RIPDES Small MS4 Annual Report

City of Woonsocket

Woonsocket, Rhode Island

March 2017



317 Iron Horse Way Suite 204 Providence, RI 02908



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				ANNUAL REP IATION PAGE	PORT	
RIPDES PE	ERMIT #RIR040 <u>1</u>	16			a an	Non-
REPORTIN	IG PERIOD:	X YEAR 13 Jan 2016-Dec 2016	-	MAR	10 2017	
OPERATO						
Name: CIT	Y OF WOONSOC	XET				
Mailing Add	dress: 169 MAIN S	STREET				
City: WOOI	NSOCKET		State: RI	Zip: 02895	Phone: (401)76	7-9216
Contact Person:		Title: SUPERINTENDENT – SOLID WASTE/ENGINEERING				
Mike Debroisse		Email: MDebroisse@woonsocketri.org				
PRI - Privat	s (circle one): te PUB - ise specify):	Public BPP - Pu	ıblic/Private	STA - State	FED – Federa)

OWNER OF MS4 (if different from OPERATOR)

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

CERTIFICATION

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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.

Print Name	Lisa Baldelli-Hunt	
Print Title	City Mayor	
Signature	Lisa Backeeli Hunt	Date <u>03.07.17</u>



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT Office of Water Resources

DEN	USE	ONLY	
Date Received			

RIPDES SMALL MS4 ANNUAL REPORT

GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040 16

REPORTING PERIOD:	🛛 YEAR 13
	Jan 2016-Dec 2016

OPERATOR OF MS4

Name: CITY OF WOONSOCKET				
Mailing Address: 169 MAIN STREET	9			
City: WOONSOCKET	State: RI	Zip: 02895	Phone: (401)767-9216	
Contact Person:	Title: SUPERIN	Title: SUPERINTENDENT – SOLID WASTE/ENGINEERING		
Mike Debroisse	Email: MDebr	Email: MDebroisse@woonsocketri.org		
Legal status (circle one): PRI - Private PUB - Public BPP - F Other (please specify):	Public/Private	STA - State	FED – Federal	

OWNER OF MS4 (if different from OPERATOR)

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

CERTIFICATION

 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.

 Print Name
 Lisa Baldelli-Hunt

 Print Title
 City Mayor

 Signature
 Aua Baldelli-Hunt

 Date *Q3.07.17*



SECTION I. OVERALL EVALUATION:

GENERAL SU	MMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:			
and pollutants t	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.			
	parties responsible for achieving the measurable goals and reference any reliance on another entity measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)			
Responsible P	Party Contact Name:Mike Debroisse			
Phone: <u>(40</u>	01)767-9216Email:MDebroisse@woonsocketri.org			
ł	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater 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.			
The City contin the community provides a com	The City relies on the Storm Water Education and Outreach Program in cooperation with URI to meet this measureable goal. The City continues to implement their stormwater website (<u>http://www.woonsocketri.org/stormwater-management</u>) to educate the community on how to reduce storm water pollution. In general, the website describes the general permit requirements, provides a complaint form, and offers recommendations for low impact development. The website also links to the Blackstone River Coalition's website where there is additional educational information on stormwater quality, BMPs. and LID.			
Woonsocket Hi "Fish in the Cla	In previous years, the school department has incorporated environmental education into school curriculum. In 2013, the Woonsocket High School received \$330 from the Blackstone River Watershed Council to purchase supplies to implement the "Fish in the Classroom" project. High School students raised and released approximately 70 salmon. School groups have also stenciled catch basins in previous years.			
	The Engineering Department is responsible for this measure. The City will continue to educate the community on how to reduce storm water in upcoming years as opportunities arise.			
t	Use the space below to 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 stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.			
The City relies on the Storm Water Education and Outreach Program in cooperation with URI to meet this measureable goal. The City's website for storm water includes links to organizations that provide educational materials and public involvement opportunities. The City works with these groups to provide assistance with the events. As in past years, the City sponsored Earth Day cleanup events (described further under Minimum Control Measure #2). Also, in previous years the City developed a letter and brochure (see attached brochure) to distribute to businesses which describes proper maintenance of structural BMPs. This letter and brochure is now distributed to all owners upon completion of post-construction inspections. This measure has been appropriate and effective. The City will continue to educate the community on how to become involved in the storm water program. The Engineering Department is responsible for this measure.				
The City Superintendent of Solid Waste and Engineering participated in an RI NEMO online questionnaire regarding the City's SESC ordinance, and provided review comments for the 2016 SESC Handbook Update.				

PUBLIC EDUCATION AND OUTREACH cont'd

Check all topics that were included in the Public Education and topics selected, provide the target pollutant (e.g. construction si	Outreach program during this reporting period. For each of the ites, total suspended solids):		
Торіс	Target Pollutant(s)		
☑ Construction Sites	TSS		
Pesticide and Fertilizer Application	Nutrients		
☑ General Stormwater Management Information	Nutrients, Pathogens, TSS		
Pet Waste Management	Pathogens		
☑ Household Hazardous Waste Disposal	Household Hazardous Waste, expired prescriptions		
⊠ Recycling	Recyclables including e-wastes		
Illicit Discharge Detection and Elimination	Pathogens, Nutrients		
☑ Riparian Corridor Protection/Restoration	Preserve native vegetation		
Infrastructure Maintenance			
☑ Trash Management	Refuse and Recycling, White goods and bulk items, leaves and yard waste		
□ Smart Growth			
☑ Vehicle Washing	Nutrients, Surfactants		
Storm Drain Marking			
☑ Water Conservation			
Green Infrastructure/Better Site Design/LID	Nutrients, TSS, Pathogens		
Wetland Protection			
□ Other:			
□ None			
 Residential Businesses Restaurants 	 ☑ Contractors ☑ Developers ☑ General Public ☑ Industries ☑ Agricultural 		
Additional Measurable Goals and Activities Please list all stormwater training attended by your staff during the position of all staff who attended the training.	ne 2016 calendar year and list the name(s) and municipal		
Trainings:			
Implementing a Stormwater Financing Program in the Narraga Agenda)	nsett Bay- Part 3 Workshop, March 11, 2016 (see attached		
Attending name of staff and title:Scott Stanford,	CADD Engineering Specialist		



SECTION I. OVERALL EVALUATION:					
GENERAL SU	MMARY, STATUS, A	APPROPRIATENE	ESS AND EFFECTIVENESS OF MEASURABLE GOALS:		
engaged. Discu	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.				
			asurable goals and reference any reliance on another entity for ft this person/entity is different from last year.)		
Responsible Pa	rty Contact Name:	Mike Debroisse			
Phone: <u>(401</u>)767-9216	Email:	MDebroisse@woonsocketri.org		
(2 (6	description of the group addressing TMDL requi concern. Name of perso effectiveness of BMP a	es engaged, and active rements indicate how on(s) and/or parties r and measurable goal.			
Several Earth Da April 16, 2016, a and debris. Res	ay cleanup events were nd other organizations	e held in 2016 at mul held several smaller rraged to pick up litte	an water, including the schools and the Blackstone River Coalition. tiple locations within the City. A City sponsored event was held on events. These successful events involved the collection of trash ar along the street they live on. The City and Waste Management of ckers for the event.		
			articipated in an RI NEMO online questionnaire regarding the City's 16 SESC Handbook Update.		
made up to \$16, public property v	From September 15, 2015 to September 15, 2016, as in the previous four years, the Woonsocket Stormwater Task Force made up to \$16,576 of funding available to support projects that improve the management of stormwater on private and/or public property within the City of Woonsocket and ultimately lead to improvements in the water quality of the Blackstone River (see attached announcement).				
	See attached Announcement for approval of \$4,000 in conducting laboratory experiments to test a stormwater best management practice as a pilot project within the City.				
			ation, development, evaluation, and improvement of the Stormwater period. Check all that apply:		
 □ Cleanup Events □ Comments on SWMPP Received □ Stakeholder Meetings □ Community Hotlines □ Community Meetings □ Other (describe) □ Storm Drain Markings □ Stakeholder Meetings □ Stakeholder Meetings<!--</td-->					
Additional Measurable Goals and Activities The City of Woonsocket Department of Public Works is actively sponsoring a Rain Barrel Program to encourage the public (e.g., homeowners) to reuse roof runoff for gardening, lawn watering, and other similar purposes. Further information regarding this program can be found at: http://www.woonsocketri.org/sites/woonsocketri/files/uploads/rain_barrel_flyer.pdf					

PUBLIC INVOLVEMENT/PARTICIPATION cont'd

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

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? \boxtimes YES \Box NO	If YES, Date of Public Notice: 02/27/2017			
How was public notified: List-Serve (Enter # of names in List:) TV/Radio Notices Website Enter Web Page URL:	 Newspaper Advertising Town Hall posting Other: 			
Was public meeting held?	Where:			
Summary of public comments received: No comments were received				
Planned responses or changes to the program: Since there were no comments received there are no planned responses or changes to the program at this time.				



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. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: <u>Mike Debroisse</u>				
Phone: <u>(4</u>	401)767-9216 Email: MDebroisse@woonsock	etri.org		
IV.B.3.b.1:	If the outfall map was not completed, use the space below to indicate recompletion of requirement and person(s)/ Department responsible for correcommends electronic submission of updated EXCEL Tables if this information of Outfalls Mapped within regulated area:280 Percent Complete:100 If 100% Complete, Provide Date of Completion:2007	completion. (The Department		
incorporation in	outfall map was developed during the dry-weather survey conducted in Yean into the GIS database by Fuss & O'Neill. A GIS shapefile of outfall location ded with the Year 5 Annual Report. The required outfall Excel tables were al Report.	ns was provided in electronic format in		
IV.B.3.b.2	Indicate if your municipality chose to implement the tagging of outfalls a measure, activities and actions undertaken under the 2016 calendar years.			
Outfalls were (e GPS located and tagging is not necessary.			
IV.B.3.b.3	Use the space below to provide a summary of the implementation of re (catch basins, manholes, and/or pipes). Indicate if the activity was impl- illicit discharges, new MS4 construction projects, and inspection of catc Pollution Prevention and Good Housekeeping Minimum Measures, and requirements and/or investigations. Assess effectiveness of the program	emented as a result of the tracing of th basins required under the IDDE and I/or as a result of TMDL related		
The entire storm water system has been comprehensively mapped and been incorporated into a GIS database. This effort was completed through a contract with Fuss & O'Neill. The City continually updates the storm water grids with any changes as they are encountered. This measure has been appropriate and effective in developing the City's mapping. The Engineering Department and hired consultant are responsible for this measure. No additional elements were recorded after the comprehensive mapping.				
IV.B.3.b.4	 Indicate if the IDDE ordinance was <u>not</u> developed, adopted, and subm submit proposed schedule for completion and identify person(s) / Depa completion of this requirement. Date of Adoption: March 21, 2005 If the Ordinance was amended in 2016, please indicate why changes we can be added as a schedule of the ordinance was amended in 2016. 	rtment and/or parties responsible for the		
The Woonsocket City Council formally adopted an "Illicit Discharge Detection and Elimination Ordinance" (Ordinance Chapter 7192) on March 21, 2005. A signed letter from the City's Solicitor attesting to this was provided to DEM in a letter dated February 19, 2007. No amendments to the Ordinance were made in 2016.				

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.5.ii, iii, iv, & v	Use the space below to 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.	
listed in the ex the public on the City Engineer responsible pa discharge). If the charge the ress in 2016. The ex-	able goals were completed during the SWMPP development process prior to Year 1. Details regarding this are ecutive summary of the SWMPP. In addition to the information in the SWMPP, a complaint form is available to he City's storm water website. Complaints received by the City are directed to the Engineering Department. The is responsible for the complaints. The procedure for removal of illicit discharges involves requiring the arty to cease discharging and address the situation within seven to ten days (depending on the type of he illicit discharges are not addressed by the responsible party, the City has the authority to perform repairs and ponsible party for the cost and fines that they may have incurred. No complaints for illicit discharges were noted effectiveness of this measure is yet to be determined.	
IV.B.3.b.5.vi	Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater 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. Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: ~2865 CBs exist in the City, approximately 1920 CBs were cleaned and inspected in 2016 (see attached map) Percent Complete:67 % Date of Completion:December 2016	
inspected and executive sum subsequently and equipmen	of the procedure for this measurable goal was completed in the SWMPP development process. Catch basins are cleaned on a yearly basis in conjunction with street sweeping. Details regarding this are included in the mary of the SWMPP. City structures were inspected for illicit connections in Year 4, the findings of which were provided to DEM. The City inspects and cleans catch basins (CBs) on a rotating schedule as time, personnel t allow. The City The Storm Water Committee, Engineering Department, and hired consultant were responsible development. The Engineering Department and Highway Department are responsible for inspections and	
IV.B.3.b.5.vii	If dry weather surveys including field screening for non-stormwater 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. The EXCEL Tables <u>must</u> include a report of <u>all outfalls</u> and indicate the presence or absence of dry weather discharges. Number of Outfalls Surveyed Jan-Apr: <u>280</u> Percent Complete: <u>100</u> % Date of Completion: <u>2007</u>	
Two dry-weather surveys were completed by Year 4. The surveys were completed by the City's consultant, Fuss and O'Neill. A report was prepared that included the results of both dry weather surveys. Results of the two surveys were provided in electronic format (shapefile) and were provided on the CD included with the Year 5 annual report. This information was also included in the Excel tables provided on the CD accompanying the Year 6 Annual Report. This measure has been appropriate and effective. The Engineering Department and hired consultant were responsible for this measure.		
IV.B.3.b.7	Use the space below to 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.	
coordinate with neighboring M	charges or connections have been detected in the vicinity of interconnections, the City has not needed to n interconnected MS4s, but has coordination procedures in place. The City has working relationships with S4s; therefore, the procedures are appropriate and expected to be effective; however, the effectiveness has yet ed. The Engineering Department is responsible for this measure.	

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.8	Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non- stormwater 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.
During 2016 th Since no unau	r referral were developed during the SWMPP prior to Year 1, with the process being put in place during Year 3. here were no unauthorized non-storm-water discharges that were deemed appropriate for referral to RIDEM. thorized non-storm-water discharges have been deemed appropriate for referral to RIDEM, the appropriateness ess of this measure is yet to be determined. The Engineering Department is responsible for completion of this
IV.B.3.b.9	Use the space below to 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-stormwater 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.
	ds to continue to subscribe to the Storm Water Education and Outreach Program for this training (see responses ontrol Measure #1).
Additional Me	easurable Goals and Activities

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

# of Illicit Discharges Identified in 2016: 0	# of Illicit Discharges Tracked in 2016: 0			
# of Illicit Discharges Eliminated in 2016: 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 (since 2003): 0	Total # of Illicit Discharges remaining unresolved at the end of 2016: 0			
Summary of Enforcement Actions:				
No enforcement actions were required in 2016.				
Extent to which the MS4 system has been mapped: 100%				
Total # of Outfalls Identified and Mapped to date: 280				

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.I)

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
		State Roads	RIDOT		As required
			Town of Cumberland		As required
			Town of N. Smithfield		As required
			Blackstone, MA		As required
			Bellingham, MA		As required



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. Mark with an asterisk (*) if this person/entity is different from last year.)		
Responsible Party Contact Name:Mike Debroisse		
Phone:(401)767-9216Email:MDebroisse@woonsocketri.org		
 IV.B.4.b.1 Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was <u>not</u> 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: September 20, 1993, letter of authority to DEM 12/01/2010 If the Ordinance was amended in 2016, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 <i>RI Stormwater Design and Installation Standards Manual</i>, and provide references to the amended portions of the local codes/ordinances. 		
The Woonsocket City Council formally adopted an "Erosion and Sediment Control Ordinance" (Ordinance Chapter 5803) on September 20, 1993. A signed letter from the City's Solicitor attesting to this ordinance's authority to carry out the applicable requirements of the RIPDES General Permit was provided to DEM in a letter dated December 1, 2010 and was provided with the Year 7 report. No amendments were made in 2016.		
IV.B.4.b.6 Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.		
The procedures for this measure were established during SWMPP development prior to Year 1. Public comments are received by the City Engineer, or another appropriate department at the City. In 2016, one complaint regarding construction on Gauthier Drive was received. The issue was resolved by the City and did not require referral to RIDEM. This measure continues to be appropriate and effective in addressing public concerns about soil erosion and sedimentation control involving new development. The Engineering Department is responsible for this measure.		
IV.B.4.b.8Use the space below to 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 Stormwater 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.		
The procedures for this measure were established during SWMPP development prior to Year 1. The Engineering Department can close down and retract issued permits for any construction site found to be non-complaint. The Engineering Department has a list of State personnel that can be contacted for assistance with any non-compliant construction site operators. The City did not need to refer any non-compliant construction site operators to RIDEM in Year 13. The Engineering Department is responsible for this goal.		
Additional Measurable Goals and Activities		

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 13 (2016), 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. **Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans 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 Applications Received: <u>20</u>
--

of Construction Reviews Completed: _____20

of Permits/Authorizations Issued: _____20___

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.

There were no issues concerning reviews completed in 2016. The Engineering Department is responsible for this measure. It is effective to conduct plan reviews for construction projects resulting in land disturbances greater than one acre.

SECTION II.B - Erosion and Sediment Control Inspections during Year 13 (2016), Parts IV.G.2.n and 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 Active Construction Projects: 19	
# of Site Inspections: 19	# of Complaints Received: 1
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions, include an evaluation of the effectiveness of the program. Identify person(s) /Department	

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.

In response to a public comment regarding construction on Gauthier Drive, the Town was able to discuss the issue with the contractor and resolve the issue. The complaint did not result in fines or other penalties. It is appropriate and effective to conduct erosion and sediment control inspections. The City's Engineering Department is responsible for implementation of this requirement.



MINIMUM CONTROL MEASURE #5: POST CONSTRUCTION STORMWATER 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. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name: _____Mike Debroisse

Responsis			
	(401)767-9216	Email:	MDebroisse@woonsocketri.org
IV.B.5.b.5		low to describe activities a struction stormwater mar	and actions taken to coordinate with existing State programs nagement.
the City doe indicated or developmer Managemer Standards I referring ap applicants for	s not plan to solely rel the City's Stormwate to r redevelopment in the Plan (the requireme <i>Manual</i>). It is appropria plicants to the state who or state reviews when	y on state approvals and r Management website (<u>h</u> the City of Woonsocket v nts of which are consisten the to determine how plan hen required has been eff applicable.	efore applications will be accepted and approved. Notwithstanding, will continue to review plans for storm water management. As http://www.woonsocketri.org/stormwater-management), any will now require the development and submittal of a Stormwater nt with the 2015 Rhode Island Stormwater Design and Installation review will account for state program review. Reviewing plans and fective. The Engineering Department is responsible for referring
IV.B.5.b.6	associated with in procedures to ide	dustrial activity as defined ntify new activities that re-	ken for the referral to RIDEM of new discharges of stormwater d in RIPDES Rule 31(b)(15) (the operator must implement quire permitting, notify RIDEM, and refer facilities with new ustrial activity to ensure that facilities will obtain the proper permits).
new applica executive si industrial dis	nts to obtain state per Immary of the SWMP	mits prior to approving ne P. It is appropriate and ef d in 2016 and the effectiv	SWMPP development prior to Year 1. The City Engineer requires aw industrial discharges. Details regarding this are included in the fective to refer new industrial discharges to the state. No new veness is yet to be determined. The Storm Water Committee,
IV.B.5.b.9	developed, adopte and identify perso Date of Adoption If the Ordinance w amendments have	ed, and submitted to RID n(s) / Department and/or i: March 21, 2005 vas amended in 2016, ple e been made based on th	m New Development and Redevelopment Ordinance was <u>not</u> EM, explain reasons why, submit proposed schedule for completion parties responsible for the completion of this requirement. ease indicate why changes were necessary. Please also indicate if e 2010 <i>RI Stormwater Design and Installation Standards Manual</i> , rtions of the local codes/ordinances.
The Woonsocket City Council formally adopted a "Post Construction – Storm Water Control Ordinance" (Ordinance Chapter 7193) on March 21, 2005. A signed letter from the City's Solicitor attesting to this ordinance's authority to carry out the applicable requirements of the RIPDES General Permit was provided to DEM in a letter dated December 1, 2010 and was provided with the Year 7 report. No amendments were made in 2016.			
IV.B.5.b.12	discharging to the	MS4 with a goal of ensur	and actions taken to identify existing stormwater structural BMPs ring long term O&M of the BMPs.
Existing BMPs have been identified, and new BMPs are added to the inventory as the City issues occupancy certificates. No new BMPs were constructed in 2016, but an additional existing BMP was located on Mendon Road. This BMP was added to the list in 2016 (see attached BMP List). This measure has been appropriate and effective. The Engineering Department is responsible for this measure.			
Additional	Measurable Goals a	ind Activities	

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT cont'd

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 13 (2016), Part IV.B.5.b.4: Review 100% of postconstruction BMPs for the control of stormwater 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 Applications Received: 20

of Post-Construction Reviews Completed: ____20___

of Permits/Authorizations Issued: <u>20</u>

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.

There were no issues observed resulting from post construction BMP reviews in 2016. The City is committed to review 100% of post-construction BMPs for the control of storm water runoff from new development and redevelopment projects. The City takes the opportunity during all plan reviews to recommend and encourage the applicant to utilize green infrastructure BMP's for their project such as: rain gardens, grassed swales, permeable paving. The Building Official completes post construction reviews before a Certificate of Occupancy is issued. The Engineering Department is responsible for implementation of this requirement.

SECTION II.B. - Post Construction Inspections during Year 13 (2016), 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 Active Construction Projects: 1	# of Construction Projects Completed: 1
# of Site Inspections for proper Installation of BMPs: 1	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions:	
No enforcement actions were required in 2016.	

SECTION II.C. - Post Construction Inspections during Year 13 (2016), Parts IV.G.2.p and IV.B.5.b.11 - Proper

Operation and Maintenance of Structural BMPs: 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 Violations Issued: 0 # of Unresolv	olved 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.

After the completion of a Post Construction inspection, a letter is sent by the City to the owner of record concerning suggested maintenance along with educational material. It is effective to conduct post-construction inspections for proper operation and maintenance of structural BMPs. The Engineering Department is responsible for this measure.

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

con			
Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of priv BMPs, check all that apply in your municipality/MS4:	/ately-owned s	tormwater	
☑ Ordinances or by-laws identify BMP inspection responsible party			
☑ Ordinances or by-laws identify BMP maintenance responsible party			
Ordinances or by-laws identify BMP inspections and maintenance requirements			
☑ Ordinances or by-laws provide for easements or covenants for inspections and maintenance			
☑ Ordinances or by-laws require for every constructed BMP an inspections and maintenance agree	ement		
Ordinances or by-laws contain requirements for documenting and detailing inspections			
\square Ordinances or by-laws contain requirements for documenting and detailing maintenance			
□ Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure			
□ The MS4 is responsible for inspections of all privately-owned BMPs			
□ The MS4 is responsible for maintenance of all privately-owned BMPs			
Establishment of escrow account for use in case of failure of BMP			
Other strategies to ensure long-term O&M of privately-owned BMPs, describe:			
Deep your municipality/MC4 require the use DMDs Operations and Maintenance Agreements?			
Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements?	🛛 YES	□ NO	
If YES, please indicate if the Operations and Maintenance Agreements include the following:			
a. Party responsible for the long-term O&M of permanent stormwater management BMPsb. A description of the permanent stormwater BMPs that will be operated and maintained	⊠ YES ⊠ YES	□ NO □ NO	
c. The location of the permanent stormwater BMPs that will be operated and maintained	\boxtimes YES		
d. A timeframe for routine and emergency inspections and maintenance of all permanent	⊠ TES ⊠ YES		
stormwater management BMPs		-	
e. A requirement that all inspections and maintenance activities are documented	⊠ YES		
f. Annual submission of inspection/maintenance certification/documentation to the MS4			
g. Stormwater management easement for access for inspections and maintenance or the	🛛 YES	□ NO	
preservation of stormwater runoff conveyance, infiltration, and detention areas and other stormwater controls and BMPs by persons other than the property owner			
h. Steps available for addressing a failure to maintain the stormwater controls and BMPs	🛛 YES	□ NO	
Please elaborate, if appropriate:			
The City requires compliance with Operation and Maintenance Plan requirements per RIDEN	1 and CRMC. II	<u>ne City</u>	
completes inspections of all surface BMPs.			
Does your municipality/MS4 keep an inventory of privately-owned BMPs?	🛛 YES	□ NO	
For privately-owned BMPs, does your municipality/MS4 have a system for tracking:			
a. Agreements and arrangements to ensure O&M of BMPs?	🛛 YES	□ NO	
b. Inspections?	🛛 YES	□ NO	
c. Maintenance and schedules?	⊠ YES		
d. Complaints?	⊠ YES ⊠ YES		
e. Non-Compliance? f. Enforcement actions?	⊠ YES	□ NO □ NO	
	nspections, and □ NO		
If yes, please elaborate on which tools are used:			
The City uses GIS and spreadsheets (see attached maps and BMP list)			
		-	
NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their have the potential to create a highly interactive environment for community members and volunteer			

t'd



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. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name:Mike Debroisse			
Phone: (4	01)767-9216 Email:MDebroisse@woonsocketri.org		
IV.B.6.b.1.i	Use the space below to 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.		
	Do you have an inventory of MS4-owned/operated BMPs? X YES INO		
	Total # of MS4-owned/operated BMPs (does not include CBs or MHs): 8		
discovered, BI provided as ar responsible fo	identifies existing structural BMPs and adds new structural BMPs when the City takes ownership. One, newly MP was added to the list in 2016. A list of structural BMPs within the City limits and their respective owners is a attachment to this Annual Report. This measure is appropriate and effective. The Engineering Department is r the completion and implementation of this goal.		
IV.B.6.b.1.ii	Use the space below to 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.		
	# of MS4-owned/operated BMPs inspected in 2016: 8		
	# of MS4-owned/operated BMPs maintained/cleaned in 2016: <u>Unknown, as necessary, per inspection</u> # of MS4-owned/operated BMPs repaired in 2016: <u>0</u>		
	Does your municipality/MS4 have a system for tracking:		
	a. Inspection schedules of MS4-owned BMPs? ☑ YES □ NO b. Maintenance/cleaning schedules of MS4-owned BMPs? ☑ YES □ NO c. Repairs, corrective actions needed? ☑ YES □ NO d. Complaints? ☑ YES □ NO		
	Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance?		
of the BMPs in After the inspe along with edu	to inspect and maintain BMPs annually or more frequently if determined to be necessary. The City inspected all to the attached list in 2016. Both BMPs owned by the City and privately owned BMPs are inspected by the City. action, the City then sends a letter to the BMP owner of record which identifies any necessary corrective actions incational material. The City plans to continue BMP inspections in the upcoming year. Inspection and of the City's BMPs is appropriate and effective. The Engineering Department is responsible for inspections and		

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.iii	Use the space below to 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.
	Total # of CBs within regulated area (including SRPW and TMDL areas): <u>2,865</u>
	# of CBs inspected in 2016:1920 % of Total inspected:67
	# of CBs cleaned in 2016:1920 % of Total cleaned:67
	Quantity of sand/debris collected by cleaning of catch basins: <u>1,285 tons (total from street sweeping and CB</u> <u>cleaning)</u>
	Location used for the disposal of debris:Rhode Island Resource Recovery
	Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? YES INO
The City has d	leveloped an annual catch basin cleaning program. A summary of the program was attached to the Year 3
annual report. cleaned. Certa regularly. A ma tons of materia	The program consists of cleaning the catch basins using a grid system to track the catch basins that have been ain portions of the City, specifically the low-lying areas of the developed portions of the City, are cleaned more ap showing the catch basins that were inspected and cleaned is attached to this annual report. A combined 1,285 al was collected through the street sweeping and catch basin cleaning activities in 2016 (see attached sweeping salt and sand purchase tonnages for 2016). The Engineering Department is responsible for the completion of this
IV.B.6.b.1.iv	Use the space below to 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
have sidewalk owner or muni municipal emp that are found	ble goal was completed in the SWMPP development process. In the City, most of the roadways are curbed and s. Any roadway with a shoulder or ditch in need of repair is immediately addressed. It is usually a property icipal employee that notifies the Engineering Department of a problem. Inspections during road work by ployees are an appropriate way of observing any erosion of road side shoulders and ditches. Erosive conditions are treated with loam and seed. No repairs to road shoulders and roadside ditches were made in 2016. Erosive be corrected when discovered, which is effective in preventing further erosion. The DPW is responsible for the this goal.
IV.B.6.b.1.v	Use the space below to 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.
	f scouring or excessive sedimentation was determined in 2016. The system mapping previously described itial inspection of outfalls to create a priority list for future years. The DPW is responsible for the completion of

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.vi	Use the space below to 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.	
	Total roadway miles within regulated area (including SRPW and TMDL areas): <u>108</u>	
	Roadway miles that were swept in 2016: <u>135</u> % of Total swept: <u>125%</u>	
	Type of sweeper used: 🛛 Rotary brush street sweeper 🗌 Vacuum street sweeper	
	Quantity of sand/debris collected by sweeping of streets and roads: <u>1,285 tons (total from street sweeping</u> and CB cleaning)	
	Location used for the disposal of debris: Rhode Island Resource Recovery	
	Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads?	
streets are cle time catch bas Streets requiri downtown are catch basin cle	nitted to the measurable goal of sweeping all municipal streets in the submitted SWMPP. Presently, 100% of City aned at least once a year based on the City's grid system. Street sweeping is typically conducted at the same sin cleaning and inspections occur. In 2016, street sweeping of every street occurred between April and July. Ing repeated sweeping were swept again, thereafter. All streets in the City were swept at least once, with the a swept more frequently. A combined 1,285 tons of material was collected through the street sweeping and eaning activities in 2016. All waste material is disposed of by the Rhode Island Resource Recovery Corporation. esponsible for the completion of this goal.	
IV.B.6.b.1.vii	Use the space below to describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.	
catch basins a and street swe Patrol setup by	need for retrofits as funds become available and targets priority areas. Catch basin inlet grates are cleaned when re inspected or when municipal employees report a need for cleaning. The annual catch basin cleaning program eeping program includes removal of floatables. Floatables are also collected by Woonsocket's Routine Litter y the Highway Department during daily litter pickup activities. Trash cans are provided at frequented pedestrian g Main Street and the RIPTA bus stops. The DPW is responsible for the completion of this goal.	
IV.B.6.b.1.viii	Use the space below to 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.	
	Do you have a system for tracking actions to remove and dispose of waste? 🛛 YES 🔅 NO	
	nues to dispose of waste in accordance with applicable state requirements. Additionally, the City runs a citywide ram. Information on citywide recycling is available on the City's website.	
IV.B.6.b.4 and IV.B.6.b.5	Use the space below to 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 Stormwater Management Plan (formerly known as a Stormwater Pollution Prevention Plan), and any actions taken to amend the Plan must be kept for record-keeping purposes.	
implement a si one municipall Garage. Regu effective meas DPW is respon	ermit requires that municipally owned facilities with storm water discharges associated with industrial activity, ite specific Stormwater Management Plan (formerly known as a storm water pollution prevention plan). There is y owned industrial facility with a site specific Stormwater Management Plan in Woonsocket, which is the Highway llar inspections of this facility are performed by members of the Highway Department. This is an appropriate and sure for ensuring that municipally owned industrial facilities are not polluting the City's storm water system. The nsible for this measurable goal. No significant corrective actions were recorded in 2016, although minor maintenance was performed.	

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.6	Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all inhouse training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.	
	How many stormwater management trainings have been provided to <i>municipal employees</i> during this reporting period? <u>1</u>	
	What was the date of the last training? <u>3 / 11 / 16</u>	
	How many <i>municipal employees</i> have been trained in this reporting period? <u>1</u>	
	What percent of <i>municipal employees</i> in relevant positions and departments received stormwater management training? <u>25</u> %	
The City plans to rely on the Storm Water Education and Outreach program for training needs in future years. The current program was evaluated as part of the SWMPP development process. Details regarding this are included in Section 9.0 of the SWMPP and the Response to Comments. The DPW is responsible for this goal. In 2016, Scott Stanford (CADD Engineering Specialist) attended the following training:		
Implementing a Stormwater Financing Program in the Narragansett Bay- Part 3 Workshop, March 11, 2016 (see attached Agenda)		
IV.B.6.b.7	Use the space below to 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.	
The City will evaluate and formalize the current procedures and develop new procedures as necessary to assess flow management projects for potential water quality impacts. Currently, flow management is addressed during the site plan review process as part of the drainage review for proposed projects. It is appropriate and effective to assess flow management projects during planning stages of municipal projects. The DPW is responsible for the completion of this goal.		
Additional Mea	asurable Goals and Activities	
The City is currently completing multi-million dollar upgrades at our Regional Wastewater Plant to further reduce pollutant concentrations from the effluent. The project is approximately 99% complete and will be finalized in 2017.		
The City is also in the process of designing and building a new Water treatment Plant. Construction is anticipated for late 2017 or 2018.		
The City is also exploring the feasibility of issuing a RFP for the maintenance of the storm water system including catch basin cleaning, camera investigations, and discovery of any cross connections. The city hopes to publish the RFP in 2017.		
The City is also completing the installation of a stormwater improvement/sedimentation basin on Winthrop St. and Leon St. The project is currently 80% complete and will be finalized in 2017.		
SECTION II.	A - Structural BMPs (Part IV.B.6.b.1.i)	

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
	See Attachment			

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:

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).

The City anticipates that its upcoming road paving/reconstruction projects will incorporate BMPs to the best extent practicable, including storm water infiltration practices.

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 stormwater 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 stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

The Blackstone River (identification numbers RI0001003R-01A), Cherry Brook (identification number RI0001003R-02), Mill River (identification number RI0001003R-03), and Peters River (identification number RI0001003R-04) are the waterbodies in the City with an approved TMDL. The TMDL encompassing all of the aforementioned waterbodies went into effect on April 22, 2013. The TMDL for the Woonsocket section of the Blackstone River is for pathogens, cadmium, and lead. The TMDL for Cherry Brook and Peters Pond is for pathogens and copper. The TMDL for Mill River is for pathogens only.



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 Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater 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.

As depicted on the map provided in Appendix J of the DEM Regulations for the Rhode Island Pollutant Discharge Elimination System, the entire limits of the City of Woonsocket are designated as an Urbanized Area.

There are no Special Resource Protection Waters (SRPWs) located within the City of Woonsocket to which the City's MS4s discharge (Appendix D, RIDEM Water Quality Regulations). The Woonsocket Reservoir #1 and #3 waterbodies are included in the SRPW list; however, these are indicated as being located in North Smithfield.

The City is working with CDM Smith to design and install a storm quality improvement/sedimentation basin as part of a road reclamation project on Winthrop/St. Leon St. The project is currently 80% complete and will be finalized in 2017.



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources



INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)

SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED

BY REGULATED SMALL MS4s ANNUAL REPORT FORM

WHO MUST SUBMIT AN ANNUAL REPORT:

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge stormwater under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Stormwater General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s (hereafter referred to as "the General Permit"), must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance by March 10th to track progress of compliance. If you have questions regarding this Annual Report Form contact Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM Office of Water Resources **RIPDES** Program Permitting Section 235 Promenade Street Providence, RI 02908 **ATTN: Jennifer Stout**

INSTRUCTIONS FOR COMPLETION:

GENERAL INFORMATION PAGE:

"RIPDES Permit #"

Include your permit ID # to ensure proper tracking.

"Operator of MS4"

Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (RIPDES Rules 3 & 12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to indicate the legal status of the operator of the MS4.

"Owner of MS4"

If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES

Rules 3 & 12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

"Certification"

State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Rule 12);

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor:

For a Municipality, State, Federal or other public site: by either a principal executive officer or ranking elected official.

SECTION I- OVERALL EVALUATION OF BMPS AND **MEASURABLE GOALS:**

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. This section provides narrative space for a descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures for the 2016 calendar year. Please type or print. If additional space is needed, modify as necessary, Please submit attachments to the appropriate minimum control measure following the format provided.

A Permit ID # has been provided, which refers to the part of the permit where you can find a listing or description of the required measurable goal.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal. Mark with an asterisk (*) if this person/entity is different from last year.

Describe whether each measurable goal was completed within the time proposed in the General Permit or your Stormwater Management Program Plan (SWMPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

SECTION II- ADDITIONAL ANNUAL REPORT REQUIREMENTS

Section II refers to additional reporting requirements that the General Permit requires to be submitted to the Department as part of the Annual Report. Section II requirements apply to Minimum Control Measures 2 through 6.

Minimum Control Measure #2: Section II:

Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments received in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Parts IV.G.2.h and IV.G.2.i) to the Annual Report.

Minimum Control Measure #3: Section II.A:

Provide the number of illicit discharges identified in 2016, number of illicit discharges tracked in 2016, number of illicit discharges eliminated in 2016, complaints received, complaints investigated, violations issued and resolved with a summary of enforcement actions, number of unresolved violations that have been referred to RIDEM, the total number of illicit discharges identified to date, and the total number of illicit discharges remaining unresolved at the end of 2016. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m), and the total number of outfalls identified to date.

Minimum Control Measure #3: Section II.B:

List identified MS4 interconnections, including location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.I).

Minimum Control Measures #4 & 5: Section II.A:

Identify the number of construction and post-construction plan and SWPPP/SESC Plan reviews completed during Year 13 (2016) and any additional information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

Minimum Control Measure #4: Section II.B:

Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.B:

Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section II.C:

Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in

enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #6: Section II.A:

As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section II.B:

Part IV.B.6.b.1.v of the General Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section II.C:

As noted in Part IV.G.2.j of the General Permit, specify any planned municipal construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: 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, including, but not limited to, dry weather survey data (Part IV.G.2.e).

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

Section I:

Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural stormwater controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of stormwater (Part IV.G.2.d).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable, assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness, you may want to consider violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs.

Also include a discussion of any proposed changes to BMPs or measurable goals.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

Section I:

Complete this section only if your MS4, located outside Urbanized Areas or Densely Populated Areas, discharges to:

a SRPW as listed in Appendix D of the *RIDEM Water Quality Regulations* at this link:

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

an impaired water body including water bodies with no approved TMDL as listed 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/p df/iwqmon08.pdf.

In accordance with Rule 31(a)(5)(i)G in the *Regulations* for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regulations), MS4s were required to incorporate any discharges to these water bodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with Rule 31(g)(5)(iii).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to incorporate these areas into the MS4's Phase II Stormwater Program.



Trainings



Implementing a Stormwater Financing Program in the Narragansett Bay – Part 3

Workshop Agenda

Through funding from US EPA, we are pleased to offer the third in a series of three workshops being sponsored by the New England Environmental Finance Center in collaboration with the Environmental Finance Center at the University of Maryland, Save the Bay, and ESS Group, Inc. The purpose of this final workshop is to learn from your peers on how to be successful in reducing stormwater costs over time, leveraging innovative financing approaches such as regionalization efforts and public-private partnerships and partnering for success to build political will and gain community acceptance for long-term stormwater financing.

Date & Time

Friday, March 11, 2016 9:00 AM - 12:00 PM

Casino at Roger Williams Park 1000 Elmwood Ave. Providence, RI 02907

8:30-9:00 AM	Registration and Coffee
9:00-9:10 AM	Welcome and Introductions
	Jack Kartez, New England Environmental Finance Center
9:10 – 9:25 AM	UPDATE: Stormwater Funding in Rhode Island
	Topher Hamblett, Save The Bay Narragansett
	Update on proposed stormwater bond included in the Governor's budget. Additional updates as needed.
9:25 – 10:00 AM	A Proactive Approach: Identifying True Costs
	Environmental Finance Center at the University of Maryland
	Overview of how to begin to realize your true costs associated with capital planning, operations and maintenance/asset management, capacity and personnel needs

10:00 – 11:15 AM Community in Action Part 1: Learn the Tools to Create a Cost-Effective Stormwater Management Program

Charlotte Katzenmoyer, Director of Public Works, City of Lancaster

What does it really mean to be cost effective? Roll up your sleeves and hear from the Director of Public Works in Lancaster, PA on how they implemented and reduced costs within their highly successful stormwater management program. Walk away with the tools and techniques to help jump-start your program.

11:15 – 11:50 AM Community in Action Part 2: Rate Studies, Capital Improvement Plans, Education and Outreach – Oh My!

Fred Presley, Town Manager, West Warwick

Jim Riordan, ESS Group, Inc.

Hear from your peers in West Warwick on their efforts to build a comprehensive stormwater management program.

12:00 PM Conclusion of the of 3-Part Stormwater Financing Workshop









Public Involvement/ Participation

Detention Basin Maintenance

Homeowners' Associations and Business

Why be concerned?

Homeowners' Associations and business owners are entirely responsible for maintaining their detention basins. Detention basins require maintenance to ensure that they function properly. Poorly maintained basins, regardless of their design, lose their ability both to control flooding on private property and prevent pollution like sediments, fertilizers and pesticides from entering the creeks and streams near homes and businesses.

Detention basins are typically located where new residential. commercial, and industrial centers are developed. New development replaces open land and forest with impervious surfaces such as parking lots, roads, and roof tops. As stormwater runs off these impervious surfaces it enters streams and rivers at a much faster rate, causing streambank erosion and possible flooding downstream. Detention basins help control potential flooding and improve water quality.



Are There Different Types of Detention Basins?

Yes, in general there are three types of detention basins:

- Dry Detention Basins
- Wet Detention Basins
- Stormwater Marsh Basins



Dry detention basins are typically dry depressions except after a major rain storm when they temporarily fill with stormwater. These basins slow the rate at which stormwater from a new development enters stream and rivers and thus help prevent flooding; however,

dry detention basins are not very effective at removing pollutants because the stormwater from smaller storms passes through more quickly. Smaller storms (with less rain) contain higher amounts of pollutants than larger storms. The side slopes of these basins are generally vegetated with short, turf grass.



Like dry detention basins, wet detention basins also help control flooding, but they are more effective at removing pollutants from stormwater. Wet detention basins typically have a permanent pool of water and more wetland plant life. The permanent pool

of water allows pollutants such as sediments to settle to the bottom of the basin. In addition, the wetland vegetation helps filter out pollutants and uses others up as fertilizers as the stormwater passes through the basin.

Stormwater marsh basins are similar to wet detention basins, but contain more wetland plants such as cattails, bulrush, and sedges. The wetland vegetation absorbs fertilizers that run off neighboring lawns and filters out other pollutants, which otherwise might enter nearby creeks and streams. They also provide fish and wildlife habitat.

The ideal detention basin provides the greatest number of benefits including flood control and water quality improvements. This typically consists of wet detention basin combined with a stormwater marsh basin.

What Type of Maintenance is required?

Detention basins require inspection and maintenance to ensure that they are functioning properly to protect private property and improve water quality. At a minimum, the Homeowners' Association or business owner should conduct an annual inspection and an inspection after major storms.

Obtain a Copy of Your Detention Basin Plan

Obtain a copy of the detention basin plan from the Engineering Division to determine what type of detention basin is in your development.

Inspect Inlet and Outlet Pipes

Inlet Pipes direct stormwater from developments into detention basins, including stormwater from residential yards, driveways and roads. Typically there are two to three inlet pipes in a detention basin.

Oulet Pipes direct stromwater from a detention basin to a nearby creek or stream. Typically there is only one outlet associated with a basin. The outlet may consist of a single pipe, a riser pipe or structure.

Check the following:

Structural integrity – Inspect the pipe to make sure it isn't crumbling or broken.

Rip Rap – Rip Rap (typically pieces of stone) is placed around the pipe where it enters the basin to prevent erosion. Check for erosion around the pipe or missing rip rap.

Obstructions – Inspect the pipe end to determine if sediment, dirt, or debris is obstructing the flow of water from the pipe into the basin. Minor amounts of sediment around pipe openings can be removed with a shovel and wheelbarrow, spread evenly on upland areas and seeded with turf grass.



Inlet pipe

If any problems are occurring or if you have questions, contact the Engineering Division for assistance.

(401) 767-9216

Inspect for Litter and Debris

Twice each year (spring and fall) and after a major storm, check for debris near the inlets and in the basin. Remove and dispose of debris or litter with household trash.



Outlet Pipe choked with debris and trash

Examine the Side Slopes for Erosion

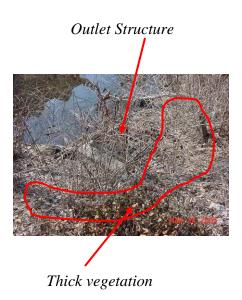
Twice a year (spring and fall) and after a major storm, check for gullies or sloughing of the banks and other disturbances for animals or vehicles. Any damage observed should be repaired immediately by filling any eroded areas with topsoil and seeding with turf grass. It is also important to place mulch or straw over the seed to prevent it from being washed into the basin.

Inspect Vegetation

In the spring and fall, inspect the vegetation on the banks and in the basin. Maintenance activities will vary depending on the type of basin.

Repair bare spots, from vegetation control, along bank with turf grass seed, meadow grass or wildflowers.

Meadow grasses and wildflowers grown along banks of the detention basin will reduce long-term landscape maintenance.



Mowing

The amount of mowing required depends on the type of detention basin and the desired appearance. Typically, basins with turf grass only need to be mowed once or twice a year. Basins with native grass or wildflowers should be mowed only once a year in late fall or early spring.



Adding Vegetation to the Banks

You can add more color and visual interest, as well as improve bird habitat by planting a variety of shrubs and wildflowers along the banks of detention basins. Shrubs such as redosier dogwood, silky dogwood, meadowsweet, common elder, buttonbush and highbrush-cranberry typically grow well where the ground is damp. Wildflowers like swamp milkweed, joe-pye-weed, cardinal flower, beggertick, marsh blazing star, aster and goldenrod are good choices for damp areas.



Record Keeping

Keep records of all inspections including date, name of inspector, what was observed, and maintenance activities performed.

Keep records of all cost for inspections, such as consulting with professional engineers, and repair cost. Good records will help you make adjustments to the maintenance program as needed

Thundermist Task Force

Annual Report September 29, 2016

At a formal meeting of the Woonsocket Task Force held @ City Hall on August 16, 2016, the Committee reviewed the status of last year's projects.

Save the Bay's has completed its \$5,000 grant for the Narragansett Bay Field Studies Program at Woonsocket High School and submitted their final report.

RiverzEdge Arts has completed all their work for its \$5,000 Rain Garden Grant with the exception of the Instructional Video and the Final Report. Ten percent (\$500) is being held for completion of Final Report.

Storm Tree received 50% of its \$6,500 grant to design and install a StormTree system. They are still awaiting the location of an appropriate site. The City had a site, but their preferred site fell off this year's construction schedule. The City is hopeful that a suitable site will be agreed on this October. The Task Force agreed to extend the due date for this project, since the schedule was not under the control of the Applicant.

The Task Force discussed this year's Applications for funding. The Thundermist Task Force had issued a press release in May announcing this year's Request for Proposals for projects not to exceed \$15,000. The deadline for submissions was July 1, 2016. There were no formal submittals received, but a phone conversation with Rivers Edge Arts who had a grant still outstanding from the previous year led them to believe they were not eligible for further funding. Staff assured them if they could finish off their current grant satisfactorily, that would not prevent them for applying for further funding. They responded with a wish list of several items and finally resolved on submitting one grant for \$4,000 to design, construct and monitor the performance of a demonstration "above-ground, gravel-filled planter" that will provide meaningful stormwater storage & treatment. It will be designed to treat 400 square feet of impervious surface for a 1" rain event.

The Task Force voted unanimously to approve the application for a \$4,000 grant "Scalable Stormwater Storage on Impervious Surfaces" but wanted to meet with RiverzEdge, the applicant, to clarify the extent of monitoring proposed. The Task Force met with RiverzEdge on August 25, 2016 to discuss the project. The Task Force agreed to recommend to RIDEM that the \$4,000 be funded this year and that the Task Force would meet with RIDEM to see if funding could be extended over more than one year, or could modifications be made to projects without waiting for the formal RFP. The Task Force would also seek guidance from RIDEM as to allowable projects.

The Task Force met with Elizabeth Scott & David Chopy of RIDEM on September 27, 2016 to discuss guidelines for future projects. RIDEM forwarded on State Policy regarding Supplemental Environmental Projects. The Task Force will be meeting this Fall to review the application process.

August 3, 2016 Peter,

I hope this is both "enough" and "not too much". This is the lab experiment and the pilot project that would likely be at St. James Baptist.

I'll send some images and a mechanical drawing of the system under separate cover right now.

Scalable Stormwater Storage on Impervious Surfaces

Riverzedge Arts' Green Design Lab (GDL) believes its above-ground, gravel-filled planter provides meaningful stormwater storage and seeks to prove-out this concept both in the laboratory and in the field. This project includes two parts that run consecutively—a series of laboratory experiments run from October 2016 through February 2017 and a pilot project in the field run from March through May.

For the laboratory portion of this project, GDL would convert the portable display model of this system, usually shown at conferences, into a fully functioning system used indoors under laboratory conditions. Our hypothesis is that we can put water into the system during simulated rain events, and not very much will come out. The goal is to measure, and thus be able to prove, the system's ability to store stormwater.

GDL will run a series of experiments that recreate the size, duration and frequency of actual rain events. Water introduced through shower heads will fall onto the planter's surface and infiltrate the soil and gravel. Eventually, water will start to seep out the bottom onto a large tray that drains into a reservoir. With measured amounts of inputs and outputs, we will know with certainty—and be able to prove to any funding authority—how much water stays in the system and for how long.

Knowing the percent volume of water storage in this miniature version, we can calculate a ratio between the size of the planter system and the amount of impervious surface it could manage at what scale of rain event. A ratio of 1:1 represents the maximum rain event at which the system could manage the rain falling directly on it without significant discharge. At a ratio of 1:2, the system would be managing rain for itself and for an equal area of impervious surface. The higher the ratio, the greater the benefit.

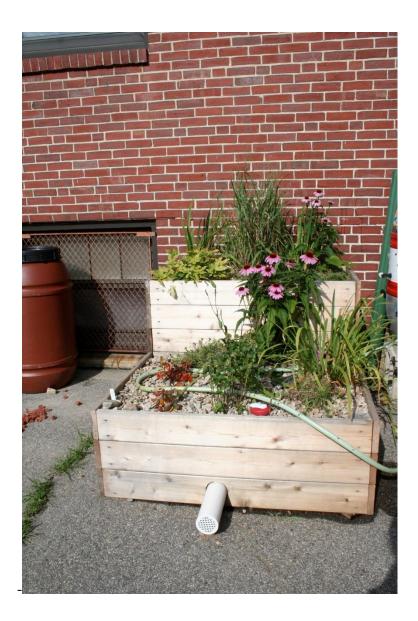
Using the information gained in the laboratory, GDL will design and install a planter of sufficient scale to manage the runoff from a single downspout during a target rain event. GDL enjoys excellent relationships with several community institutions and can easily find a property owner willing to host the installation.

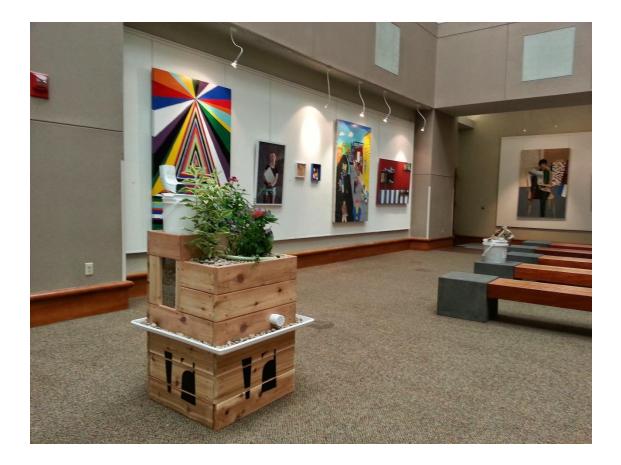
Results from the laboratory experiments will determine the exact size of this installation, but our target is to manage 400 sq ft of impervious during a thunderburst event that delivers 1 inch of rain in just a few minutes. As conditions and scheduling allow, GDL will monitor this installation during or following actual rain event to assess visually how well the system is managing runoff.

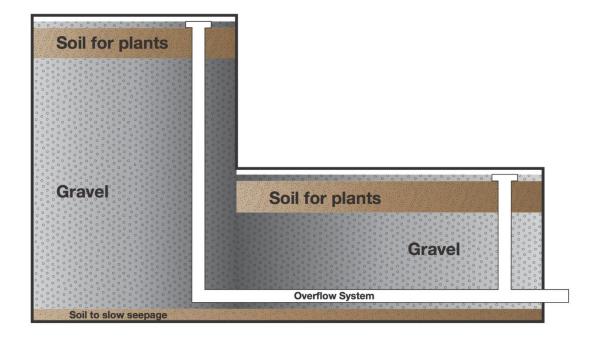
GDL will compile a final report including all data generated from the laboratory experiments as well as documentation and anecdotal evidence from the pilot project. The ultimate goal of this project is to create a substantial set of quantitative data that prove this system's benefits. We would then use this material to market the system for widespread implementation in Woonsocket and beyond. COST: \$4,000 (\$500/mon)

=====-

John Speck Director, Green Design Lab Riverzedge Arts 401-369-2864 3 image files attached: - Above-Ground-RG - Above-Ground-RG-Schematic







display-



Dear Michael,

We contacted you earlier this week about the public comment period for the 2016 update to RI's Soil Erosion and Sediment Control (SESC) Handbook. We've received some great responses that are sure to help other RI communities. If you haven't responded yet, we're still looking for your participation in two ways!

Step 1

Please take 5 minutes now, or before April 11th, to complete a four-question survey about your city or town's SESC ordinance.

* This will help us revise the Model SESC Ordinance included in the Handbook's Appendix B. We will share results with all who respond, and we will create a "Best of RI" list from the information you provide.

* Please forward this e-mail to other municipal staff involved with soil erosion and sediment control.

* In your next MS4 annual report, take credit for public participation and involvement for every survey submitted with us.

Take this short survey now.

Step 2

We also encourage you to provide your comments and recommendations about the Handbook for the 2016 update.

* In your next MS4 annual report, take credit for public participation and involvement for providing your input on the Handbook.

Deadline: April 11th (Comments submitted after this date have less chance of being addressed.) Use the Review Form found in Appendix C of the Handbook <u>www.dem.ri.gov/soilerosion2014final.pdf</u> and submit it to:

Beverly Migliore, Supervising Environmental Scientist Office of Customer and Technical Assistance RI Department of Environmental Management 235 Promenade Street Providence, RI 002908

or via e-mail at: SESC.Handbook@dem.ri.gov

RI NEMO, University of Rhode Island Cooperative Extension, Coastal Institute Kingston, 1 Greenhouse Rd., Kingston, RI 02881



Phase II Year 13 Public Notice



CITY OF WOONSOCKET 169 MAIN STREET WOONSOCKET, RI 02895

A Draft Phase II Stormwater Annual Report, prepared in accordance with the Rhode Island Pollution Discharge Elimination System (RIPDES) program general permit for facilities operated by regulated small MS4s, will be available for review at the City of Woonsocket Engineering Division Office starting March 27, 2017.

RIPDES PERMIT NUMBER: RIR040016

For any questions contact:

Michael Debroisse, Superintendent of Solid Waste/Engineering City of Woonsocket Engineering Division 169 Main St. Woonsocket, RI 02895 (401) 767-9213

The administrative record containing all documents is on file and may be inspected by appointment at the City's office mentioned above between 8:30 a.m. and 4:00 p.m. Monday through Friday except holidays. Interested parties may submit comments on the draft Annual Report and amendments to the SWMPP and the administrative record to the address above by the close of the public comment period which ends March 27, 2017. Commenter's may request a longer comment period if necessary to provide a reasonable opportunity to comply with these requirements. If, during the comment period, significant comments are received concerning the draft Annual Report or amendments to the SWMPP, the City of Woonsocket will provide a written response to comments to all persons that submitted comments and all members of the public that request a copy of the response. The response will include a final Annual Report and identify what changes to the SWMPP have been made, if any.

Woonsocket City Hall 169 Maine Street Woonsocket, RI 02895 ĸen.

AND

Phone: (781) 790-7800 Harrisville Main Street,

Harrisville, Rhode Is-

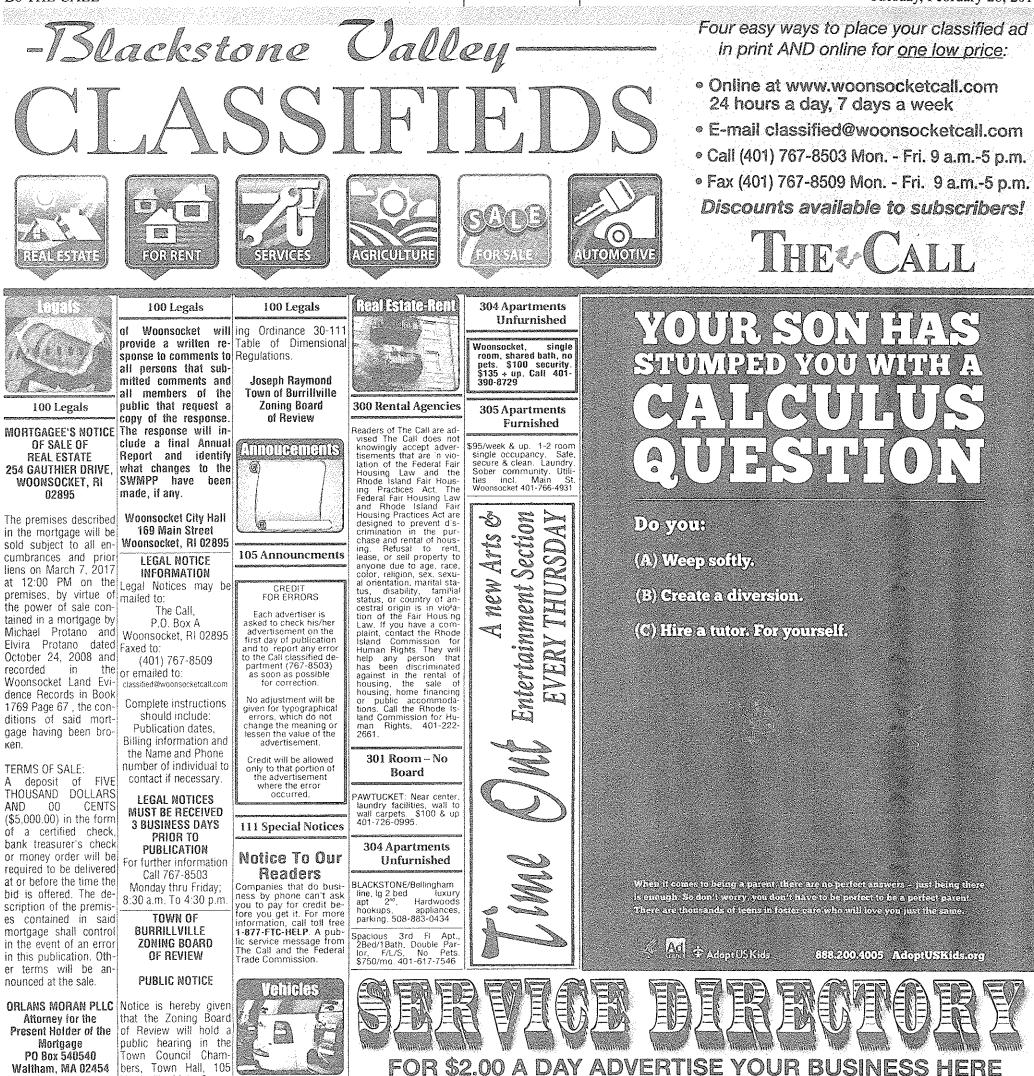
121 Auto Parts -

Accessories

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Tuesday, February 28, 2017

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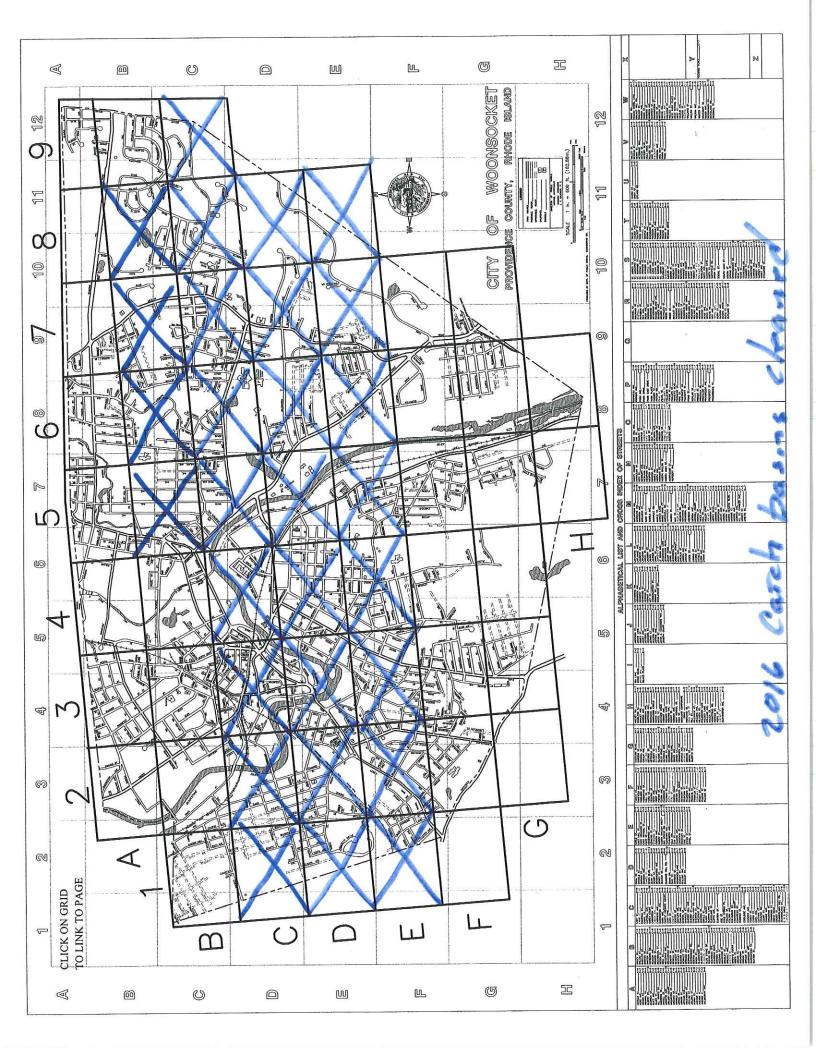
CALL FOR DETAILS 401-767-8503





Catch Basin Inspection/Cleaning Map





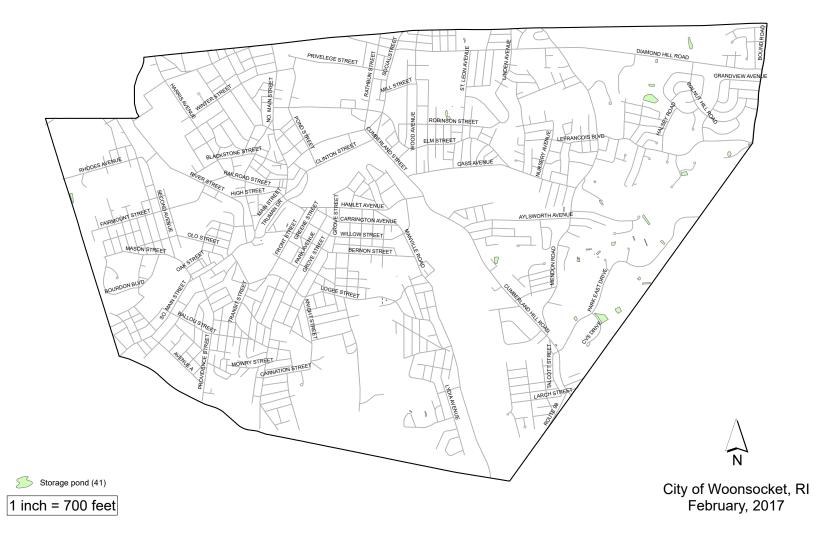


BMP List and Maps



LOCATION	<u>OWNER</u>	MAP	LOT	
PARK EAST DR / CVS DRIVE	CITY OF WOONSOCKET	F7	56-15	Detention Pond
WALMART (woonsocket) (2 one in front one in back) 1919 Diamond Hill Rd	WALMART STORES PO BOX 967 MANDAN ND 58554	B7	52-6	Grassed Detention Basins
LOWES (Woonsocket) 2010 Diamond Hill Rd	FDP LLC. PO BOX 5651 BISMARCK ND 58506	B7	52-20	Grassed Detention Basin
BROOKHAVEN POND (2)	STERLING SERVICES 589 CONCORD ST HOLLISTON, MA 01746	C8	58-31	Grassed Detention Basin
TARA LANE/ LEDGEWOOD DR.	CITY OF WOONSOCKET	C7	58-37	Grassed Detention Basin
EAST WOONSOCKET	CITY OF WOONSOCKET	B7	57-88	Detention Pond
HOLLEY SPRINGS (POND) (Naturally occurring)	H S Realty Corporation 53 STATE ST. 38TH FL BOSTON MA 02109	D7	55-1	Detention Pond
HOLLEY SPRINGS (BASIN)	PAM DISALVO 304 HOLLEY LANE WOONSOCKET, RI 02895	D7	55-203	Grassed Detention Basin
OREGON AVE	CITY OF WOONSOCKET	D7	59-2	Grassed Detention Basin
DIAMOND HILL RD (Darling Pond)	CITY OF WOONSOCKET	B7	53-5	Detention Pond
ROBINSON STREET POTHIER SCHOOL	CITY OF WOONSOCKET	C5	36-136	Grassed Detention Basin
PARK DRIVE & HARTFORD AVE	OAKLAND GROVE ASSOCATES 560 CUMBERLAND HILL RD WOONSOCKET, RI 02895	E6	41-29	Grassed Detention Basin
1026 PARK EAST DRIVE	CVS Pharmacy Inc One CVS Dr. WOONSOCKET, RI 02895	D7	59-13	Grassed Detention Basin
300 PARK EAST DRIVE	TECHNIC, INC 300 PARK EAST DRIVE WOONSOCKET, RI 02895	E6	50-51	Grassed Detention Basin
500 PARK EAST DRIVE	CARPENTER POWDER PRODUCTS 500 PARK EAST DRIVE WOONSOCKET RI 02895-6148	E7	50-211	Grassed Detention Basin
1 CVS DRIVE	CVS 1 CVS DRIVE WOONSOCKET, RI 02895	F7	51-2	Grassed Detention Basin

811 PARK EAST DRIVE	811 PARK EAST DRIVE LLC 811 PARK EAST DRIVE WOONSOCKET, RI 02895	E7	56-6	Grassed Detention Basin
475 PARK EAST DRIVE	CVS 1 CVS DRIVE WOONSOCKET, RI 02895	E7	56-23	Grassed Detention Basin
117 CENTURY	JM & KM REALTY LLC 1775 SNAKE HILL ROAD CHEPACHET, RI 02814	E7	59-21	Grassed Detention Basin
GAUTHIER DRIVE (2)	CITY OF WOONSOCKET	G5	33-54	Grassed Detention Basin
222 GOLDSTEIN DRIVE	IMPREGLON INC 220 FAIRBURN INDUSTRIAL PARKWAY FAIRBURN, GA 30213 (also services 100 Goldstein Dr stormwater)	E7	50-233	Grassed Detention Basin
88 CENTURY DRIVE	CITY OF WOONSOCKET (by easement) ACW REALTY LLC (property owner) 88 CENTURY DRIVE WOONSOCKET, RI 02895	E7	55-20	Grassed Detention Basin
88 CENTURY DRIVE	ACW INC. 88 CENTURY DRIVE WOOSOCKET RI 02895	E7	56-20	Grassed Detention Basin
841 PARK EAST DRIVE	T.E.A.M. 841 PARK EAST DRIVE WOONSOCKET, RI 02895	E7	56-101	Grassed Detention Basin
77 FULTON STREET	SOUTHWOOD REALTY LLC 325 AYER ROAD HARVARD, MA 01451	A5	35-36	Grassed Detention Basin
100 GOLDSTEIN DRIVE	KEY/PARKINSON REALTY 100 GOLDSTEIN DRIVE WOONSOCKET RI 02895-6169	E6 & E7	50-5	2 Grassed Detention Basins
1044 MENDON ROAD	WYNDEMERE WOODS LLC 1044 MENDON ROAD WOONSOCKET RI 02895	D7	55-167	Grassed Detention Basin
115 FRONT STREET Behind 175 Front St	MCU COMMERCIAL SERVICES LLC 50 MAIN STREET MILLBURY, MA 01527	D3	15-16	Detention Basin
400 MENDON ROAD NORTH SMITHFIELD	LHOSPICE ST ANTONINE 400 MENDON ROAD NORTH SMITHFIELD, RI 02896-6999	D1	2-16	Grassed Detention Basin





1 inch = 700 feet

City of Woonsocket, RI February, 2017



Street Sweeping Data



2016 Street Sweeping Monthly Tonage

Month		Quantity
January		17.08 TONS
February		78.49 TONS
March		48.21 TONS
April		253.89 TONS
May		311.23 TONS
June		187.89 TONS
July		115.38 TONS
August		63.57 TONS
September		42.45 TONS
October		37.51 TONS
November		72.23 TONS
December		57.46 TONS
	TOTAL	1,285.39 TONS

F/Y 2016/2017 KIMBALL SAND COMPANY EXPENSES			
Date	tonage	to	al
1/23/2016	399.31	\$	4,791.73
11/19/2016	216.74	\$	2,926.01
12/24/2016	370.7	\$	5,004.49
Total	986.75	\$	12,722.23

F/Y 2016/2017 MORTON SALT, INC. EXPENSES				
DATE	Weight	Total		
1/5/2016	202,160 lbs	\$ 6,113.32		
1/6/2016	419,440 lbs	\$ 12,683.86		
1/14/2016	62,080 lbs	\$ 1,877.30		
1/19/2016	344,040 lbs	\$ 10,403.77		
1/19/2016	829,280 lbs	\$ 25,077.42		
1/20/2016	263,320 lbs	\$ 7,962.80		
1/21/2016	724,920 lbs	\$ 21,921.58		
11/8/2016	403,600 lbs	\$ 11,351.25		
11/10/2016	95,880 lbs	\$ 2,696.62		
11/14/2016	143,000 lbs	\$ 4,021.88		
11/15/2016	424,820 lbs	\$ 11,948.06		
12/6/2016	403,270 lbs	\$ 11,341.97		
12/7/2016	141,430 lbs	\$ 3,977.71		
12/8/2016	69,740 lbs	\$ 1,961.44		
12/27/2016	463,850 lbs	\$ 13,045.78		
12/28/2016	133,760 lbs	\$ 3,762.00		
Total	5,124,590 lbs = 2562.295 tons	\$ 150,146.76		



Public Notice



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AND

Phone: (781) 790-7800 Harrisville Main Street,

Harrisville, Rhode Is-

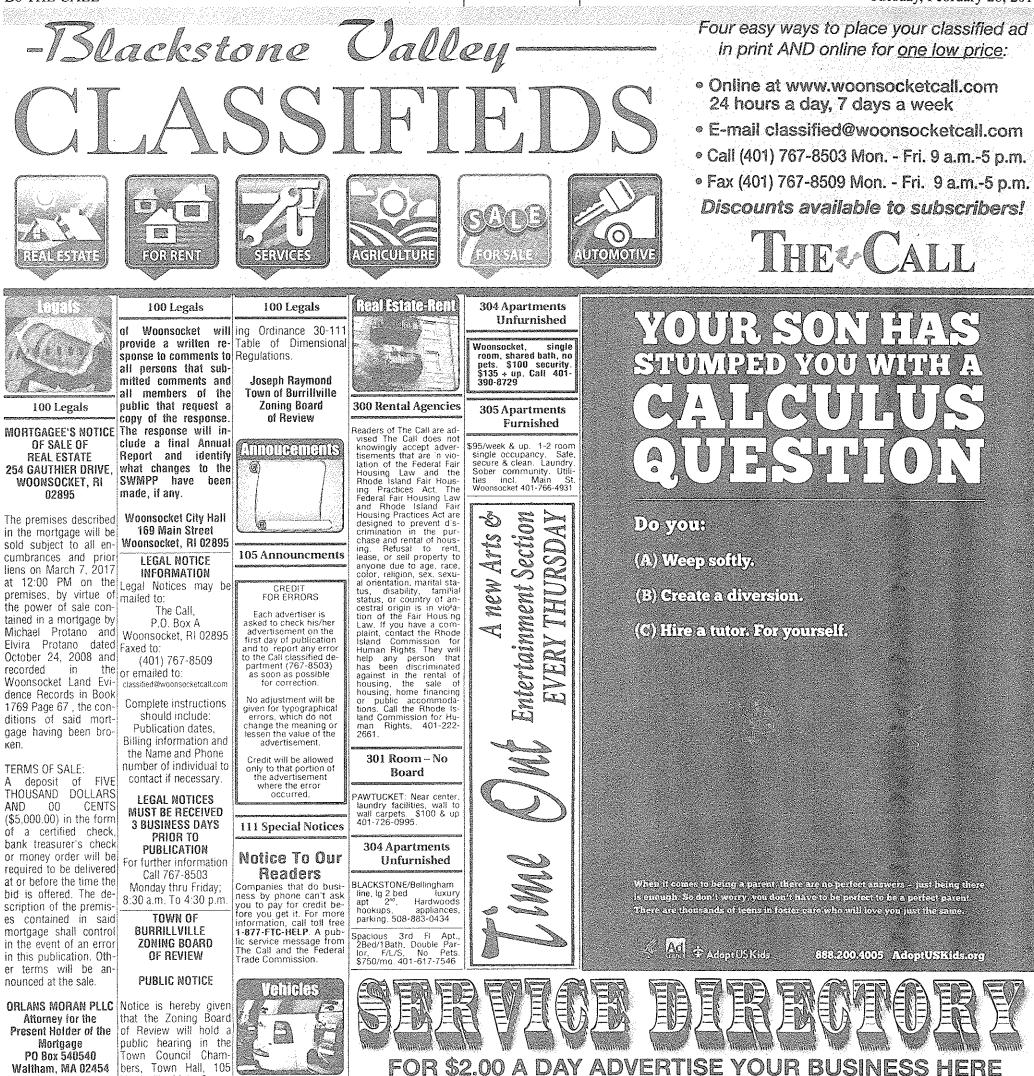
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Tuesday, February 28, 2017

ALT



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