

**Municipality/Organization:** City of Chelsea

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**EPA NPDES Permit Number:** MAR041077

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**MaDEP Transmittal Number:** W-

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**Annual Report Number  
& Reporting Period:** No. 12: March 14-March 15

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## NPDES PII Small MS4 General Permit Annual Report

### Part I. General Information

**Contact Person:** Joseph C. Foti **Title:** Director, Chelsea DPW

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**Telephone #:** 617-466-4200 **Email:** jfoti@chelseama.gov

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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:** Thomas Ambrosino

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**Title:** City Manager

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**Date:** 8/10/16

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## **Part II. Self-Assessment**

The City of Chelsea has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

Part II. F      Failed to submit Year 12 Annual Report by May 1, 2015. Submitted August 2016.

**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 – Permit Year 13
PE-1	Partnership Program w/Chelsea Greenspace & Mystic River Watershed Org.	DPW/Andrew B. DeSantis	Conduct Public Forums on a yearly basis.	Attended Meetings of Mystic River Steering Committee Planning Group.	Continued attendance at Meetings of Mystic Revere Steering Committee.
PE-2	Educational Material Distribution	DPW/Andrew B. DeSantis	Distribute materials 2x per year at community events	Informational materials maintained on public stand in City Hall Corridor. Stormwater Webpage maintained: <a href="http://www.chelseama.gov/Public_Documents/ChelseaMA_DPW/stormwater">http://www.chelseama.gov/Public_Documents/ChelseaMA_DPW/stormwater</a>	Distribute materials 2x per year at community events
PE-3	Outreach to Latino Community	DPW/Andrew B. DeSantis	Develop Spanish Language Brochure within 1 year	Not completed.	N/A. Will prepare in conjunction with requirements of upcoming MS4 permit.

**1a. Additions**


**2. Public Involvement and Participation**

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 – Permit Year 13
PP-1	Hold Co-ordination Meetings	DPW/Andrew B. DeSantis	Hold Coordination Meetings with Chelsea Greenspace and Mystic River Watershed Organization on a semi-annual basis	Attended Mystic River Steering Committee meeting with various stakeholders from governmental agencies and interested Citizens Groups	Attend Mystic River Steering Committee meetings on a quarterly basis and continue coordination with Mystic River Watershed Association.
Revised					
PP-2	Storm Drain Stenciling	DPW/Andrew B. DeSantis	Stencil all catch basin structures within 3 years	Completed in prior permit years.	N/A.
Revised					
PP-3	Volunteer Monitoring	DPW/Andrew B. DeSantis	Continue Volunteer Monitoring on an annual basis	Mystic River Watershed Organization monitoring outfalls every 3 months.	Continue monitoring
Revised					
PP-4	Stakeholder Meetings	DPW/Andrew B. DeSantis	Hold annual stakeholder meeting	As noted above.	Hold annual stakeholder meeting
Revised					
Revised					
Revised					

**2a. Additions**

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### 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 – Permit Year 13
IDDE -1	Storm Drain Map	DPW/Andrew B. DeSantis	Update Storm/Sanitary Sewer Map Yearly (ongoing)	Storm Drain Map updated annually in October.	Continue annual map updates.
IDDE -2	Non-stormwater discharge Ordinance	DPW/Andrew B. DeSantis	Adopt Non-stormwater discharge Ordinance within 2 years.	Adopted revised Sewer, Water and Storm Water Ordinances October 19, 2009.	Update in conjunction with permit conditions of revised MS4 permit when effective.
IDDE -3	Industrial/Business Connections	DPW/Andrew B. DeSantis	Establish Monitoring Program within 2 years.	Continued IDDE work this year.	\$125,000 annually adopted in five year capital plan for storm water work.
IDDE -4	Illicit Discharge Detection and Elimination	DPW/Andrew B. DeSantis	Establish Program within 1 year	Continued IDDE work this year	\$125,000 annually adopted in five year capital plan for storm water work.
Revised					
Revised					
Revised					

#### 3a. Additions


**4. Construction Site Stormwater Runoff Control**

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 12 (Reliance on non-municipal partners indicated, if any)</b>	<b>Planned Activities – Permit Year 13</b>
CSRC -1	Develop Storm Water Discharge Permitting Standards	DPW/Andrew B. DeSantis	Establish Permitting Standards within 1 year	Adopted revised Sewer, Water and Storm Water Ordinances October 19, 2009.	Update in conjunction with permit conditions of revised NPDES MS4 permit.
CSRC -2	Erosion Sediment Control Ordinance	DPW/Andrew B. DeSantis	Develop Ordinance within 1 year.	Adopted revised Sewer, Water and Storm Water Ordinances October 19, 2009.	Update in conjunction with permit conditions of revised NPDES MS4 permit.
CSRC -3	Inspection Program Guideline	DPW/Andrew B. DeSantis	Establish within 1 year.	Funding for inspection provided in annual Capital Improvement Program.	Continue to fund under annual Capital Improvement Program.
Revised					
Revised					
Revised					

**4a. Additions**


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

<b>BMP ID #</b>	<b>BMP Description</b>	<b>Responsible Dept./Person Name</b>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s) – Permit Year 12</b> (Reliance on non-municipal partners indicated, if any)	<b>Planned Activities – Permit Year 13</b>
PCRC -1	Post Construction Ordinance	DPW/Andrew B. DeSantis	Develop within 1 year.	Adopted revised Sewer, Water and Storm Water Ordinances October 19, 2009.	Update in conjunction with permit conditions of revised MS4 permit when effective.
PCRC -2	Operation and Maintenance Agreement	DPW/Andrew B. DeSantis	Develop within 1 year	Operation Maintenance plans required of any new development/redevelopment.	Update in conjunction with permit conditions of revised MS4 permit when effective.
PCRC -3	Inspection program guidelines	DPW/Andrew B. DeSantis	Set up inspection program for post construction runoff controls within 2 years	Funding for inspection provided in annual Capital Improvement Program.	Continue to fund under annual Capital Improvement Program.
Revised					
Revised					
Revised					

**5a. Additions**


**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 12 (Reliance on non-municipal partners – indicated, if any)	Planned Activities – Permit Year 13
MGH -1	Street Cleaning Program	DPW/Andrew B. DeSantis	Continue ongoing program of sweeping every street twice a month from April 1 to November 30.	Completed; in fact, expanded sweeping timeframe to being performed from March 1 to December 31.	Continue program.
MGH -2	Programmed Catch Basin Cleaning	DPW/Andrew B. DeSantis	Continue ongoing contracted catch basin cleaning at the rate of 33% of all catch basins per year.	500 Catch basins cleaned year 12.	Clean 500 catch basins year 13.
MGH -3	Spill Response & Prevention	DPW/Andrew B. DeSantis	Review existing response plan and update within 1 year.	Not completed.	Complete review and update by end Year 13.
Revised					
Revised					
Revised					
Revised					

**6a. Additions**

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**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 12 (Reliance on non-municipal partners indicated, if any)	Planned Activities – Permit Year 13
TMD L-1	Streetsweeping	DPW/Andrew B. DeSantis	Continue contracted program of streetsweeping every street 2x/month March 1 to December 31	Ongoing	Continue program.
Revised					
TMD L-2	Catch Basin Cleaning	DPW/Andrew B. DeSantis	Continue contracted program of cleaning 33% of catch basins per year	500 Catch basins cleaned Year 12.	Clean 500 catch basins.
Revised					
TMD L-3	Deep Sump Catch Basins	DPW/Andrew B. DeSantis	Require new and replacement catch basins to have deep sumps of CSRC-1	All newly installed catch basins for developments/redevelopments and roadway storm drain construction are equipped with deep sumps.	Update in conjunction with permit conditions of revised MS4 permit when effective.
Revised					
TMD L-4	Oil and gas separators	DPW/Andrew B. DeSantis	Institute requirement in conjunction with CSRC-1	Catch basins at all new developments are required to have oil and gas separators.	Update in conjunction with permit conditions of revised MS4 permit when effective.
Revised					
Revised					

**7a. Additions**

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**7b. WLA Assessment**

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#### **Part IV. Summary of Information Collected and Analyzed**

The following is a listing of information collected (March 2014 – March 2015):

- Annual Dry- and Wet-Weather Stormwater Outfall Sampling: see September 12, 2014 report to EPA by Weston & Sampson.
- Sanitary Sewer Overflow: see MassDEP SSO report for Nichols Street, December 14, 2014.
- Sanitary Sewer Overflow: see MassDEP SSO report for 22-24 Washington Avenue, March 16, 2015.
- Status of IDDE Program: see July 28, 2014 and January 29, 2015 Bi-Annual Progress Reports to EPA by Weston & Sampson.

**Part V. Program Outputs & Accomplishments (OPTIONAL)**

**Programmatic**

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

**Education, Involvement, and Training**

Estimated number of residents 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.)	
Household Hazardous Waste Collection Days		
▪ days sponsored	(#)	
▪ community participation	(%)	
▪ material collected	(tons or gal)	
School curricula implemented	(y/n)	

**Legal/Regulatory**

	In Place Prior to Phase II	Under Review	Drafted	Adopted
<b>Regulatory Mechanism Status (indicate with "X")</b>				
▪ Illicit Discharge Detection & Elimination				X
▪ Erosion & Sediment Control				X
▪ Post-Development Stormwater Management				X
<b>Accompanying Regulation Status (indicate with "X")</b>				
▪ 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	(#)	25
System-Wide mapping complete	(%)	100%
Mapping method(s)		
▪ Paper/Mylar	(%)	100%
▪ CADD	(%)	no longer maintained
▪ GIS	(%)	100%
Outfalls inspected/screened	(# or %)	100%
Illicit discharges identified	(#)	
Illicit connections removed	(#) (est. gpd)	
% of population on sewer	(%)	100%
% of population on septic systems	(%)	0%

### Construction

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	(%)	100%
Site inspections completed	(# or %)	
Estimated volume of stormwater recharged	(gpy)	

**Operations and Maintenance**

Average frequency of catch basin cleaning (non-commercial/non-arterial streets)	(times/yr)	As needed and every third year
Average frequency of catch basin cleaning (commercial/arterial or other critical streets)	(times/yr)	As needed and every third year
Total number of structures cleaned	(#)	500
Storm drain cleaned	(LF or mi.)	
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.)		Lined Landfill
Cost of screenings disposal	(\$)	

Average frequency of street sweeping (non-commercial/non-arterial streets)	(times/yr)	26/yr
Average frequency of street sweeping (commercial/arterial or other critical streets)	(times/yr)	200/yr
Qty. of sand/debris collected by sweeping	(lbs. or tons)	
Disposal of sweepings (landfill, POTW, compost, beneficial use, etc.)	(location)	landfill
Cost of sweepings disposal	(\$)	
Vacuum street sweepers purchased/leased	(#)	
Vacuum street sweepers specified in contracts	(y/n)	

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

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