Municipality/Organization: Town of Franklin

EPA NPDES Permit Number: MAR041117

MaDEP Transmittal Number: W-041238

Annual Report Number & Reporting Period: No. 9: May 1, 2011-April 30, 2012

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person	a: Robert Cantoreggi	Title: DPW Director
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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:
 Jeffrey D. Nutting

 Title:
 Town Administrator

 Date:
 Date:

Part II. Self-Assessment

The Town of Franklin has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provision:

- 1. As discussed in Part III, Section 7 of this report, the schedule has been modified for developing BMPs associated with Meeting Total Maximum Daily Load (TMDL) studies and Waste Load Allocations (WLA). The work under EPA's "Sustainable Stormwater Funding Project" for the Upper Charles River communities of Bellingham, Franklin and Milford" was reviewed by the Town. The Town actively participated in this project and it is anticipated that the Town will utilize this information in the development of an appropriate and feasible approach to meet the forthcoming permit requirements related to TMDLs and WLA. Further action is pending the release of the 2012 Phase II MS4 Permit.
- 2. As discussed in previous Annual Reports, a Stormwater Utility Feasibility Study was completed in 2007 and the Town updated the utility project in 2008 and 2009. In 2010 and 2011 the Town continued to support the development of the abovementioned EPA funding project and further action is pending the availability of funding and the release of the 2012 Phase II MS4 Permit.

In addition to the information discussed for each BMP in this report, the Town would like to note the following additional activities during the Year 9 reporting period:

- The Charles River Watershed Association was awarded the 2011 Thiess International River*prize* and named the Town of Franklin as a partner for its significant contributions to the restoration of the Charles River.
- The DPW and the Charles River Watershed Association partnered on a grant for the EPA Office of Waters Urban Small Waters Grant and submitted a letter of interest on April 6, 2012 to develop a Green Stormwater Infrastructure Implementation Strategy under the EPA Green Infrastructure Program.
- As part of the "Sustainable Stormwater Funding Project", multiple Town staff have participated in Steering Committee meetings and provided review of agenda items, program evaluations and cost information. The Steering Committee met on the following dates: June 29, 2011 and September 12, 2011. The project concluded on September 30, 2011 with the receipt of the final report.
- The DPW Director made 7 stormwater presentations during the permit year:
 - Stormwater Financing the Regulations NEWEA CSO Conference, Portsmouth, NH on May 4, 2011.
 - Stormwater Perspective: Town of Franklin & The Upper Charles Study Montachussett Regional Planning Commission, LID Workshop #2, Athol, MA on August 5, 2011.
 - EPA Residual Designation Authority for Designated Discharges in the Upper Charles River Norfolk Bristol Middlesex Highway Association: Fall Technical Session, Wellesley, MA on October 12, 2011.
 - Stormwater: Financing the Regulations Save The Bay, Providence, RI on November 17, 2011.
 - Stormwater Perspective: Town of Franklin & The Upper Charles Study Suasco Watershed Community Council, Waltham, MA on December 13, 2011.

- Stormwater: It's Not Easy Being Green (Panel Moderator) New England Water Environment Association, Boston, MA on January 23, 2012.
- Effective Lower Cost Measures for Stormwater Treatment Massachusetts Watershed Coalition, Worcester, MA on April 12, 2012.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
1A Revised	Recycling Education for Home Owners	DPW/Solid Waste Coord.	Distribute 3 times/year	A recycling mailer was sent to residents on a quarterly basis. The mailer discussed proper waste disposal & recycling practices in addition to advertising the additional recycling and composting services that are available at the Beaver Street Recycling Center. The recycling section of the Town website was updated with additional information on recycling practices. In July 2010 the town moved to a single stream automated trash and recycling program and realized a 27% increase in recycling tonnage. This increase has held steady through the current permit year. The recycling center started accepting rigid plastic which has removed approximately 50 tons from the waste stream. Styrofoam is also now accepted for recycling and has removed approximately 83 cubic yards from the waste stream. Toilets, sinks and bathtubs are also accepted for recycling, in addition to creating a formalized composting program at the facility. The facility saw a 17% increase in usage throughout the permit period.	Continue to update website with additional information and educational materials. Increase recycling tonnage through public awareness campaigns. Outfit the recycling center with the ability to accept household hazardous waste on a daily basis in addition to accepting mattresses and some furniture items for recycling.

1B Revised	Education Information on the Web Site	DPW	Web Site Information developed and posted for year 2	The stormwater management/education web page was maintained and updated-with information about the EPA "Sustainable Stormwater Funding Project" for the Upper Charles River communities of Bellingham, Franklin and Milford". Copies of the quarterly storm water management flyer were added to a town wide quarterly mailer. The hit counter added to the web page in Year 7 recorded an additional 326 hits by 04/30/2012. The DPW web page continued to advertise rain barrels to residents, discussing the improved environmental and stormwater benefits. Detailed recycling and waste disposal information is posted on the Town's recycling web page.	Continue to update web page with new topics and the progress of the Stormwater Management program as needed. Track the number of hits on the stormwater web page to gauge effectiveness.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
1C	Education on Waste Disposal & Water Conservation	DPW/Solid Waste Coord.	Materials Available in all Public Buildings	 Water conservation materials are available at the Administration Building. 	Continue to make materials available at public buildings, Town events and post information on the Town's

Revised	 * Water Conservation Kits (toilet website.
	tank displacement bags, low-flow
	showerheads, leak detection
	tablets, faucet aerators) are
	available at the DPW.
	* Stormwater education materials
	were displayed at the Town Hall,
	High School, DPW
	Administrative Office
	* Recycling flyers are sent quarterly
	to residents
	* Water conservation information is
	broadcast daily on local cable
	channel during months of May
	through October
	* Mandatory water conservation
	notices were added to quarterly
	newsletter.
	* A continued mercury thermometer
	replacement program was
	implemented; residents can turn in
	their old mercury thermometer for
	a digital one.
	★ Recycling facts and updates are
	broadcast daily on the local cable
	channel year round
	* Educational information available
	on specific websites for
	stormwater management and
	recycling
	★ DPW facility tours were
	conducted 4 times for elementary
	school students in which
	stormwater and water
	conservation topics were
	discussed.
	* Phone and e-mail address
	provided for citizen inquiries
	(dpw@franklin.ma.us)

1D Revised	Water Resource Information and Protection Signs	DPW	Five Signs Posted/Year beginning in year 3 Begin posting signs in year 4; post/maintain signs annually	The DPW installed an additional "Water Resource Area" sign at a crossing of the Shepards Brook that was recently reconstructed.	Evaluate additional locations for signs and coordinate with efforts under BMP 1F.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
1E	Public Education with Charles River Watershed Association	DPW Director, Town Engineer	Number of Coordinated Programs	In permit year 8 the Town installed rain gardens as part of a partnership with CRWA's "Building Blue"	Continue to coordinate public education efforts and pursue grant opportunities with the CRWA, as
Revised			# attendees & audience	subwatershed management project. These rain gardens and their functions have been incorporated into lesson plans in the science curriculum of teachers in the school and wet weather demonstrations have been given by the DPW Director. The DPW and CRWA partnered on a grant for the EPA Office of Waters Urban Small Waters Grant and submitted a letter of interest for the EPA Green Infrastructure Program.	appropriate.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID #		Dept./Person		Permit Year 9	Next Permit Term
		Name			
1F	Establish a "Green	Franklin High	Monthly meetings,	The "Green Team" at the High School	Continue to provide tours of the DPW
	Team" at Franklin High	School students,	agenda, memos of	was dissolved early on in Permit Year 9	facility which includes conversations
	School and Participate	DPW	actions and results	and was not available to coordinate	and demonstrations on stormwater,
	in Stormwater/Water			with. DPW staff performed guided	water conservation and recycling.
	Quality Improvement			tours to 4 groups of elementary school	(BMP 2A).
	Projects			students. The tours included covering	
				the topics of stormwater, water	
				conservation and recycling.	

1G	Open Data Sharing for Stormwater Infrastructure	DPW	Ongoing correspondence with regulatory agencies for data sharing	The DPW made GIS data and information related to the storm drain system and impervious cover available to non-profit and regulatory industries invested in watershed protection and management.	Continue to share GIS and infrastructure data with regulatory agencies.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
1H	Classroom Stormwater Education	Town Engineer & DPW	# students and/or # classes & grades taught	DPW staff performed guided tours to 4 groups of elementary school students. The tours included covering the topics of stormwater, water conservation and recycling.	Continue to provide tours of the DPW facility which includes conversations and demonstrations on stormwater, water conservation and recycling. (BMP 2A).
11	Stormwater Newspaper Articles	DPW	# articles published, audience reached	The DPW was featured in articles in the Milford Daily News related to the "Sustainable Stormwater Funding Project" and information on stormwater retrofits included in reconstruction projects on numerous occasions throughout the year. Stormwater articles were published on the following dates: 4/23/2012, 3/1/2012, 10/28/2011, 8/25/2011, 8/8/2011, and 7/26/2011.	Develop and publish articles for new topics on a regular basis.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
2A Revised	Storm Drain Stenciling	DPW	Average Ten Catch Basins/Year	12 storm drains were re-marked at locations downtown where they wore out over time or where there was new construction.	Continue to maintain and replace storm drain markers in Town. Solicit and involve local Youth Organizations (e.g., Green Team, Eagle Scouts).
2B	Outreach Efforts with Charles River Watershed Association	DPW Director & Conservation	Number of Coordinated Programs	In permit year 8 the Town installed rain gardens as part of a partnership with CRWA's "Building Blue"	Coordinate public events during next permit term to increase public education and involvement.
Revised				subwatershed management project. These rain gardens and their functions have been incorporated into lesson plans in the science curriculum of teachers in the school and wet weather demonstrations have been given by the DPW Director.	
2C	Public Meetings to Encourage Volunteers	DPW, Recreation Department, Earth Day Committee (volunteer)	Meetings held with the Public Starting Year 2	An Earth Day cleanup event was held on April 22, 2012 at Beaver Pond and approximately 100 people participated. The event focused on minimizing	Continue to solicit volunteers and advertise the Earth Day cleanup every year. Continue to incorporate stormwater topics with the cleanup
Revised			One meeting annually	environmental impact, water conservation and stormwater management in conjunction with a large scale roadside litter cleanup and beautification effort. The town also coordinated efforts with the yearly CRWA Earth Day river cleanup event.	event.

2D	Community Assistance Program	DPW	Evaluation correspondence	Educational materials from SuAsCo, tailored to the Charles River, were incorporated into existing programs. The informative display was set up at various locations during the permit term: Town Hall, High School, DPW Administrative Office and Senior Center. The display was also available at the Earth Day Cleanup event on April 22, 2012.	Continue to develop program needs and incorporate materials into public education/outreach and participation/involvement BMPs, as appropriate.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
2E	Establish a Stormwater Telephone Hotline	DPW	Record number of phone calls to hotline, copies of advertisements.	Stormwater issues are handled by DPW through calls to the main office as displayed on the stormwater website. Approximately 38 cases were addressed.	Record number of phone calls to hotline. Continue to establish means in which residents may acquire additional stormwater information.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
3A	Stormwater Map Development	DPW Director, Town Engineer, Highway Dept	Completed Map Showing Collection System Outfalls	442 outfalls were previously mapped. The storm drain system map was updated to reflect the results of field	Continue to update the drainage map and GIS data with ongoing mapping efforts (e.g., BMP 3D). Continue to
Revised		GIS Manager		inspections (see BMP 3D) in addition to ongoing efforts to incorporate the drainage network from existing subdivision plans. The drainage network is approximately 69% mapped and the DPW has developed detailed (200-scale) maps for future drainage assessments and asset management.	develop a detailed drainage data layer and begin to define drainage catchments based on this information.
3B	Develop Non-Storm Water Discharge Ordinance	DPW Director	Ordinance Adopted by Town	A draft illicit discharge prohibition article under the existing stormwater bylaw was prepared and awaits	Present illicit discharge article to the public at an upcoming Town Council meeting for final review.
Revised			Draft article at Town Meeting in year 6	presentation at an upcoming Town Council meeting.	

3C Revised	Develop Illicit Detection Implementation Plan	DPW Director	Plan Developed	Outfall inspections were completed in accordance with the Town's Illicit Discharge, Detection & Implementation Plan (IDDE).	Continue with follow-up actions in accordance with the IDDE plan (see BMP 3D below).
3D Revised	Perform Dry Weather Outfall Assessments	DPW Director, consultant GIS Manager	Prioritized Areas and Number of Outfalls Assessed	28 outfalls in high priority areas were re-inspected and no obvious illicit discharges were observed. All 501 outfalls have been screened for illicit discharges.	Evaluate dry weather flows with respect to the updated water and sewer maps. Conduct additional water quality assessments at outfalls with dry weather flow, as appropriate.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
3E	Develop Procedures for Removing Illicit Connections	DPW Director, Consultant	Procedures Developed and Number of Locations Identified	Procedures for the removal of illicit discharges were added to the IDDE plan (BMP 3C) and the legal	Document the progress of removing any identified illicit discharges.
Revised				mechanism is outlined in the IDDE article (BMP 3B).	

3a. Additions.

3F	Setup and Advertise a	DPW	Log of Complaints and	Coordinated with BMP 2E, DPW	Keep log of complaints and action
	Hotline for Illicit		Action Taken.	handles stormwater issues through	taken. Continue to establish means in
	Discharges			written records and calls to the hotline.	which residents may acquire additional
					stormwater information.
3G	I/I and Sewer Rehab.	Town Engineer,	Prioritization plan and	I/I and sewer rehabilitation activities	Continue I/I and sewer rehabilitation
	Program	DPW Director,	record of corrections	continued. Flow metering was	activities to repair infrastructure as
		Consultant		conducted using the permanent meter at	funding allows.
				the downstream end of a primary	
				collector line. Permanent groundwater	
				and rain gauges were also installed and	
				monitored on a monthly basis in an	
				effort to collect better data. Flow meter	
				data is analyzed on an annual basis.	
				GPS was used to collect the location of	
				131 sewer manholes. CCTV was	
				conducted on 6,500 LF of sewer	
				pipeline.	

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
4A	Ordinance Development for Waste Control	DPW Director, Town Engineer, Conservation, Planning, Consultant	Ordinance Adopted by Town	Stormwater Management bylaws were adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw in permit review and enforcement processes.
Revised			Draft bylaw at Town Meeting in year 4		
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
4B	Formalization of Site Plan Review Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant	Site Plan Review Procedures Adopted by Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaws.	Refer to BMP 4A.
Revised					
4C	Revised Ordinance to Address Storm Water Pollution	DPW Director, Town Engineer, Conservation, Planning, Consultant	Revised Ordinance Adopted by the Town	This BMP has been incorporated into the work discussed under BMP 4A, as part of the stormwater bylaw.	Refer to BMP 4A.
Revised				-	
4D	Best Management Practice Manual for Developers	DPW Director, Town Engineer, Conservation, Planning, Consultant	Handbook Completed and Adopted by Town	The stormwater bylaw references the MA DEP Handbook for erosion control requirements that are used to review future projects. The Department of Public Works in conjunction with	Continue to use the handbook for inspections and developer education and implement requirements under the stormwater bylaw. Finish and distribute the Best Development
Revised			MA DEP Handbook on File	the Department of Planning and Community Development began the preparation of a Best Development Practices Guidebook for Developers.	Practices Guidebook.
4E	Formalization of Inspection Procedures	DPW Director, Town Engineer, Conservation, Planning, Consultant	Inspection Procedures Adopted by Town	The existing standardized checklist was used by the DPW for construction site inspections at 19 projects throughout the permit term.	Continue to utilize formalized inspection procedures and train staff as necessary.
Revised		Construction Inspectors			

4a. Additions.

4F	Establish a Procedure	DPW Director,	Record number of	The DPW generally receives calls	Coordinate with BMPs 2E & 3F,
	for the Receipt of	Town Engineer,	phone calls to hotline,	related to stormwater and handles any	continue to receive and record
	Information Submitted	Conservation	copies of articles	problems that arise. This information	information by the public regarding
	by the Public		advertising the hotline.	is coordinated with BMP 2E.	construction sites.

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
5A	Procedures for Long Term O&M	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town	Stormwater Management bylaws were adopted into the Town's regulations in 2007.	Continue to implement the stormwater bylaw and review operation and maintenance requirements.
Revised			Draft bylaw at Town Meeting in year 4		
5B	Review Procedures for Post Construction Impacts	DPW Director, Town Engineer, Conservation, Planning, Consultant	Adoption of Procedures by Town	This BMP has been incorporated into the work discussed under BMP 5A. The Town previously developed a standardized checklist for review of projects subject to the stormwater	No further action.
Revised				bylaws.	
5C	Best Management Handbook for Developers	DPW Director, Town Engineer, Conservation, Planning, Consultant	Handbook Completed and Adopted by Town	The stormwater bylaw references the MA Stormwater Handbook that is used to review projects. The Department of Public Works in conjunction with the Department of Planning and	Continue to use the handbook for review of BMP designs under the stormwater bylaw. Finish and distribute the Best Development Practices Guidebook.

Revised	MA DEP Handbook on File Educational Flyers	Community Development began the preparation of a Best Development Practices Guidebook for Developers. The DPW office provides educational flyers related to proper stormwater	Continue to distribute educational flyers related to stormwater management.
		management techniques.	

5a. Additions

5D	Establish a Procedure	DPW and	Record number of	The DPW generally receives calls	Coordinate record keeping program
	for the Receipt of	Conservation	phone calls, and	related to stormwater and handles any	with the post-construction
	Information Submitted	Planning	copies of letters and	problems that arise.	stormwater bylaw, track calls and
	by the Public		other		records of enforcement.
			correspondence.		

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	Planned Activities – Next Permit Term
6A	Standard Operating Procedures	DPW Director/Division Heads	Ten Procedures Developed	This BMP has been incorporated into the work discussed under BMP 6H. The work under BMP 6H was updated	Incorporate the results of BMP 6H and implement the recommendations for pollution prevention and
Revised			List of current O&M procedures	and the Town developed standard operating procedures (SOPs) for drainage system maintenance.	housekeeping. Adapt SOPs as appropriate to Franklin DPW.
6B	Employee Training	DPW Director/Division Heads	Four Employee Training Sessions	Highway, Water and Sewer Department employees attended training on April 26, 2012. The topics	Conduct training for the DPW, Highway, Water and Sewer Department employees and evaluate
Revised			Annual training, attendance sheet and copy of program	covered included: MS4 Permit Requirements; Stormwater Impacts; Sources of Pollution; BMPs for Municipal Operations; O&M for Structural BMPs; Spill Prevention & Response; Illicit Discharge Detection & Elimination; and Inspections & Recordkeeping. The training was conducted with 3 neighboring Towns.	future training needs including site visits and field training.

6C	Parking Lot and Road Sweeping	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	Continued routine street sweeping program. All streets are swept once a year and the downtown area is swept	Continue existing practices for sweeping and enhance cleaning operations based on the availability
Revised				twice a year. The previous purchase of a new street sweeper helped to maintain the cleaning schedules.	of equipment and staff time. Consider a method to track sediment volumes and optimize sweeping routes and schedules.
6D	Spill Response and Prevention	DPW Director/Division Heads	Procedures and Inventory Completed	Inspections and site activities were conducted in accordance with the 2008 SPCC Plan.	Follow the current SPCC Plan and target managers for hands on training.
Revised					
6E	Catch Basin Cleaning	DPW Director/Division Heads	Schedule Developed and Areas Prioritized for Cleaning	The Highway Department continued to use the old Water Department vacuum truck to assist with catch basin	Begin to evaluate appropriate cleaning frequencies and coordinate maintenance activities with BMP 6H.
Revised				cleaning.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
6F	Municipal Facilities and Operations Evaluation	DPW & Consultant	Record of inspections, recommendations and improvements. Pollution prevention inspection checklist.	The Town continued to implement the recommendations from the March 2011 municipal facilities and operations evaluation.	Continue to implement the recommendations of the updated evaluation.
6G	Low Impact Design for DPW Roadway & Drainage Projects	DPW Director, Town Engineer	Record of final or as- built plans and improvements.	Design was completed for 4 roadway reconstruction projects that will incorporate 6 rain gardens, 3 tree pits for pretreatment, and 3 infiltration chambers. Roadway design also focused on removing impervious surface with the removal of 1 sidewalk and narrowing the roadway by 2 feet throughout the subdivision. (see also BMP 6H).	Additional projects and drainage improvements will be evaluated during the next permit round.

6Н	BMP Evaluation and Identification of Needed Retrofits	DPW Director, Town Engineer, Consultant	Database of BMPs, owners, O&M requirements, inspection forms.	The Town focused on the retrofit design and construction of 9 BMP locations during the reconstruction of a roadway and municipal parking lot. 5 of the BMPs were sited on an urban municipal parking lot in a highly visible downtown location. Design was completed on 2 additional BMPs. The Town also identified and reconstructed 4 existing BMPs that were not functioning properly. The reconstruction has improved these BMPs and allows them to operate as originally designed. The town owned BMPs listed in the BMP database were updated with additional inspection data. The Town began developing standard operating procedures (SOPs) for drainage system	Construct the 2 additional BMPs. Incorporate the results of the previous BMP evaluation into future evaluations for impaired waters (BMP 7A & 7B) and evaluate priority cleaning areas and retrofit opportunities. Incorporate maintenance needs into existing operations as funding allows. Continue to monitor and update the BMP maintenance and retrofit database.
61	Stormwater BMP Maintenance & Drainage System Upgrades	DPW	Record of cleaning activities, # structures cleaned annually	maintenance. The highway department made repairs and conducted preventative maintenance on 58 Manholes and Catch Basins throughout the permit term. Drainage work was completed on Anchorage Rd and the Depot St parking lot during road reconstruction including the installation of 5 rain gardens, 3 pretreatment tree pits and 2 infiltration chambers. Design was completed on the Wyllie Ct, Miller St and Green St reconstruction projects. The Town also identified and reconstructed 4 existing BMPs that were not functioning properly. The reconstruction has improved these BMPs and allows them to operate as originally designed.	Continue to make drainage improvements as funding is available. Incorporate the results of BMP 6H.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID #		Dept./Person		Permit Year 9	Next Permit Term
		Name			
6J	Make Annual	DPW & Board of	Ongoing resident	A collection event was held at the Town	Evaluate methods for allowing
	Household Hazardous	Health	participation, amount	Hall on October 1, 2011 and 8,342	Household Hazardous Waste
	Waste Collections		of materials collected	pounds of waste was collected. The	Collection available year round at
	Available to Residents			Town has a reciprocal agreement with 8	the Town recycling center. Continue
				neighboring communities that allows	to hold an annual event and renew
				residents to participate in Household	the reciprocal agreement with
				Hazardous Waste Collections on	neighboring communities for
				multiple dates.	additional event opportunities.

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) <<i f applicable>>

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9	Planned Activities – Next Permit Term
Revised					

7A	Evaluate Data and	DPW,	Copy of Water Quality	As discussed in previous Annual	Evaluate the results of the
	TMDL for the Charles	Conservation,	Improvement Plan	Reports, the Town hired a consultant to	"Sustainable Stormwater Funding
	River and Develop a	Consultant		develop a strategy to meet the TMDL	Project ", the previously developed
	Plan to Improve TMDL			considering existing actions under the	TMDL strategy, the requirements of
	Waters			Phase II stormwater management	the final Phase II and RDA Permits
				program and available resources.	and incorporate this information into
					the SWMP Update following the
				This effort was put on hold and the	permit re-issuance.
				Town participated in the EPA's	
				"Sustainable Stormwater Funding	
				Project" that developed a recommended	
				approach to begin addressing the	
				requirements of the TMDL. Further	
				action is pending the availability of	
				funding and the release of the 2012	
				Phase II MS4 Permit.	
BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID #		Dept./Person		Permit Year 9	Next Permit Term
		Name			

7B	Implement Water	DPW &	Photographs, logs, and	Refer to BMP 7A.	This will begin upon development of
	Quality Improvement	Conservation	BMP descriptions for		the implementation strategy and as
	Plan for discharges to		completed efforts and		resources become available.
	303(d) waters.		water quality		
			improvements		

7b. WLA Assessment

As discussed in the Year 6 annual report, two TMDLs have been finalized for the Charles River Basin. These include the Total Maximum Daily Load for Nutrients in the Lower Charles River Basin, Massachusetts CN 301.0, June 2007 and the Pathogen TMDL for the Charles River Watershed, CN 0156.0, January 2007. The Town of Franklin hired a consultant to review the TMDLs and provide recommendations on the additional steps needed to comply with the TMDLs. This review identified some concerns that will be considered in the development of the implementation strategy. Adding to the concern for developing an appropriate implementation strategy, the Town's consultant reviewed the draft TMDL for Nutrients in the Upper/Middle Charles River, CN 272.0, September 2009. Comments related to the calculation of phosphorous load, supporting data and implementation strategy were submitted to MassDEP.

At the beginning of Year 8, the Town reviewed the requirements of the draft Phase II Permit for North Coastal Watersheds and considered previous work/ progress under the current program towards meeting these permit requirements and the water quality objectives outlined in the TMDLs. A significant amount of effort has been put forth to develop an appropriate and cost-effective program to meet the permit requirements of the Phase II and RDA programs, as part of ongoing work under EPA's "Sustainable Stormwater Funding Project" for the Upper Charles River communities of Bellingham, Franklin and Milford". The Town actively participated in this project and a recommended approach to address the requirements of the TMDL was developed. Additionally, a key element of the study was to develop a potential approach to fund the future stormwater program. The Town anticipates that this information will be used to assist in the development of an appropriate and feasible approach to meet the new permit requirements related to TMDLs and WLA; however, further action is pending the availability of funding and the release of the 2012 Phase II MS4 Permit.

The Town of Franklin continues to actively pursue water quality improvement projects as resources allow and in conjunction with other infrastructure projects. Additionally, the Town continues to update information related to infrastructure (e.g., drainage mapping, sanitary sewer I/I investigations) that provide better data for future water resource planning activities. Examples of these efforts and specific water quality improvement projects were outlined previously in this report.

Part IV. Summary of Information Collected and Analyzed

- Number of outfalls screened for illicit discharges: 28 during the permit term, 501 total
- 100 residents participated in Earth Day event, 70 of which were students from local schools.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	Yes
Annual program budget/expenditures	(\$)	

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	100%		
Stormwater management committee established	(y/n)	Ν		
Stream teams established or supported	(# or y/n)	Ν		
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)			
Household Hazardous Waste Collection Days				
 days sponsored 	(#)	1		
 community participation 	(%)			
 material collected 	(tons or gal)	8,342 lbs.		
School curricula implemented	(y/n)	Y*		
*The Town does not have a specific curricula established, but DPW coordinates with the middle school classrooms to provide occasional stormwater lectures and/or guided tours for stormwater BMP projects. Several rain gardens have been constructed at public schools and serve as stormwater demonstration projects for students. Additionally, DPW works with local Boy Scouts for specific activities such as storm drain stenciling.				

Legal/Regulatory

	In Place Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
 Illicit Discharge Detection & Elimination 			Х	
Erosion & Sediment Control				X
 Post-Development Stormwater Management 				X
Accompanying Regulation Status (indicate with "X")	·			
 Illicit Discharge Detection & Elimination 			Х	
 Erosion & Sediment Control 				X
 Post-Development Stormwater Management 				X

Mapping and Illicit Discharges

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	501
System-Wide mapping complete	(%)	69%
Mapping method(s)		
 Paper/Mylar 	(%)	
 CADD 	(%)	
• GIS	(%)	69%
Outfalls inspected/screened	(# or %)	501
Illicit discharges identified	(#)	0
Illicit connections removed	(#)	0
	(est. gpd)	
% of population on sewer	(%)	80
% of population on septic systems	(%)	20

Construction

Number of construction starts (>1-acre)	(#)	19
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100%
Site inspections completed	(# or %)	100%
Tickets/Stop work orders issued	(# or %)	0
Fines collected	(# and \$)	
Complaints/concerns received from public	(#)	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100%
construction stormwater control		
Site inspections completed	(# or %)	100%
Estimated volume of stormwater recharged	(gpy)	Unknown

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1
Total number of structures cleaned	(#)	5,200
Storm drain cleaned	(LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		
Cost of screenings disposal	(\$)	
Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	
Cost of sweepings disposal	(\$)	

Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)	
 Fertilizers 	(lbs. or %)
 Herbicides 	(lbs. or %)
 Pesticides 	(lbs. or %)

Anti-/De-Icing products and ratios	% NaCl	10:90
	% CaCl ₂	sand/salt mix
The sand/salt mix was modified from the previous 20:80 sand/salt mix based on the amount of	% MgCl ₂	
material necessary to treat roadway conditions, resulting in more effective treatment without applying	% CMA	
additional material.	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized	(y/n)	
Manual control spreaders used	(y/n)	
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)*	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	
*Salt is stored in two sheds to provide adequate cover of all materials.		