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Municipality/Organization: Town of Swampscott, Massachusetts

EPA NPDES Permit Number: _____

MassDEP Transmittal Number: W- 041272

Annual Report Number Year 14
& Reporting Period: April 1, 2017 – March 31, 2018

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2018)

Part I. General Information

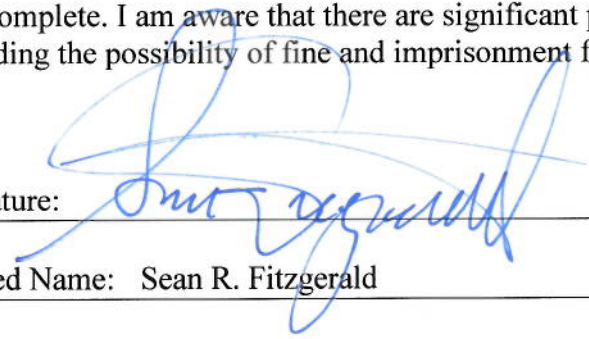
Contact Person: Gino A. Cresta, Jr. **Title:** Director of Public Works

Telephone #: 781-596-8860 **Email:** gcresta@town.swampscott.ma.us

Mailing Address: 22 Monument Avenue, Swampscott MA 01907

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: Sean R. Fitzgerald

Title: Town Administrator

Date: 4/12/18

Part II. Self-Assessment

The Town of Swampscott, Massachusetts has completed the required self-assessment and has determined that, based on available information, the Town is in compliance with the conditions of the permit, with the minor exception of where implementation of our minimum control measures did not meet our stated schedule documented as part of the Notice of Intent. In these instances, alternative BMPs have been performed or proposed as described below:

- **BMP 1-1: The Town will continue to post stormwater information and place brochures in public buildings in place of having speakers in two schools per year due to staffing shortages.**
- **BMP 3-4: The Town entered into a Consent Decree with EPA in August, 2015. The EPA Consent Decree superseded Consent Decree DEP ACOP-NE-07-1N001 issued by MADEP in June, 2008. When the EPA Consent Decree was executed, the Town was relieved of the requirements set forth in the DEP Consent Decree for reasons of paperwork duplication. Although the Town's efforts fall short of televising the entire storm drain system as proposed in BMP 3-4, the Town continues to move towards elimination of illicit connections under the guidance of EPA.**
- **BMP 6-5: In this permit year, the Town completed the final third of the three-part town-wide tree survey.**

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 15	Planned Activities – Permit Year 16
1. Public Education and Outreach					
1-1	Speakers	Director of Public Works	Call two schools per year	Posted stormwater posters in public buildings. Will continue through permit term.	Will post stormwater posters throughout term.
1-2	Local cable access spots	Director of Public Works	Produce two 5-minute spots	In compliance.	No activity planned.
2. Public Involvement and Participation					
2-1	Public Notification	Director of Public Works	Posting of all appropriate meetings	All DPW meetings are posted in Town Hall.	Continue to post notices of appropriate meetings.
2-2	Household hazardous waste collection	Health Director	One collection per year	Household hazardous waste collection days held on June 3 and November 4, 2017.	Household hazardous waste collection days scheduled for June 2 and November 3, 2018.
2-3	Stencil catch basins that drain to sensitive areas	Director of Public Works	Stencil fifty (50) catch basins per year	Re-stenciled 1/3 of town storm drains.	Continue to monitor the condition of the stenciled catch basins.
2-4	Seedlings for Arbor Day	Director of Public Works / Tree Warden	Ten (10) seedlings per year for two (2) years	Planted ceremonial tree on Arbor Day, 2017. Town planted 25 trees during this permit year and continues to be a Tree City USA member.	Plant ceremonial tree on Arbor Day 2018 and continue to plant public shade trees.
3. Illicit Discharge Detection and Elimination					
3-1	Map outfalls and receiving waters	Director of Public Works	Updated map by the end of the second year	Town-wide drainage study was completed in January, 2018.	Review recommendations from Drainage Study and prioritize drainage improvements.
3-2	Stormwater bylaw	Director of Public Works	Draft completed in time to submit to Town Meeting	In compliance	No activity planned.
3-3	Dry weather screening of outfalls	Director of Public Works	Two rounds of sampling in 2004	The Board of Health, DPW, an Engineering Consultant and "Save the Harbor Save the Bay" (SHSB) continue to take water samples from area beaches during the summer. In 2017, SHSB installed a rain gage at Foster Pond and collects/manages the data.	Continue to investigate sources of high bacterial counts. Study areas of concerns and remedy as soon as possible.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15	Planned Activities – Permit Year 16
3-4	Illicit discharge elimination	Director of Public Works	Televis the entire system by the end of the term	In accordance with the EPA Consent Order, the Town completed the Phase I work which included installation of 5,898 LF of 8" PVC sewer pipe, 2 precast manholes, and repair of 25 type 1 underdrain manholes.	Design and publicly bid Phase 1B which will include CIPP of approximately 32,100 LF main line sewers within the Stacey's Brook area.
4. Construction Site Stormwater Runoff Control					
4-1	Construction site bylaw and ordinance	Planning Board, Building Inspector, DPW, ERAC	Present draft bylaw to Town Meeting in 2004	In compliance.	No further action required.
4-2	Public Comment	ZBA, ConComm, Planning Board, DPW	Receive input on draft bylaw at public meetings	In compliance.	No further action required.
4-3	Review site plans	Building Inspector, DPW, ZBA, ConComm	Add stormwater management to scope of review	In compliance.	No further action required.
4-4	Enforcement Procedures	Planning Board, ConComm	Notification to the boards about enforcement procedures	In compliance	No further action required.
5. Post-Construction Stormwater Management in New Development and Redevelopment					
5-1	BMP manual	DPW, ConComm	BMP manual selected	In compliance, continue to recommend BMP manual to local developers	Continue to recommend BMP manual to local developers
5-2	Runoff Controls	Director of Public Works	Draft bylaw to Town Meeting	In compliance.	No further action required.

BMP ID #	BMP Description	Responsible Dept./Person Name	Measurable Goal(s)	Progress on Goal(s) – Permit Year 15	Planned Activities – Permit Year 16
6. Pollution Prevention and Good Housekeeping in Municipal Operations					
6-1	Sensitive Areas	Director of Public Works	Identify and map sensitive areas	In compliance.	No activity planned.
6-2	Clean catch basins	Director of Public Works	Clean catch basins every other year, maintain records	Cleaned approximately 25% of catch basins town-wide in 2017.	Continue to clean 25% of catch basins yearly.
6-3	Sweep Streets twice per year	Director of Public Works	Sweep each street twice per year.	All streets were swept twice during this permit year and as needed.	Continue to sweep each street twice per year and as needed.
6-4	Continue no pesticide policy	Director of Public Works	No pesticide use on Town property	No pesticides were used on Town property	Continue no pesticide policy
6-5	Tree survey	Director of Public Works / Tree Warden	Implement survey and long-term forestation plan	Surveyed the final third of trees in Town.	Prioritize recommendations in town-wide tree survey and establish an implementation/funding strategy.
6-6	Implement long-term forestation plan	Director of Public Works / Tree Warden	Implement long-term forestation plan	Planted 25 trees throughout Town. Continued membership in Tree City USA.	Continue to implement long-term forestation plan and plant public shade trees.
6-7	Provide training to DPW staff	Director of Public Works	Two training days per year	Stormwater video is outdated. DPW staff is trained in the field.	Continue to train staff in field and investigate an updated video.
6-8	Implement long-term forestation plan	Director of Public Works / Tree Warden	Implement long-term forestation plan	In compliance.	No activity planned.
6-9	Maintain covered salt storage; calibrate salt spreaders annually	Director of Public Works	Maintain salt storage shed, and calibrate salt spreaders, as needed	Calibrated salt spreaders in 2017. Procured new salt shed and executed contract with installer.	Calibrate salt spreaders as needed. Install new salt shed.

Part IV. Summary of Information Collected and Analyzed

Television inspection

In accordance with the EPA Consent Order, the Town completed the Phase I work in October 2017 which included installation of 5,898 LF of 8" PVC sewer pipe, 2 precast manholes, and repair of 25 type 1 underdrain manholes. The Town attended a series of meetings with EPA to discuss the strategy for the Phase IB work and agreed upon a "neighborhood approach." The neighborhood approach consists of organizing the scope of work for Phase IB such that the contractor would perform main line CIPP, lateral CIPP and sewer manhole rehabilitation comprehensively in a specific neighborhood. EPA was in agreement with this approach. The project is nearing 100% design and is set to go out to bid in June, 2018.

Dry Weather Sampling

The Board of Health samples waters from local beaches on a regular basis during the summer. Wet weather sampling at outfalls is performed by an Engineering consultant in accordance with the EPA Consent Order. Save the Harbor / Save the Bay and DCR conduct a series of routine outfall sampling mostly during dry weather. Dry weather is determined using a rain gage installed at Foster Pond in 2017. The rain gage was installed and is monitored and managed by Save the Harbor / Save the Bay.

Manhole Inspections

There were no manhole inspections conducted during this reporting period. All resources were directed to construction of Phase I improvements resulting from manhole inspections conducted during the previous reporting period.

Beach Closings

During this permit year there were no beach closings due to bacteria counts.

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, 2009 through March 31, 2010)

Programmatic

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

Education, Involvement, and Training

Estimated number of property owners reached by education program(s)	(# or %)	
Stormwater management committee established	(y/n)	
Stream teams established or supported	(# or y/n)	
Shoreline clean-up participation or quantity of shoreline miles cleaned **	(y/n or mi.)	
Shoreline cleaned since beginning of permit coverage	(mi.)	
Household Hazardous Waste Collection Days		
▪ days sponsored **	(#)	
▪ community participation **	(# or %)	
▪ material collected **	(tons or gal)	
School curricula implemented	(y/n)	

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					
▪ Erosion & Sediment Control					

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

Mapping and Illicit Discharges

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

Construction

	(Preferred Units)	Response
Number of construction starts (>1-acre) **	(#)	
Estimated percentage of construction starts adequately regulated for erosion and sediment control **	(%)	
Site inspections completed **	(# or %)	
Tickets/Stop work orders issued **	(# or %)	
Fines collected **	(# and \$)	

Complaints/concerns received from public **	(#)	

Post-Development Stormwater Management

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

Operations and Maintenance

Average frequency of catch basin cleaning (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of catch basin cleaning (commercial/arterial or other critical streets) **	(times/yr)	
Qty of structures cleaned **	(#)	
Qty. of storm drain cleaned **	(%, LF or mi.)	
Qty. of screenings/debris removed from storm sewer infrastructure **	(lbs. or tons)	
Disposal or use of screenings (landfill, POTW, compost, beneficial use, etc.) **	(location)	

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

	(Preferred Units)	Response
Average frequency of street sweeping (non-commercial/non-arterial streets) **	(times/yr)	
Average frequency of street sweeping (commercial/arterial or other critical streets) **	(times/yr)	
Qty. of sand/debris collected by sweeping **	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.) **	(location)	
Annual Sweeping Costs		
• Annual budget/expenditure (labor & equipment)**	(\$)	
• Hourly or lane mile contract rate **	(\$/hr. or ln mi.)	
• Disposal cost**	(\$)	
Sweeping Equipment		
• Rotary brush street sweepers owned/leased	(#)	
• Vacuum street sweepers owned/leased	(#)	
• Vacuum street sweepers specified in contracts	(y/n)	
• % Roads swept with rotary brush sweepers **	%	
• % Roads swept with vacuum sweepers **	%	

Reduction (since beginning of permit coverage) in application on public land of:
 (“N/A” = never used; “100%” = elimination)

▪ Fertilizers	(lbs. or %)	
▪ Herbicides	(lbs. or %)	
▪ Pesticides	(lbs. or %)	
Integrated Pest Management (IPM) Practices Implemented	(y/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	
Pre-wetting techniques utilized **	(y/n or %)	
Manual control spreaders used **	(y/n or %)	
Zero-velocity spreaders used **	(y/n or %)	
Estimated net reduction or increase in typical year salt/chemical application rate	(±lbs/ln mi. or %)	
Estimated net reduction or increase in typical year sand application rate **	(±lbs/ln mi. or %)	
% of salt/chemical pile(s) covered in storage shed(s)	(%)	
Storage shed(s) in design or under construction	(y/n or #)	
100% of salt/chemical pile(s) covered in storage shed(s) by May 2008	(y/n)	

Water Supply Protection

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