

4/30/13

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Municipality/Organization: Town of Sharon, MA

EPA NPDES Permit Number: MA041061

MaDEP Transmittal Number: W-040625

Annual Report Number

& Reporting Period: No. 8: April 1, 2012-March 31, 2013

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Peter O'Cain, P.E.

Title: Town Engineer

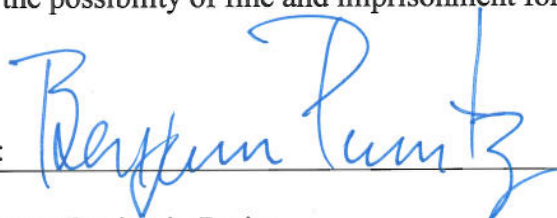
Telephone #: (781)784-1525, ext 2316

Email: pocain@townofsharon.org

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: Benjamin Puritz

Title: Town Administrator

Date: 4/24/13

Part II. Self-Assessment

The Town of Sharon, Massachusetts 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. Item 1.5, tributary signage was not done in 2012 but the signs have been ordered through our Neponset River Watershed Association education outreach coordinator and will be installed in May of 2013 (see attached sign drawings).
2. Items 1.2 and 2.8 for tributary clean-ups have not been addressed. Site walks revealed a minimal amount of litter along most streams in Sharon. An Eagle Scout just completed a catch basin "Do not Dump Drains to Stream" project that included stenciling over 1198 catch basins (see attached Spreadsheet)

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
1.1 Revised	Design and distribute S/W Educational Brochures	Town Engineer: Peter O'Cain Nancy Fyler – Neponset River	Mailing list of homes contacted All residents reached	Information on improving and reducing water use sent in water bills and maintained on town's website.	Continue to educate the public through the town website, cable TV and through water bill mailings. Add specific stormwater education to mailing pamphlets.
1.2 Revised	Recruit volunteers from mailing	Nancy Fyler Paid educator	List of volunteers	The Town has continued our education program with Ms. Nancy Fyler as a water educator in the Sharon School system. Ms. Fyler has organized a program that included the mailing of water conservation and quality. Ms. Fyler is a member of the Neponset River Watershed Association. Boy Scouts stenciled over 1100 catch basins in Sharon in 2012. Boy Scouts also inserted stormwater handout in 6000 Annual Reports mailed to every home in Sharon (see attached mailing).	Use our stormwater and water educator as a means of gathering volunteers for volunteers for stream cleanups and continue public education projects. Utilize Boy Scouts to organize stenciling, public notices dissemination and other stormwater measures.

1.3 Revised	Create Stormwater Hotline	Greg Meister	Done	Maintain hotline, # calls & record of follow-up actions	The stormwater hotline was maintained and all calls were addressed by the Stormwater Manager (Town Engineer)	Maintain stormwater hotline and track calls and follow-up actions, as needed.
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11	
1.4	Educate students	Teachers, Nancy Fyler of Neponset River Watershed Association.	Unknown	The Town has continued working with Ms. Nancy Fyler as a stormwater educator in the Sharon School system. Ms. Fyler. Has taught students water conservation, water infrastructure and has organized a program that included the posting of signs all over town regarding water conservation.	Continue education component with Ms. Fyler. Use our new water/stormwater educator as a means of gathering volunteers for stream cleanups and continue public education projects.	
Revised	Stormwater Awareness Education for Students		Lesson plan developed, # students taught			
1.5	Create tributary signage	Peter O'Cain	Signs being made	16 tributary signs will be installed in May (see attached) The signs have been ordered through Atlantic Sign Company (see attached drawings).	Post signs by June 2013.	
Revised			Signs posted at all named tributaries			

1a. Addition.

1.6	Develop stormwater web site	Peter O'Cain: Town Engineer	Continue to post stormwater information on DPW page of townofsharon.net website.	Stormwater page (in water department and DPW area of website) has been maintained and updated periodically with new topics and additional stormwater education resources.	Maintain the stormwater page and update periodically with new topics and additional stormwater education resources.	
Revised	Develop & Maintain Stormwater Web Site		Update annually & record # of hits (if feasible)			

2. Public Involvement and Participation

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
2.6 Revised	Encourage public participation through adverts and brochures	Peter O'Cain Dave Masciarelli	Make 6000 brochures and send out in water bills	A copy of the brochure was maintained on the website (refer to BMP s 1.1 & 1.6) and notices were included on the Town's cable TV station throughout the year. 6000 stormwater mailings were distributed in Town Annual Report to all homeowners and water conservation flyers distributed in all water bills. Town also has provided rain barrels, drought resistant grass seed and toilet and washing machine rebate program for many years and will continue through 2014.	Maintain brochure and notices on cable to encourage public participation. Work with our water educator will continue in 2013 and 2014. Will continue rain barrel sales, drought resistant grass seed sales. Will continue rebate program for low flow toilets and washing machines.
2.7 Revised	Stencil storm drains	Volunteers/ Highway Dept.	Stencil of town's catch basins that feed impaired waterways # drains stenciled	Eagle Scout candidate continued stenciling project. 1130 basins were stenciled in 2012.	Continue to stencil storm drains in high priority drainage areas, as possible. Encourage additional Eagle Scout stenciling in the summer of 2013.
2.8 Revised	Organize Community clean-ups of tributaries.	Nancy Fyler	At least one clean up per year. Amount of debris removed	No significant progress occurred on this task and it is unclear whether stream clean-ups are really needed. Our education organizer has started a "We love Lake Massapoag" campaign. The lake is a major distribution point for much of the fresh water in Sharon, including Canoe River and Massapoag Brook.	Organize a cleanup activity. Seek help from Boy Scouts and other groups in Town such as students at local schools. Continue water conservation programs to minimize watering, fertilization and use appropriate car washing techniques to minimize polluted and excessive runoff.
2.9 Revised	Residents assist with by-law enforcement	Volunteers Peter O'Cain	Residents report violations. # calls & record of follow-up actions	No calls were placed in 2012.	Log and track enforcement/ follow-up actions.
2.10	Initiate "adopt a drain" programs/stream monitoring	Volunteers	Record number of drains adopted.	The Town has completed dry weather outfall monitoring program has not identified dry weather outfall flows first	Multiple streams will be monitored for flow and water quality. We will continue to support existing stream/

Revised				identified as being possible risks. Follow-up inspections during dry weather did not reveal outfall flows at sites initially identified.	lake monitoring programs and track progress, as well as provide support as staff time and budget allows. Use data collected for illicit discharge identification to perform further water quality tests and identify sources of illicit discharge, if present.
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2a. Additions

3. Illicit Discharge Detection and Elimination

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
3.11 Revised	Storm water management and illicit discharge by-law.	Peter O’Cain	Town adopts by-law prohibiting non-sw discharges.	An illicit discharge prohibition by-law was previously approved at the October 2004 Town Meeting. Applications were reviewed and approved in accordance with the by-law. No new connections or enforcement actions occurred in 2012 or 2013 to date.	Continue to enforce the by-law and record corrective actions. Continue to review applications for new connections.
3.12 Revised	Develop storm drain map with outfalls.	April Forsman Peter O’Cain	Map of MS4 outfalls.	The drainage system map was updated in past years and entered into a GIS database. All outfalls, catch basins and manholes have been mapped using a GPS and are on the town GIS system.	Continue to update the drainage system map based on new information and the results of BMPs 3.14 and 3.15. Any illicit discharge locations will be added to the map database. Water quality tests will be performed on outfalls that flow in dry weather, as identified.
3.13 Revised	Develop plan to detect and address non s/w discharge. Develop a Work Plan for Illicit Discharge Detection & Elimination	DPW/Eng Dept	Plan developed Record of field inspections	We have hired an intern for inspecting outfalls for dry weather flows and none were found to be flowing in subsequent inspections.	Our intern will revisit outfalls for dry weather flows. Any with dry weather flows will be tested for water quality. Actions to determine sources of dry weather flows will be sought out, if water quality does not meet EPA and DEP water quality requirements.

3.14	Identify and document illicit outfalls.	volunteers DPW/ENG	Keep record of suspected sites.	No new information regarding dry weather outfall flows were observed for the summer of 2012.	If outfall dry weather flows are found, the Town will attempt to identify the source of flows.
Revised					
3.15	Monitor accomplishment of goals of reducing illicit discharge.	Peter O'Cain	Create spreadsheet with goals and percentage completed.	Dry weather discharges have been identified and reinspected and found not to flow upon subsequent inspection.	Continue to identify non-stormwater discharges and determine whether they pose a risk to surface waters. Permit connections as appropriate and document enforcement actions for illicit discharges. Identify dry flow discharges and determine source of water and the water quality.
Revised					
Revised					

3a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
3.16	Address non-storm discharges or flows, such as landscape irrigation, car washing and street wash water.	Peter O'Cain	Posted ways to reduce the impact of these activities on Town website, water bills and annual report mailings in 2012 and 2013.	Methods to address impacts from non-stormwater discharges were continued to be posted on the Town website (see water Department page).	Continue program and incorporate illicit discharge information into existing public education avenues. Stormwater educator will discuss these issues with students in 2013 and 2014.
Revised					

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11

4.16	Revised	Include E&S BMP's/req's in all applicable town regulations.	Planning, zoning, Con-com, Peter O'Cain	Regs modified and accepted by all applicable boards.	Section 3.3.2.21 of the Land Subdivision Rules and Regs of the Planning Board requires E&S plan. Also lot drainage section 4.5.3 refers to NPDES standards. The previously adopted Construction Activity By-Law addresses the Phase II requirements for any disturbance over 1 acre. Enforcement was continued in 2012 and 2013.	Continue to enforce regulations and improve if needed. Planning Board Regulations being updated by a paid consultant and LID measures and references to new BMP's are being added. Neponset River Watershed Organization is working with our consultant (PSC) on this.
4.17	Revised	Include construction E&S plan as part of review.	Planning, zoning, BOH.	Approval of modified regulations.	Planning Board requires E&S plan and includes in review. Zoning by-law section 3340. The previously adopted Construction Activity By-Law addresses the Phase II requirements for any disturbance over 1 acre. Article 38 of the General By-Laws requires a complete stormwater erosion control plan and an operation and maintenance plan. All permits must go through a public hearing process.	Continue to enforce requirements and new Planning Board requirements when completed in 2013.
4.18	Revised	Inspect site for E&S problems	Greg Meister Conservation Agent and/or Town Engineer	Record Inspections and enforcement issues	Conservation Agent and Town Engineer inspected all developments and construction projects over 1 acre for erosion and sedimentation control. Town Engineer also checks these items on a daily basis. .	Continue to enforce requirements and document follow-up actions.
BMP ID #		BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
4.19	Revised	Create sanctions to ensure compliance with E&S req's	Con-Com, Board of Selectmen, Town Engineer	List of sanctions approved by Town.	The current comprehensive by-law (articles 37 and 38) includes sanctions and fines.	Enforce sanctions as required.
4.20		Include construction site runoff on stormwater hotline	Residents/Volunteers	Established hotline with phone records.	Continued to advertise the hotline using existing public education avenues.	Continue to monitor hotline and advertise through existing education avenues – website primarily.

Revised					
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4a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
4.21	Create procedure to receive and consider information submitted by the public and include requirements for the construction site operators to control waste such as discarded building materials.	Peter O'Cain	The Town passed the construction activity by-law that requires a public hearing be held for stormwater plans submitted on lots that will have more than an acre of disturbed area. The by-law requires a SWWP that addresses construction wastes of all kinds.	Stormwater Discharges Generated by Construction Activity By-Law approved in October 2004. Approved by Attorney General in January of 2005. Public hearings were held for permit application during the permit term when needed.	Continue to enforce Stormwater Discharges Generated by Construction Activity By-Law.

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
5.21	Planning Board/Con-Com regs, BMP for runoff control + 1 acre	Planning Board, Con-Com: Greg Meister	Passed new Construction Activity General By-Law to address sites that are disturbed over 1 acre.	Construction Activity General By-Law passed and approved at October 2004 Town Meeting. By-Law requires a public hearing and requirements for post-construction stormwater management inspection and maintenance.	Enforce By-Law when required.
Revised					
5.22	Require operation and maintenance plans for ret/det basins	Peter O'Cain Greg Meister	Include plan requirement in Planning regs and maint fee.	Amendments to the Planning Board regulations have yet to be passed regarding detention and retention basin fees. O&M Plans for BMPs are	Enforce new regulations as per requirements, when written by PSC. Operation and maintenance plans have been required on all new

Revised				required for all lots with over an acre of disturbance as part of the Construction Activity By-Law. The Planning Board regulation will require a maintenance fee based on the size of the detention basin to be built. Town Engineer and Planning Board still actively working on regulation changes. Have hired PSC of Foxboro to continue edit to regs in 2013	projects with stormwater infrastructure, if an SWPPP is required – developments over 1 acre.
5.23	In addition to BMP's develop community BMP's	Peter O'Cain Greg Meister	Make a list of community BMP's, if any.	The Planning Board is working on a low impact development requirement for the Planning Board Regulations as a step towards minimizing runoff of stormwater from new developments. PSC of Foxboro will be assisting the Board with rewriting the regs to accommodate LID requirements.	The DEP guidelines list numerous BMP's that are used for 80%TSS removal. The Town will continue to require infiltration through basins, roof swales, infiltrating catch basins, roof runoff infiltrators and tree gardens. A formal LID guideline will continue to be worked on in 2013 and we hope to have in regs by 2013.
Revised	BMP Manual				Community BMP plan not clear but General By-Laws and proposed Planning Board Regulation changes should address all erosion and sedimentation control issues.
5.24	If community BMP's desired, add to appropriate regulations	Planning, Zoning, Con-Com Boards/ Town Engineer	Additions to appropriate regulations.	None yet but being discussed. See 5.23.	
Revised					

5a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10	Planned Activities – Permit Year 11
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5.25	Zoning that encourages low impact development.	Peter O'Cain	Zoning that encourages low impact development	The Town of Sharon approved 40R and 43D districts in 2009. The Sharon Commons area off South Main Street and the Post office Square area in downtown Sharon. A memorandum of understanding has been approved for the 40R districts and construction should begin in the next two years. Redevelopment of the former Charles Wilber High School has resulted in the creation of 75 apartments near the town center and near the train station. This development re-used an old school building and allows for walking access to the train station. The project minimizes sprawl, utilizes a historic abandoned building and created almost no site runoff.	Work on writing new low impact development regulations within the Planning Board Rules and Regulations for new subdivisions. 43D zoning approved for P.O. Square and 40R development zoning approved for Old Post Road in two locations.
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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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
6.25 Revised	Develop municipal operation and maintenance plan.	Superintendent of public Works: Eric Hooper	Completed plan.	Tibbetts Engineering has written a municipal O&M plan	Plan is finalized and implemented. Our education coordinator will be holding information meeting with all DPW employees in 2013 and 2014.
6.26 Revised	Implement operation and maintenance plan w/schedule.	Highway Dept/Bill Petipas	Maintain records of maintenance compliance.	Catch basin records of maintenance now being kept.	Continue to keep records of catch basin cleaning and begin implementing Operation and maintenance Plan in 2013-2014, when Phase II permit issued.
6.27	Use E&S controls for road repairs.	Highway Dept: Bruce Giggey Con-Com: Greg Meister	Record work and erosion controls taken	All roadway work is assessed by the Conservation Agent and Town Engineer for erosion issues. Work is silt fenced and hay baled as needed.	Continue to use erosion and sedimentation controls as needed and file for construction general permits for work over 1 acre.

Revised					Any work over 1 acre has a NPDES construction permit filed. All town projects were reviewed for E&S requirements and BMP's were implemented as approved.	
BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 10	
6.28	Fill Drains in areas of equipment cleaning or work	Highway Dept: Bruce Giggey	Drains covered or filled in.	All drains were previously covered or filled in.	None	
Revised						
6.29	Clean catch basins on regular schedule	Highway Dept: Bruce Giggey	Maintain record of cleaning	Half of the catch basins in town were cleaned this year and records were kept by the DPW. Additional funding was not available to clean more structures; however, the Town evaluated the potential to use GIS data and catch basin cleaning data to prioritize cleaning efforts.	Awaiting new DEP permit requirements on catch basin cleaning. Will continue current schedule until new Phase II permit is issued.	
Revised						

6a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11	
6.30	Construct Vehicle wash building with recycling wash system to eliminate pollutants from entering groundwater.	Peter O'Cain Town Engineer	Construct building and utilize for vehicle washing	The new vehicle wash building was maintained to ensure proper use for vehicle washing activities.	Utilize and maintain wash building, as needed	
6.31	Added employee training to operation and maintenance plan requirements	Peter O'Cain	Operation and maintenance plan includes employee training component.	Plan implemented.	New employees will be educated as needed.	
Revised			Training attendance sheet			

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 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7.30 Revised	Utilize list of impaired bodies as a basis for areas to study	Town Engineer: Peter O’Cain	Determine how to reduce causes of impairment.	Sharon has been identified as having only high bacterial levels related undoubtedly to septic system flow to groundwater. Septic systems are evaluated and upgraded as needed when homes are sold. Infiltration program not implemented due to lack of grant funding to Neponset River Association from State.	Use dry flow outfalls to identify locations of illicit discharges and test the water quality of those discharges. Educate public through website on septic system maintenance, especially regular pumping. All town systems placed on regular pumping schedule.
7.31 Revised	Set up plan utilizing outfall mapping to reduce impairment	Town Engineer: Peter O’Cain	Written plan	Outfall locations have been mapped on GIS.	See 7.30
7.32 Revised	Ensure WLA met by stormwater BMP’s	Superintendent of Public Works: Eric Hooper	Determine if additional BMP’s needed.	No dry weather outfalls identified on subsequent inspections.	Use dry weather flow outfalls and other data collected to begin water quality testing in summer 2013, if needed. Intern hired for task.
7.33 Revised	Reduce pollutant discharges coming through MS4	Conservation Agent: Greg Meister/Town Engineer	Inspect water for reduction in turbidity, increase in DO	Used catch basin cleaning and roadway sweeping program to reduce turbidity and reduce pollutants.	Use catch basin cleaning and roadway sweeping program to reduce turbidity and reduce pollutants. Implement the recommendations from BMP 7.32 and use water sampling to compare water quality from year to year as budget allows. Use dry flow outfalls to identify areas of illicit discharge and perform water quality testing in those areas.

7a. Additions

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 10 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 11
7.31A	Set up plan using outfall mapping to reduce impairment	Peter O’Cain	Adjust mapping as direct connection data is collected from applications submitted related to the Illicit Discharge By-Law and through catch basing cleaning process.	Outfall and direct connection information was updated on the Town drainage map and GIS system as direct connection permits were reviewed and approved. All outfalls, catch basins and manholes are on the Town GIS system.	Continue to update mapping as appropriate.

7b. WLA Assessment

The Town is working on reducing loads to streams through strict enforcement of our Illicit Discharge and Construction Activity By-laws. The Construction Activity By-Law in combination with strict enforcement of soil and erosion control plans will help reduce the TSS entering the town waterways. Planning Board Regulations and the two new by-laws require strict compliance with all Mass DEP stormwater regulations and water quality regulations.

Our catch basin cleaning contractor will be indicating catch basins that are high in sediment levels, so that they can be cleaned on a more frequent schedule, which is expected to maximize the efficiency of sediment removal in the basins and minimize flow to receiving waters.

As discussed in the BMPs listed above, the next steps for addressing TMDL waters is to collect samples at the dry weather flow outfalls, if any found. If so, try to determine the source of the water. The DPW has hired a summer intern that will collect samples and bring them to a lab. A spreadsheet of the outfall testing results will be generated. The outfalls that have dry weather flow have been identified and mapped (see attached spreadsheet and map).

The Planning Board has hired PSC of Foxboro to rewrite the Planning Board Rules and Regulations to reflect references to new General By-Laws regarding construction activity and illicit discharge. The new regulations will incorporate LID requirements and practices.

Neponset River Watershed Association was hired to provide public education and outreach. They are also working with town on education at DPW and provided the Town with tributary signage designs and ordering.

Part IV. Summary of Information Collected and Analyzed

The Town has completed its stormwater drainage system mapping of outfalls. Dry weather observation of all outfalls will be performed and water testing will proceed again in the summer of 2013, if dry weather outfall flows found.

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

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

Education, Involvement, and Training

Estimated number of residents reached by education program(s)	(# or %)	8,000 water bill, website, cable, school education, inserts in Annual Town Report.

Stormwater management committee established		(y/n)	The Conservation Agent, Recreation Director, Town Engineer met with outreach coordinator and will hold meetings throughout 2013
Stream teams established or supported		(# or y/n)	N
Shoreline clean-up participation or quantity of shoreline miles cleaned		(y/n or mi.)	Lake Massapoag Education program started.
Household Hazardous Waste Collection Days			Y
days sponsored		(#)	1
community participation		(%)	7.5%
material collected		(tons or gal)	Approx 500 gallons of chemicals and we accept TV's, computers, printers, batteries, tires
School curricula implemented		(y/n)	Yes

Legal/Regulatory

Town of Sharon NPDES PII Small MS4 General Permit Annual Report
MADEP Transmittal Number: W-040625

In Place Prior to Phase II				Under Review	Drafted	Adopted
Regulatory Mechanism Status (indicate with "X")						
▪ Illicit Discharge Detection & Elimination						X
▪ Erosion & Sediment Control	some					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 (see attached spreadsheet)	(#)	237
System-Wide mapping complete	(%)	100
Mapping method(s)		
▪ Paper/Mylar	(%)	100%
▪ CADD	(%)	
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	
Illicit discharges identified	(#)	No consistent dry weather flows found.

Illicit connections removed	(#) (est. gpd)	None- preexisting sump pumps or foundation drains.
% of population on sewer	(%)	Less than 1%
% of population on septic systems	(%)	99%+

Construction

Number of construction starts (>1-acre)	(#)	None
Estimated percentage of construction starts adequately regulated for erosion and sediment control	(%)	100
Site inspections completed	(# or %)	Too many to count
Tickets/Stop work orders issued	(# or %)	0 related to wetlands
Fines collected	(# and \$)	0
Complaints/concerns received from public	(#)	2

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	1/2 of town per year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	“ “
Total number of structures cleaned	(#)	1500
Storm drain cleaned	(LF or mi.)	1200
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.)	truck to asphalt plant	
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	2.0/year
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	2.0/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	Asphalt plant
Cost of sweepings disposal	(\$)	\$3/ton
Vacuum street sweepers purchased/leased	(#)	Purchased and contracted
Vacuum street sweepers specified in contracts	(y/n)	no

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

Anti-/De-Icing products and ratios		
	% NaCl	50
	% CaCl ₂	0
	% MgCl ₂	0
	% CMA	0
	% Kac	0
	% KCl	0
	% Sand	50
Pre-wetting techniques utilized	(y/n)	N
Manual control spreaders used	(y/n)	Y
Automatic or Zero-velocity spreaders used	(y/n)	Y
Estimated net reduction in typical year salt application	(lbs. or %)	0
Salt pile(s) covered in storage shed(s)	(y/n)	Y
Storage shed(s) in design or under construction	(y/n)	Completed