103007	Reported:	03/25/11 4:24 PM	Amount Spilled:	50 Gallons
DEQ IR #:	SSORS#2011-T-103007	Reported by:	Administrator York	Amount Recovered:	10 Gallons
Asset ID:		Last Edited:	04/04/11 1:50 PM	Reaching State Waters:	40 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	03/24/11 7:20 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	03/24/11 7:45 PM
Responsible Party:	York County	Final Submittal:	04/04/11 1:50 PM	Spill Duration:	0 hour(s) 25 minute(s)
Site Name:	Nelson Drive			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Property owner called in sanitary sewer back-up and Emergency On-Call personnel responded. Utilities cleared service lateral and restored normal; flow.

Possible Receptors

Ground Water

Description of Materials

Sanitary Sewer

Corrective Action

CCTV line and no evidence of debris left in line

DEQ Comments

(Reviewed 3/29/2011 7:28:58 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103017	Reported:	04/04/11 1:58 PM	Amount Spilled:	200 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited:	04/04/11 1:58 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	04/01/11 12:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	04/01/11 1:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	WAWA Grafton			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Utilities Engineering Staff member noticed the asphalt around a sanitary sewer manhole in the WAWA parking lot being wet. Staff person contacted Chief of Utilities and he dispatched an Operations Crew with Vector to the site. Crew vacuum out manhole and cleared blockage (Paper, Plastic and Grease)

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Corrective Action**

Discussed maintenance issues with the Manager of WAWA

DEQ Comments

not yet reviewed

None.

Attachments

None.

SSORS ID:	103017	Reported:	04/04/11 1:58 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-103017	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	04/04/11 2:06 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	04/01/11 12:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	04/01/11 1:45 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	WAWA Grafton			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Utilities Engineering Staff member noticed the asphalt around a sanitary sewer manhole in the WAWA parking lot being wet. Staff person contacted Chief of Utilities and he dispatched an Operations Crew with Vector to the site. Crew vacuum out manhole and cleared blockage (Paper, Plastic and Grease)

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

Corrective Action

Discussed maintenance issues with the Manager of WAWA

DEQ Comments

(Reviewed 4/4/2011 2:06:34 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103017	Reported:	04/04/11 1:58 PM	Amount Spilled:	200 Gallons
DEQ IR #:	SSORS#2011-T-103017	Reported by:	Administrator York	Amount Recovered:	0 Gallons
Asset ID:		Last Edited	06/13/11 2:41 PM	Reaching State Waters:	200 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	04/01/11 12:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	04/01/11 1:45 PM
Responsible Party:	York County	Final Submittal:	06/13/11 2:41 PM	Spill Duration:	1 hour(s) 15 minute(s)
Site Name:	WAWA Grafton			SSO Classification:	Maintenance-Other

Cordinates:**Description Of Incident**

Utilities Engineering Staff member noticed the asphalt around a sanitary sewer manhole in the WAWA parking lot being wet. Staff person contacted Chief of Utilities and he dispatched an Operations Crew with Vector to the site. Crew vacuum out manhole and cleared blockage (Paper, Plastic and Grease)

Possible Receptors

Ground water

Description of Materials

Sanitary Sewer

Corrective Action

Discussed maintenance issues with the Manager of WAWA

DEQ Comments

(Reviewed 4/4/2011 2:06:34 PM by Tammy Snell)

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

None.

Attachments

None.

SSORS ID:	103081	Reported:	06/13/11 2:51 PM	Amount Spilled:	800 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	300 Gallons
Asset ID:		Last Edited	06/13/11 2:51 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	06/11/11 9:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/11/11 2:00 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	5 hour(s) 0 minute(s)
Site Name:	Coventry Force Main			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Central dispatch notified Operations "On-Call" personnel that a sanitary sewer spill was occurring and responded to the site. Operations Shut down the Coventry Pump Station and upon arrival contacted HRSD Emergency Operations to close their valve. Operations contacted one of our emergency pump haulers and our Operations Construction Section for our large Vactor Truck. Operations found that the Air Release Valve on our force main pipe had cracked. Operations replaced the pipe and turned the station back on.

Possible Receptors

Big Bethel Reservoir

Description of Materials

Sanitary Sewer

Corrective Action

Pipe on Air Release Valve was replaced

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	103081	Reported:	06/13/11 2:51 PM	Amount Spilled:	800 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	300 Gallons
Asset ID:		Last Edited	06/13/11 2:51 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	06/11/11 9:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/11/11 2:00 PM
Responsible Party:	York County	Final Submittal:	06/13/11 2:51 PM	Spill Duration:	5 hour(s) 0 minute(s)
Site Name:	Coventry Force Main			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Central dispatch notified Operations "On-Call" personnel that a sanitary sewer spill was occurring and responded to the site. Operations Shut down the Coventry Pump Station and upon arrival contacted HRSD Emergency Operations to close their valve. Operations contacted one of our emergency pump haulers and our Operations Construction Section for our large Vactor Truck. Operations found that the Air Release Valve on our force main pipe had cracked. Operations replaced the pipe and turned the station back on.

Possible Receptors

Big Bethel Reservoir

Description of Materials

Sanitary Sewer

Corrective Action

Pipe on Air Release Valve was replaced

DEQ Comments not yet reviewed

None.

SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history**Attachments**

None.

SSORS ID:	103081	Reported:	06/13/11 2:51 PM	Amount Spilled:	800 Gallons
DEQ IR #:	SSORS#2011-T-103081	Reported by:	Administrator York	Amount Recovered:	300 Gallons
Asset ID:		Last Edited:	06/13/11 3:11 PM	Reaching State Waters:	500 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	06/11/11 9:00 AM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/11/11 2:00 PM
Responsible Party:	York County	Final Submittal:	06/13/11 2:51 PM	Spill Duration:	5 hour(s) 0 minute(s)
Site Name:	Coventry Force Main			SSO Classification:	Infrastructure

Cordinates:**Description Of Incident**

Central dispatch notified Operations "On-Call" personnel that a sanitary sewer spill was occurring and responded to the site. Operations Shut down the Coventry Pump Station and upon arrival contacted HRSD Emergency Operations to close their valve. Operations contacted one of our emergency pump haulers and our Operations Construction Section for our large Vactor Truck. Operations found that the Air Release Valve on our force main pipe had cracked. Operations replaced the pipe and turned the station back on.

Possible Receptors

Big Bethel Reservoir

Description of Materials

Sanitary Sewer

Corrective Action

Pipe on Air Release Valve was replaced

DEQ Comments (Reviewed 6/13/2011 3:11:35 PM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103088	Reported:	06/20/11 3:29 PM	Amount Spilled:	25 Gallons
DEQ IR #:		Reported by:	Administrator York	Amount Recovered:	5 Gallons
Asset ID:		Last Edited:	06/20/11 3:29 PM	Reaching State Waters:	20 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	06/18/11 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/18/11 5:10 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 40 minute(s)
Site Name:	Walnut Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Dispatched called On-call personnel reporting a back-up at 124 Walnut Drive. Upon arrival operations Jet Rodded lateral and main to clear blockage (paper towels).

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV Inspection scheduled

DEQ Comments not yet reviewed

None.

Attachments

None.

SSORS ID:	103088	Reported:	06/20/11 3:29 PM	Amount Spilled:	25 Gallons
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SSORS Database - SPILL REPORT

Jurisdiction: All

Created on 9/21/2011 2:01:26 PM
Date Range, Reported between 07/01/2010 AND 06/30/2011 with history

DEQ IR #:	SSORS#2011-T-103088	Reported by:	Administrator York	Amount Recovered:	5 Gallons
Asset ID:		Last Edited:	06/21/11 7:24 AM	Reaching State Waters:	20 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Tammy Snell	Spill Date:	06/18/11 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/18/11 5:10 PM
Responsible Party:	York County	Final Submittal:		Spill Duration:	0 hour(s) 40 minute(s)
Site Name:	Walnut Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Dispatched called On-call personnel reporting a back-up at 124 Walnut Drive. Upon arrival operations Jet Rodded lateral and main to clear blockage (paper towels).

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV Inspection scheduled

DEQ Comments (Reviewed 6/21/2011 7:24:11 AM by Tammy Snell)

None.

Attachments

None.

SSORS ID:	103088	Reported:	06/20/11 3:29 PM	Amount Spilled:	25 Gallons
DEQ IR #:	SSORS#2011-T-103088	Reported by:	Administrator York	Amount Recovered:	5 Gallons
Asset ID:		Last Edited:	07/11/11 10:26 AM	Reaching State Waters:	20 Gallons
Reporting Jurisdiction:	York	Last Edited by:	Administrator York	Spill Date:	06/18/11 4:30 PM
Spilled-In Jurisdiction:	York	Phoned In:		Date Under Control:	06/18/11 5:10 PM
Responsible Party:	York County	Final Submittal:	07/11/11 10:26 AM	Spill Duration:	0 hour(s) 40 minute(s)
Site Name:	Walnut Drive			SSO Classification:	Maintenance-Debris

Cordinates:**Description Of Incident**

Dispatched called On-call personnel reporting a back-up at 124 Walnut Drive. Upon arrival operations Jet Rodded lateral and main to clear blockage (paper towels).

Possible Receptors

Queens Creek

Description of Materials

Sanitary Sewer

Corrective Action

CCTV Inspection, line cleared of debris

DEQ Comments (Reviewed 6/21/2011 7:24:11 AM by Tammy Snell)

None.

Attachments

None.

Report Date 10/03/2011 02:31 PM **Submitted By**

Search Criteria
Search Style Exact **Sort By** Serv # Ascend **Service Req Status** ALL
Problem ES **Show Linked**
Problem 07/01/2010 00:00 To 06/30/2011 23:59

Service Request Summary

Service # 60010	Problem ES	Link # 1	Priority 4	AP Attached N	Problem Date 07/02/2010 10:22
Address			Taken By WEB	Project	Scheduled Date
Cross Street			Responsibility VDOT	Source	Start Date
Cross Street					Inspection Date
Name KRAUTKRAMER			Map #	Resolve Code VDOT	Resolve Date 07/06/2010 09:42
Location CT YORKTOWN VA AT THE INTERSECTION OF QUEST CT AND FORTUNE PL (BETWEEN LOTS 111 AND 201) PROSPECT PARK					

Service # 60360	Problem ES	Link # 1	Priority	AP Attached N	Problem Date 07/16/2010 10:13
Address 308 SONSHINE WAY			Taken By DNLP	Project	Scheduled Date
Cross Street			Responsibility UTAD	Source	Start Date 07/16/2010 10:25
Cross Street					Inspection Date
Name RICH			Map #	Resolve Code RES	Resolve Date 07/19/2010 12:14
Location MAYS HOLLOW - LOCATED OFF SONSHINE WAY					

Service # 61480	Problem ES	Link # 1	Priority	AP Attached N	Problem Date 08/25/2010 15:07
Address 206 ZACHARY PL			Taken By ADRK	Project	Scheduled Date
Cross Street			Responsibility UTAD	Source	Start Date
Cross Street					Inspection Date
Name WILLMORE			Map #	Resolve Code RES	Resolve Date 09/01/2010 14:55
Location YORK COLONY AND COMMON AREA SOUTH OF 206					

Service # 62232	Problem ES	Link # 1	Priority 2	AP Attached N	Problem Date 09/28/2010 16:34
Address 308 SONSHINE WAY			Taken By LM	Project	Scheduled Date 09/30/2010 09:13
Cross Street			Responsibility UTAD	Source	Start Date
Cross Street					Inspection Date
Name MILLER			Map #	Resolve Code	Resolve Date
Location MAYS HOLLOW SUBDIVISION 308 SONSHINE WAY					



E & S Data
York County
 Jul 2010 to Jun 2011

Approved E&S Plans

TOTAL: 24

	HUC Codes												
	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
July, 2010											2		2
August, 2010	2						1	1	1		1		6
September, 2010		2							1	2			5
October, 2010	4												4
November, 2010	1												1
December, 2010	2										1		3
January, 2011													
February, 2011										1			1
March, 2011	1												1
April, 2011													
May, 2011												1	1
June, 2011													
HUC Totals:	10	2					1	1	2	3	4	1	24

Disturbed Acres on Approved E&S Plans

TOTAL: 39.9

	HUC Codes												
	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
July, 2010											0.5		0.5



**E & S Data
York County
Jul 2010 to Jun 2011**

	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
August, 2010	3.25						0.25	0.25	0.25		0.25		4.25
September, 2010		0.5							0.25	2.53			3.28
October, 2010	14.94												14.94
November, 2010	12.1												12.1
December, 2010	0.75										2.75		3.5
January, 2011													
February, 2011										0.3			0.3
March, 2011	1												1
April, 2011													
May, 2011												0.03	0.03
June, 2011													
HUC Totals:	32.04	0.5					0.25	0.25	0.5	2.83	3.5	0.03	39.9

E&S Inspections

TOTAL: 414

HUC Codes

	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
July, 2010	12	4					2			8	4		30
August, 2010	4						2	2	2		2		12
September, 2010	16	4					2		2	8	2		34
October, 2010	16	4					4			8	2		34
November, 2010	18	4					4			8	2		36
December, 2010	20	4					4			8	4		40



E & S Data
York County
 Jul 2010 to Jun 2011

	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
January, 2011	16	4					4			8	2		34
February, 2011	16	4					4			10	2		36
March, 2011	18	4					4			8	2		36
April, 2011	20	4					4			8	2		38
May, 2011	20	4					4			8	2	2	40
June, 2011	20	4					8			8	4		44
HUC Totals:	196	44					46	2	4	90	30	2	414

E&S Enforcement Actions

TOTAL:

HUC Codes

	CB21	CB22	JL28	JL31	JL34	JL35	JL38	YO65	YO66	YO67	YO68	YO69	Total
July, 2010													
August, 2010													
September, 2010													
October, 2010													
November, 2010													
December, 2010													
January, 2011													
February, 2011													
March, 2011													
April, 2011													
May, 2011													



E & S Data
York County
Jul 2010 to Jun 2011

CB21 CB22 JL28 JL31 JL34 JL35 JL38 YO65 YO66 YO67 YO68 YO69 Total

June, 2011

HUC Totals:

HUC Code	HUC Name
CB21	(Lower) Chesapeake Bay-Poquoson River-Chisman Creek-Back Creek
CB22	Northwest Branch (Back River)
JL28	Chickahominy River-Yarmouth Creek
JL31	Powhatan Creek
JL34	College Creek
JL35	James River-Skiffes Creek
JL38	Warwick River
YO65	York River-Skimino Creek
YO66	York River-Jones Creek
YO67	Queen Creek
YO68	York River-Carter Creek
YO69	York River-Sarah Creek

Permittee	Site	SWMF ID	Inspection Note	Original Inspection Date	InspectorName	Follow-up Action Required	DCR Classification
York County	Hunter Estates	200800503-A		6/10/2011	Juan Carlos Morgado	No	Bioretention Basins
York County	Hunter Estates	200800503-B		6/10/2011	Juan Carlos Morgado	No	Bioretention Basins
York County	Major Family Subdivision	201100190		4/28/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Patriots Place Amendment	201000562	The forebay embankment did not seed successfully and some rills have begun to form. Reseed and add matting to encourage growth before it becomes more deteriorated.	4/8/2011	Juan Carlos Morgado	No	Retention Basin
York County	Peninsula Community Chapel	200600909-BMP1		4/5/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Peninsula Community Chapel	200900527-BMP2		4/5/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Peninsula Community Chapel	200900527-BMP3		4/5/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Comfort Suites	200800459-Pond A		2/17/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Comfort Suites	200800459-Pond A		2/17/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Magnolia Park (Maple Terrace)	200701224		2/15/2011	Juan Carlos Morgado	No	Extended Detention Basin
York County	Goddard School	20100083		8/11/2010	Juan Carlos Morgado	No	Extended Detention Basin
York County	Running Man Sec. 10B	200800399		8/11/2010	Juan Carlos Morgado	No	Extended Detention Basin
York County	Arbys Restaurant - Ft. Eustis	200900479		7/28/2010	Juan Carlos Morgado	No	Bioretention Basins
York County	Walgreens-Victory	200800354		7/14/2010	Juan Carlos Morgado	No	Retention Basin
York County	Bionetics	200900170	There is one infiltration BMP, which comply with requirements. In addition, there is a bioretention basin, which has not brought to its final stage. Status of this inspection is pertaining the bioretention basin.	6/26/2010	Juan Carlos Morgado	No	General Infiltration Practices
York County	J & K Heating	200600857		6/4/2010	Juan Carlos Morgado	No	Extended Detention Basin
York County	York County Sports Field Complex	200900093-C		6/3/2010	Juan Carlos Morgado	No	Retention Basin
York County	York County Sports Field Complex	200900093-A		6/3/2010	Juan Carlos Morgado	No	Retention Basin

Site	Number Of Reinspections	Last Reinspection Date	Swmf InspectionId	Forebay	Inlets	Outlets	Principal Spillway
Hunter Estates	0		3631	NA	Unsat - Small erosion problem needs to be fixed.	Unsat - Some fill is need in a partial ponding area of the discharging ditch.	Sat
Hunter Estates	0		3632	NA	Sat	Sat	Sat
Major Family Subdivision	0		5096	NA	NA	Sat	Sat
Patriots Place Amendment	0		5094	Sat	Sat	Sat	NA
Peninsula Community Chapel	0		3326	NA	Sat	Sat	Sat
Peninsula Community Chapel	0		3327	Sat	Sat	Unsat - Opening of the dewatering device needs to be changed from 12-inch dia. to 3-	Sat
Peninsula Community Chapel	0		3328	Sat	Sat	Unsat - Area around the dewatering device need to be cleared.	Sat
Comfort Suites	0		3129	Sat	Sat	Sat	Sat
Comfort Suites	0		3130	Sat	Sat	Sat	Sat
Magnolia Park (Maple Terrace)	0		3128	Sat	Unsat - two of the inlets need a riprap check dam to alliviate the ground erosion.	Sat	Sat
Goddard School	0		2421	Sat	Sat	Sat	Sat
Running Man Sec. 10B	0		2143	NA	Sat	Sat	Sat
Arbys Restaurant - Ft. Eustis	0		2376	Sat	Unsat - small erosion problems in the embankment next to the culverts	Sat	Sat
Walgreens-Victory	0		2356	Sat	Sat	Sat	Sat
Bionetics	0		2357	Unsat	Sat	Unsat - Unfinished	Unsat - Unfinished
J & K Heating	0		2144	NA	Sat	Sat	Sat
York County Sports Field Complex	0		1092	Sat	Unsat - erosion problems	Sat	Sat
York County Sports Field Complex	0		2142	Unsat - Add riprap to one of the ends to meet requirements	Sat	Sat	Sat

Site	Emergency Spillway	Basin Bottom and Side Slopes	Safety Devices	Embankments	Structural Components	Media	Routine Maintenance	Condition of Aquatic Environment
Hunter Estates	NA	Sat	NA	Unsat - Bare soil spots need to be re seeded.	Sat	Sat	Sat	
Hunter Estates	NA	Sat	NA	Sat	Sat	Sat	Sat	
Major Family Subdivision	NA	Sat	NA	Sat	Sat		Unsat - vegetaion needs cutting	NA
Patriots Place Amendment	NA	Sat	NA	Unsat - see comment above -site was stabilized later	Sat		Sat	Sat
Peninsula Community Chapel	NA	Sat	NA	Sat	Sat		Sat	Sat
Peninsula Community Chapel	Sat	Sat	NA	Sat	Sat		Sat	Sat
Peninsula Community Chapel	Sat	Sat	NA	Sat	Sat		Sat	Sat
Comfort Suites	Sat	Sat	NA	Sat	Sat		Sat	Sat
Comfort Suites	Sat	Sat	NA	Sat	Sat		Sat	Sat
Magnolia Park (Maple Terrace)	Sat	Unsat - woody vegetation needs to be	NA	Unsat - Embankments need to be mowed.	Sat		Unsat	Sat
Goddard School	Sat	Sat	Sat	Sat	Sat		Sat	Sat
Running Man Sec. 10B	Sat	Sat	NA	Sat	Sat		Sat	Sat
Arbys Restaurant - Ft. Eustis	Sat	Sat	NA	Unsat - seeding is required	Sat	Sat	Sat	
Walgreens-Victory	Sat	Sat	Sat	Sat	Sat		Sat	Sat
Bionetics	NA		NA	Sat	NA	Unsat - There is not indication of engineered soil media required for the planting schedule	NA - It is not to a stage of receiving any maintenance	
J & K Heating	Sat	Sat	NA	Sat	Sat		Sat	Sat
York County Sports Field Complex	Sat	Sat	Sat	Unsat - standing water at the top	Sat		Sat	Sat
York County Sports Field Complex	Sat	Sat	Sat	Sat	Sat		Sat	NA

Site	Vegetation	Storage Volume	Debris / Sediment Accumulation	Standing Water	Other	Safety and Aquatic Bench	Side Slope Vegetation	Aerators
Hunter Estates	Sat	NA	Sat	Sat	NA			
Hunter Estates	Sat	NA	Sat	Sat	NA			
Major Family Subdivision	Unsat - see above - sparse	Sat	Sat	Sat	NA	NA	Sat	
Patriots Place Amendment	Unsat - same as above	Sat	Sat	Sat	NA	Sat	Unsat - same as above	
Peninsula Community Chapel	Sat	Sat	Sat	Sat	NA	NA	Sat	
Peninsula Community Chapel	Sat	Unsat - it does not hold volume	Sat	Sat	NA	NA	Sat	
Peninsula Community Chapel	Sat	Sat	Sat	Sat	NA	NA	Sat	
Comfort Suites	Sat	Sat	Sat	Sat	NA	Sat	Sat	
Comfort Suites	Sat	Sat	Sat	Sat	NA	Sat	Sat	
Magnolia Park (Maple Terrace)	NA	NA	Sat	Sat	NA	NA	Sat	
Goddard School	Unsat - The required amount has not been yet	Sat	Sat	Sat	NA	Sat	Sat	
Running Man Sec. 10B	Sat	Sat	Sat	Sat	NA	Sat	Sat	
Arbys Restaurant - Ft. Eustis	Unsat - ready for planting	Sat	Sat	Sat	NA			
Walgreens-Victory	Sat	Sat	Sat	Sat	NA	Sat	Sat	
Bionetics	Unsat - There is no planting installed.	Unsat - Unfinished	Sat	Sat	NA			
J & K Heating	Sat	Sat	Sat	Sat	NA	Sat	Sat	
York County Sports Field Complex	Sat	Sat	Sat	Sat	NA	Sat	Sat	
York County Sports Field Complex	Sat	Sat	Sat	Sat	NA	NA	Sat	

SITE INFO													
Site Title	Site ID	Site No	Street Number	Street Name	Zip	Total Site Area	Total Impervious Area	Plan Approval Date	Lid Implementation	Status	SWMF ID	Ownership Type	
Sunset Meadows	G13B-3443-3814	200800223	1300	DUNCAN DR	23185	7.17	2.74	3/5/2009	No	Planned	000000000	Private	
AT&T Pegasus Tower	N11A-0657-3503	201100005	2032	OLD WILLIAMSBURG RD	23690	0.79	0.23	6/27/2011	No	Active	waiting	Private	
AT&T Windsor Great Park	Q06C-0392-2338	201100001	914	DENBIGH BLVD	23602	3.82	0.59	5/5/2011	Yes	Under Const	201100001	Private	
Comfort Suites	D15c-2262-1471	200700888	237	COMMONS WAY	23188	7.2	3.01	5/27/2008	Yes	Active	200800459 - P	Private	
Comfort Suites	D15c-2262-1471	200700888	237	COMMONS WAY	23188	7.2	3.01	5/27/2008	Yes	Active	200800459 - P	Private	
Comfort Suites	D15c-2262-1471	200700888	237	COMMONS WAY	23188	7.2	3.01	5/27/2008	Yes	Active	200800459 - 2	Private	
Comfort Suites	D15c-2262-1471	200700888	237	COMMONS WAY	23188	7.2	3.01	5/27/2008	Yes	Active	200800459 - 1	Private	
Patriots Place Amendment	D15b-3635-2967	201000206 H	725	BYPASS RD	23185	17.95	7.03	3/29/2010	No	Active	201000562	Private	
Goddard School	S03B-4913-4581	200900402	335	HAMPTON HWY	23690	2.26	0.86	11/16/2009	No	Planned	20100083	Private	
Mildred Russell Parsons Subd.	U02a-1102-2509 Lot	2010-home002	110	RUSSELL LN	23693	0.59	0.1	2/3/2009	Yes	Active	2010-home00	Private	
Running Man Sec. 10B	V03C-0430-0940	200600849	N/A	CHAPTICO RUN	23693	23.812	4.487	1/3/2008	No	Active	200800399	Private	
J & K Heating	Q08B-4490-2716	200500047	7815	GEORGE WASHINGTON MEMORIAL	23692	1.16	0.42	2/1/2006	No	Active	200600857	Private	
Mildred Russell Parsons Subd.	U02A-0997-2506	2010-home001	112	RUSSELL LN	23693	<u>0.61</u>	<u>0</u>	11/1/2012	Yes	Planned	2010-home00	Private	
TOTALS						86.962	28.497						

SWMF INFO													
Site Title	SWMF Type	Contributing Drainage Area	Land Use	Inspecti on Freque ncy	Long	Lat	SWMF Mainte nance Agreem ent	Phosphorus Removed	Nitrogen Removed	Date Online	Status	HUC	
Sunset Meadows	Retention Basin	4.4	Single-Family Residential	365	-76.65893	37.26113	Yes	4.02	0	09/22/2011	Under Con:	YO67	
AT&T Pegasus Tower	General Infiltration Practices	1.5	Commercial	365	-76.54983	37.23062	Yes	0.211	0	07/07/2011	Active	JL38	
AT&T Windsor Great Park	General Infiltration Practices	3.82	Commercial	365	-76.50024	37.15821	Yes	0	0	05/05/2011	Under Con:	CB21	
Comfort Suites	Extended Detention Basin	1.49	Commercial	365	-76.71473	37.28347	Yes	0.87	0	02/17/2011	Active	YO67	
Comfort Suites	Extended Detention Basin	1.98	Commercial	365	-76.715	37.28234	Yes	0.88	0	02/17/2011	Active	YO67	
Comfort Suites	General Infiltration Practices	0.5	Commercial	365	-76.71474	37.28322	Yes	0.57	0	02/17/2011	Active	YO67	
Comfort Suites	General Infiltration Practices	0.35	Commercial	365	-76.71552	37.28245	Yes	0.31	0	02/17/2011	Active	YO67	
Patriots Place Amendment	Retention Basin	65.42	Commercial	365	-76.70802	37.28534	Yes	20	0	11/05/2010	Active	YO67	
Goddard School	Extended Detention Basin	2.13	Public/Semi-Public	365	-76.45261	37.12205	Yes	1.08	0	09/16/2010	Active	CB21	
Mildred Russell Parsons Subd.	Bioretention Basins	0.59	Single-Family Residential	365	-76.43162	37.10221	Yes	0.153	0	08/25/2010	Active	CB22	
Running Man Sec. 10B	Extended Detention Basin	9.9	Single-Family Residential	365	-76.41637	37.1136	Yes	1.06	0	08/09/2010	Active	CB22	
J & K Heating	Extended Detention Basin	1.16	Commercial	365	-76.48581	37.18654	Yes	0.48	0	07/09/2010	Active	CB21	
Mildred Russell Parsons Subd.	Bioretention Basins	<u>0.61</u>	Single-Family Residential	365	-76.43168	37.10236	Yes	0.153	0	07/01/2010	Under Con:	CB22	
		<u>93.85</u>							<u>29.787</u>	<u>0</u>			