

**Municipality/Organization:** Town of Dighton, MA

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**EPA NPDES Permit Number:** MAR 041105

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**Mass DEP Transmittal Number:** W-040738

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**Annual Report Number** Year 9  
**& Reporting Period:** April 1, 2011 – March 31, 2012

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## **NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2012)**

### **Part I. General Information**

Contact Person: Thomas J. Pires Title: Board of Selectman  
Board of Health, Chairman

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Telephone #: (508) 669-6431 Email: debpi54@comcast.net

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Mailing Address: 979 Somerset Avenue, Dighton, MA 02715

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#### Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: \_\_\_\_\_

Printed Name: Thomas J. Pires

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Title: Chairman, Board of Health

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Date: \_\_\_\_\_

**Part II. Self-Assessment**

The Town of Dighton has completed the required self-assessment and has determined that our Municipality is in compliance with all permit conditions.

**Part III. Summary of Minimum Control Measures**

**1. Public Education and Outreach**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 9</b> (Reliance on non-municipal partners indicated, if any)	<b>Completed Activities – Permit Year 9</b>
1-1	Continue working with schools to get info out to public	Thomas J. Pires	Look into possible expansion of program	Storm water is still part of the curriculum in local schools. Bristol County Agricultural High School continued field work for outfall monitoring as part of their program.	Students from Bristol County Agricultural High School in their field work identified and mapped coordinates of 27 outfalls the Taunton and Three mile River.
1-2	Provide storm water info in public area at town hall	Thomas J. Pires	Continue to have information on Stormwater available in Town Hall for the public	Ongoing	Ongoing
Revised					
Revised					

Revised					
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**1a. Additions**

1-3	Work on methods of getting info out to the public re stormwater	Thomas J. Pires	Continue to explore new sources to educate public on importance of Storm water monitoring and control	Information remains available in public buildings within the town. Storm water addressed on local cable television during Selectmen’s Meeting.	Continue to pursue new way of getting information out to public

**2. Public Involvement and Participation**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 9</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities-Permit Year 9</b>
2-1	Research infiltration basins for stormwater disposal and management	Thomas J. Pires	Conduct site visits to view/inspect above and/or below ground detention, retention or infiltration basins to determine best methods of control in subdivisions.	Determined that below ground systems are not feasible in all locations. Removed the restriction on above ground systems after a public hearing. Responsibility for determining the type of system to be used was transferred from the Board of Health to the Planning Board.	Board of Health and Planning Board will continue to monitor systems. Will modify as situation or regulation change.
Revised					

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Revised					

**2a. Additions**


**3. Illicit Discharge Detection and Elimination**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 9</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities-Permit Year 9</b>
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3-1	Review existing outfall maps and update as needed	Highway Supt.	Check outfalls and inspect to see if there are any others that may have been overlooked during past inspections	We continue to monitor Basins annually. Bristol County Agriculture High School identified one pipe in the process of investigating.	Upgrade drainage on Elm and Hart Street. Bristol County Agriculture school students started testing for Phosphates and nitrates. See addendum for more info
Revised					
3-2	Detect and eliminate discharges	Highway Superintendent	Check for any new discharge sites	No new discharge sites located by Storm Drain System Cleaning Contractor or by Highway Dept. Employees	Continue to monitor
Revised					
3-3	Conduct Illicit Discharge Education Program	Highway Superintendent	Review illicit discharge training with new employees	Covered this as part of on-the-job training for new hires	Task completed
Revised					
3-4	Check on By-Law implementation	Thomas J. Pires	Monitor size of disturbed area that requires Permit.	Size of area disturbed that requires a permit remains at 35,000 sq. ft.	Continue to monitor and adjust if necessary
Revised					
3-5	Check on Implementation of Stormwater Regulations	Thomas J. Pires	Investigated and resolved two complaints of storm water violations. Found not to be violations	. Continue to investigate all complaints of potential violations and enforce by-law if necessary	Frequency of violations has been reduced due to the awareness of Storm water.
Revised					
Revised					

### 3a. Additions

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#### 4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 9
4-1	Revise Site Plan Review section of Zoning By-Law		Explore Potential LID Bylaws		Task completed
		Planning Board	Reviewed site plan for possible revisions	No revisions required	
4-2	Review procedures for receipt and consideration of information submitted by the public	Board of Health Planning Board Conservation Commission	Propose changes in By-Law and Regulations resulting from ongoing monitoring or input from residents	Change in land disturbance are approved by Boards and Voters	Task completed
4-3	Revise Site Inspection and Enforcement Control Measures Program	Board of Health Planning Board Conservation Commission	Investigation and site visit for all potential violations.	Investigated and resolved two complaints.	We continue to monitor all construct and land disturbance areas covered by the By-Law
Revised					

#### 4a. Additions

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**5. Post-Construction Stormwater Management in New Development and Redevelopment**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 9</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities-Permit Year 9</b>
5-1	Review to see if need to modify Zoning By-Law	Planning Board	Check to see if Stormwater By-Law conflicted with any Zoning By-Laws or if Stormwater By-Law caused any permitting difficulties.	No Conflicts found that resulted in permitting difficulties during this reporting period.	Ongoing
Revised					
5-2	Revise Subdivision Rules and Regulations	Planning Board	Determine if any Subdivision Rules & Regulations needed further revision.	Review completed for reporting period and no revision needed No problems encountered or conflicts with existing Subdivision Rules and Regulations and new Stormwater-By-Law & Regulations	Ongoing
Revised					
5-3.1	Ensure Adequate Long-Term O&M of BMP's	Highway Superintendent and Thomas J. Pires	Annual review process used to determine if O&M of BMP's are practical in application or if there needs to be changes to accommodate changes in conditions or processes during reporting period.	Completed review. May need to make revisions to BMP's during next year. No major problems detected.	Will continue to monitor this area for possible revision in next reporting period. BMP, Meet with various Boards
Revised					

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5-3.2	Ensure Adequate Long-Term O&M of BMP's	Planning Board	Any proposed change or revisions in 5-3.1 above will be discussed with the Planning Board and any other appropriate Board or Commission.	No action required during reporting period.	Task completed BMP meet with various Boards
Revised					
Revised					
Revised					

**5a. Additions**


## 6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 9
6-1 Revised	Educated Municipal Employees	Highway Superintendent	Update Employee Training	Town has updated training program on stormwater management, including methods for spotting problems, illicit discharges or suspicious storm drain discharges.	Town will continue to update training as required and as new stormwater management information becomes available.
6-2 Revised	Develop & Implement plan to prevent and reduce pollutant runoff from municipal operations	Highway Superintendent	More work on Municipal Operations Stormwater Plan (MOSP) needed	Town worked toward development of MOSP. The Town continues to review and expand MOSP.	Town will continue to expand MOSP. Increase frequency of sweeping
6-3 Revised	Catch Basin Cleaning	Highway Superintendent	Clean and inspect all catch basins annually.	Through the use of a subcontractor, all catch basins were cleaned during Year 9. Town purchased a catch basin cleaning truck and will continue to conduct catch basin cleaning annually.	Annual catch basin cleaning will continue.
Revised					
Revised					
Revised					

### 6a. Additions

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6-4	Street Sweeping	Highway Department	Perform sweeping on all Town Roads bi- annually.	Street Sweeping was conducted on all streets during Year 9.	Street sweeping of all town roadways will continue frequency to twice a year
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**7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<if applicable>>**

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities-Permit Year 9
Revised					

**7a. Additions**


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**7b. WLA Assessment**

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**Part IV. Summary of Information Collected and Analyzed**

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

(Since beginning of permit coverage unless specified otherwise by a \*\*, which indicates response is for period covering April 1, 2011 through March 31, 2012)

**Programmatic**

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	y
Annual program budget/expenditures **	(\$)	58,013
Total program expenditures since beginning of permit coverage	(\$)	218,258
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		General Fund

**Education, Involvement, and Training**

Estimated number of property owners reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	y
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	N
Shoreline cleaned since beginning of permit coverage	(mi.)	N
Household Hazardous Waste Collection Days		
▪ days sponsored **		N
▪ community participation **	(# or %)	N
▪ material collected **		N
School curricula implemented	(y/n)	Y

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**Legal/Regulatory**

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

**Mapping and Illicit Discharges**

	(Preferred Units)	Response
Outfall mapping complete	(%)	100
Estimated or actual number of outfalls	(#)	27
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100
▪ CADD	(%)	0
▪ GIS	(%)	0
Outfalls inspected/screened **	(# or %)	100
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	100
Illicit discharges identified **	(#)	1
Illicit discharges identified (Since beginning of permit coverage)	(#)	0

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Illicit connections removed	(# ); and (est. gpd)	0
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	0
% of population on sewer	(%)	20%
% of population on septic systems	(%)	80%

### Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre)	(#)	15
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	100%
Site inspections completed **	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	1
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	0

### Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100
Site inspections (for proper BMP installation & operation) completed	(# or %)	100%
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	N

### Operations and Maintenance

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Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	Min 1 or 2 if needed
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Qty of structures cleaned	(#)	765
Qty. of storm drain cleaned	(%, LF or mi.)	100%
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	Est. 400 tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.)	(location)	Landfill, Compost

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)	(\$)	58,013
• Hourly or per basin contract rate	(\$/hr or \$ per basin)	\$6.0526/basin
• Disposal cost	(\$)	0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	0
• Vacuum trucks specified in contracts	(y/n)	N
• % Structures cleaned with clam shells **	(%)	100
• % Structures cleaned with vector **	(%)	0

(Preferred Units) Response

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr.)	2
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr.)	0
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	Est. 800 tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill, Compost pipe bedding
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	1,281.09

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• Hourly or lane mile contract rate	(\$/hr. or lane mi.)	\$47.67/hr
• Disposal cost**	(\$)	0
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	0
• Vacuum street sweepers specified in contracts	(y/n)	0
• % Roads swept with rotary brush sweepers	%	100
• % Roads swept with vacuum sweepers	%	0

\*Includes \$12,240 of Storm-related expenses

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	Never used
▪ Herbicides	(lbs. or %)	Never used
▪ Pesticides	(lbs. or %)	Never used
Integrated Pest Management (IPM) Practices Implemented	(y/n)	Y

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used  (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl <sub>2</sub> % MgCl <sub>2</sub> % CMA % Kac % KCl % Sand	15%      85%

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Pre-wetting techniques utilized	(y/n or %)	N
Manual control spreaders used	(y/n or %)	Y
Zero-velocity spreaders used	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/l <sub>n</sub> mi. or %)	No change
Estimated net reduction or increase in typical year sand application rate	(±lbs/l <sub>n</sub> mi. or %)	No change
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s)	(y/n)	Y

### Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	N
<ul style="list-style-type: none"> <li>Treatment units induce infiltration within 500-feet of a wellhead protection area</li> </ul>	# or y/n	N

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**ADDENDUM #1**  
**NPDES PII Small MS4 General Permit**  
**Annual Report**

**Municipality/Organization:** Town of Dighton, MA

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**EPA NPDES Permit Number:** MAR041105

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**Mass DEP Transmittal Number:** W-040738

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## **1. PUBLIC EDUCATION AND OUTREACH**

During this year, Bristol County Agricultural High School offers a new course for students, Watershed Management. Course Description as follows: Water is an important issue for every community, whether that community is bustling urban neighborhood crowded with people, or a pristine marsh crowded with ducks, amphibians and fish. The water resource concerns of human communities vary greatly, but there are few places where water is not an important issue. Public participation in water resource management requires public understanding about how water functions in natural communities, and how human affect the distribution and quality of this precious resource.