Municipality/Organization: Town of Westford, MA

EPA NPDES Permit Number: MA041232

MADEP Transmittal Number: W-035577

Annual Report Number 12 & Reporting Period: April 1, 2014 - March 31, 2015

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Paul Starratt, P.E.	Title: Town Engineer	
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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:	Ann	
Printed Nam	ne: Jodi Ross	
Title: Town	Manager	
Date: April	21, 2015	

Part II. Self-Assessment

As of the end of Permit Year 12, the town of Westford has achieved all measurable goals for the BMPs selected in the 2003 Notice of Intent as well as those BMPs added in subsequent years. Below are some highlights of the initiatives and stormwater related advancements made over the last year.

On June 19, 2014 the town held its 4th Annual Strategic Planning Retreat at Kimball Farm in Westford. The retreat is a town-wide event designed to give local residents and business owners the opportunity to interact and engage with town staff and local officials on important, relevant town subjects. One of the main retreat topics entitled "Protecting and Improving Our Water Resources" was sponsored by the Westford Engineering and Water Departments. After an introductory presentation by the Town Engineer and Water Superintendent, the audience was split up into small breakout discussion groups facilitated by town staff. The focus of each group discussion included: 1) understanding what stormwater runoff is and how it directly impacts the quality of our waterbodies, natural resources and drinking water; 2) local, state and federal requirements that currently regulate stormwater management; 3) upcoming changes on how stormwater and drinking will need to be managed in the near future and how those changes will impact the town; and 4) status of ongoing town initiatives, including the advancement of a Stormwater Management Master Plan and a Healthy Lakes and Ponds Initiative, aimed at improving the town's waterbodies and natural resources. Many different public education and outreach materials were also made available to all attendees including: stormwater related posters, water resource management leaflets, Westford Stream Team information, fact sheets and feedback questionnaires. The retreat was considered an overall success that not only provided the general public with a better understanding of stormwater and stormwater management related issues but also gave residents and business owners the ability to provide valuable feedback and suggestions in a comfortable social setting. There was a consensus among participants that healthy natural resources increases the quality of life in Westford. Event Link: http://westfordma.gov/pages/government/towndepartments/westfordma_townmanager/retreat

The Westford School Department, with the support of the Engineering Department and another local engineering company, constructed a new student drop-off driveway and drainage improvement project at one of the local elementary schools during the fall of 2014. The purpose of the project was to not only improve student safety but to also improve historical flooding and erosion problems associated with untreated stormwater runoff from a large paved parking lot. The project included the construction of an infiltration basin and water quality swales designed to promote groundwater recharge, reduce peak runoff rates and volumes, reduce flooding conditions, and stabilize soil to eliminate erosion issues. The location of the project is in a highly visible student drop-off area near the school's entrance which has given the school teachers the opportunity to incorporate the stormwater system *Town of Westford NPDES PII Small MS4 General Permit Annual Report* Page 2 of 24 MADEP Transmittal Number: W-035577

improvements into their lesson plans.

The Town of Westford continued its participation as a founding member of the Northern Middlesex Stormwater Collaborative (NMSC). The NMSC has experienced continued success over the last year and has proven to be a very valuable resource for the Town of Westford. Some of the notable collaborative achievements this year included: 1) received a "2014 Best Stormwater Idea in New England STORMY Award" recognizing NMSC's innovative ways of managing stormwater on a regional level; 2) sponsored several training workshops on topics such as: "Illicit Discharge and Good Housekeeping Training", "Stormwater Workshop for Local Boards and Officials – Learn How to Make a Difference in Your Community", and "Green Infrastructure / Best Management Practices Training Session"; 3) expanded NMSC membership to include four new communities increasing the overall membership to thirteen cities & towns; and 4) created two stormwater videos to serve as public service announcements for the greater Lowell region. In December of 2014 the NMSC invited Thelma Murphy, EPA's Regional Stormwater Coordinator, to attend one of the collaborative's monthly meetings to discuss the new draft MS4 permit. This meeting gave the member communities the opportunity to interact directly with the EPA in order to gain a better understanding of the proposed permit changes, to ask questions, and to provide the EPA with constructive feedback on both the current and future MS4 program.

A \$194,000 contract was finalized with the town's stormwater consultant, Tighe & Bond, and work began on the Stormwater Management Master Plan (SMMP) project. To date a considerable amount of work and effort has been put into the project including: data information gathering, good housekeeping inspections of town facilities, stormwater advisory group meetings, preliminary review of the town's infrastructure mapping, preparation of educational outreach and SMMP branding materials, and the development of a draft budgetary planning estimate for Westford to comply with the first five years of EPA's next MS4 General Permit.

Westford's Healthy Lakes & Ponds Collaborative (WHLPC) is continuing to make positive strides in protecting the town's waterbodies and natural resources. Some of the highlights from the past year include: creation of a WHLPC website and newsletter; regular stakeholder meetings, updates to the town's "Lakes and Ponds Management and Preservation Program Plan"; and award of \$139,700 in CPC funds at Westford's 2015 Annual Town Meeting for a Healthy Lakes & Ponds Restoration Plan. The WHLPC also hosted a "Healthy Lakes & Ponds 101" informative session focused on how to keep lakes and ponds healthy through education, prevention and action. The session was open to the general public and included presentations from representatives from Massachusetts Department of Conservation and Recreation and Massachusetts Department of Public Health.

Other stormwater related highlights from this past reporting year included: Conservation Commission funds were approved for a water quality monitoring program within the Stony Brook and Nashoba Brook watersheds, a two-day wastewater training workshop was hosted by the Board of Health for local Title V professionals, a stormwater sampling training workshop focused on IDDE and IDDE field sampling procedures was sponsored by the Engineering Department, and a septic system and drinking water well basics informational and Q&A session was held hosted by the Board of Health for local residents and businesses. The Engineering Department was also able to hire a summer intern to assist existing staff with IDDE field investigations for critical outfall locations across town. The IDDE investigations included visual inspections of outfalls and drainage infrastructure as well as dry weather screening activities. The intern was also responsible for reviewing and updating existing stormwater infrastructure mapping using GIS.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
1A Revised	Stormwater Flyer for Residents	SuAsCo & Westford DPW	Flyers distributed to 75% of residents, compiled & considered "survey" results.	Flyers were mailed in year 1 to all residents. The same flyers were placed on display at the Town Hall. (SuAsCo). Clean Water Matters: It Begins With You blurb mailed to all Westford Residents in January 2015	Continue displaying flyers at public places. Join mailing opportunities with Town Clerk's Office, Water Department and Town Manager's Monthly Newsletter.
				Census Newsletter.	
1B	Lesson Plan for 5 th Graders	SuAsCo & Westford DPW	Develop & distribute lesson plan, teach in one or more grade 5 classes.	The Westford Engineering Department continued to use the SuAsCo curriculum "Stormwater Matters" to teach an introductory lesson plan to all	The Westford Engineering Department has elected to continue the lesson plan on an annual basis with assistance from local schools.
Revised			Continued beyond Year 5 based on success of program.	grade 5 classes during the 2014-2015 Living Lab program.	Every 5 th grader in the Westford Public Schools participates.
1C	Stormwater Flyer for Businesses	SuAsCo & Westford DPW	Flyers distributed to 50% of businesses, stormwater logo displayed by 25% of businesses.	Stormwater Matters local business flyer, as prepared by SuAsCo, mailed to 450 business addresses in Westford in Year 8.	Continue to promote stormwater awareness to the local business community.
Revised					
1D	Stormwater Media Campaign	SuAsCo & Westford DPW	Media information packet, 4 press releases generated.	Implemented SuAsCo Year 6 product Survey and display for Stormwater "Go Green" product at Special & Annual	Continue to implement and utilize SuAsCo Year 1-6 products and display products at Special & Annual
Revised			~~~~~~	Town Meetings.	Town Meetings and at other appropriate community meetings.

1E	Stormwater Video	SuAsCo & Westford DPW	Show video at one public meeting and once on local cable.	Two new Public Service Announcements videos were prepared by Northern Middlesex Stormwater	Broadcast stormwater PSAs on local access TV and continue to post video links on Westford's stormwater
Revised				Collaborative (NMSC). Links to the videos are posted on the Westford stormwater website at stormwater@westfordma.gov.	website. Re-broadcast <i>Reining in the Storm</i> on local access TV.
1F	Recycling/Trash Info. on Website	Recycling Commission	Update website regularly, display pamphlets in Town Clerk's Office	The Recycling Commission updated the website as needed. www.westfordrecycles.org/ Collection calendar at Clerk's Office.	Continue website updates and display pamphlets in Town Clerk's Office. Continue to support Westford's Litter
Revised				Westford Litter League Green Team continues to remove trash across the town. Information can be found on Recycling Commission's website.	League. Information can be found on Recycling Commission's website.
1G Revised	Recycling/Trash Mailing to Residents	Recycling Commission	Mail to 75% of residents and display pamphlets in Town offices.	Pamphlets were mailed to all residents and copies were made available at the Town Hall and on the town's website.	Continue mailings and displaying pamphlets at public places and on town website at http://www.westfordrecycles.org.
1H	Advertise HHW Info. in Community Phonebook	Recycling Commission	Copy of advertisement in the phonebook.	Information about the household hazardous waste collection was	Continue to advertise the proper method of disposal for hazardous
Revised	Community Phonebook	Commission		advertised in the local phonebook (2014 Westford Directory) and available on the Town's Recycling Commission's website.	household wastes.
1I Revised	Advertise Brush/Multi Collection on Cable and in Paper	Recycling Commission	Copy of advertisement on cable, website and local paper.	The brush and multi collection events were advertised on cable, website, the local paper, roadside signs and local phone directory.	Continue advertising the brush and multi collection events.
1J	Leaf Dumping Article in Paper	Conservation Commission	Copy of article in local paper once per year.	An article discussing the proper disposal of leaves and yard waste	Continue placing the leaf dumping article in the Westford Directory.
Revised			Posted on Cons-Comm website	published in 2014 Westford Directory.	

1K	Leaf Dumping Pamphlet to Public	Conservation Commission	Copy of pamphlet, # of residents reached.	Contact information for leaf disposal and compost published in local phone	Continue publishing information on proper leaf disposal and composting.
Revised			Publish leaf disposal notice in local phone book	book (2014 Westford Directory).	
1L	Leaf Dumping Pamphlet at Events	Conservation/ Water/ Board of Health	Pamphlet displayed at two events.	Conservation Resource Planner distributed pamphlets to various residents suspected of leaf dumping.	Continue to distribute leaf dumping Pamphlets at various town events and to residents suspected of leaf
Revised				Pamphlets displayed at 2013 Water Department Open House and Environmental Health and Wellness Expo (open house is held every other year).	dumping.
1M	Fertilizer Pamphlet to Businesses	Water Department	Copy of pamphlet, distributed to all landscaping businesses.	Enforced town pesticide policy.	Continue to eliminate where possible and otherwise minimize the use of pesticides on town-owned land and to encourage the same on private-owned
Revised	Town of Westford Pesticide Policy		Develop Pesticide Policy for Town of Westford		land. Continue to enforce Pesticide Policy.
1N	Fertilizer Info. in Newsletter	Water Department/ Engineering	Copies of semi-annual newsletters discussing fertilizers.	Healthy Lawns for Healthy Families fertilizer information provided on Water Department's website. Fertilizer	Continue promoting Healthy Lawns for Healthy Families and include fertilizer information in semi-annual
Revised				info provided in the Water Department's November 2014 newsletter. Fertilizer information also provided on WHLPC website at and in the WHLPC newsletter.	newsletters and posted on Water Department website.
10 Revised	Septic System Pamphlets in Water Department	Water Department	Pamphlets available at Water Department at all times.	Septic system Pamphlets were made available at the Water Department throughout the year.	Continue to make septic system pamphlets available.

1P Revised	Septic System Pamphlets at Events	Water Department/ Board of Health	Display pamphlets at two events.	The septic system educational pamphlet was made available at the Board of Health Department and Water Department. Pamphlets were also made available at 2013 Water Department Open House and Environmental Health and Wellness Expo (open house is held every other year).	Continue displaying pamphlet at the Board of Health and Water Department in addition to displaying at other town events.
1Q	Hazardous Material Bylaw Info. on Website	Board of Health	Maintain website regularly.	Hazardous Material Bylaw was updated and approved at 2014 Annual Town	The Board of Health is currently developing regulations to support the
Revised				Meeting and subsequently through the MA State Attorney General in October 2014. Info on the updated bylaw is posted on the Town's Health Department website.	updated Bylaw. Continue postings information related to the Hazardous Material Bylaw and regulations on the Health Department's website.

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12	Planned Activities – Interim Period
		Name		(Reliance on non-municipal partners indicated, if any)	
2A	Stormwater Traveling Display	SuAsCo & Westford DPW		Completed in Year 1. SuAsCo "Go Green" display used at Annual Town	Continue using the displays and pamphlets Annual Town Meeting,
Revised				Meeting, Special Town Meeting and Water Department Open House.	Special Town Meeting, Water Department Open House and other appropriate public events.

2B	Poster Contest for Fifth Grader	SuAsCo & Westford DPW	Poster contest is held and entries are received, judged and displayed in year 2.	Conducted Water Department 4 th Grade Poster Contest with a water conservation and pollution prevention theme as part of the Water	Continue 4 th Grade Poster Contest.
Revised	Revised to 4 th Graders	Westford Water Department		Department's open house in 2013 (open house is held every other year). Winning posters are displayed on the Water Department website.	
2C	Poster Contest for High Schoolers	SuAsCo & Westford DPW	Poster contest is held and entries are received, judged and displayed in year 3.	NOI specified to begin this BMP in Permit Year 3. Eliminated from Year 3 product by SuAsCo. Water Department holds Poster Contest for 4 th Graders	BMP determined to be infeasible and was replaced by BMP 2B in Permit Year 3.
Revised		Eliminated from Year 3 product by SuAsCo.		under BMP 2B. BMP 2B achieves the goals of this BMP previously determined to be infeasible.	
2D	Local Stormwater Summit Event	SuAsCo & Westford DPW	Hold local multi- community summit in year 4.	Completed in Year 4.	Continue information sharing with other stakeholders across the Nashoba Brook sub-basin.
Revised		SuAsCo W. C. C. Land and Habitat Working Group			
2E	Stormwater Super Summit Event	SuAsCo & Westford DPW	Municipal participation in the Super Summit, stormwater "survey" to 75% residents, compiled & considered results.	Stormwater Super Summit eliminated from SuAsCo Year 5 product	Reevaluate possibility of a future summit with SuAsCo.
Revised					
2F	Curbside Recycling	Department of Public Works	Continued Town service.	Curbside recycling was picked up every other week.	Continue Curbside Recycling program.
Revised					

2G Revised	In Town HHW Drop- off	Department of Public Works	Hold at least one event per year. Every other year.	Electronics Collection was on 5/17/14 & 9/13/14 at the Westford Highway Facility. Household hazardous waste collection event occurred on 11/8/14 (held every other year).	Hold HHW event in Westford in fall of 2016.
2H	HHW Drop-off in Lexington	Department of Public Works	Advertise service on the Town website and in flyers.	Advertised on Recycling Commission website at www.westfordma.gov and in the 2014 Westford Directory.	Continue to advertise and promote HHW collection opportunities.
Revised			Also advertise in local phone book.		
2I Revised	Leaf Drop-off at Laughton's Nursery	Department of Public Works	Continue service of leaf drop-off. Advertise on the Town	Laughton's Nursery is no longer in business. Leaf pick up was available for drop-off at Red Wagon Landscaping	Continue to advertise leaf drop-off and pick up options available on the town's website.
			website.	(Lowell), Jones Farm (Chelmsford) and BMC Corp. (Tewksbury) for a fee. Leaf pickup in Westford was available through Acme Waste Systems for a fee. All drop-off and pick up options were advertised on the town website.	
2J	Brush Drop-off in Westford	Department of Public Works	Hold one collection in April and October.	Brush chipping service provided on 4/26/14 & 10/18/14 at Westford	Hold at least two collection events.
Revised				Highway Facility.	
2K	Multi-Collection Events	Dep't of Public Works/Board of Health	Hold one multi- collection event twice per year.	Electronic devices were collected at the Highway Department on 5/17/14 & 9/13/14.	Continue to collect electronic devices at events twice per year.
Revised					
2L	Mercury Drop-off at Board of Health	Board of Health	Collect mercury devices in the Board of Health office daily.	The Board of Health office was open daily to receive mercury-containing devices.	Continue mercury drop-off program.
Revised					

2M Revised	Mercury Drop-off at Multi-Collection Event	Department of Public Works	Hold one multi- collection event twice per year. Mercury Drop-off available at Board of Health Office.	Small mercury-containing devices were collected at the Board of Heath Department counter. Mercury drop-off information available on the Westford Recycling Commission's website.	Continue Mercury Drop-off at Board of Health office and advertise on town website.
2N	Public Meetings	Department of Public Works	Advertise and hold at least one public meeting every year for stormwater.	A town-wide strategic planning retreat was held on June 19, 2014 with one of the major discussion topics focused on stormwater and protecting our water	Hold a public meeting to inform residents of the stormwater program.
Revised		Engineering Department		resources. The retreat was a public meeting open to all Westford residents and business owners. See the self- assessment section of this report for more detailed information.	
20	Stormwater Contact	Highway Department	Establish contact and include information in pamphlets and on the Town's website.	The Town Engineer was identified as the stormwater contact regarding pollution and complaints in Year 1. Information was posted on the town's	Update information as needed and continue to include stormwater contact information on the town's website. Include contact information
Revised	Procedure to Address Public Comment		Record of calls and issues addressed.	website. Established stormwater email contact: <u>stormwater@westfordma.gov</u> .	in educational pamphlets.

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
3A Revised	Storm Sewer Map	Highway Department/ GIS Engineering	Expand and field verify all outfalls by year 5.	Stormwater Map completed. The Stormwater Map includes the location of all drainage structures (catch basins, drainage manholes) outfalls receiving	Maintain GIS database and continue to improve Stormwater Mapping as additional information is collected.
		Department/ GIS		drainage manholes), outfalls, receiving waters and some connectivity.	
3B	Illicit Discharge Bylaw	Engineering/ Conservation	Present draft bylaw to public in year 4, adopt in year 5.	Illicit Discharge Bylaw completed and adopted in 2008.	Continue to enforce Illicit Discharge Bylaw.
Revised		Board of Health	-	•	
3C	Detection & Elimination Plan	Highway Department	Screen 25% of outfalls each year in 4 divided sections of Town.	A summer intern was hired to assist the Engineering Dept. with the ongoing implementation of the town's written	Continue to screen and inspect outfalls for illicit discharges. Continue to implement the IDDE
Revised			Prioritize areas of known water quality problems for inspections and removal of illicit discharges.	IDDE plan including field inspections and screening outfalls in critical areas of the town. Information and data collected was used to update GIS maps.	plan developed by Woodard & Curran. Obtain Town Meeting approval to fund summer intern position.

3D	Illicit Discharge	SuAsCo/Public	Continued public	Clean Water Matters: It Begins with	Continue public education during the
	Education for Public	Works/	education under	You (including a pollution warning and	SMMP development process.
		Highway/	Control Measures 1	information on the town's ongoing	Support and encourage public
		Water/Board of	and 2.	development of a town-wide	participation and involvement in
		Health		Stormwater Management Master Plan	local Stream Teams and groups that
Revised			Partner with Westford	(SMMP) was mailed to all Westford	promote environmental awareness
			Environmental News	Residents in 2015 Census Newsletter.	and activism.
			and Action Committee		
			(WENAC) and the		
			Organization for the		
			Assabet River (OAR).		
3E	Illicit Discharge	Highway	Education for	Westford hired Woodard & Curran to	Continue municipal employee
	Education for	Department	employees under BMP	conduct a Stormwater Sampling	training programs.
	Municipal Employees		6Н.	Training seminar on June 19 th , 2014.	
Revised				The seminar focused on identifying	
				illicit discharges as well as providing	
				instructions on how to collect and	
				analyze field samples aimed at	
				detecting pollutants. The seminar was	
				designed to support the 2012 IDDE	
				Plan prepared by Woodard & Curran	
				for Westford. Other local communities	
				were also invited to attend the seminar.	
				A custom Stormwater Sampling Manual	
				was also prepared for the town and	
				provided to all attendees.	

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
4A	Wetlands Bylaw	Conservation Commission	Continue to implement existing Wetlands Bylaw.	The Town of Westford Conservation Commission enforced the Westford Wetlands Bylaw and Regulations.	Continue enforcement of Wetlands Bylaw and Regulations.
Revised					
4B	Construction Site Runoff Bylaw	Engineering/ Planning/ Conservation	Present draft bylaw to public in year 4, adopt in year 5.	Stormwater Management Bylaw adopted at Special Town Meeting on May 10, 2008 and approved by	Continue enforcement of Stormwater Management Bylaw and Stormwater Management Regulations.
Revised				Attorney General on August 5, 2008. Stormwater Management Regulations adopted by the Planning Board in November 2012. During Permit Year 12, Town continued to implement permitting process defined in bylaw and require projects to manage stormwater runoff during construction.	
4C	Erosion, Sediment & Waste Controls	Engineering/ Planning/ Conservation	Copies of meeting minutes and memos. Improved site controls in year 4.	Stormwater Management Bylaw adopted at Special Town Meeting on May 10, 2008 and approved by Attorney General on August 5, 2008.	Continue enforcement of Stormwater Management Bylaw and Stormwater Management Regulations.
Revised				Stormwater Management Regulations adopted by the Planning Board in November 2012. The Bylaw and Regulations include requirements to control constructions wastes (e.g. building materials, litter, sanitary waste).	

4. Construction Site Stormwater Runoff Control

4D Revised	Site Plan Review Procedures	Engineering/ Planning/ Conservation	Improved site plan review procedures in year 4.	Site plans are currently reviewed by the Engineering Department and Conservation Commission for erosion and construction site runoff BMPs as well as for compliance with the Stormwater Management Standards. Site Plans are also reviewed and discussed with a Technical Review group comprised of town staff from various Departments along with developers.	Continue to review Site Plans in accordance with Site Plan Review Bylaw, Wetlands Bylaw & Stormwater Management Bylaw procedures. Also continue to hold Technical Review meetings with developers and designers to evaluate site plan criteria and incorporate Stormwater Regulations during early stages of design.
4E Revised	Site Inspection & Enforcement	Engineering/ Planning/ Conservation	Records of current enforcement actions, site inspection procedures for all land disturbance >1 acre.	Site inspection procedures for land disturbances > 1 acre enforced as outlined in the Stormwater Management Regulations and in accordance with the mandatory SWPPP. Active sites are inspected on a daily to weekly basis depending on site activity and weather conditions.	Continue enforcement of Stormwater Management Bylaw & Stormwater Management Rules & Regulations.
4F	Construction Site Contact	Highway Department	Establish contact and include information in pamphlets and on the Town's website.	The Town Engineer was identified as the stormwater contact regarding pollution prevention, complaints and construction runoff in Year 1.	Update information as needed and continue to include stormwater contact information on the town's website. Include contact information
Revised	Procedure to Address Public Comment		Record of calls and issues addressed.	Established stormwater email contact at stormwater@westfordma.gov.	in educational pamphlets and stormwater related mailings.

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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
5A	Post-Construction Site Runoff Bylaw	Engineering/ Planning/ Conservation	Present draft bylaw to public in year 4, adopt in year 5.	Planning Board continued to issue Stormwater Management Permits under the Stormwater Management Bylaw &	Continue enforcement of Stormwater Management Bylaw and Regulations.
Revised				Stormwater Management Regulations, including SWPPP with O&M requirements.	
5B	Structural & Non- Structural BMPs	Engineering/ Planning/ Conservation	BMP design standards specific to the Town of Westford.	BMP design standards were incorporated in the Stormwater Management Rules & Regulations as	Hold meetings with local developers and project designers to evaluate BMPs and design standards.
Revised	BMP Design Standards			adopted on November 5, 2012.	
5C Revised	Long-Term Operation & Maintenance	Engineering/ Planning/ Conservation	O&M Plan/template and procedures required for new and redevelopment	O&M standards were incorporated in the Stormwater Management Regulations, including a requirement to record applicable Operation & Maintenance agreements. The Regulations also include provisions to require continuing inspection and maintenance and submitting reports on inspections to the Planning Board.	Oversee compliance of O&M plans for all projects subject to the Stormwater Management Rules & Regulations.
5D	Structural BMP Implementation Procedures	Engineering/ Planning/ Conservation	Inspection and enforcement procedures to ensure BMPs are installed properly.	Structural BMP's installed and inspected for compliance with the Stormwater Management Rules & Regulations.	Continue inspections for compliance.
Revised			+**		

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Interim Period
6A	Catch Basin Schedule	Highway Department	Clean all catch basins and prioritize locations for cleaning.	All catch basins were cleaned in town at least once and twice on hills. Catch basins are visually inspected during	Continue catch basin cleaning and inspection program annually. Continue documenting structure
Revised				cleaning to ensure proper function of the drainage system and to identify any potential illicit discharge connections.	conditions and sediment data for future cleaning and maintenance priorities. Continue to identify illicit discharge connections.
6B	Regular Street Sweeping	Department of Public Works	Sweep streets a minimum of twice per year.	All streets were swept twice a year in town.	Continue street sweeping program annually.
Revised		Highway Department			
6C	Sand/Salt Covered	Highway Department	Sand and salt storage is covered.	Sand and salt storage continued to be covered.	Continue to cover sand and salt.
Revised					
6D	Used Oil is Recycled	Highway Department	Waste oil recycling at the Highway Facility is permitted.	The Highway Department maintained permit compliance for the waste oil heater and recycling operation.	Continue existing practices for waste oil recycling to maintain permit compliance.
Revised					
6E	Municipal Hazardous Material Stored Inside	Highway Department	All hazardous materials are stored indoors.	The Highway Department stored all hazardous materials indoors.	Continue to store all hazardous materials indoors.
Revised					

6F Revised	Implement SWPPP at Garage Implement SWPPP BMPs at Garage	Highway Department	SWPPP implemented and maintained. SWPPP BMPs implemented.	The Highway Department implemented BMPs outlined in the Garage SWPPP.	Continue existing practices for pollution prevention and good housekeeping.
6G Revised	Increase Vehicle Fueling Cover	Highway Department	Increase cover until new facility is constructed.	Occupied new facility in September 2006. Facility includes a covered fueling station.	Utilize covered fueling station at the new DPW Facility.
6H Revised	Municipal Employee Training	Highway Department	All Highway Department employees trained annually, record of attendance sheet. Copy of training program	An Illicit Discharge Detection and Elimination (IDDE) and Good Housekeeping & Pollution Prevention training workshop was conducted by Nobis Engineering, Inc. at the Westford Highway Facility on May 12, 2014.	Continue providing training programs, incorporate new topics, and expand programs as appropriate.
6I Revised	Municipal Operation/ Maintenance Plan	Highway Department	Improved operations at municipal facilities and throughout Town.	The town's Hazardous Materials Storage Bylaw was updated and approved at 2014 Annual Town Meeting. The updated bylaw now requires improved reporting & record keeping, regular inspections, yearly permitting and more stringent storage practices. Municipal facilities are also evaluated on a regular basis for pollution issues.	Continue to follow the requirements of the updated Hazardous Materials Storage Bylaw as well as the new supporting regulations once completed and approved. The SMMP will include a comprehensive inventory and evaluation of municipal activities and facilities and a plan with recommendations/SOPs for pollution prevention practices.

6J	Mosquito Control	Engineering/	Record of improved	Through the efforts of the Central	Continue mosquito control program.
	Project & Drainage	Conservation	drainage system	Massachusetts Mosquito Control	
	System Maintenance		inspection and	Project, brush and other accumulated	
			maintenance.	debris was removed from culverts and	
				streams to ensure proper flow	
				conditions and reduce the amount of	
				stagnant water available for mosquito	
				breeding.	
Revised					

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA)

Not Applicable - There are no final TMDLs at this time, however Westford continues to evaluate the impairment status of receiving waters. See below.

7a. No additions at this time.

7b. WLA Assessment

Forge Pond and Nabnasset Pond are classified as Category 4A Waters "TMDL is complete" and Beaver Brook, Deep Brook, Heart Pond, Nashoba Brook, Stony Brook, and Tadmuck Brook are classified as Category 5 Waters "Waters requiring a TMDL" based on the Final Massachusetts Year 2012 Integrated List of Waters.

In 2012 Woodard and Curran prepared a "Receiving Waters Impairment and TMDL Update" report which served as an update to the Watershed Action Plan (WAP) developed for the town in 2007. The update provided a summary of water quality impairments in Westford including pollutant sources, applicable TMDLs and respective waste load allocations, and classification under the State Surface Water Quality Standards. The update also outlined the EPA's General Permit requirements applicable to impaired waterbodies and TMDLs. The report also summarized recommended BMPs for pollutants of concern for each impaired waterbody.

Water quality concerns associated with the town's impaired waters are and will continue to be addressed through the implementationTown of Westford NPDES PII Small MS4 General Permit Annual ReportPage 19 of 24MADEP Transmittal Number: W-035577Page 19 of 24

of recommended BMPs as well as the implementation of BMPs specified under the six minimum control measures for Phase II, as outlined in the Westford Stormwater Management Plan (SWMP). The Stormwater Management Master Plan (SMMP) currently being developed by Tighe & Bond will review the status of surface waters within the town and provide further recommendations on addressing existing impairments. Tighe & Bond will also provide the town with TMDL recommendations including the potential need and costs for future retrofit projects.

Part IV. Summary of Information Collected and Analyzed

Approximately 75 drainage structures/pipes were inspected in the field for illicit discharges as part of the town's IDDE plan. Catch basins were also inspected by the Westford Highway Department during catch basin cleaning activities. The Highway Department would notify the Engineering Department of any suspicious pipes or connections observed.

Part V. Program Outputs & Accomplishments (OPTIONAL)

A summary of the significant program outputs and accomplishments can be found under the Part II. Self-Assessment section of this report.

Programmatic

Stormwater management position created/staffed	(y/n)	No
Annual program budget/expenditures (Fiscal Year)	(\$)	\$88,500****

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	Households*
Stormwater management committee established	(y/n)	Yes**
Stream teams established or supported	(# or y/n)	Yes
Shoreline clean-up participation or quantity of shoreline miles cleaned	(y/n or mi.)	2.5 Miles***

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Household Hazardous Waste Collection Days		
 days sponsored 	(#)	See Section
		2G
 community participation 	(%)	U.K.
 material collected 	(tons or gal)	U.K.
School curricula implemented	(y/n)	Yes: 5 th Grade
* 2015 Census Newsletter mailing sent to every Westford Household.		
** Northern Middlesex Stormwater Collaborative, Healthy Lakes & Ponds Collaborative & Stormwater Management Mas	ter Plan Advisory G	oup (SwAG).
*** Nabnasset Improvement Association & Friends of Forge Pond Annual Clean Up		
**** Does not include \$194,000 Stormwater Management Master Plan multi-year contract reported in year 11 report		

Legal/Regulatory

	In Place Prior to	Under		
	Phase II	Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")				
Illicit Discharge Detection & Elimination				X
Erosion & Sediment Control				Х
 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	(#)	616
System-Wide mapping complete	(%)	100%
Mapping method(s)		
 Paper/Mylar 	(%)	
 CADD 	(%)	
 GIS 	(%)	100%
Outfalls inspected/screened	(# or %)	100%*
Illicit discharges identified	(#)	4
Illicit connections removed	(#)	4
	(est. gpd)	(U.K.)
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%
*The Westford Highway Department inspects stormwater outfalls on an annual basis for drainage and systematically inspecting outfalls for illicit discharge detection and elimination.	erosion problems. The Engineering De	epartment is

Construction

Number of construction starts (>1-acre)	(#)	8
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	(#)	5

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)	100%
construction stormwater control		
Site inspections completed	(# or %)	U.K.
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
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	$1-2/\mathrm{yr}^1$
Total number of structures cleaned	(#)	3,145
Storm drain cleaned	(LF or mi.)	600 LF +/-
Qty. of screenings/debris removed from storm sewer infrastructure	(lbs. or tons)	429.91 Tons
Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)		Disposal
Cost of screenings disposal	(\$)	\$7,093.52
1. Drainage structures in hilly areas are cleaned more frequently based on the rate of sediment accumulation.		

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)	2
Qty. of sand/debris collected by sweeping	(lbs. or tons)	159.38 Tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Disposal
Cost of sweepings disposal	(\$)	\$2,629.77
Vacuum street sweepers purchased/leased	(#)	1 owned*
Vacuum street sweepers specified in contracts	(y/n)	Y*

*The town owns 1 mechanical sweeper and contracts another sweeper when needed.

 Reduction in application on public land of: ("N/A" = never used; "100%" = Fertilizers 	(lbs. or %)	0%
Herbicides	(lbs. or %)	95%*
Pesticides	(lbs. or %)	95%*

Anti-/De-Icing products and ratios	% NaCl	U.K.
	% CaCl ₂	
<i>Ice-Ban</i> (<i>MgCl</i> ₂) <i>is applied to salt</i> (<i>NaCl</i>) <i>with a sprayer for use in de-icing activities. The town</i>	% MgCl ₂	
follows MassDOT guidelines for anti/de-icing material application.	% CMA	
	% Kac	
	% KCl	
	% Sand	
Pre-wetting techniques utilized	(y/n)	Yes
Manual control spreaders used	(y/n)	Yes
Automatic or Zero-velocity spreaders used	(y/n)	Auto
Estimated net reduction in typical year salt application	(lbs. or %)	Not Assessed
Salt pile(s) covered in storage shed(s)	(y/n)	Yes
Storage shed(s) in design or under construction	(y/n)	No