Municipality/Organization:	Town of Millis
EPA NPDES Permit Number:	MAR041137
MaDEP Transmittal Number:	W- 040942
Annual Report Number	May 1 2013 April 30 2014

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person	: Charles J. Aspinwall	Title: Town Administrator
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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:	Coup J. Ch
Printed Name:	Charles J. Aspinwall
Title:	Town Administrator
Date:	

Part II. Self-Assessment

The Town of Millis has completed the required self-assessment of the annual compliance review for the Phase II Stormwater Program. In accordance with the NPDES Phase II Stormwater requirements, the following topics were evaluated for the completion of the Annual Report:

- 1. Compliance with the Phase II Permit Conditions
- 2. Appropriateness of the Selected BMPs
- 3. Progress Towards Achieving the Program's Measurable Goals
- 4. Results of Any Information that has been Collected and Analyzed
- 5. Activities for the Next Reporting Cycle
- 6. Changes in Identified BMPs or Measurable Goals

The Town has determined that our municipality is in compliance with all permit conditions.

Notable Accomplishments/Improvements in Permit Year 11:

- Stormwater violation identified and corrected at 1365 Main Street
 - o Earthwork/construction activities were underway without a permit
 - o Stop work order was issued
 - o Property owner has since filed site plans, including a bioretention swale and separator
 - o Site is now permitted and property owner is making a donation to the Public Library in lieu of a fee

Planned Activities:

- Hickory Hill Subdivision April 2014
 - o Stormwater plans are currently under review by the Planning Board
 - o 34 lots, 3 retention areas, vegetated swale between existing development and subdivision
- Rosenfeld Road Drainage Project Summer 2014
 - o Flooding associated with Town-owned stormwater drainage (5 stormwater drainage pipes, 1 manhole, with 1 outlet pipe)
 - Town will redesign/update drainage structures
 - o Outlet pipe discharges to adjacent wetland
 - Town will conduct silt removal and some wetland restoration
- Farm Street, Flynt Lock Acre Subdivision I/I Planning Summer 2014
 - o Town-owned interceptor to be cleaned and inspected

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 11	Planned Activities – Next Permit Term
1A Revised	Distribute Brochures & Fact Sheets to Residents & Businesses	Dept. of Public Works (DPW)	Number of Articles & Copies of Materials.	Stormwater materials were sent to residents through the annual drinking water Consumer Confidence Report in June 2013. The materials were incorporated directly into the bound	Continue to distribute stormwater educational materials to Millis residents and businesses with the annual Consumer Confidence Report.
Revised				report and included a one-page article titled "What Can You Do to Protect Local Waterways?" and a one-page article titled, "Where Does All the Dirty Water Go?" from the EPA. The Consumer Confidence Report was mailed to every water account and resident, including each apartment. The above materials, EPA "After the Storm" brochure and the "Clean Charles Coalition" pamphlet were	Continue to make materials available at Town offices.
				made available at the offices of the Selectmen and Town Clerk.	
1B	Develop and Broadcast Stormwater Presentation on Local Cable Network	DPW & Town Selectmen	Cable TV tapes of presentations shown annually.	The Town did not broadcast the EPA video "After the Storm" on cable this permit year. Household hazardous waste collection	Continue cable broadcast of pertinent presentations and meetings. Consider future cable broadcasts of the EPA video "After the Storm".
Revised			"After the Storm" video shown biannually.	events were advertised on the local cable network.	Review other available stormwater educational videos to evaluate their applicability to address specific behaviors and targeted audiences.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
1C	Send out Stormwater Press Releases	DPW	Copies of Articles.	Information for the Millis Beautification Day was advertised in	Continue to publish newspaper articles and press releases.
Revised				the Millis/Medway paper "Our Town" in March 2014 and on the Town's website in April 2014. Press releases about the next Household Hazardous Waste Collection Day and responsible use of fertilizers and pesticides will also	
				appear in the June 2014 edition of the Millis/Medway paper and are currently posted on the paper's website.	

1a. Additions

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
1D Revised	Distribute Stormwater Pamphlets at Town Hall	Board of Health	Copies of Pamphlets	The Millis Board of Health continued to provide copies of the Clean Charles Coalition pamphlet "What You Can Do To Help" at the Town Hall. The following materials were also made available at the offices of the Selectmen and Town Clerk: "Protecting Water Quality from Urban Runoff" and the pamphlet "After the Storm".	Continue to make pamphlets available to the public through displays at Town offices.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
1E	Post Stormwater Information on Millis Website	DPW	Copies of Pages and Hits Annually	Information related to the Millis Beautification Day was posted on the Town's website. The Town's home	Continue to update the website periodically with new educational materials and other applicable
Revised			Copy of website page.	page has a link to the Town's stormwater management regulations.	announcements. Review the website content to
				The Stormwater Hotline was advertised on the website for residents to report stormwater concerns and illicit discharges.	evaluate its effectiveness addressing specific behaviors and target audiences.
1F	Classroom Stormwater Education	DPW, School Department & Consultant	Stormwater lesson plan and number of students participated	The Millis Garden Club continued to educate volunteers through events such as the Millis Beautification Day on	Continue to evaluate other stormwater education opportunities for the next permit term. Consider
Revised			Copy of website page.	April 12, 2014 regarding the care, maintenance, and water efficient plantings for the Town Hall landscaped area, irrigated by cistern-collected stormwater runoff.	providing "After the Storm" or other pertinent videos to schools and library.

2. Public Involvement and Participation

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
2A Revised	Establish a Stormwater Telephone Hotline	DPW	Record number of phone calls to hotline, copies of articles.	1 call was received in the past year regarding stormwater issues on Rosenfeld Road. The Town will lower the curb and pour a new sidewalk in	The DPW will continue to handle stormwater related phone calls. Continue to advertise the Stormwater Hotline through the stormwater
				Calls were received related to the ongoing beaver problem near Rose Road. The Town inspected the 300ft beaver dam and it was determined to be on private property. The neighborhood plans to trap and relocate the beavers and the state will help breech the dam. DPW addressed each of the stormwater issues and the hotline was promoted through the stormwater website.	website as detailed in BMP 1E and incorporate into other avenues such as press releases and educational brochures provided to residents.
2B Revised	Mark Storm Drains with Stencils During Cleaning	DPW	Storm drains marked in the highest priority subbasins in Year 2. Mark as many as	DPW refreshed the storm drain stencils along Main Street, Exchange Street, and Village Street.	Assess the condition of stencils in high and medium priority sub-basins and along main roads and areas with heavy pedestrian activity. Refresh
			possible with volunteers.	The DPW continued to use its own stencils and non-toxic street marking paint.	stencils where necessary. Solicit volunteers and pursue stenciling in low priority sub-basins, such as side streets.

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
2C	Conduct River, Stream, and Pond Cleanups	DPW & Volunteers	Cleaner streams as documented by before and after photographs	Millis Beautification Day occurred on April 12, 2014. Approximately 105 volunteers were involved through the	Additional river, stream and pond cleanups will continue to be conducted in the Town led by the
Revised		Millis Garden Club & Millis Lions Club, CRWA		Millis Garden Club, Millis Lions Club, Boy & Girl Scouts, Millis High School and Millis DPW. 113 cubic yards of trash and brush were collected as part of the cleanup: 200 35-gallon leaf bags, 140 35-gallon trash bags, 5 small dump truck loads of brush (3 yards each), 1 couch and 2 TVs. 35 volunteers from Millis participated in the Earth Day cleanup event organized by the Charles River Watershed Association (CRWA). The cleanup took place on April 26, 2014 and focused on the Charles River banks near Rt. 115, resulting in 35 gallon trash bags.	Millis Garden Club & Millis Lions Club with assistance from the Millis DPW. Cleanup activities will be coordinated with the CRWA as projects arise. Continue to recruit volunteers through existing contacts and other interested parties.

2a. No Additions at this time.

3. Illicit Discharge Detection and Elimination

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#	•	Dept./Person		Permit Year 11	Next Permit Term
		Name			
3A	Make Annual	DPW & Board	Document Quantity of	The Town of Millis coordinates	Continue to promote the HHW
	Household	of Health	Tickets Sold.	monthly collection events with the	collection events that are available to
	Hazardous Waste	(BOH)		Town of Norfolk. Residents were	residents through the Town website,
	Collections Available			informed of the collection event	the cable channel, utility mailings,
	to Residents			through utility mailings and local cable	and stormwater educational
Revised				broadcasts. Notice of the event and	materials.
				application forms were also made	
				available on the Town website.	Track the number of Millis
				Pamphlets are made available at the	participants and explore ways to
				Millis Transfer Station and the DPW	improve attendance.
				offices. Household Hazardous Waste	
				(HHW) disposal was available for a fee	Evaluate methods for tracking the
				on Wednesdays from April 1, 2013	volume of materials collected by
				through September 30, 2013 and April	Millis participants.
				1, 2014 - present at the Norfolk Transfer Station.	
				Transfer Station.	
				13 Millis residents participated in the	
				HHW disposal events during Permit	
				Year 11.	
				Teur 11.	
3B	Develop Primary	DPW	95 % of system	Outfall and storm drain system	Continue to revise base map as
	Town Storm Drain		mapped on GIS.	mapping was completed in Year 9.	needed based on new development or
	System Map			Tr &	differences observed in the field.
Revised	*				
3C	Identify Illicit Floor	DPW	27 illicit connections	No illicit floor drains were identified in	Illicit floor drains will be removed as
	Drain Connections at		identified and	Year 11.	they are identified. Illicit floor
	Businesses		removed, 2 from the		connections will be addressed as part
			storm drain system		of the Millis Illicit Discharge
			and/or waterways in		Detection and Elimination Plan.
			Millis.		
Revised					

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
3D	Complete Storm Drain Map	DPW	Map All Outfalls by Year 4	Outfall and storm drain system mapping was completed in Year 9.	The storm drain system map will continually be updated based on any
Revised			Outfalls mapped by Year 5	The Town completed its GIS system and conducted field verification for all utilities.	new subdivisions and roads constructed in the Town.
3E	Develop Illicit Discharge Prohibition Ordinance	DPW & BOH	Regulation at Town meeting by the end of Year 2.	The Illicit Discharge Prohibition Regulation was developed based on available model ordinances to meet the Phase II requirements. It was enacted	Continue to enforce Illicit Discharge Prohibition regulations and remove illicit discharges as they are identified via the hotline or other
Revised			Keep record of enforcement issues and eliminate illicit discharges within 1 year.	June 28, 2004.	methods.
3F	Develop Illicit Discharge Detection and Elimination (IDDE) Plan and Implement Activities	DPW, BOH, Consultant	IDDE Plan – Year 2, All outfalls examined by Year 4. Sources traced and results documented within one year of discovery.	As discussed in the Year 10 report, all outfalls have been screened for illicit discharges and follow-up sampling and investigation activities did not identify any illicit discharges.	Sample identified dry weather discharges and update the town map, if needed.
Revised			All outfalls examined by Year 5	The Sewer System Rehabilitation Project continued in Permit Year 11 and consists of 9 manhole repairs, joint sealing, connection sealing, liner installations, etc. This resulted in an estimated peak I/I reduction of 1,690 gpd in Permit Year 11.	
3G	Incorporate Information on Illicit Discharges into Public Education and Outreach Topics	DPW & BOH	Copies of Materials.	Illicit discharges information and stormwater impacts have been incorporated into the pamphlets described in BMPs 1A & 1D.	Continue existing practices and explore the use of additional illicit discharge information into public education documents in conjunction with Minimum Measure 1 BMPs.
Revised			Copy of Website.		

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 11	Next Permit Term
		Name			
3H	Setup and Advertise	DPW & BOH	Log of Complaints	DPW operates the Illicit Discharge	Continue to advertise the DPW and
	a Hotline for Illicit		and Action Taken.	Hotline (refer to BMP 2A) and 3 calls	phone number with press releases,
	Discharges			regarding illicit discharges in the form	the Town's stormwater website and
Revised				of sewer line breaks were received and	the stormwater educational materials.
				resolved in Year 11:	
				- 2/11/2014	Continue tracking calls and recording
				- 4/1/2014	investigative and corrective actions
				- 4/7/2014	taken by the Town.
					,
				The Town advertises the DPW and	
				phone number with press releases, the	
				Town's stormwater website, and	
				stormwater educational materials.	

3a. Additions

BMP ID#	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
110 11		Name		Termit Tear 11	Teat I crime Term
3I	Sewer Projects to Address Failed Septic Systems	DPW & BOH	Proposed Sewer Plan by end of Permit Year 5.	Millis conducted the following septic inspections in Permit Year 11:	The Town will continue to address septic system issues and conduct sewer projects as issues are identified
Revised			Homes on sewer system in 2006.	- Perc Tests and Soil Evaluations: 13 - Septic Plans (new construction): 7 - Septic Construction Permits: 9 - Title 5 Inspection Report reviews: 19 - Septic Abandonment (w/sewer 3 - Constribution Box Repairs (D-Box): 3 - Innovative/Alternative Technology Systems: 9 - Reports and or Inspections of I/A Systems: 17	and funding is available.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) -	Planned Activities –
ID#		Dept./Person		Permit Year 11	Next Permit Term
		Name			
3J	Model Study for	DPW	Study results by end of	The Town previously purchased more	No further activities are planned at
	Localized Sewerage		Permit Year 5.	sewer capacity from the Town of	this time.
	Treatment Facilities			Franklin to address the Dyer, Village,	
Revised				and Pleasant Street neighborhood. The	
				Millis Sewer Study Committee also	
				reserved additional capacity for Farm	
				Street and the downtown area.	

4. Construction Site Stormwater Runoff Control

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
4A	Develop Erosion Control Regulation	Building Inspector (BI) & DPW	Regulation at Town Meeting by End of Yr 2.	A stormwater bylaw was developed and regulations were enacted June 28, 2004 to meet the Phase II requirements.	Continue to review projects and enforce existing Erosion and Sedimentation Control Regulations.
Revised				The Town anticipates revisiting the bylaw and authority once the Phase II permit is re-issued.	Re-evaluate the stormwater bylaw that promotes LID, consider amendments, and seek additional support for adoption.
4B	Establish a Procedure for the Receipt of Information Submitted by the Public	BI & DPW	Record number of phone calls to hotline, copies of articles advertising the hotline.	As discussed under BMP 2A, 1 call was received for stormwater issues on Rosenfeld Street. The stormwater hotline is advertized on the DPW website and calls are addressed as they	The DPW will continue to handle stormwater related phone calls and administer investigative and corrective actions.
Revised				are received.	
4C	Develop & Adopt Design Standards Guidance for Erosion Controls	Planning Board (PB), DPW, Conservation Commission (Con. Com.)	Inspection checklist and documented inspections.	1 project disturbing greater than one acre occurred during the permit year. Multiple inspections were conducted at the following sites: Ridge Street	Continue inspections of construction sites for compliance with erosion and sediment control plans and procedures, utilizing the Town's standard inspection form and
Revised				culvert; Island Road culvert; Forest Road; Main Street Library Project; the Route 109 flood control project; weekly on Causeway Street and Island Road for beaver activity; Forest Road culvert; and the Main Street culvert project.	procedure.
				1 stop work order was issued for 1365 Main Street for conducting earthworks without a permit. The site has since applied for and been granted a permit.	

4a. No Additions at this time.

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 11	Planned Activities – Next Permit Term
5A	Develop BMP Regulation	BI & DPW	Regulation at Town Meeting by end of Year 2	Regulations to meet the Phase II requirements were enacted June 28, 2004.	Continue to enforce Post- Construction Regulations.
Revised				As discussed under BMP 4A, the Town anticipates revisiting the bylaw and authority once the Phase II permit is reissued.	Re-evaluate the Stormwater bylaw that promotes LID, consider amendments, and seek additional support for adoption (see BMP 4A).
5B	Develop and Implement Inspection Program	BI & DPW	Copies of maintenance reports received annually, plus records of inspections completed and results.	Inspections were conducted to ensure BMPs are maintained in accordance with the O&M Plans on file. 43 sanitary sewer manholes were inspected in 2011 for infiltration/inflow	Continue site inspections and maintenance tracking program for regulated sites.
Revised				(I/I). 36 sanitary sewer manholes were inspected for I/I in 2012. No sanitary sewer manholes were inspected in 2013.	
5C	Develop BMP Design Standards	PB, DPW, Con. Com. & Consultant	Improved Bylaws - Year 4	The Millis Stormwater Management Regulations are used to review BMP design criteria requirements for	Continue detailed review of plans and sites in accordance with the Millis regulations. Review additional
Revised				developers on a case by case basis. A consultant is retained for a more detailed review of stormwater designs for additional water quality protection.	design standards as part of BMP 4A & 5A.

5a. No Additions at this time.

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 11	Planned Activities – Next Permit Term
6A Revised	Clean Catch Basins	DPW	Clean all catch basins.	930 catch basins in town were cleaned, yielding approximately 145 cubic yards of cleanings that were stored at the Millis Tree Farm for reuse through the existing Beneficial Use Determination (BUD) approval. 4 Stormceptors were also cleaned, yielding approximately 9 cubic yards of cleanings.	Continue catch basin cleaning program annually and track sediment quantities. Evaluate the cost/benefit of additional cleaning versus other maintenance or drainage system improvements that have the potential to improve water quality.
6B	Sweep Streets in Town	DPW	Priority plan of sweepings based on water quality impact. Volume of sweepings collected.	All streets in town were swept once and some streets and sidewalks in the downtown area were swept twice. The SOP developed during Permit Year 6	Continue existing street sweeping program. Evaluate the cost/benefit of additional cleaning and develop a
Revised			Concecud	was used and approximately 25 cubic yards of sweepings were reused through the Town's BUD. The Town coordinates with the Tresca concrete facility at the Millis/Medway Town line to sweep Route 109 approximately 5 times a week due to truck traffic.	priority street map for streets (if any) that should receive additional sweeping based on data collected, traffic loads and/or pollutant loads.
6C	Store Road Salt Under Cover and Clean Loading Area	DPW	Minimize Stormwater Contact with Salt	Road salt materials are stored under cover at the Highway Garage and the loading area is cleaned as needed.	Continue existing practices and conduct repairs as needed.
Revised	-			Improvements to the doors for the salt shed were completed.	
6D	Calibrate Salt Spreading Equipment	DPW	Prevent over- application of salt as shown with calibration records.	Equipment is calibrated annually. Salt use is tracked through purchase records. 2,444.43 tons of salt and 357.75 tons of sand were purchased	Continue to calibrate equipment and record quantities annually.
Revised				this winter.	

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
6E	Use Low Salt Applications at Designated Areas	DPW	Use less salt at Norfolk county line than at other roadways as demonstrated with application rate.	Low-traffic side streets are sanded less often than the main streets in an effort to reduce the amount of sand and salt used each year.	Continue existing practices and evaluate appropriate application rates for various routes and watersheds while maintaining safe winter drivability.
Revised				Continued to use the rear-mounted spreader to reduce salt application rates significantly (estimated greater than 10% reduction) compared to arterials and major roads.	
6F	Use IPM Practices for Application of Pesticides in Town	DPW	Copy of IPM Plan.	The DPW performs routine inspections of town-maintained lands for pest persistence and promotes the use of	Ensure that turf management techniques for athletic fields are consistent with IPM techniques and
Revised				persistence and promotes the use of cultural management techniques for pest and turf management. All turf treatment for athletic fields is subcontracted and the Town's subcontractor agreement contains requirements to protect human health and the environment related to chemical applications. This agreement serves as the Town's policy for turf management.	past activities. Ensure that any right- of-way applications are consistent with the VMP and YOP.
				The Town reduced chemical applications at fields from 4 at the start of the program to 2 applications during this permit year. The Town conducted 1 application of pesticides along public rights-of-way.	

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
6G Revised	Use Licensed Applicators for Fertilizers and Insecticides in Town	DPW	Record quantities of fertilizers and pesticides purchased annually.	Chemical quantities are tracked through purchase records. Subcontracted chemical applicators are licensed, as required by the Town's subcontractor agreement for turf	The Town will monitor ways to reduce the use of chemical applications if possible.
				management. The Town continues to limit fertilizer application to just two applications at Town fields.	
6Н	Ensure Compliance with SPCC Plan for the Highway Garage	DPW	Prevent releases of oil at the Highway Garage through weekly inspections, annual training, and annual plan evaluation.	Informal SPCC training sessions for DPW employees occurred during monthly staff meetings. Spill prevention and response training was conducted in August 2013. Routine inspections were completed	Recertify the SPCC Plan. Follow the updated SPCC Plan and continue with DPW employee training.
Revised				and the annual plan evaluation was completed in Summer 2013. The SPCC Plan will be recertified within the Permit Year.	
6I Revised	Ensure Compliance for Snow Disposal in Town	DPW	Map of Acceptable Snow Disposal Areas.	Snow disposal occurred at acceptable areas at Oak Grove, which is outside the Zone II designation.	Continue existing practices to ensure proper disposal of snow in town.
6J	Use Filter Socks for Excavation and Hydrant Waters	DPW	Prevent discharge of sediments during dewatering and hydrant flow testing activities.	Filter socks are used during hydrant flushing and excavation dewatering (e.g., during water main breaks). The Town estimates that approximately 2,896,976 gallons of water was lost to	Continue existing practices.
Revised				fire fighting/training, hydrant flushing, street cleaning and water main breaks this permit year.	
				The Town also requires contractors to use filter socks during excavations to prevent excess sediment discharge.	

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
6K	Evaluate Pollution Prevention BMPs for the Fueling Station at the Highway Garage	DPW	As-built sketches or plans and photos.	This task was completed during Permit Year 2. No additional changes were made.	No further action is required.
Revised					
6L	Evaluate BMPs at the Highway Garage to Prevent Sedimentation to the Adjacent Waterway from Site Runoff and Road Material Storage	DPW	As-built sketches or plans and photos.	DPW maintained the BMPs and cleaned the detention area to ensure the BMPs are properly functioning to prevent sediment discharges to the adjacent waterway.	Maintain the BMPs to ensure proper function and ongoing sediment load reduction.
Revised			•	•	
6M	Develop an Inspection and Maintenance Plan	DPW	Written Policy – Year 3, Records of inspections and maintenance.	DPW implemented the SOPs and Inspection & Maintenance Plan. The Town has a Beneficial Use Determination (BUD) approval from	Operate BUD site in accordance with DEP permit, SOPs, and Inspection & Maintenance Plan.
Revised				Determination (BUD) approval from DEP for the reuse of street sweepings and catch basins in town to construct a town-owned tree nursery at an old gravel pit site. Sediments generated in Town (BMPs 6A & 6B) were reused under the BUD. The Town secured \$25K in funding for Phase II of the BUD site. Phase II is now underway. Land has been cleared and some material has been spread. Phase II will be completed in summer of 2014. The Town continued to conduct beaver control activities (e.g., pipe & catch basin cleaning) to address clogged pipes and culverts.	

BMP ID#	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 11	Planned Activities – Next Permit Term
6N	Ensure Water Quality Improvements are Considered for Flood Projects	DPW	Records of Flood Control Projects.	The Town employs a protocol for flood project review, including NOI permitting and subsequent steps towards approval.	Follow in-house protocol for the review of flood projects to ensure that new projects consider water quality improvements.
Revised				The Causeway Street culvert was replaced in July 2013.	Replace culverts as necessary and as funding allows.
					Continue to apply for flood control project grants to replace flooded infrastructure.
60	Conduct Town Employee Stormwater Training	DPW	Attendance Sheet & Copy of Program.	SPCC and NPDES Phase II Stormwater Training took place in August 2013.	Continue to conduct SPCC and stormwater training for DPW employees. Establish a Stormwater
Revised					Training program and track attendance annually.

6a. Additions

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 11	Next Permit Term
		Name			
6P	Additional Covered	DPW	Written/ photo	Sanding and other outdoor equipment	Continue existing practices to store
	Storage for Sanders		documentation	was stored under cover to minimize	equipment under cover.
	& Equipment			stormwater contact.	
Revised					
6Q	Roof Repairs to	DPW	Written/ photo	This was completed in Permit Year 5.	Ensure chemicals are stored in an
	Improve Good		documentation	No additional changes were made.	adequate facility.
	Housekeeping for				
	Water Treatment				
	Chemicals				
Revised					

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 11	Planned Activities – Next Permit Term
Revised					

7a. One addition at this time.

BMP	BMP Description	Responsible	Measurable Goal(s)	Progress on Goal(s) –	Planned Activities –
ID#		Dept./Person		Permit Year 11	Next Permit Term
		Name			
7A	Develop a Water	DPW,	Summary of pollution	As discussed in previous reports, the	Incorporate the preliminary TMDL
	Quality Strategy for	Conservation	prevention efforts,	Town developed a preliminary strategy	strategy into the SWMP Update that
	303d Waters	Commission,	future needs, and	to meet TMDL requirements for the	will be required following the permit
		and Consultant	responsible parties.	Charles River and impairments for	re-issuance. Consider new
Revised				Bogastow Brook, considering existing	information available from studies in
				actions under the current program and	the Charles River Watershed.
				available resources. The Town	
				evaluated program and funding needs	
				for the next permit term and decided to	
				incorporate the preliminary strategy	
				into the SWMP Update that will be	
				required following the permit re-	
				issuance.	

7b. WLA Assessment

Three 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; the Pathogen TMDL for the Charles River Watershed, CN 0156.0, January 2007; and the Nutrient TMDL for the Upper/Middle Charles River, CN 272.0, May 2011. Bogastow Brook is listed as impaired for pathogens and was addressed as part of the Charles River pathogen TMDL. The recommendations in this TMDL apply to Bogastow Brook. In general, the Town is working to address identified sources that contribute to the impairment of water bodies and notable accomplishments in Year 11 include and continued I/I activities throughout Town.

The Town has reviewed the requirements of the draft Phase II Permit for North Coastal Watersheds and considered previous work/ progress under the current program to develop a preliminary outline of activities to meet these permit requirements and address water quality objectives outlined in the TMDLs. It appears that the preliminary TMDL strategy previously developed by the Town's consultant is generally consistent with the proposed Phase II Permit requirements with respect to the elements of a Phosphorous Control Plan (PCP), for example. The Town developed an outline of program needs over the 5-year permit term and a budget for the first year of the permit. Further action is pending the release of the final Phase II Permit for North Coastal Watersheds.

Part IV. Summary of Information Collected and Analyzed

- Number of Outfalls Inspected for Illicit Discharges: N/A, addressed in Year 8.
- Number of Outfalls Re-sampled: N/A
- Number of Illicit Discharges Found: 3 identified during this permit term
- Millis Beautification Day (4/12/14): volunteers removed 113 cubic yards of trash and brush: 200 leaf bags, 140 bags of trash, 5 small dump truck loads of brush 1 couch and 2 TVs.
- CRWA Earth Day Cleanup Event (4/26/14): 35 volunteers from Millis, 35 gallon trash bags.
- 930 catch basins were cleaned, generating 145 yards of catch basin cleanings during this permit term.
- All streets in town were swept, generating 25 yards of street sweeping cleanings during this permit term.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures	(\$)	~\$35,000

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	100%
Stormwater management committee established	(y/n)	N
Stream teams established or supported	(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	Y
Household Hazardous Waste Collection Days		
days sponsored	(#)	1*
community participation	(%)	13 cars
material collected	(tons or gal)	5 full carloads
		7 partial carloads
School curricula implemented	(y/n)	N

^{*}The Town of Millis participates in a monthly joint Household Hazardous Waste Collection Day with the Town of Norfolk. Residents can bring one car load of wastes to the event for a cost of \$50. Thirteen (13) Millis residents used the Norfolk hazardous waste collection facility during the permit year.

Legal/Regulatory

	In Place	Under	Drafted	Adopted
	Prior to	Review		
	Phase II			
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

Outfall mapping complete	(%)	100%
Estimated or actual number of outfalls	(#)	148 mapped
System-Wide mapping complete	(%)	100%
Mapping method(s)		
■ Paper/Mylar	(%)	
■ CADD	(%)	
• GIS	(%)	100%
Outfalls inspected/screened	(# or %)	0
Illicit discharges identified	(#)	3
Illicit connections removed	(#)	3
	(est. gpd)	
% of population on sewer	(%)	50%
% of population on septic systems	(%)	50%

Construction

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

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100%
construction stormwater control		
Site inspections completed	(# or %)	Multiple
Estimated volume of stormwater recharged	(gpy)	Not Assessed

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	1-2/yr*
Total number of structures cleaned	(#)	930
Storm drain cleaned	(LF or mi.)	NA
Qty. of cleanings /debris removed from storm sewer infrastructure	(lbs. or tons)	145 CY
Disposal or use of cleanings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		DEP BUD
Cost of cleanings disposal	(\$)	\$0
*Some drainage structures in the downtown area are cleaned more frequently based on the rate of sediment accumulation and historical flooding issues.		

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	1/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	1-2/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	25 CY
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	DEP BUD
Cost of sweepings disposal	(\$)	\$0
Vacuum street sweepers purchased/leased	(#)	1 owned
Vacuum street sweepers specified in contracts	(y/n)	N

Operations and Maintenance (con't.)

Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)*		
 Fertilizers 	(lbs. or %)	0
 Herbicides 	(lbs. or %)	0
 Pesticides 	(lbs. or %)	0

^{*}The DPW performs routine inspections of town-maintained lands for pest persistence and promotes the use of cultural management techniques for pest and turf management in an effort to minimize the use of chemicals. The Town continued its reduced chemical applications at fields from 4 at the start of the program to 2 applications during this permit year.

Anti-/De-Icing products and ratios	% NaCl	No deicing
	% CaCl ₂	catalysts other
	% MgCl ₂	than road salt
	% CMA	are used.
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Zero Velocity
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)	N