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RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040001

REPORTING PERIOD: **YEAR 7**
Jan 2010-Dec 2010

OPERATOR OF MS4

Name: Burrillville, Town of			
Mailing Address: 105 Harrisville Main Street			
City: Harrisville	State: RI	Zip: 02830	Phone: (401) 568-4440
Contact Person: Jeffrey McCormick, PE		Title: Director of Public Works and Engineering Services	
Legal status (circle one):			
PRI - Private	PUB - Public	BPP - Public/Private	STA - State FED - Federal
Other (please specify):			

OWNER OF MS4 (if different from OPERATOR)

Name:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:	Title:		

CERTIFICATION

<p>I certify under penalty of law that this document and all attachments were prepared under the 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, I certify that 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.</p>	
Print Name	Michael C. Wood
Print Title	Town Manager
Signature	_____ Date _____



**MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.1.b.1	Provide a General Summary of activities implemented to educate your community on how to reduce storm water pollution. For TMDL affected areas, with storm water associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.
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The Town's website link http://www.burrillville.org/Public_Documents/BurrillvilleRI_DPW/Storm%20Water includes a summary of the Town's stormwater management program that includes EPA links to the six minimum control measures. The public education and outreach link includes examples of stormwater pollution sources for the public to view. This activity is appropriate and can be effective since it provides useful information and links by internet.

The Save the Lakes, Inc. presented an educational workshop on healthy landscapes titled *Healthy Lakes Workshop* to help prevent stormwater runoff and other methods to improve water quality. The workshop was held on May 19, 2010 at the Harrisville Assembly Building (Assembly Theater) and co-sponsored by the Town. Approximately 200 residents attended. Guest speaker Kate Venturine from URI presented the workshop. This activity was appropriate and effective since many residents who live near water bodies within Town attended and received valuable information on stormwater quantity and quality. Workshop logistics and information is attached to this annual report.

The Town posts the EPA stormwater brochure *Make Your Home the Solution to Stormwater Pollution! A homeowner's guide to healthy habits for clean water* at the Town Hall. This brochure can be effective since it provides information to homeowner's on helpful habits to mitigate stormwater pollution from private property. Brochure cover page is attached to this annual report.

Responsible parties: DPW, IT, Planning, School Dept

The aforementioned activities are on going and will be modified per re-issuance of the MS4 General Permit.

PUBLIC EDUCATION AND OUTREACH cont'd

IV.B.1.b.2

Provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide storm water program. Describe partnerships with governmental and non-governmental agencies used to involve your community.

The state's stormwater program is largely administered through the URI NEMO stormwater public education and outreach program. The Town has committed to participating in the URI NEMO stormwater program.

The Town's website link for the stormwater management program (see IV.B.1.b.1 above) includes a link to the Town's Stormwater Management Plan. This Plan provides the framework for the Town's stormwater management initiatives and is available online for residents to review.

The Save the Lakes workshop held on May 19, 2010 was coordinated by the Town. Save the Lakes is a non-profit organization dedicated to improving, protecting, and preserving the fresh water bodies of Rhode Island.

The Town has been actively involved with the Blackstone River Coalition as part of educational initiatives. The Town participated in the Blackstone River Coalition workshop *Overcoming Implementation and Costing Challenges to Green Stormwater Management* on November 18, 2010. The Town Planner participated as part of a panel discussion and presented on green infrastructure case studies implemented in Burrillville. Agenda and attendee list are attached. In addition, two Burrillville volunteers sample 3 sites in Burrillville as part of long term monitoring for water bodies in the Blackstone Watershed: Clear River, Chepatchet River, and Tarkiln Brook. The Blackstone River Coalition has also recognized Burrillville businesses for their stormwater mitigation efforts.

Responsible parties: DPW, IT, Planning, School Dept

The aforementioned activities are on going and will be modified per re-issuance of the MS4 General Permit.

Additional Measurable Goals and Activities: Please indicate if the following training sessions were attended and list the name(s) and municipal position of all staff who attended the training. (Please note that participation in these trainings was not required.)

Attendance at the following trainings if applicable:

Preview of the Draft MS4 General Permit – Public Education and Involvement Measures (03/12/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Preview of the Draft MS4 General Permit – IDDE and Pollution Prevention and Good Housekeeping Measures (04/09/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Preview of the Draft MS4 General Permit – Construction and Post-Construction Measures (07/08/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

RI Stormwater Design and Installation Manual – Final Draft Informational Session (05/26/2010, 06/02/2010)

Attending name of staff and title: Tom Kravitz, Town Planner attended 5/26 session.

Attending name of staff and title: _____

Institutionalizing Stormwater Education in Rhode Island (06/03/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Demonstration of the new ASIST Program Management Software (08/10/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Stormwater Education Training: Using the Enviroscape Model (11/03/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Rhode Island Regulatory Setbacks and Buffers (12/02/2010)

Attending name of staff and title: _____

Attending name of staff and title: _____

Other Trainings:

Blackstone River Coalition workshop Overcoming Implementation and Costing Challenges to Green Stormwater Management on November 18, 2010. Attended by Tom Kravitz, Town Planner.

Twilight Seminar Series presented by RI NEMO and FEMA representatives for floodplain and other stormwater issues throughout 2010 that included the following workshops: Floodplain Management on February 24, 2010 and Measuring, Documenting, and Interpreting the Flood of 2010 on September 23, 2010. Attended by Joseph Raymond, Building Official.



**MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.2.b.2.ii	Describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.
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The Town sponsored a hazardous waste day "Eco Depot" on March 27, 2010 to allow residents to dispose of hazardous waste products.

The Burrillville Lions Club conducted their annual Earth Day Clean-up on April 17, 2010. The Burrillville DPW and Parks & Recreation in conjunction with the Burrillville Lions Club, Blackstone Valley Tourism Council, and Dan's Management/Dunkin Donuts sponsored this event. The clean up engaged the sponsors and the Town to work together to target areas of Town for litter and debris cleanup. Cleanup areas included more than 25 miles of streets/roads, approximately 6 acres of park and public lands, and over one mile of river bank. The Town DPW properly disposed approximately 1.75 tons of litter, tires, mattresses, and other bulky items. Over 85 local volunteers assisted in the clean-up event. The flyer and official wrap-up report form are attached to this annual report.

The Town has a very active Municipal Recycling Program. A community based recycling calendar and information on recyclable items are provided on the Town's website. Recycling kits are distributed with each new recycling bin that is issued. In December 2010, the Town implemented a "No Bin No Barrel" program that allows trash pickup only when recyclables are placed curbside. The Town works closely with URI NEMO and RI Resource Recovery Corporation.

The Town Planner has been a guest speaker at the Blackstone River Coalition workshops to discuss low impact development implementation at sites in Burrillville. Also, two Burrillville residents volunteer their time to sample the following 3 sites in Burrillville as part of long term monitoring for water bodies in the Blackstone Watershed: Clear River, Chepatchet River, and Tarkiln Brook.

The aforementioned activities are effective methods to reduce litter and debris in the Town water bodies, educate residents on proper disposal methods, and provide a means for residents to dispose of solid and hazardous waste items.

Responsible parties: DPW, Con Com

Additional Measurable Goals and Activities

The Blackstone River Coalition recognized the local business Supreme Mid-Atlantic Corp in Burrillville for their planting efforts to prevent silt runoff to a nearby stream. This business received an "In Business for the Blackstone" Award. This award program praises local businesses tributary to the Blackstone, including those in Burrillville, for their stormwater management efforts.

SECTION II. Public Notice Information (IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Date of Public Notice: February 25, 2011	How public was notified: The Woonsocket Call, Town Website, Town Bulletin Board
Was public meeting held? YES NO	
Date:	Where:
Summary of public comments received:	
Planned responses or changes to the program:	



**MINIMUM CONTROL MEASURE #3:
ILLCIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.3.b.1:	Indicate if the outfall map was not completed, reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.) Date of Completion: September 2006 (outfall map)
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A map of the Town owned drainage system is available in GIS format and was previously submitted to RIDEM. A GPS unit identified outfall locations. Attribute information recorded for the outfalls includes outfall location (lat/long), material, diameter, condition, maintenance assessment, pipes coming into structure, outlet description, and field notes.

A hardcopy outfall map was provided with the 2009 (Year 6) Annual Report.

The most up-to-date Excel table with outfall location information is provided electronically on a CD with this annual report.

Responsible parties: DPW, Planning

Updates to drainage mapping are ongoing.

IV.B.3.b.2	Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2010 calendar year.
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The Town utilized a GPS unit to identify outfall locations. This method is considered more useful for future needs. Tagging was not completed.

IV.B.3.b.3	Provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.
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Catch basins and manholes are included in the outfall GIS layer. Culverts, swales, vortechs, yard drains, and other misc. drainage structures are included in this GIS layer. Attribute information includes data referenced in IV.B.3.b.1 above.

Drainage pipes are a separate GIS layer. Attribute information saved in the GIS layer includes location, pipe size, material, condition, maintenance assessment, and field notes.

The activity was implemented as a result of the tracing of illicit discharges.

Recording drainage system elements is useful for subcatchment area delineation associated with outfalls and understanding the extent of the Town's drainage system.

GIS layer information was previously submitted to RIDEM.

Responsible parties: DPW, Planning

Updates to drainage mapping are ongoing

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.4	<p>Indicate if the IDDE ordinance was not developed, adopted and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. Date of Adoption: 8/27/2008 If the Ordinance was amended in 2010, please indicate why changes were necessary.</p>
<p>The IDDE ordinance was developed and adopted on August 27, 2008. A copy of the ordinance was submitted to RIDEM in 2009.</p> <p>Responsible parties: DPW, Planning</p>	
IV.B.3.b.5.ii, iii, iv, & v	<p>Provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.</p>
<p>Public complaints are received and followed up by the Building Official and Public Works Department. The Director of Public Works or designee administers, implements, and enforces the provisions of the IDDE Ordinance.</p> <p>Complaints related to OWTS (septic system) discharges are provided to RIDEM for appropriate action. Emergency responses related to spills are coordinated with the Town Fire Department and appropriate authorities as necessary.</p> <p>Five potential illicit discharges were identified from the two dry weather surveys and scheduled for investigation by March 1, 2010 (refer to Burrillville's Response to Notice of Intent to Enforce (NOIE) letter dated January 4, 2011) to identify potential illicit sources. Due to the significant snowfall and costs associated with above normal sanding operations for the 2010 – 2011 Winter Season, outfall investigations will be postponed until Spring/Summer 2011. However, in accordance with the anticipated schedule outlined in the response to RIDEM, Burrillville delineated the subcatchments for the five potential illicit discharges. These priority outfall subcatchment maps are attached to this annual report.</p> <p>Responsible parties: DPW, Building Department</p>	
IV.B.3.b.5.vi	<p>Provide summary of implementation of catch basin and manhole inspections for illicit connections and non-storm water discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed.</p>
<p>Inspection of the drainage system was completed in 2006. For 2010, catch basins and manholes were inspected on an as-needed basis.</p> <p>Responsible parties: DPW</p>	
IV.B.3.b.5.vii	<p>If dry weather surveys including field screening for non-storm water flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. Date of Completion: April 30, 2010</p>
<p>The first dry weather survey was completed between July 2009 and October 2009. The second dry weather survey was completed between January 2010 and April 2010. 141 outfalls have been investigated for both the first and second survey. Five potential illicit discharges were identified from the surveys and scheduled for investigation by March 1, 2010 (refer to Burrillville's Response to Notice of Intent to Enforce (NOIE) letter dated January 4, 2011) to identify connections for elimination. Due to the significant snowfall and costs associated with above normal sanding operations for the 2010 – 2011 Winter Season, outfall investigations will be postponed until Spring/Summer 2011.</p> <p>A copy of the electronic data for the two outfall surveys was previously provided to RIDEM with Burrillville's Response to Notice of Intent to Enforce (NOIE) letter dated January 4, 2011. For convenience, the electronic data is provided on a CD with this annual report.</p> <p>Responsible parties: DPW</p>	

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.7	Provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>The 5 potential illicit discharges are not located near RIDOT roadways. Therefore, no action will be taken with RIDOT.</p> <p>The Town's drainage system does not connect with another MS4 community.</p> <p>To date, coordination with RIDOT is not necessary and coordination with other MS4 communities does not apply. Therefore, an evaluation on effectiveness is not necessary.</p> <p>Responsible parties: DPW</p>	
IV.B.3.b.8	Provide a description of efforts and actions taken for the referral to RIDEM of non-storm water discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>RIDEM is notified of any discharges that apply to state regulations. For example, RIDEM is notified of any discharges to a regulated wetland as part of the state's wetland regulations and any discharges from OWTS (septic systems) as part of the state's OWTS regulations. For development and redevelopment projects in Town, a review by the Planning Board triggers a review for wetland regulation compliance and an inspection by the Building Department checks for an approved OWTS (if applicable).</p> <p>This requirement is effective by allowing coordination with RIDEM for potential illicit discharge issues.</p> <p>Responsible parties: DPW, Building Department, Planning</p> <p>Coordination efforts are an ongoing activity.</p>	
IV.B.3.b.9	Provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-storm water discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>The Town has a multitude of information on their website. This includes a description of the Town's storm drain stenciling program conducted in Fall 2007 that details the importance of refraining from dumping items down the storm drains. The Town's Recycling Program, recycling calendar, and proper disposal methods for wastes (yard waste, used tires, motor oil, etc.) is also provided on the website. The recycling calendar is a full-size calendar that provides hazardous waste days, compost facility hours, etc. A copy of the website page and links that describe recycling and disposal methods for community use is attached to this annual report.</p> <p>The Town uses their website as a tool to inform the public of potential hazards and proper waste disposal techniques, consistent with many of their public education efforts. In addition, the website provides information on street sweeping activities that are a good housekeeping activity.</p> <p>The EPA brochure <i>Make Your Home the Solution to Stormwater Pollution! A homeowner's guide to healthy habits for clean water</i> provides information on mitigating pollution in stormwater runoff. This brochure is provided at the Town Hall.</p> <p>Responsible parties: DPW, Building Department, Planning</p> <p>This is an ongoing activity.</p>	
Additional Measurable Goals and Activities	

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2010: 5 potential	# of Illicit Discharges Tracked in 2010: 0 (scheduled for Spring/Summer 2011)
# of Illicit Discharges Eliminated in 2010: 0	# of Complaints Received: 0
# of Complaints Investigated: 0	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date: 5 potential	Total # of Illicit Discharges remaining unresolved at the end of 2010: 5 potential
Summary of Enforcement Actions: No enforcement action taken at this time. Once the subcatchment areas for the 5 potential illicit discharges are field investigated, recommendations for illicit discharge connection removal will be made (if necessary).	
Extent to which the MS4 system has been mapped: All Town-owned outfalls have been identified in the urbanized areas and downloaded into the Town's GIS. The Town Planner and Public Works personnel collected outfall data with a GPS unit during the spring of 2004. During 2005, Public Works purchased a GPS unit to locate Town-owned drainage infrastructure.	
Total # of Outfalls Identified and Mapped to Date: 141 outfalls	

SECTION II.B Interconnections (Part IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:

The 5 potential illicit discharges are not located near RIDOT roads. Therefore, coordination with RIDOT is not necessary. Interconnections with other MS4s do not exist.



**MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORM WATER RUNOFF CONTROL (Part IV.B.4 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.4.b.1	Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was not developed, adopted and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. Date of Adoption: 4/25/2001 If the Ordinance was amended in 2010 please indicate why changes were necessary.
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The Soil Erosion and Sediment Control Ordinance was adopted in April 2001. A copy of the ordinance was submitted to RIDEM in 2009.

Responsible parties: DPW, Building Department, Planning, Conservation Commission, Town Council

IV.B.4.b.6	Describe actions taken as a result of receipt and consideration of information submitted by the public.
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A site inspection for construction activities is completed (mainly by the Building Department) and addressed on a case-by-case basis.

Responsible parties: DPW, Building Department, Planning, Conservation Commission

Receipt and consideration of information by the public is ongoing.

IV.B.4.b.8	Describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Storm Water Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.
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Site inspections are ongoing. The Town reviews all construction projects in Town. Issues of non-compliance are dealt with on a case-by-case basis. When necessary, non-compliance issues are forwarded to RIDEM (such as non-compliances with Wetland and OWTS regulations).

Responsible parties: DPW, Building Department, Planning, Conservation Commission

Site inspections are ongoing.

Additional Measurable Goals and Activities

The Soil Erosion and Sediment Control Ordinance is in place and currently enforced during site plan reviews and construction inspections.

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL cont'd

SECTION II. A - Plan and SWPPP Reviews during Year 7 (2010) Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre.

IV.B.4.b.4: Review 100% of plans and SWPPPs for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

of Construction Reviews completed: 0 (There were no site plans submitted for proposed construction activities in Town resulting in 1 acre or more of disturbance in 2010.)

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement.

The Soil Erosion and Sediment Control Ordinance requires submission of an erosion and sediment control plan. This ordinance has been effective as an enforcement mechanism to issue violations that are not in accordance with this Ordinance. To coordinate the review of SWPPPs associated with the *General Permit Rhode Island Pollutant Discharge Elimination System Storm Water Discharge Associated with Construction Activity*, the Town plans to implement a standardized procedure for Construction SWPPP review and proper recordkeeping. Implementation of the standardized procedures are expected to be completed in Spring/Summer 2011, as referenced in Burrillville's Response to Notice of Intent to Enforce (NOIE) letter dated January 4, 2011.

The Director of Public Works/Town Engineer, Town Planner, and Building Inspector are proactive and work as a team to review plans, perform site inspections, and enforce erosion and sediment control requirements. The Town receives a construction schedule prior to the start of a project and requires an inspection fee prior to project start-up.

The Planning Board and Building Official are responsible for site plan review approval. A review for drainage and sedimentation control are addressed and enforced by the Town Engineer, a P.E. Reviews include minor land developments with aggregate footprints less than 10,000 square feet in size.

SECTION II.B - Erosion and Sediment Control Inspections during Year 7 (2010) (Part IV.G.2.n) Part IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4 (the program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site).

of Site Inspections:

≥ 1 acre = 0 (There were no construction activities in Town resulting in 1 acre or more of disturbance in 2010.)

< 1 acre = approximately 25

of Complaints Received: 0

of Violations Issued:

≥ 1 acre = 0 (There were no construction activities in Town resulting in 1 acre or more of disturbance in 2010.)

< 1 acre = 4

of Unresolved Violations Referred to RIDEM:

≥ 1 acre = 0 (There were no construction activities in Town resulting in 1 acre or more of disturbance in 2010.)

< 1 acre = 2

CONSTRUCTION SITE STORM WATER RUNOFF CONTROL cont'd

Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement.

Due to the economy, construction activities ≥ 1 acre did not occur in 2010.

For 2010, four violations for construction activities <1 acre were issued due to non-compliance with RIDEM's RIPDES and Wetland Divisions. Three out of the four violations have not been resolved. These four construction violations include the following

- Property at 233 East Wallum Lake Road in Burrillville was issued a violation for cutting trees within wetland jurisdiction in March 2010. Property owner hired environmental scientist in June 2010 that recommended tree plantings, removal of slash piles, and adherence to the Town's Soil Erosion and Sediment Control Ordinance. Violation has not yet been resolved.
- Property at 1101 Tarkiln Road in Burrillville was issued a violation for clearing and grading violations near wetland jurisdiction in April 2010. Recommendations for erosion control, plan to address wetland issue, and reference to RIDEM Wetland regulatory compliance were issued. RIDEM Office of Compliance and Inspection were cc-ed on violation. Violation was resolved; property owner hired a wetland biologist to prepare a restoration plan that was implemented.
- Property at 1111 Victory Highway in Oakland was issued a violation for unsafe building and vegetation/grade disturbance located in wetland jurisdiction in June 2010. Property was ordered to install temporary erosion controls and submit an erosion and sediment control plan. RIDEM Office of Compliance and Inspection were cc-ed on violation. Violation has not yet been resolved.
- Property at 249 Hill Road in Burrillville was issued a violation for clearing/excavation activities conducted near stream in September 2010. Wetlands and RIPDES division of RIDEM were contacted for enforcement assistance due to regulatory jurisdiction in October 2010. Violation has not yet been resolved.

Responsible parties: Building Department (primary), DPW, Planning, Conservation Commission

Inspections and issuance of violations (as necessary) are ongoing.



**MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND
REVELOPMENT
(Part IV.B.5 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.5.b.5	Describe activities and actions taken to coordinate with existing State programs requiring post-construction storm water management.
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The Town will coordinate with requirements specified in the updated Rhode Island Stormwater Management Manual (December 2010) that include LID techniques and post-construction requirements.

Responsible parties: DPW, Building Department, Planning, Conservation Commission

Coordination efforts are ongoing.

IV.B.5.b.6	Describe actions taken for the referral to RIDEM of new discharges of storm water associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new storm water discharges associated with industrial activity to ensure that facilities will obtain the proper permits).
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No new major industries (or associated industrial activity) have opened in Town. The Town will notify RIDEM of any new industries in Town that may require a permit for stormwater discharges or if other state regulations (such as wetland regulations) apply.

Responsible parties: DPW, Building Department, Planning

IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was not developed, adopted and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. Date of Adoption: 8/27/08 If the Ordinance was amended in 2010 please indicate why changes were necessary.
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The Post Construction Stormwater Control Ordinance was developed and adopted on August 27, 2008. A copy of the ordinance was submitted to RIDEM in 2009.

Responsible parties: DPW, Building Department, Planning, Conservation Commission, Town Council

IV.B.5.b.12	Describe activities and actions taken to identify existing storm water structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.
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All publicly owned stormwater BMPs have been GPS located and saved as a GIS layer.

The Town will coordinate with requirements specified in the updated Rhode Island Stormwater Management Manual that include LID techniques and post-construction requirements.

Responsible parties: DPW, Building Department, Planning

Additional Measurable Goals and Activities

All publicly owned BMPs inspected and callouts for maintenance/repair were incorporated into the DPW's maintenance schedule. The Planning Department is responsible for building in an overall approval and inspection program for the Engineering Department to follow, as prescribed under Planning Regulation guidelines for privately owned BMPs.

POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

SECTION II.A. - Plan and SWPPP Reviews during Year 7 (2010) Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of storm water runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs).

of Post-Construction Reviews completed: 0 (There were no construction activities completed in Town resulting in 1 acre or more of disturbance in 2010.)
Summary of Reviews and Finding, include an evaluation of the effectiveness of the program. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. Due to the down turn in the economy, construction projects are at various stages with many not complete. While inspections are ongoing with construction activity, 2010 construction projects do not trigger the 1 acre threshold. Responsible parties: DPW, Building Department, Planning Post construction reviews are ongoing.

SECTION II.B. - Post Construction Inspections during Year 7 (2010): Parts IV.G.2.o and IV.B.5.b.10 Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review).

# of Site Inspections: 0 (There were no completed construction activities in Town resulting in 1 acre or more of disturbance in 2010.)	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: None	

SECTION II.C. - Post Construction Inspections during Year 7 (2010): Parts IV.G.2.p and IV.B.5.b.11 Proper Operation and Maintenance of Structural BMPs (Part) Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts. Identify person(s) /Department and/or parties responsible for the implementation of this requirement. The Town does not maintain private roadways and affiliated drainage structures that include Harrisville Village LLC. The Town Planner received drainage system cleaning/inspection schedule for infiltration systems, catch basins, and vortechnic units associated with private BMPs located at the Harrisville Village LLC. A total of 19 catch basins, 8 manholes, 1 vortechnic unit, and 3 infiltration systems were cleaned and inspected. Porous pavement parking lot located at Mill Complex Associates Redevelopment is maintained by the owner, Clock Tower Associates LP.	



**MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)**

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)

IV.B.6.b.1.i	Describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.
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Outfalls, catch basins, manholes, and drainage pipe have been located with a GPS unit and appropriate GIS layers developed.

Responsible parties: DPW, Planning

Updates to drainage mapping are ongoing.

IV.B.6.b.1.ii	Describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.
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In 2005 a vactor vacuum truck was purchased to clean and inspect catch basins. In 2009, approximately 20% of catch basins were cleaned and inspected. Town drainage pipes are repaired and rehabilitated on an as-needed basis as part of the Town's Capital Improvement Project schedule.

Cleaning catch basins is one of the most effective maintenance activity completed, as sediment and debris collected during the winter months during sanding activities contribute to buildup.

Three detention basins (1 on Whitney Estates and 2 on Lymar Estates) are inspected annually by Town.

Responsible parties: DPW

IV.B.6.b.1.iii	Describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement.
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20% of Town owned catch basins were cleaned in 2010. This activity appears to be effective since the Town does not experience drainage blockages from sediment buildup. The Town was unable to clean 100% of catch basins due to limited staff availability and necessary construction projects that required immediate attention that included flood damage repair associated with the historic March 2010 floods, bridge repairs, and construction of a pervious pavement funded by 319 Grant.

Responsible parties: DPW

Catch basin cleaning is ongoing.

IV.B.6.b.1.iv	Describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.
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Non-priority, non-issue.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.v	Describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.
<p>Structural BMPs GPS located in 2006 revealed outfalls with scouring or sedimentation concerns. These areas were identified and scheduled for appropriate maintenance. Based on the results of the two dry weather surveys, outfalls with scouring or excessive sedimentation will be addressed in 2011, as necessary.</p> <p>This activity is appropriate on an as-needed basis. This activity is effective to reduce sedimentation in outfalls and identify scouring that can compromise the structural integrity of outfalls.</p> <p>Responsible parties: DPW</p>	
IV.B.6.b.1.vi	Indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). Evaluate appropriateness and effectiveness of this requirement.
<p>All streets were swept in 2010. Approximately 1,200 cy of sweepings were collected from Town roadways. The 2010 street sweeping schedule is attached to this annual report.</p> <p>This activity is appropriate to remove excessive sediment from roadways, especially after snowmelt. This BMP is very effective to reduce sediment buildup in catch basins and reduces catch basin cleaning efforts.</p> <p>Responsible parties: DPW</p> <p>Street sweeping is ongoing.</p>	
IV.B.6.b.1.vii	Describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.
<p>The Town's Post Construction Ordinance requires routine maintenance and repairs for structural BMPs that include practices completed in accordance with the Rhode Island Stormwater Design and Installation Standards Manual or the Rhode Island Soil Erosion and Sediment Control Handbook (as amended). Routine maintenance helps to keep debris, litter, and sediment out of the Town's drainage system.</p> <p>The Town's Illicit Discharge Ordinance prohibits non-stormwater discharges into the Town's drainage system, requires proper spill notification, and provides the Town with enforcement capabilities. This Ordinance helps to mitigate stormwater pollution of all kinds into the Town's drainage system.</p> <p>Responsible parties: DPW, Building Department, Planning</p> <p>This activity is ongoing for implementation and enforcement.</p>	
IV.B.6.b.1.viii	Describe the method for disposal of waste removed from MS4s and waste from other municipal operations, including accumulated sediments, floatables and other debris and methods for record-keeping and tracking of this information.
<p>Street sweepings are used for road reconstruction, pipe bedding for drainage projects, and stockpiled and used to mix with leaves as part of composting efforts.</p> <p>Responsible parties: DPW</p> <p>This activity is ongoing.</p>	
IV.B.6.b.4 and IV.B.6.b.5	Describe and indicate activities and corrective actions for the evaluation of compliance. This evaluation must include visual quarterly monitoring; routine visual inspections of designated equipment, processes, and material handling areas for evidence of, or the potential for, pollutants entering the drainage system or point source discharges to a waters of the State; and inspection of the entire facility at least once a year for evidence of pollution, evaluation of BMPs that have been implemented, and inspection of equipment. A Compliance Evaluation report summarizing the scope of the inspection, personnel making the inspection, major observations related to the implementation of the Storm Water Pollution Prevention Plan, and any actions taken to amend the Plan must be kept for record-keeping purposes.
<p>The Town's SWPPP for the garage facility titled <i>Burrillville Municipal Garage Facility</i> describes significant materials at the garage facility, stormwater management controls and best management practices (BMPs) required to reduce pollutants in stormwater discharges, and employee training. Site inspection requirements are also detailed.</p> <p>Responsible parties: DPW</p> <p>This activity is ongoing.</p>	

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.6	Describe all employee training programs used to prevent and reduce storm water pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance for the past calendar year, including staff municipal participation in the URI NEMO storm water public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.
<p>Employees from the DPW, Building Department, and Planning attend workshops through outside affiliations that include the Blackstone River Coalition and Twilight Seminars. Town maintenance staff is trained on proper equipment use, material management, and proper disposal as part of job tasks.</p> <p>This activity is appropriate to educate Town staff and is an effective approach for those who attend trainings to educate other Town employees.</p> <p>Responsible parties: DPW, Building Department, Planning</p> <p>This activity is ongoing.</p>	
IV.B.6.b.7	Describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.
<p>The Burrillville Municipal Garage Facility SWPPP was developed and implemented in 2006. This Plan includes an inventory of significant materials, past spills and leaks, industrial activities onsite that are a high risk for non-stormwater discharges, best management practices, and recordkeeping and reporting. This SWPPP includes practices that can be incorporated with other Town maintenance activities.</p> <p>This SWPPP is appropriate for the Municipal Highway Garage and effective at reducing stormwater pollution from the facility.</p> <p>Responsible parties: DPW</p> <p>This activity is ongoing.</p>	
<p>Additional Measurable Goals and Activities</p> <p>Ongoing pollution and good housekeeping is completed where automobile batteries, antifreeze, and used motor oil are housed. Spill containment areas are built around the fuel heating oil tanks at the DPW as part of implementation of the SWPPP.</p>	

SECTION III.A - Structural BMPs (Part IV.B.6.b.1.i)

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
	Porous pavement parking lot located at the Police Station	Town	For winter conditions, salt (not sand) is used to prevent clogging. Parking lot will be vacuumed on as-needed basis.
	Porous pavement parking lot located at Library Annex	Town	For winter conditions, salt (not sand) is used to prevent clogging. Parking lot will be vacuumed on as-needed basis.
	1 Vortechnic Unit located at Pascoag municipal lot	Town	Inspected annually.
	3 Detention Basins located at Whitney Estates (1) and Lymar Estates (2)	Town	Inspected annually and brush cut.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:

Outfalls assessed with scouring or sedimentation issues in the dry weather surveys will be addressed in 2011, as necessary.

SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).



TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural storm water controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of storm water identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

Currently, there are no approved TMDLs that apply to the Town of Burrillville, RI.



SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regs)*, on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Storm Water Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of storm water in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

Special Resource Protection Waters (SRPWs) located in the Town of Burrillville, RI include the following:

1. Cedar Swamp Pond:
 - a. SRPW categories include ecological habitat and critical habitat (rare and endangered species).
 - b. Cedar Swamp Pond is a Class B water body.
 - c. The Town is not aware of discharges from the Town's MS4 and further protection measures are not warranted. If this status should change, the Town will implement appropriate activities to protect this water body.
2. Cold Spring Brook:
 - a. SRPW categories include ecological habitat and critical habitat (rare and endangered species).
 - b. Cold Spring Brook is a Class B water body.
 - c. Protection measures implemented include the following: proper street sweeping and catch basin cleaning to reduce sedimentation discharges tributary to the water body, ongoing construction inspections for any construction related activities in the vicinity of the water body that are a high risk for erosion and sediment runoff, enforcement of local wetland regulations and the Rhode Island Freshwater Wetlands Act for wetlands in the vicinity of the water body. A combination of these protection efforts assist in the mitigation of stormwater pollution to the water body. Protection measures are ongoing.
3. Croff Farm Brook:
 - a. SRPW categories include ecological habitat and critical habitat (rare and endangered species).
 - b. Croff Farm Brook is a Class B water body.
 - c. Protection measures implemented include the following: proper street sweeping and catch basin cleaning to reduce sedimentation discharges tributary to the water body, ongoing construction inspections for any construction related activities in the vicinity of the water body that are a high risk for erosion and sediment runoff, enforcement of local wetland regulations and the Rhode Island Freshwater Wetlands Act for wetlands in the vicinity of the water body. A combination of these protection efforts assist in the mitigation of stormwater pollution to the water body. Protection measures are ongoing.
4. Screech Hole Bog:
 - a. SRPW categories include ecologic habitat, critical (rare and endangered species, and unique fresh water wetland). Screech Hole Bog has a fen community (persistent wetland species dependent on adequate water supply).
 - b. Screech Hole Bog is a wetland just west of the North Smithfield line, contiguous to the Massachusetts border.
 - c. Protection measures implemented include the following: enforcement of local wetland regulations and the Rhode Island Freshwater Wetlands Act for wetlands. Protection measures are ongoing.
5. Wallum Lake:
 - a. SRPW categories include recreation, state park, and critical habitat (rare and endangered species).
 - b. Wallum Lake is used as a public water supply at Zambarano Memorial Hospital (southeast corner of the Lake). Clear River flows out of Wallum Lake through Pascoag, Harrisville, and Oakland before merging with Chepachet River.
 - c. Protection measures implemented include the following: proper street sweeping and catch basin cleaning to reduce sedimentation discharges tributary to the water body, ongoing construction inspections for any construction related activities in the vicinity of the water body that are a high risk for erosion and sediment runoff, enforcement of local wetland regulations and the Rhode Island Freshwater Wetlands Act for wetlands in

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

the vicinity of the water body. In addition, consideration is given to reduced sanding/salting operations near this public water supply source. A combination of these protection efforts assist in the mitigation of stormwater pollution to the water body. Protection measures are ongoing.

Impaired waters (with no approved TMDL) include the following:

1. Slatersville Reservoir:
 - a. Impairments include copper and lead. TMDL schedule is 2012.
 - b. Copper and lead contamination is most likely from domestic piping, road and parking lot runoff, and vehicle emissions. The Town currently conducts catch basin cleaning and street sweeping to reduce sediment runoff from roads and parking lots. In addition, the Town has installed sewers in this area that reduces contamination from domestic copper piping.
2. Clear River:
 - a. Impairments include aquatic macroinvertebrate bioassessments (biodiversity impacts), cadmium, copper, and lead. TMDL schedule is 2012.
 - b. Cadmium, copper, and lead contamination is most likely from the local wastewater treatment plant upstream. The Town is in compliance with permit limits that include low limits for copper and lead. Cadmium is not considered a pollutant of concern and was removed from testing requirements.
3. Tarkiln Brook and Tribs
 - a. Impairments include benthic-macroinvertebrate bioassessments (biodiversity impacts). TMDL schedule is 2012.
 - b. Studies indicated contamination of the groundwater and surface water around Tarkiln Brook from an EPA Superfund Site. The impairments to this water body are not considered stormwater related.
4. Keach Brook and Tribs
 - a. Impairments include benthic-macroinvertebrate bioassessments, cadmium, and lead. TMDL schedule is 2012.
 - b. Protection measures implemented include the following: proper street sweeping and catch basin cleaning to reduce sedimentation discharges tributary to the water body, ongoing construction inspections for any construction related activities in the vicinity of the water body that are a high risk for erosion and sediment runoff, enforcement of local wetland regulations and the Rhode Island Freshwater Wetlands Act for wetlands in the vicinity of the water body. A combination of these protection efforts assist in the mitigation of stormwater pollution to the water body. Protection measures are ongoing.