

Municipality/Organization: **Town of Seekonk**

EPA NPDES Permit Number: **MAR041156**

MassDEP Transmittal Number: **W041076**

Annual Report Number **Year 9**
& Reporting Period: **April 1, 2012 – March 31, 2013**

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2013)

Part I. General Information

Contact Person: Robert Lamoureux Title: Public Works Superintendent

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Certification:

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

Signature: _____

Printed Name: Robert Lamoureux

Title: Public Works Superintendent

Date: April-11-13

Part II. Self-Assessment

The Town of Seekonk has completed all components of the NPDES Phase II permit. These accomplishments were secured through the considerable effort of our Stormwater Advisory Committee (SWAC). The achievement of our goals was accomplished by a succession of meetings, research, development and implementation of bylaws and through the collaborative endeavor of the SWAC. The fulfillment of the permit requirements has been challenging, but we believe our efforts have improved water quality. We continue to partner with public and private entities in attaining our goals.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
1A Revised	Distribute & Post Nonpoint Source Pollution Posters	DPW	Post in all Town Buildings	Continue posting	Check posters annually
1B Revised	Air stormwater message on local cable channel	DPW	Posted once per month Continuing	Continue posting	Update information as needed
1C Revised	Add stormwater info to the Town’s website	DPW	Posted to the Town’s website	Continue posting	Update information as needed
1D Revised	Develop and distribute waste oil brochures	DPW	Distributed to all affected local business	Waste oil brochures mailed to all affected businesses	Update brochure and list of affected businesses for future mailing
Revised					
Revised					

1a. Additions - Outside of the permit scope

	Stormwater Public Informational brochures	DPW/Recycling Coordinator	Distribute Earth Day + America Recycles Day	Earth Day - April 2012 America Recycles Day – Nov. 2012	Continue to distribute in future years

2. Public Involvement and Participation

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
2A Revised	Form Stormwater Advisory Committee	DPW	Hold Semi-Annual Meetings Additional meetings held	Stormwater Advisory committee formed with the following members. DPW Supt., Conservation Agent, Town Planner, Building Official and Board of Health Agent	Review existing stormwater practices. Discuss successes to date and permit requirements
2B Revised	Hazardous Waste Collection - Earth Day	DPW - BOH	Hold Annual Earth Day and Hazardous Waste Day	Volunteers collecting roadside trash and debris	Collection of hazardous waste materials, fluorescent bulbs, batteries and propane tanks
2C Revised	Waste Oil Collection Anti-Freeze collection	DPW	Collect waste oil and antifreeze daily	Oil is collected at the DPW garage Residents are encouraged to drop off waste oil and antifreeze at no charge	Continue with current practices
2D Revised	Town Outreach meetings	DPW/ConCom Planning Board	Hold public outreach meetings quarterly	Held several meetings with no participation from the public	On hold
2E Revised	T-Shirt Contest	DPW/Recycling Coordinator	Earth Day T-Shirt design contest	Elementary schools had once participated but are no longer interested	T-shirt designs are developed by SWAC or Recycling Committee members
Revised					

2a. Additions

	Form Stormwater Advisory Committee	DPW	Hold Semi-Annual Meetings Additional meetings held	Stormwater Advisory committee formed with the following members. DPW Supt., Conservation Agent, Town Planner, Building Official and Board of Health Agent	Review existing stormwater practices. Discuss successes to date and permit requirements

3. Illicit Discharge Detection and Elimination

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
3A Revised	Map outfalls and drainage system	DPW/ConComm Planning Board	Mapping of entire storm drain conveyance system	Engineering Company hired to GPS point locate structures	Continue field research to update our map and locate additional structures We continue to find new structures and outfalls
3B Revised	Review existing bylaws and regulations	SWAC	Determine if existing bylaws & regulations meet EPA requirements	Recommend changes to existing by-law and regulations	SWAC to review existing by-laws and regulations
3C Revised	Develop Illicit Discharge Detection and Elimination Plan	DPW	Make Recommendations proposed for plan	Illicit Discharge Detection and Elimination plan developed by DPW	DPW to review existing plan
3D Revised	Develop bylaw for Illicit Discharge Detection + Elimination	DPW	Recommendations proposed for bylaw	Illicit Discharge Detection bylaw developed by DPW	DPW to review existing bylaw
3E Revised	Present bylaw for adoption at Town meeting	DPW	Bylaw presented and adopted at Town meeting	Bylaw adopted by Attorney General	We have eliminated numerous illicit discharges since the inception of the bylaw. We continue to locate and eliminate illicit discharges
Revised					

3a. Additions

	Review requirements of new permit.	SWAC	Evaluate scope of new permit requirements	Determine work to be performed by the SWAC or outsourced to Engineers	Complete NOI for new permit & identify separate drainage systems
	Identify separate storm drain systems	DPW ConCom Planning Board	Inventory separate systems to outfalls	50% completed to date	Continue to indentify until completed

4. Construction Site Stormwater Runoff Control

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
4A	Review current site inspection practices	ConComm Planning Board	Determine if current practices meet EPA requirements	Review of current site inspection practices completed	Continue current practices
Revised					
4B	Develop/modify site inspection program	DPW/ConComm Planning Board	Recommendations to modify existing program	Incorporate changes of into existing program and inspection practices	Continue research of existing practices
Revised					
4C	Review existing bylaw and regulations	ConComm Planning Board	Determine if existing bylaw meets EPA requirements	Recommend changes to existing bylaw and regulations	Adopt bylaw modifications to meet EPA requirements
Revised					
4D	Develop/modify bylaw for construction site runoff	ConComm Planning Board	Propose recommendations to existing bylaw	Bylaw developed and adopted by SWAC	Have bylaw adopted at Town Meeting and approved by the Attorney General
Revised					
4E	Present bylaw for adoption at Town Meeting	ConComm Planning	Bylaw developed and approved at Town Meeting and by the Attorney General	Bylaw adopted by Planning Board and incorporated into planning regulations	Incorporate new bylaw and regulations into plan review process and inspection practices
Revised					

4a. Additions - Outside of the permit scope

	Plan reviews and site construction inspections	Planning Board	Assure compliance with new bylaw	Consultant hired to perform site plan reviews and inspect construction activity	Continue current practices
	Training	DPW ConCom Planning Board	Increase knowledge of inspection procedures	Attend erosion and sedimentation control workshop	Incorporate training into inspection practices

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
5A	Review existing site inspection practices	ConComm Planning Board	Determine if existing practices meet EPA requirements	Review of existing practices completed	Continue with current practices
Revised					
5B	Develop/modify site inspection practices and procedures	ConComm Planning Board	Recommendations made to modify existing practices	Propose recommendations to Planning Board to incorporate into current practices and procedures	Recommendations have been incorporated into inspection practices by the Planning Board
Revised					
5C	Review existing bylaw and regulations	ConComm Planning Board	Determine if existing bylaw meets EPA requirements	Review of existing bylaw and regulations completed	Planning Board has adopted modifications to bylaw and regulations
Revised					
5D	Develop/modify bylaw and regulations for Post Construction Site Runoff	ConComm Planning Board	Propose changes to existing bylaw and regulations	Bylaw and regulations have been developed and adopted by SWAC	
Revised					
5E	Present bylaw for action at Town Meeting	ConComm Planning Board	Bylaw presented and adopted at Town Meeting	Bylaw adopted by Planning Board and incorporated into planning regulations	Incorporate new bylaw and regulations into plan review process and inspection practices
Revised					
Revised					

5a. Additions – Outside of the permit scope

	Plan Reviews and site construction inspections	Planning Board	Assure compliance with new bylaw	Consultant hired to perform site plan reviews and inspect construction activity	Continue current practices

6. Pollution Prevention and Good Housekeeping in Municipal Operations

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
6A Revised	Street sweeping program	DPW	Sweep all streets once annually sweep main and secondary roads twice or more	We have been able to complete our street sweeping program as implemented	Continue with existing practices
6B Revised	Catch basin cleaning program	DPW	Clean all catch basins annually	We have been able to clean all our catch basins annually	Continue with current practice
6C Revised	Perform site visits and inspect practices at municipal facilities	DPW	Target all applicable municipal facilities	Stormwater audit completed by Consultant to determine deficiencies	Complete budget review for implementation of BMPs
6D Revised	Train municipal employees at facilities	DPW	Target employees at each facility	Some completed - ongoing	Future training opportunities
6E Revised	Perform follow up inspections at each targeted facility	DPW	Implementation of corrective measures and BMPs	Some completed - continuing	Continue to review current practices and implement BMPs to insure compliance with stormwater regulations
Revised					

6a. Additions

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

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 9 (Reliance on non-municipal partners indicated, if any)	Planned Activities
7A Revised	Water quality management project for the Runnins River	SWAC	Provide water samplings and report	Water samplings completed final report completed and submitted	
7B Revised	Illicit discharge detection and elimination program	DPW	Implement BMPs reference 3C, 3D & 3E	Elimination of numerous illicit discharges	Continue to identify and eliminate illicit discharges
7C Revised	Consider deterring waterfowl from the Grist Mill Pond	SWAC	Partner with Grist Mill Tavern owner	Adopt regulations and install signs to deter waterfowl feeding	Continue to monitor
7D Revised	Municipal Good Housekeeping	DPW	Municipal audit completed, BMPs identified	Implementation of BMPs, reference 6A, 6B & 6C	Continue to review current practices and implement BMPs to ensure compliance with stormwater regulations
Revised					
Revised					

7a. Additions

7b. WLA Assessment Part IV. Summary of Information Collected and Analyzed

Part V. Program Outputs & Accomplishments (OPTIONAL)

(Since beginning of permit coverage unless specified otherwise by a **, which indicates response is for period covering April 1, 2012 through March 31, 2013)

Programmatic

	(Preferred Units)	Response
Stormwater management position created/staffed	(y/n)	N
Annual program budget/expenditures **	(\$)	\$25,000
Total program expenditures since beginning of permit coverage	(\$)	\$225,000
Funding mechanism(s) (General Fund, Enterprise, Utility, etc)		GF

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	Unknown
Stormwater management committee established	(y/n)	Y
Stream teams established or supported	(# or y/n)	No
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	No
Shoreline cleaned since beginning of permit coverage	(mi.)	0
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	1
▪ community participation **	(# or %)	Unknown
▪ material collected **	(tons or gal)	936 Gallons
School curricula implemented	(y/n)	Unknown

Legal/Regulatory

	In Place Prior to Phase II	Reviewing Existing Authorities	Drafted	Draft in Review	Adopted
Regulatory Mechanism Status (indicate with "X")					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X

▪ Post-Development Stormwater Management					X
Accompanying Regulation Status (indicate with “X”)					
▪ Illicit Discharge Detection & Elimination					X
▪ Erosion & Sediment Control					X
▪ Post-Development Stormwater Management					X

Mapping and Illicit Discharges

	(Preferred Units)	Response
Outfall mapping complete	(%)	99%
Estimated or actual number of outfalls	(#)	220
System-Wide mapping complete (complete storm sewer infrastructure)	(%)	65%
Mapping method(s)		
▪ Paper/Mylar	(%)	99%
▪ CADD	(%)	0%
▪ GIS	(%)	85%
Outfalls inspected/screened **	(# or %)	30%
Outfalls inspected/screened (Since beginning of permit coverage)	(# or %)	95%
Illicit discharges identified **	(#)	4
Illicit discharges identified (Since beginning of permit coverage)	(#)	38
Illicit connections removed **	(#); and (est. gpd)	3
Illicit connections removed (Since beginning of permit coverage)	(#); and (est. gpd)	31
% of population on sewer	(%)	0%
% of population on septic systems	(%)	100%

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	4
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	4
Site inspections completed **	(# or %)	2-3 times daily
Tickets/Stop work orders issued **	(# or %)	0
Fines collected **	(# and \$)	0
Complaints/concerns received from public **	(#)	1

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Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-construction stormwater control	(%)	100%
Site inspections (for proper BMP installation & operation) completed **	(# or %)	4
BMP maintenance required through covenants, escrow, deed restrictions, etc.	(y/n)	Y
Low-impact development (LID) practices permitted and encouraged	(y/n)	Y

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
Qty of structures cleaned **	(#)	1890
Qty. of storm drain cleaned **	(%, LF or mi.)	2,400 LF
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	App 840 Tons
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill

Basin Cleaning Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$17,800
• Hourly or per basin contract rate **	(\$/hr or \$ per basin)	\$9.40 each
• Disposal cost**	(\$)	\$0
Cleaning Equipment		
• Clam shell truck(s) owned/leased	(#)	1
• Vacuum truck(s) owned/leased	(#)	1
• Vacuum trucks specified in contracts	(y/n)	0
• % Structures cleaned with clam shells **	(%)	100%
• % Structures cleaned with vactor **	(%)	5%

(Preferred Units) Response

Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	1
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	2-3
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	1,400 -1,500 Tons
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	Landfill
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	\$30,000
• Hourly or lane mile contract rate **	(\$/hr. or In mi.)	NA
• Disposal cost**	(\$)	Unknown
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	1
• Vacuum street sweepers owned/leased	(#)	1
• Vacuum street sweepers specified in contracts	(y/n)	N
• % Roads swept with rotary brush sweepers **	%	5%
• % Roads swept with vacuum sweepers **	%	95%

Reduction (since beginning of permit coverage) in application on public land of: ("N/A" = never used; "100%" = elimination)		
▪ Fertilizers	(lbs. or %)	50%
▪ Herbicides	(lbs. or %)	N/A

▪ Pesticides	(lbs. or %)	N/A
Integrated Pest Management (IPM) Practices Implemented	(y/n)	N

	(Preferred Units)	Response
Average Ratio of Anti-/De-Icing products used ** (also identify chemicals and ratios used in specific areas, e.g., water supply protection areas)	% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand	95% 5%
Pre-wetting techniques utilized **	(y/n or %)	Y
Manual control spreaders used **	(y/n or %)	Y
Zero-velocity spreaders used **	(y/n or %)	N
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	25% Reduced
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	95% Reduced
% of salt/chemical pile(s) covered in storage shed(s)	(%)	100%
Storage shed(s) in design or under construction	(y/n or #)	N
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	100%

Water Supply Protection

Storm water outfalls to public water supplies eliminated or relocated	# or y/n	N
Installed or planned treatment BMPs for public drinking water supplies and their protection areas	# or y/n	N
• Treatment units induce infiltration within 500-feet of a wellhead protection area	# or y/n	N