

Town of Hull, MA  
Stormwater Management Program (SWMP):  
Volume 4  
NPDES Phase II Small MS4 General Permit  
June 2022

ANNUAL REPORTING

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**B E T A**

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[www.BETA-Inc.com](http://www.BETA-Inc.com)

# Stormwater Management Program (SWMP): Volume 4

## Town of Hull, MA

### NPDES Phase II Small MS4 General Permit

## ANNUAL REPORTING

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Prepared by: BETA GROUP, INC.  
Prepared for: Town of Hull, MA

June 2022

## EXECUTIVE SUMMARY

The Stormwater Management Plan (SWMP) is comprised of four volumes that help guide community activities under the 2016 MS4 general permit. This report is Volume 4 of 4, compiling the documentation required over each reporting period (July 1 to June 30) for assembly of annual reports due at the end of September each year.

- SWMP Volume 1 – Stormwater Management Plan
- SWMP Volume 2 – Illicit Discharge Detection and Elimination (IDDE) Plan
- SWMP Volume 3 – Good Housekeeping and Pollution Prevention (O&M) Plan
- SWMP Volume 4 – Annual Reporting

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- Authorization Letter
- Annual Report Year 1 (July 2018 – June 2019)
- Annual Report Year 2 (July 2019 – June 2020)
- Annual Report Year 3 (July 2020 – June 2021)
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# **Notice of Intent**

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**Part I: General Conditions**

**General Information**

Name of Municipality or Organization:  State:

EPA NPDES Permit Number (if applicable):

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

Fax Number:

**Other Information**

Stormwater Management Program (SWMP) Location

**Eligibility Determination**

Endangered Species Act (ESA) Determination Complete?

Eligibility Criteria (check all that apply):  A  B  C

National Historic Preservation Act (NHPA) Determination Complete?

Eligibility Criteria (check all that apply):  A  B  C

Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

**MS4 Infrastructure** (if covered under the 2003 permit)

**Estimated Percent of Outfall Map Complete?**  If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY):

*(Part II, III, IV or V, Subpart B.3.(a.) of 2003*

Web address where MS4 map is published:

If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)

**Regulatory Authorities** (if covered under the 2003 permit)

<b>Illicit Discharge Detection and Elimination (IDDE) Authority Adopted?</b>	<input type="text" value="No"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY):	<input type="text" value="06/30/19"/>
<b>Construction/Erosion and Sediment Control (ESC) Authority Adopted?</b>	<input type="text" value="Yes"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY):	<input type="text" value="01/01/18"/>
<b>Post- Construction Stormwater Management Adopted?</b> <small>(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)</small>	<input type="text" value="Yes"/>	Effective Date or Estimated Date of Adoption (MM/DD/YY):	<input type="text" value="05/2003"/>

## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

*Massachusetts list of impaired waters: [Massachusetts 2014 List of Impaired Waters- http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf](http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf)*

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2.a of the permit. List any other pollutants in the last column, if applicable.

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
MA70-09 Hull Bay	24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fecal coliform, PCB in fish tissue, other
MA74-11 Weir River	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fecal coliform, PCB in fish tissue, other
Straits Pond	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
MA70-01 Boston Harbor	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fecal coliform, PCB in fish tissue, other
MA70-07 Hingham Bay	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fecal coliform, PCB in fish tissue, other
Massachusetts Bay	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

#### MCM 1: Public Education and Outreach

BMP Media/Category (enter your own text to override the drop down menu)	BMP Description	Targeted Audience	Responsible Department/Parties (enter your own text to override the drop down menu)	Measurable Goal	Beginning Year of BMP Implementation
Brochures/Pamphlets	Mailing, Website, event, phone contact, site visit, Pet Waste Outreach Program and/or other means	Residents	DPW and Stormwater Committee with NSRWA	See Note 4	2019
Brochures/Pamphlets	Mailing, Website, event, phone contact, site visit, and/or other means	Businesses, Institutions and Commercial Facilities	DPW and Stormwater Committee with NSRWA	See Note 4	2019
Brochures/Pamphlets	Mailing, Website, event, phone contact, site visit, and/or other means	Developers (construction)	DPW and Stormwater Committee with NSRWA	See Note 4	2020
Brochures/Pamphlets	Mailing, Website, event, phone contact, site visit, and/or other means	Industrial Facilities	DPW and Stormwater Committee with NSRWA	See Note 4	2020
School Curricula/Programs	Mailing, Website, event, phone contact, site visit, and/or other means	Residents	DPW and Stormwater Committee with NSRWA	See Note 4	2021
Web Page	Mailing, Website, event, phone contact, site visit, and/or other means	Businesses, Institutions and Commercial Facilities	DPW and Stormwater Committee with NSRWA	See Note 4	2021

Web Page	Mailing, Website, event, phone contact, site visit, and/or other means	Developers (construction)	DPW and Stormwater Committee with NSRWA	See Note 4	2022
Web Page	Mailing, Website, event, phone contact, site visit, and/or other means	Industrial Facilities	DPW and Stormwater Committee with NSRWA	See Note 4	2022



### Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary *(continued)*

MCM 2: Public Involvement and Participation

<b>BMP Categorization</b>	<b>Brief BMP Description</b> <small>(enter your own text to override the drop down menu)</small>	<b>Responsible Department/Parties</b> <small>(enter your own text to override the drop down menu)</small>	<b>Additional Description/ Measurable Goal</b>	<b>Beginning Year of BMP Imple- mentation</b>
Public Review	SWMP Review	DPW and Stormwater Committee	Allow annual review of stormwater management plan and posting of stormwater management plan on website	2019
Public Participation	Provide an opportunity for the public to comment on the SWMP	DPW and Stormwater Committee	Allow public to comment on stormwater management plan annually	2019



**Notice of Intent (NOI) for coverage under Small MS4 General Permit**

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

<b>BMP Categorization</b> (enter your own text to override the drop down menu)	<b>BMP Description</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b> (all text can be overwritten)	<b>Beginning Year of BMP Implementation</b>
SSO inventory	Develop SSO inventory in accordance of permit conditions	DPW	Complete within 1 year of effective date of permit	2018
Storm sewer system map	Create map and update during IDDE program completion	DPW	Update map within 2 years of effective date of permit and complete full system map 10 years after effective date of permit	2019
Written IDDE program	Create written IDDE program	DPW	Complete within 1 year of the effective date of permit and update as required	2018
Implement IDDE program	Implement catchment investigations according to program and permit conditions	DPW	Complete 10 years after effective date of permit	2020
Employee training	Train employees on IDDE implementation	DPW	Train annually	2018
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	DPW	Complete 3 years after effective date of permit	2019
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	DPW	Complete 10 years after effective date of permit	2020
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	DPW	Complete ongoing outfall screening upon completion of IDDE program	2022

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### Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

<b>BMP Categorization</b> (enter your own text to override the drop down menu or entered text)	<b>BMP Description</b>	<b>Responsible Department/Parties</b> (enter your own text to override the drop down menu)	<b>Measurable Goal</b> (all text can be overwritten)	<b>Beginning Year of BMP Implementation</b>
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	DPW with Building Officials, Town Planner, Conservation Commission	Complete within 1 year of the effective date of permit	2018
Site plan review	Complete written procedures of site plan review and begin implementation	DPW with Building Officials, Town Planner, Conservation Commission	Complete within 1 year of the effective date of permit	2018
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	DPW with Building Officials, Town Planner, Conservation Commission	Complete within 1 year of the effective date of permit	2018
Waste Control	Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	DPW with Building Officials, Town Planner, Conservation Commission	Complete within 1 year of the effective date of permit	2018



## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary *(continued)*

#### MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

<b>BMP Categorization</b> <small>(enter your own text to override the drop down menu or entered text)</small>	<b>BMP Description</b>	<b>Responsible Department/Parties</b> <small>(enter your own text to override the drop down menu)</small>	<b>Measurable Goal</b> <small>(all text can be overwritten)</small>	<b>Beginning Year of BMP Implementation</b>
As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP	DPW with Town Boards	Require submission of as-built plans for completed projects	2019
Target properties to reduce impervious areas	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually	DPW with Town Planner, Conservation Commission and Stormwater Committee	Complete 4 years after effective date of permit and report annually on retrofitted properties	2021
Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	DPW with Town Planner, Conservation Commission and Stormwater Committee	Complete 4 years after effective date of permit and implement recommendations of report	2021

<p>Street design and parking lot guidelines</p>	<p>Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.</p>	<p>DPW with Town Planner, Conservation Commission and Stormwater Committee</p>	<p>Complete 4 years after effective date of permit and implement recommendations of report</p>	<p>2021</p>
<p>Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook</p>	<p>Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements</p>	<p>DPW with Town Planner, Conservation Commission and Stormwater Committee</p>	<p>Complete 2 years after effective date of permit</p>	<p>2019</p>





## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary *(continued)*

#### MCM 6: Municipal Good Housekeeping and Pollution Prevention

<b>BMP Categorization</b> <small>(enter your own text to override the drop down menu or entered text)</small>	<b>BMP Description</b>	<b>Responsible Department/Parties</b> <small>(enter your own text to override the drop down menu)</small>	<b>Measurable Goal</b> <small>(all text can be overwritten)</small>	<b>Beginning Year of BMP Implementation</b>
O&M procedures	Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment	DPW with Stormwater Committee	Complete and implement 2 years after effective date of permit	2019
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	DPW with Stormwater Committee	Complete 2 years after effective date of permit and implement annually	2019
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	DPW with Stormwater Committee	Complete 2 years after effective date of permit	2019
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	DPW	Complete and implement 2 years after effective date of permit	2019
Catch basin cleaning	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule	DPW	Clean catch basins on established schedule and continue to report number of catch basins cleaned and volume of material moved annually	2018
Street sweeping program	Sweep all streets and permittee-owned parking lots in accordance with permit conditions	DPW	Sweep all streets and permittee-owned parking lots once per year in the spring	2018



### Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary *(continued)*

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, enter your own text to override drop-down menus.

Applicable TMDL	Action Description	Responsible Department/Parties <small>(enter your own text to override the drop down menu)</small>
N/A	Adhere to requirements in part A.I of Appendix F	N/A
N/A	Adhere to requirements in part A.I of Appendix F	N/A
N/A	Adhere to requirements in part A.I of Appendix F	N/A

## Notice of Intent (NOI) for coverage under Small MS4 General Permit

### Part III: Stormwater Management Program Summary (continued)

#### Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
Fecal coliform	MA70-09 Hull Bay, MA74-11 Weir River, MA70-01 Boston Harbor, MA70-07 Hingham Bay	Adhere to requirements in part III of Appendix H	DPW with Stormwater Committee
N/A	N/A	Adhere to requirements in part III of Appendix H	N/A
N/A	N/A	Adhere to requirements in part II of Appendix H	N/A
N/A	N/A	Adhere to requirements in part V of Appendix H	N/A
N/A	N/A	Adhere to requirements in part V of Appendix H	N/A

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Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1 and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary. Also, provide any additional information about your MS4 program below.

- 1) Where a "beginning year" is requested we have listed the first year of the applicable fiscal year. Fiscal years run from July 1 to June 30 and correspond to permit years (i.e. permit year 1 is 2018).
- 2) For the purposes of NOI outfall mapping, "receiving waters" are considered as waterbodies and wetlands delineated by the USGS 25k hydrography data layers, which consists of hydrographic (water-related) features including surface waters (rivers, streams, lakes, ponds, springs, impoundments, estuaries, wetlands, coastal waters and vernal pools). The number of outfalls into a receiving water segment listed in Part II: Summary of Receiving Waters include those discharging within a 100' of a wetland or 200' of a surface water. All other outfalls are considered to be upland of receiving waters and are included in the map for use by the Town only.
- 3) According to Appendix C - Endangered Species Act Eligibility Guidance and the IPaC report, the project meets USFWS Criteria B. A letter requesting concurrence with this and the determination of "may affect, not likely to adversely affect" for the Town of Hull was submitted to USFWS on August 16, 2018 and amended through correspondence with David Simmons of USFWS via phone and email on 8/21/2018. A letter of concurrence from USFWS dated 9/24/2018 was provided by email and is included as an attachment.
- 4) The Town of Hull is a member of the North and South Rivers Watershed Association (NSRWA) who helps communities meet both the MS4 and Water Management Act education requirements through their WaterSmart program. The Town of Hull in collaboration with NSRWA is working to develop a plan for deliverables for the MS4 educational requirements of the permit.
- 5) The Town of Hull has an active Stormwater Committee consisting of representatives from the following Town departments: Department of Public Works, Board of Health, Conservation Department, Planning and Development, Schools, Sewer and Town Manager.

Part V: 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, I certify that 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.

Name: Philip E. Lemnios

Title: Town Manager

Signature: Date: 9/26/2018

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name

NOI Submission

Please submit the form electronically via email using the "Submit by Email" button below or send in a CD with your completed NOI. You may also print and submit via mail using the address below if you choose not to submit electronically. The outfall map required in Part I of the NOI (if applicable) can be submitted electronically as an email attachment OR as a paper copy.

Permittees that choose to submit their NOI electronically by email or by mailing a CD with the completed NOI form to EPA, will be able to download a partially filled Year 1 Annual Report at a later date from EPA.

Submit by email using this button. Or, send an email with attachments to: stormwater.reports@epa.gov

Save NOI for your records

EPA Submittal Address:

United States Environmental Protection Agency
5 Post Office Square - Suite 100
Mail Code - OEP06-1
Boston, Massachusetts 02109-3912
ATTN: Newton Tedder

State Submittal Address:

Massachusetts Department of Environmental Protection
One Winter Street - 5th Floor
Boston, MA 02108
ATTN: Fred Civian

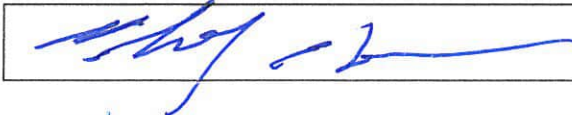


# Notice of Intent (NOI) for coverage under Small MS4 General Permit

## Part V: 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, I certify that 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.

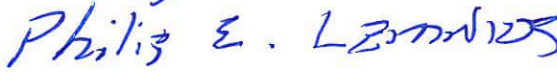
Name:



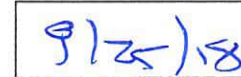
Title:



Signature:



Date:



*[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]*

Note: When prompted during signing, save the document under a new file name

## NOI Submission

Please submit the form electronically via email using the "Submit by Email" button below or send in a CD with your completed NOI. You may also print and submit via mail using the address below if you choose not to submit electronically. The outfall map required in Part I of the NOI (if applicable) can be submitted electronically as an email attachment OR as a paper copy.

**Permittees that choose to submit their NOI electronically by email or by mailing a CD with the completed NOI form to EPA, will be able to download a partially filled Year 1 Annual Report at a later date from EPA.**

Submit by email using this button. Or, send an email with attachments to: [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov)

Save NOI for your records

### EPA Submittal Address:

United States Environmental Protection Agency  
5 Post Office Square - Suite 100  
Mail Code - OEP06-1  
Boston, Massachusetts 02109-3912  
ATTN: Newton Tedder

### State Submittal Address:

Massachusetts Department of Environmental Protection  
One Winter Street - 5th Floor  
Boston, MA 02108  
ATTN: Fred Civian

Hull, MA

# MS4 NOI

*September 2018*

## NOTICE OF INTENT FOR COVERAGE UNDER SMALL MS4 GENERAL PERMIT

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**BETA**

315 Norwood Park South  
2nd Floor  
Norwood, Massachusetts 02062  
781.255.1982  
[www.BETA-Inc.com](http://www.BETA-Inc.com)

# MS4 NOI

Hull, MA

## NOTICE OF INTENT FOR COVERAGE UNDER SMALL MS4 GENERAL PERMIT

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Prepared by: BETA GROUP, INC.

Prepared for: Town of Hull

September 2018

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## Melissa Recos

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**From:** Dykstra, Eliese <eliese\_dykstra@fws.gov>  
**Sent:** Tuesday, September 25, 2018 11:47 AM  
**To:** Melissa Recos  
**Subject:** USFWS Section 7 Concurrence Letter: MA 2016 Small MS4 General Permit  
**Attachments:** 20180924\_EPA\_2016MS4Permit\_Letter\_Massachusetts Signed.pdf

Dear Melissa Recos,

Thank you for contacting us regarding the Massachusetts 2016 Small MS4 General Permit for the town of Hull. Due to the large volume of consultation requests we have received in the past few months for the MA MS4 General Permit, we have created a letter in accordance with section 7 of the Endangered Species Act that may be used in place of an individual concurrence letter for projects that meet certain criteria. We have reviewed your consultation request for listed species that may be in your project action area and have attached our signed response below for you to include in your EPA application.

If you have questions or concerns, please let me know. I can be reached by email at [eliese\\_dykstra@fws.gov](mailto:eliese_dykstra@fws.gov), or phone at (603) 227-6427.

Sincerely,  
Eliese Dykstra

--

Eliese Dykstra  
Fish and Wildlife Biologist  
U.S. Fish and Wildlife Service  
New England Field Office  
70 Commercial Street, Suite 300  
Concord, NH 03301  
Phone: 603-227-6427  
Email: [eliese\\_dykstra@fws.gov](mailto:eliese_dykstra@fws.gov)



# United States Department of the Interior



## FISH AND WILDLIFE SERVICE

New England Field Office  
70 Commercial St, Suite 300  
Concord, NH 03301-5087  
<http://www.fws.gov/newengland>

September 24, 2018

To whom it may concern:

The U.S. Fish and Wildlife Service (USFWS) reviewed the stormwater discharge activities associated with the 2016 National Pollutant Discharge and Elimination System (NPDES) Massachusetts (MA) Small Municipal Separate Storm Sewer System (MS4) general permit (MA MS4 General Permit) issued by the Environmental Protection Agency (EPA). We determined those activities may affect, but are not likely to adversely affect, certain species listed under the Endangered Species Act (ESA) of 1973 (87 Stat. 884, as amended; 16 U.S.C. 1531 *et seq.*) when specific conditions are met. When these conditions are met, we do not need to review individual projects. These comments are provided in accordance with section 7 of the ESA and complement existing 2016 MA MS4 General Permit Appendix C Guidance. We understand the applicant is acting as a non-Federal representative of the EPA for the purpose of consultation under section 7. **This letter provides additional guidance for meeting Criterion B and should be submitted as part of your application package to the EPA.**

If the USFWS Information for Planning and Consultation website (<https://ecos.fws.gov/ipac/>) indicates your MA MS4 General Permit project action area may contain one or more of the following federally listed endangered species: roseate tern (*Sterna dougallii*), northern red-bellied cooter (*Pseudemys rubriventris*), dwarf wedgemussel (*Alasmidonta heterodon*), rusty patched bumble bee (*Bombus affinis*), northeastern bulrush (*Scirpus ancistrochaetus*), or American chaffseed (*Schwalbea americana*); threatened species: piping plover (*Charadrius melodus*), bog turtle (*Glyptemys muhlenbergii*), Puritan tiger beetle (*Cicindela puritana*), northeastern beach tiger beetle (*Cicindela dorsalis*), or red knot (*Calidris canutus rufa*); or their federally designated critical habitat; and the specific conditions listed below are met, you may submit this letter to complete the **MA MS4 General Permit Appendix C: Step 4** in place of a concurrence letter for informal consultation as documentation of ESA eligibility for **USFWS Criterion B**.

In addition, this letter also satisfies the requirement in the **MA MS4 General Permit Appendix C: Step 2 (3)** to contact the USFWS and obtain a concurrence letter, if you have not yet done so. If your project action area includes one or more of the above-listed species *and* one or more of the

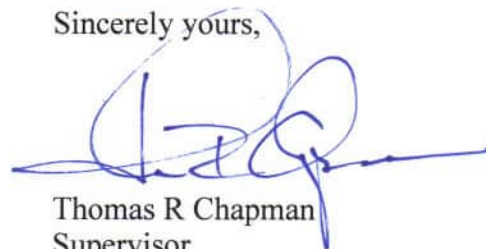
species listed under **Criterion C**,<sup>1</sup> you may still use this letter to certify under **Criterion B**. All existing guidance regarding requirements for certifying eligibility according to the USFWS Criterion A, B, or C for coverage by the 2016 MS4 Permit (see MA MS4 General Permit Appendix C – Endangered Species Guidance) remains unchanged.

We have determined that proposed stormwater discharge activities covered under the 2016 MS4 Permit *may affect, but are not likely to adversely affect*, the above-listed species and the species' critical habitat when the following are true:

1. all stormwater discharges are pre-existing or previously permitted by EPA;
2. any planned operations and maintenance work covered by this permit will only affect previously disturbed areas where stormwater controls are already installed. In these situations the chance of encountering any of the subject species is discountable;
3. the project implements EPA MS4 Best Management Practices (BMPs) and meets Clean Water Act and Massachusetts Water Quality Standards. Although permitted discharges may reach the environment used by these species, BMPs reduce pollutants to the extent that discharges are not known to have measurable impacts on these species or their habitat;
4. no new construction or structural BMPs are proposed under this permit at this time; and
5. you agree that if, during the course of the permit term, you plan to install a structural BMP not identified in the Notice of Intent (NOI), you will re-initiate consultation with the USFWS as necessary (see **MA MS4 General Permit Appendix C: Step 2 (5)**).

If the above criteria are met, further consultation with the USFWS under section 7 of the ESA is not required at this time; however, if the proposed action changes in any way such that it may affect a listed species in a manner not previously analyzed or if new information reveals the presence of additional listed species that may be affected by the project, the applicant or the EPA should contact us immediately and suspend activities that may affect those species until the appropriate level of consultation is completed with our office. Thank you for your cooperation, and please contact David Simmons of this office at (603) 227-6425 if you have questions or need further assistance.

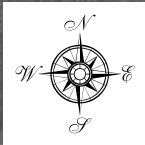
Sincerely yours,



Thomas R Chapman  
Supervisor  
New England Field Office

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<sup>1</sup> Criterion C includes guidance for project action areas that may contain species for which EPA has already made a determination. These species include the northern long-eared bat (*Myotis septentrionalis*), sandplain gerardia (*Agalinis acuta*), small whorled pogonia (*Isotria medeoloides*), and/or American burying beetle (*Nicrophorus americanus*) (MA MS4 General Permit Appendix C: Step 3 – Determine if You Can Meet Eligibility USFWS Criterion C).



# Town of Hull

Department of  
Public Works

## Drainage Map

November 2007

**Legend**

**Pipe Opening**

- ▲ Outfall
- Culvert Inlet
- Culvert Outlet
- Drain Inlet
- ▲ Drain Outlet
- Inlet
- Other

**Inflow Control Device**

- Flapper Valve
- Other
- Pump
- Tide Flex Valve
- Tide Gate

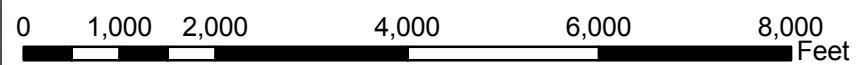
**Structure**

- Catchbasin
- Drainage Manhole
- Dry Well
- Other
- × Vault

**Drainage Area**

- Detention Basin
- Waterbody
- Wet Area

1 inch equals 2,000 feet



**Data Sources:**  
GPS Features - Town of Hull - 2007  
Color Orthophoto - MassGIS - 2005



# Authorization Letter

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 1  
5 POST OFFICE SQUARE, SUITE 100  
BOSTON, MA 02109-3912

VIA EMAIL

May 30, 2019

Philip E.. Lemnios  
Town Manager

And;

James Dow  
Director of Public Works  
9 Nantasket Avenue  
Hull, MA. 02045  
jdow@town.hull.ma.us

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041040, Town of Hull

Dear James Dow:

The 2016 NPDES General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (MS4 General Permit) is a jointly issued EPA-MassDEP permit. Your Notice of Intent (NOI) for coverage under this MS4 General Permit has been reviewed by EPA and appears to be complete. You are hereby granted authorization by EPA and MassDEP to discharge stormwater from your MS4 in accordance with the applicable terms and conditions of the MS4 General Permit, including all relevant and applicable Appendices. This authorization to discharge expires at midnight on **June 30, 2022**.

For those permittees that certified Endangered Species Act eligibility under Criterion C in their NOI, this authorization letter also serves as EPA's concurrence with your determination that your discharges will have no effect on the listed species present in your action area, based on the information provided in your NOI.

As a reminder, your first annual report is due by **September 30, 2019** for the reporting period from May 1, 2018 through June 30, 2019.

Information about the permit and available resources can be found on our website:  
<https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit>. Should you have

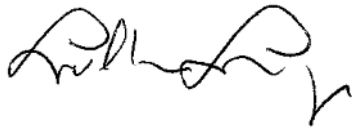
any questions regarding this permit please contact Newton Tedder at [tedder.newton@epa.gov](mailto:tedder.newton@epa.gov) or (617) 918-1038.

Sincerely,

A handwritten signature in blue ink that reads "Thelma Murphy". The signature is written in a cursive style with a long, sweeping flourish at the end.

Thelma Murphy, Chief  
Stormwater and Construction Permits Section  
Office of Ecosystem Protection  
United States Environmental Protection Agency, Region 1

and;

A handwritten signature in black ink that reads "Lealdon Langley". The signature is written in a cursive style with a long, sweeping flourish at the end.

Lealdon Langley, Director  
Wetlands and Wastewater Program  
Bureau of Water Resources  
Massachusetts Department of Environmental Protection

# **Annual Report Year 1**

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**Year 1 Annual Report**  
**Massachusetts Small MS4 General Permit**  
**Reporting Period: May 1, 2018-June 30, 2019**

*\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\**

*Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed.*

**Part I: Contact Information**

Name of Municipality or Organization:

EPA NPDES Permit Number:

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

Fax Number:

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address and an explanation of why it is not posted on the web:

## Part II: Self Assessment

*First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.*

**Impairment(s)**

Bacteria/Pathogens     
  Chloride     
  Nitrogen     
  Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*     
  Assabet River Phosphorus     
  Bacteria and Pathogen     
  Cape Cod Nitrogen  
 Charles River Watershed Phosphorus     
  Lake and Pond Phosphorus

*Out of State:*     
  Bacteria/Pathogens     
  Metals     
  Nitrogen     
  Phosphorus

Clear Impairments and TMDLs

*Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.*

Year 1 Requirements

- Develop and begin public education and outreach program
- Identify and develop inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years
  - The SSO inventory is attached to the email submission
  - The SSO inventory can be found at the following website:
- Develop written IDDE plan including a procedure for screening and sampling outfalls
- IDDE ordinance complete
- Identify each outfall and interconnection discharging from MS4, classify into the relevant category, and priority rank each catchment for investigation
  - The priority ranking of outfalls/interconnections is attached to the email submission
  - The priority ranking of outfalls/interconnections can be found at the following website:
- Construction/ Erosion and Sediment Control (ESC) ordinance complete
- Develop written procedures for site inspections and enforcement of sediment and erosion control measures
- Develop written procedures for site plan review
- Keep a log of catch basins cleaned or inspected
- Complete inspection of all stormwater treatment structures

Annual Requirements

- Annual opportunity for public participation in review and implementation of SWMP
- Comply with State Public Notice requirements
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- All curbed roadways have been swept a minimum of one time per year

**Bacteria/ Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach\**

- Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

*\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Use the box below to input additional details on any unchecked boxes above or any additional information you would like to share as part of your self assessment:

SWMP and IDDE plans were completed in September 2019. These plans include the following:  
 SSO inventory has been recorded since May 1, 2015 (IDDE plan)  
 Procedure for screening and sampling outfalls (IDDE plan)  
 Outfall inventory and initial ranking (IDDE plan)  
 Written site plan review procedures (SWMP plan)  
 Written procedures for site inspection and enforcement of erosion controls (SWMP plan)  
 Stormwater Treatment Structure Inspection and Maintenance Procedures (SWMP plan)

The Town has a Stormwater Bylaw: General Bylaw Chapter 84 - The bylaw requires practices that will control stormwater generated at development sites, and provide treatment to protect groundwater and surface water from degradation however it does not meet all requirements of the permit. The Town is currently working to create a complete Stormwater/MS4 bylaw that will meet the permit including year 2 requirements. On September 18, 2019, the SWMP Team had a meeting to discuss progress on their IDDE ordinance and the ESC ordinance, and set a goal of adoption at the May 2020 Town Meeting scheduled for October 24, 2019.

The Town has scheduled its first annual IDDE program training with BETA Group, Inc. on October 24th, 2019.

In regards to Public Education and Outreach, NSRWA has promoted septic system maintenance and plans to distribute an annual message for residents on this topic in September 2019.

The Town does not have structural BMPs on record for inspection. This will be further evaluated in Year 2.

### **Part III: Receiving Waters/Impaired Waters/TMDL**

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

Yes  No

If yes, describe below, including any relevant impairments or TMDLs:



## Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

### MCM1: Public Education

Number of educational messages completed during the reporting period:

Below, report on the educational messages completed during the first year. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

#### **BMP: School Program: Stormwater and conservation messaging**

Message Description and Distribution Method:

School Program: Stormwater and conservation messaging - Groundwater model, watershed model and cleaning dirty water taught to elementary school students and parent volunteers in school program

Methods: School curriculum, programs, press release, social media post

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

To educate 5th grade students and parent volunteers at the Jacobs Elementary School. The program ran for 1 day and there were 80 students and 14 parent volunteers.

In a sample survey, 85% of the students and 80% of the parents reported having a greater understanding of where their water comes from AFTER the program, 90% of the students and 80% of the parents reported having a greater understanding of the importance of conserving water AFTER the program, and 80% of the students and parents reported having a greater understanding of how pollutants and runoff affect the quality of water AFTER the program.

A press release went out to the town, the Globe, the Patriot Ledger, and the Hull Times. The program was also posted on the NSRWA Facebook page with a reach of 446 people and 11 engagements, and on the Hull Happenings Facebook page.

Additionally, the program was posted on the General WaterSmart web page with 565 page views.

Message Date(s):

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

#### **BMP: Regional Rain Barrel Sale - Education**

## Message Description and Distribution Method:

Regional Rain Barrel Sale - Education about water conservation and the reduction of stormwater from impervious surfaces

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A press release went out to the town, the Globe, the Patriot Ledger, and the Hull Times. Facebook posts were made on the NSRWA page. Information about the sale went out in the NSRWA E-newsletter to 6,000+ subscribers. There were 6 rain barrels sold in Hull.

Additionally, the sale was publicized on the NSRWA website with 1,352 page views and the Rain Barrel and Composter page with 213 views.

Message Date(s): April 2, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Gardening Green Expo**

## Message Description and Distribution Method:

Gardening Green Expo - Regional event for WaterSmart South Shore Communities that provides information on how residents can reduce stormwater pollution from better landscaping practices.

Methods: Special event, festival, fairs

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A press release went out to the town, the Globe, the Patriot Ledger, and the Hull Times. Information about the event went out in our E-newsletter 4 times to 6,000+ subscribers each time. There were 500 guests in attendance. The videos of the speakers are now being added to the NSRWA website and shared online and on Facebook. The NSRWA website had 1,078 page views.

Message Date(s): Expo was held on March 30, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Greenscapes Guide**

Message Description and Distribution Method:

Greenscapes Guide - Digital download of landscaping techniques that reduce stormwater pollutants (fertilizers, pesticides, herbicides)

Methods: Brochures and pamphlets, social media posts

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

We promoted the Greenscapes Guide at the Gardening Green Expo and handed out paper copies. It was promoted online and on the NSRWA Facebook page with a reach of 2,831 people and 187 engagements. There have been no downloads from Hull at this time. It will be posted again.

Additionally, this guide received 344 web page views on Greenscapes Guide and received 181 web page views on Greenscapes page.

Message Date(s): Expo was held on March 30, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements Was this message different than what was proposed in your NOI? Yes  No 

If yes, describe why the change was made:

**BMP: MS4 messages**

Message Description and Distribution Method:

MS4 messages - Grass Clippings, and Fertilizer for May

Method: Social media posts

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A grass clippings message and a fertilizer message were both posted on the NSRWA Facebook page in May. The grass clippings message had a reach of 11,034 people and 472 engagements. The fertilizer message had a reach of 2,376 people and 239 engagements. Both messages were also posted on the Hull Happenings Facebook page. The grass clippings Facebook post was boosted in June with a \$50 ad targeted to all WaterSmart towns with a reach of 9,678 and 266 engagements, and a \$50 ad targeted to Hull with a reach of 2,999 and 372 engagements.

Additionally, these messages had 357 web page views on "Know Before You Mow!", 23 web page views on "Best Mowing Practices", and 19 web page views on Stormwater page.

Message Date(s): Grass clippings message on May 22, 2019 &amp; Fertilizer message on May 28, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

### **BMP: Pet Waste Education**

Message Description and Distribution Method:

Pet Waste Education - Printed Scoop It cards, web article, press release, and social media posts for June  
Methods: Brochures and pamphlets, social media posts, press release

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Pet waste Scoop It cards were distributed to the town clerk's office (100), and the Hull Seaside Animal Rescue (100). An article was written on The Problem of Dog Waste on the South Shore. This was sent to the Globe, the Patriot Ledger, and the Hull Times. The Patriot Ledger wrote a feature on it from our press release, and WATD did an on air interview. It was posted on the NSRWA Facebook page with a reach of 1,556 people and 197 engagements, and on the Hull Happenings Facebook page. Additionally, this information had 453 web page views on the "Problem of Dog Waste on the South Shore", 22 web page views on Pet Waste Education page, and 202 web page views on "Addressing the Elephant in the Room - Dog Waste on the South Shore."

Message Date(s): The Problem of Dog Waste on the South Shore posted June 13, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

Add an Educational Message

## **MCM2: Public Participation**

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during the reporting period:

The Town is working to get their stormwater webpage updated which will include posting of the SWMP and associated documentation required for year one to allow for public review and comment.

Was this opportunity different than what was proposed in your NOI? Yes  No

Describe any other public involvement or participation opportunities conducted during the reporting period:

The Town of Hull's social media (Facebook and Twitter) provide information and opportunities for residents to get involved. The DPW announced that Spring Chip Day was to be held on April 27, 2019 where residents could bring in some yard waste such as tree limbs and brush to be reduced to smaller wood chips free of charge.

The South Shore Recycling Cooperative designated 6 collection locations and dates for hazardous waste, and was advertised on social media on March 20, 2019 and May 30, 2018. Hull residents were allowed to participate in these collections at the Town's expense.

### **MCM3: Illicit Discharge Detection and Elimination (IDDE)**

#### **Sanitary Sewer Overflows (SSOs)**

*Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.*

Number of SSOs identified:

Number of SSOs removed:

*Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.*

Total number of SSOs identified:

Total number of SSOs removed:

#### **MS4 System Mapping**

Describe the status of your MS4 map, including any progress made during the reporting period (phase I map due in year 2):

The map included in the SWMP & IDDE Plan is up to date based on currently available information. The system map will continue to be maintained and updated as the Town gains more information.

#### **Screening of Outfalls/Interconnections**

*If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.*

- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

No outfall screening completed in this reporting period.

*Below, report on the number of outfalls/interconnections screened during this reporting period.*

Number of outfalls screened:

*Below, report on the percent of total outfalls/ interconnections screened to date.*

Percent of total outfalls screened:

### **Catchment Investigations**

*If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

No catchment investigations completed in this reporting period

*Below, report on the number of catchment investigations completed during this reporting period.*

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated to date.*

Percent of total catchments investigated:

*Optional: Provide any additional information for clarity regarding the catchment investigations below:*

### **IDDE Progress**

*If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.*

- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

No illicit discharges identified or removed this reporting period

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed during this reporting period.*

Number of illicit discharges identified: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 [UNITS]

Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed since the effective date of the permit.

Total number of illicit discharges identified: 0

Total number of illicit discharges removed: 0

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

[Empty text box for optional information]

**Employee Training**

Describe the frequency and type of employee training conducted during the reporting period:

The Town has scheduled its first annual IDDE program training with BETA Group, Inc. on October 24th, 2019.

**MCM4: Construction Site Stormwater Runoff Control**

Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period.

Number of site plan reviews completed: 19

Number of inspections completed: 30

Number of enforcement actions taken: 1

**MCM5: Post-Construction Stormwater Management in New Development and Redevelopment**

**Ordinance Development**

Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term:

The Town currently reviews and regulates storm water management for construction and post-construction through various boards. The Town is currently working to create a uniform Stormwater/MS4 bylaw that will include requirements for post-construction stormwater control to be completed in year 2.

### **As-built Drawings**

Describe the status of the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites required to be complete in year 2 of the permit term:

The Town is currently working to create a complete Stormwater/MS4 bylaw that will include these requirements of the Permit, to be completed in year 2.

### **Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

To be completed in year 4

### **Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

To be completed in year 4

### **Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

To be completed in year 4



**Catch Basin Cleaning**

Describe the status of the catch basin cleaning optimization plan:

See plan included in SWMP. There is additional information provided in the CRS Information attached

*If complete, attach the catch basin cleaning optimization plan or the schedule to gather information to develop the optimization plan:*

- The catch basin cleaning optimization plan or schedule is attached to the email submission
- The catch basin cleaning optimization plan or schedule can be found at the following website:

Procedures included in SWMP.

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins during this reporting period.*

Number of catch basins inspected: 1,440

Number of catch basins cleaned: 1,440

Total volume or mass of material removed from all catch basins: 191 cubic yards

*Below, report on the total number of catch basins in the MS4 system, if known.*

Total number of catch basins: 1,440

*If applicable:*

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

Will update once two inspections are completed.

**Street Sweeping**

Describe the status of the written procedures for sweeping streets and municipal-owned lots:

Completed. Procedures included in SWMP. Town swept all streets and parking lots once, meeting requirements of the permit. The mileage below indicates number of miles cleaned, based on length of town owned roads.

*Report on street sweeping completed during the reporting period using one of the three metrics below.*

Number of miles cleaned: 55

Volume of material removed: [UNITS]

○ Weight of material removed:  [UNITS]

*If applicable:*

For rural uncurbed roadways with no catch basins, describe the progress of the inspection, documentation, and targeted sweeping plan:

**Winter Road Maintenance**

Describe the status of the written procedures for winter road maintenance including the storage of salt and sand:

See procedures included in SWMP.

**Inventory of Permittee-Owned Properties**

Describe the status of the inventory, due in year 2 of the permit term, of permittee-owned properties, including parks and open spaces, buildings and facilities, and vehicles and equipment, and include any updates:

To be completed in year 2

**O&M Procedures for Parks and Open Spaces, Buildings and Facilities, and Vehicles and Equipment**

Describe the status of the operation and maintenance procedures, due in year 2 of the permit term, of permittee-owned properties (parks and open spaces, buildings and facilities, vehicles and equipment) and include maintenance activities associated with each:

To be completed in year 2

**Stormwater Pollution Prevention Plan (SWPPP)**

Describe the status of any SWPPP, due in year 2 of the permit term, for permittee-owned or operated facilities including maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater:

To be completed in year 2

*Below, report on the number of site inspections for facilities that require a SWPPP completed during this reporting period.*

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

### **O&M Procedures for Stormwater Treatment Structures**

Describe the status of the written procedure for stormwater treatment structure maintenance:

See procedures included in SWMP.

## **Additional Information**

### **Monitoring or Study Results**

*Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.*

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

### **Additional Information**

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

Hull has Stormwater System standard operating procedures for regular maintenance activities including semi-annual inspections of culverts and pipes for accumulated debris and sediment and regular maintenance of drainage swales and catch basins. Annual inspections are conducted on all stormwater infrastructure to ensure it is working properly and areas listed as "problem areas" are inspected more frequently. Records are kept as part of the Community Rating System (CRS) Annual Recertification. The CRS records are included as an attachment.

**Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 2 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

Annual Requirements


Provide any additional details on activities planned for permit year 2 below:

## Part V: Certification of Small MS4 Annual Report 2019

### 40 CFR 144.32(d) 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, I certify that 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.

Name: Philip E. Lemondis Title: Town Manager

Signature:  Date: 9/18/19

*[Signatory may be a duly authorized representative]*

## **Town of Hull MS4 Year 1 Annual Report Attachments**

### List of Attachments

1. 5 year SSO Inventory
2. Outfall Inventory and Ranking Matrix
3. CRS Records

# **Annual Report Year 2**

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**Year 2 Annual Report**  
**Massachusetts Small MS4 General Permit**  
**Reporting Period: July 1, 2019-June 30, 2020**

*\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\**

*Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.*

**Part I: Contact Information**

Name of Municipality or Organization:

EPA NPDES Permit Number:

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

## Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

**Impairment(s)**

Bacteria/Pathogens     
  Chloride     
  Nitrogen     
  Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*     
  Assabet River Phosphorus     
  Bacteria and Pathogen     
  Cape Cod Nitrogen  
 Charles River Watershed Phosphorus     
  Lake and Pond Phosphorus

*Out of State:*     
  Bacteria/Pathogens     
  Metals     
  Nitrogen     
  Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

Year 2 Requirements

- Completed Phase I of system mapping
- Developed a written catchment investigation procedure and added the procedure to the SWMP
- Developed written procedures to require the submission of as-built drawings and ensure the long term operation and maintenance of completed construction sites and added these procedures to the SWMP
- Enclosed or covered storage piles of salt or piles containing salt used for deicing or other purposes
- Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP
- Developed an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment and added this inventory to the SWMP
- Completed a written program for MS4 infrastructure maintenance to reduce the discharge of pollutants
  - Developed written SWPPPs, included in the SWMP, for all of the following permittee owned or
  - operated facilities: maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Phase 1 mapping: During this reporting period, the Town contracted with a consultant to map the entire drainage system (including all Phase 1 requirements). This work began on June 28th of this reporting period and at the time of this report submission 90% of the mapping data has been collected. Once mapping is

complete and reviewed, catchment delineations will be added and outfall screening will begin.

The operations and maintenance procedures, inventory and SWPPPs for Town facilities has not yet been completed. During this reporting period there was turnover and replacement of the Director of Public Works which caused a delay in addressing these requirements. A new director was hired in July and will address these tasks as soon as possible.

### Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - This is not applicable because we do not have sanitary sewer
  - This is not applicable because we did not find any new SSOs
  - The updated SSO inventory is attached to the email submission
  - The updated SSO inventory can be found at the following website:
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- Provided training to employees involved in IDDE program within the reporting period
- All curbed roadways were swept at least once within the reporting period
- Updated outfall and interconnection inventory and priority ranking as needed

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Update Outfall and Interconnection inventory and priority ranking: No new information was obtained during this reporting period that would warrant an update to the inventory and ranking. Drainage mapping (including interconnects and outfall screening is currently ongoing. Once complete the inventory and ranking will be updated accordingly.

### **Bacteria/ Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

#### Annual Requirements

##### *Public Education and Outreach\**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

*\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

*Optional:* Use the box below to provide any additional information you would like to share as part of your self-assessment:

### Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes
- No

If yes, describe below, including any relevant impairments or TMDLs:

## Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

### MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

**BMP: Pump It! It's SepticSmart Time**

Message Description and Distribution Method:

The North and South Rivers Watershed Association (NSRWA) created this post for distribution on social media platforms such as Facebook and Instagram for communities in the program to share with town residents. This post highlights the importance of proper septic system use and the disadvantages and issues to be aware of with improper maintenance procedures.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

A press release to went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Hull Times. A Facebook post was boosted in September with a \$50 ad targeted to all WaterSmart towns with a reach of 27,648 people and 656 engagements, and a \$50 ad targeted to Hull with a reach of 2,818 people and 188 engagements.

Message Date(s):

Message Completed for:    Appendix F Requirements     Appendix H Requirements

Was this message different than what was proposed in your NOI?    Yes     No

If yes, describe why the change was made:

**BMP: School Program: Stormwater and Conservation Messaging**

Message Description and Distribution Method:

Curriculum on groundwater modeling, watershed modeling and cleaning dirty water were taught to elementary school students and parent volunteers in the school program. The event was distributed through school curriculum, programs, press release, and social media posts.

Targeted Audience:

Responsible Department/Parties:

## Measurable Goal(s):

Due to the COVID-19 pandemic, the school program went virtual. Environmental Educator Brian Taylor created videos on the school program content that teachers used with their students. The teachers also had the Watershed Jeopardy game to play with the students. All of the teachers were also given a packet of supplemental materials to go with the program. A press release went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Hull Times. There were 535 views on the school program web page. The program was also posted on the NSRWA Facebook page with a reach of 884 people and 83 engagements. In a sample survey, 85% of the students and 85% of the parents reported having a greater understanding of where their water comes from AFTER the program, 85% of the students and 80% of the parents reported having a greater understanding of the importance of conserving water AFTER the program, and 85% of the students and 80% of the parents reported having a greater understanding of how pollutants and runoff affect the quality of water AFTER the program.

Message Date(s): February 24, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Regional Rain Barrel Sale**

## Message Description and Distribution Method:

Education about water conservation and the reduction of stormwater from impervious surfaces. Information about the sale was distributed through press release, social media posts, flyers, and the NSRWA and Town of Hull web pages.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A press release went out to the town, The Globe, the Patriot Ledger, Wicked Local, and the Hull Times. Facebook posts were made on the NSRWA page and town connect pages. Information about the sale went out in the NSRWA E-newsletter to 7,800+ subscribers. There were 60 rain barrels sold with 7 sold to residents of Hull.

Message Date(s): March 5, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Gardening Green Expo**

**Message Description and Distribution Method:**

This event was for NSRWA communities, which provided information on how residents could reduce stormwater pollution from improved landscaping practices. This event was conducted through videos due to the COVID-19 pandemic.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

**Measurable Goal(s):**

Due to the COVID-19 pandemic, the Gardening Green Expo went virtual. Speaker videos were uploaded online (including videos from last year) and the site achieved 2,399 web page views. Rain barrels were sold and downloadable water saving plant lists were available online. Also a drawing for a custom water saving garden design was available for people interested and 38 people registered for that drawing.

Message Date(s): March 12, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Greenscapes Guide****Message Description and Distribution Method:**

This is a digital download of landscaping techniques that reduce stormwater pollutants (fertilizers, pesticides, and herbicides)

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

**Measurable Goal(s):**

Due to the COVID-19 pandemic, the Greenscapes Guide could not be distributed at the Gardening Green Expo. The downloadable Greenscapes Guide was promoted online and on the NSRWA Facebook page. It was also promoted on the Hull Happenings and Today in Hull Facebook pages. There were 2 downloads from Hull. A How to Build a Rain Garden Zoom webinar was held with 25 attendees.

Message Date(s): Posted online for the duration of the year.

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:



**BMP: Fertilizer for May**

## Message Description and Distribution Method:

This Facebook message highlights the legality and harm behind adding fertilizer containing phosphorus. The post urges users to read more tips on the NSRWA website to become a more informed and responsible lawn caretaker.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A fertilizer message was posted on the NSRWA Facebook page in June. The fertilizer message had a reach of 23,001 people and 2,183 engagements. It was also posted to the Hull Happenings and Today in Hull Facebook pages. The Facebook post was boosted in June with a \$50 ad targeted to Hull with a reach of 1,960 people and 239 engagements. There were also 19 page views on the Know Before You Mow! web page, 106 page views on the Best Mowing Practices web page, and 172 page views on the Stormwater web page. A Zoom webinar on Stormwater was held in May with 17 attendees.

Message Date(s): May and June 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Grass Clippings in June**

## Message Description and Distribution Method:

This Facebook ad encourages homeowners to leave grass clippings on the yard instead of bagging them in order to help mitigate the issues of algal blooms in local lakes, ponds, and streams due to the high nutrient levels (nitrogen and phosphorus) in the grass clippings.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A grass clippings message was posted on the NSRWA Facebook page in June with a reach of 119,638 people and 24,325 engagements. It was also posted to the Hull Happenings and Today in Hull Facebook pages. The Facebook post was boosted in June with a \$50 ad targeted to Hull with a reach of 13,554 people and 655 engagements. There were also 19 page views on the Know Before You Mow! web page, 106 page views on the Best Mowing Practices web page, and 172 page views on the Stormwater web page.

Message Date(s): June 16, 2020 and September 5, 2020 (boosted)

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Pet Waste Education**

Message Description and Distribution Method:

This media post emulates the concern of improper disposal of pet waste on the South Shore. As a result, the NSRWA encourages community members to read more about proper pet waste handling on the NSRWA website.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Due to the COVID-19 pandemic, the Pet waste Scoop It cards were not distributed to town clerk's offices, vets and businesses. An article was written on The Problem of Dog Waste on the South Shore. This was sent to The Globe, the Patriot Ledger, Wicked Local, and the Hull Times. It was posted on the NSRWA Facebook page with a reach of 67,503 people and 10,088 engagements, and on the Hull Happenings and Today in Hull Facebook pages. The Facebook post was boosted with a \$50 ad targeted to Hull with a reach of 7,726 people and 177 engagements. There were also 453 page views on The Problem of Dog Waste on the South Shore web page, 22 page views on the Pet Waste Education page, 202 page views on the Addressing the Elephant in the Room - Dog Waste on the South Shore web page.

Message Date(s): June 2, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: DON'T BLOW IT!**

Message Description and Distribution Method:

This message explains the issues of blowing, sweeping, or dumping grass and yard waste into street and/or storm drains. This message was distributed through social media posts.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A message about leaf litter was posted on the NSRWA Facebook page in October 2019. The Facebook post was boosted in October with a \$50 ad targeted to all WaterSmart towns with a reach of 25,444 people and 1,492 engagements, and a \$50 ad targeted to Hull with a reach of 1,697 people and 226 engagements. There were also 106 page views on the Best Mowing Practices web page, and 172 page views on the Stormwater web page.

Message Date(s): October 18, 2019

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

### **BMP: Proper Sediment and Erosion Control Management**

Message Description and Distribution Method:

A Stormwater Pollution Prevention Guide was created to inform developers of proper construction practices to limit the impact of developments around existing stormwater infrastructure. These brochures were printed and distributed to permittees in town.

Targeted Audience: Developers (Construction)

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A brochure entitled Construction Stormwater Pollution Prevention Guide was created and delivered to all of the town departments who issue permits, including Building and Board of Health. These brochures will be handed to the person when they receive their permit. There were 500 distributed to the Town of Hull.

Message Date(s): January 10, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

### **BMP: Video Contest**

Message Description and Distribution Method:

Video submissions by community members are to be uploaded by the the NSRWA and WaterSmart website page and on social media to educate the public on either stormwater pollution and how to prevent it or of ways to conserve water resources. Harbor Media provided the ground rules for cash prize winners.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

We are holding a WaterSmart Video Contest. Submissions will be a 1-3 minute videos to help educate the public by creating a fun video that highlights either stormwater pollution and how to prevent it, or ways to conserve water. The NSWRA partnered with Harbor Media for the contest and they provided the guidelines as well as a cash prize for the 1st place winner. All of the videos will be shared on the NSRWA and WaterSmart

website pages and on social media following the August 31, 2020 deadline.

Message Date(s): August 31, 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

Add an Educational Message

### MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

The SWMP is posted to the Town website with contact information for questions/comments.

Was this opportunity different than what was proposed in your NOI? Yes  No

Describe any other public involvement or participation opportunities conducted **during this reporting period:**

### MCM3: Illicit Discharge Detection and Elimination (IDDE)

#### Sanitary Sewer Overflows (SSOs)

*Check off the box below if the statement is true.*

This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period.***

Number of SSOs identified:

Number of SSOs removed:

### **MS4 System Mapping**

*Below, check all that apply.*

The following elements of the Phase I map have been completed:

- Outfalls and receiving waters
- Open channel conveyances
- Interconnections
- Municipally-owned stormwater treatment structures
- Waterbodies identified by name and indication of all use impairments
- Initial catchment delineations

*Optional:* Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

Phase 1 mapping: During this reporting period, the Town contracted with a consultant to map the entire drainage system (including all Phase 1 requirements). This work began on June 28th of this reporting period and at the time of this report submission 90% of the mapping data has been collected. Over the next two months, mapping will be reviewed and catchment delineations and interconnections added.

### **Screening of Outfalls/Interconnections**

*If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.*

- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

*Below, report on the number of outfalls/interconnections screened **during this reporting period.***

Number of outfalls screened:

### **Catchment Investigations**

*If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

*Below, report on the number of catchment investigations completed **during this reporting period.***

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date.***

Percent of total catchments investigated:

*Optional:* Provide any additional information for clarity regarding the catchment investigations below:

No catchment investigations were performed during this reporting period, see attachment for CCTV work performed on drainage infrastructure.

### **IDDE Progress**

*If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.*

- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period.***

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed:  gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018).***

Total number of illicit discharges identified:

Total number of illicit discharges removed:

*Optional:* Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

No illicit discharges were identified in this reporting period.

### **Employee Training**

Describe the frequency and type of employee training conducted **during the reporting period:**

IDDE TRAINING was conducted on October 24, 2019 at the Town Hall with the audience consisting of 10 members of Town Staff who are responsible for implementation of different aspects of the stormwater management program. The goals of the presentation were to help the audience understand the difference between what is and is not an illicit discharge and to teach them how to report a potential illicit discharge.

PRESENTATION consisted of Power Point given by BETA Group that included the following:

- The Problem: Brief explanation and history of pollution in stormwater runoff and issues as it is directed to waters of the United States. Short video from <https://www.thinkbluemassachusetts.org/>
- The Permit: Brief summary of MS4 Permit focusing on IDDE program and reporting
- The Practicals: Detailed discussion of what is and is not an illicit discharge. Discussed and provided photos of illicit discharge indicators Discussed how to (and to whom) report a suspected illicit

discharge using Illicit Discharge Reporting Form, Discussed how to disseminate this information to field staff

HANDOUTS included a packet with the following:

- Acronyms and Definitions
- Lists of illicit and non-illicit discharges
- Illicit Discharge Reporting Form

### **MCM4: Construction Site Stormwater Runoff Control**

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period.***

Number of site plan reviews completed: 50

Number of inspections completed: 29

Number of enforcement actions taken: 14

*Optional:* Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

### **MCM5: Post-Construction Stormwater Management in New Development and Redevelopment**

#### **Ordinance or Regulatory Mechanism**

*Below, select the option that describes your ordinance or regulatory mechanism progress.*

- Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- Bylaw, ordinance, or regulations have not been updated or adopted

#### **As-built Drawings**

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

The Town has stormwater regulations that meet these requirements. Planning Board and Conservation

Commission require as-built drawings and long term operation and maintenance through their permitting processes.

### **Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

To be completed in year 4.

### **Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

To be completed in year 4.

### **Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

To be completed in year 4.

## **MCM6: Good Housekeeping**

### **Catch Basin Cleaning**

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period.***

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

*Below, report on the total number of catch basins in the MS4 system.*

Total number of catch basins:

*If applicable:*



Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

Increased inspection/frequency for catch basins with sump more than 50% full as required. The Town performed routine inspection and cleaning of catch basins throughout town. In addition, the Town's engineering consultant inspected 261 catch basins during roadway reconstruction work to evaluate condition.

### **Street Sweeping**

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

- Number of miles cleaned:
- Volume of material removed:
- Weight of material removed:

### **O&M Procedures and Inventory of Permittee-Owned Properties**

*Below, check all that apply.*

The following permittee-owned properties have been inventoried:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

The following O&M procedures for permittee-owned properties have been completed:

- Parks and open spaces
- Buildings and facilities
- Vehicles and equipment

### **Stormwater Pollution Prevention Plan (SWPPP)**

*Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.*

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

### **Additional Information**

**Monitoring or Study Results**

*Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.*

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

**Additional Information**

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

As part of roadway reconstruction projects, 23,473 LF of CCTV was performed on drain pipe to evaluate condition. Attached is a table identifying the locations where this CCTV work was done. Drainage improvements were completed on Nantasket Ave from H St to Y St including replacement of 4 catch basins with sumps where sumps did not previously exist.

This past year the Town developed a stormwater bylaw consistent with the permit requirements. The bylaw was approved at Town Meeting June 13th, 2020. It currently resides with the attorney general for final approval.

**COVID-19 Impacts**

*Optional:* If any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Due to the COVID-19 pandemic, public education and outreach methods were modified as outlined in MCM1 descriptions above.

Due to COVID-19 some staff have been working in split shifts to provide for social distancing protocols. The work they are doing is strictly immediate need based on the very limited capacity. MS4 related field work for mapping, outfall screening and catchment investigation had to be put on hold due to these restrictions and Town requirements to limit outside contractors/consultants from working in town.

Due to COVID-19 restrictions to limit staffing and turnover in the Director of Public Work position, the operations and maintenance procedures, inventory and SWPPPs for Town facilities has not yet been completed. A new director was hired in July and the plan is to address these tasks as soon as possible.

**Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

**Annual Requirements**

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

Provide any additional details on activities planned for permit year 3 below:

## Part V: Certification of Small MS4 Annual Report 2020

### 40 CFR 144.32(d) Certification

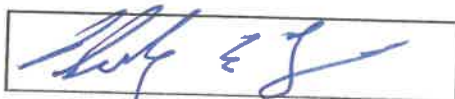
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that 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.

Name:

Phil Lemnios

Title: Town Manager

Signature:



Date:

9/23/20

*[Signatory may be a duly authorized representative]*

# Town of Hull MS4 Year 2 Annual Report Attachments

## List of Attachments

1. Signature Page
  - *Hull MS4 Yr 2 Sig Page\_Town Manager*
2. Sanitary Sewer Overflows
  - *SSO Inventory List through June 30, 2020*
3. Additional Information
  - *Summary Table of Drainage CCTV Work*

# **Annual Report Year 3**

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**Year 3 Annual Report**  
**Massachusetts Small MS4 General Permit**  
**Reporting Period: July 1, 2020-June 30, 2021**

*\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\**

*Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2020 and June 30, 2021 unless otherwise requested.*

**Part I: Contact Information**

Name of Municipality or Organization:

EPA NPDES Permit Number:

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

## Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

**Impairment(s)**

Bacteria/Pathogens     
  Chloride     
  Nitrogen     
  Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*     
  Assabet River Phosphorus     
  Bacteria and Pathogen     
  Cape Cod Nitrogen  
 Charles River Watershed Phosphorus     
  Lake and Pond Phosphorus

*Out of State:*     
  Bacteria/Pathogens     
  Metals     
  Nitrogen     
  Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

**Year 3 Requirements**

- Inspected and screened all outfalls/interconnections (excluding Problem and Excluded outfalls)
- Updated outfall/interconnection priority ranking based on the information collected during the dry weather inspections as necessary
- Post-construction bylaw, ordinance, or other regulatory mechanism was updated and adopted consistent with permit requirements

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

**Annual Requirements**

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - This is not applicable because we do not have sanitary sewer
  - This is not applicable because we did not find any new SSOs



- The updated SSO inventory is attached to the email submission
- The updated SSO inventory can be found at the following website:

- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- Provided training to employees involved in IDDE program within the reporting period
- All curbed roadways were swept at least once within the reporting period
- Updated system map due in year 2 as necessary
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

DPW staff members watched a IDDE/Good Housekeeping training video in August 2021, not within the reporting year.

### **Bacteria/ Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

#### Annual Requirements

##### *Public Education and Outreach\**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

*\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

*Optional:* Use the box below to provide any additional information you would like to share as part of your self-assessment:

### Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes  
 No

If yes, describe below, including any relevant impairments or TMDLs:

Additional outfalls and interconnections were added to the MS4 inventory - bringing the outfall count from 43 to 124, and adding 5 interconnections.

## Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

### MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

#### **BMP: Water All Around You Program**

Message Description and Distribution Method:

Due to the COVID-19 pandemic, the school program continued to be virtual. Environmental Educator Brian Taylor created a new series of videos on the school program content that teachers used with their students. The teachers also had the Watershed Jeopardy game to play with the kids. All of the teachers were also given a packet of supplemental materials to go with the program. A press release also went out to the town, The Globe, the Patriot Ledger, and the Hull Times. The videos were also posted on the NSRWA Facebook page.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

There were 75 students who participated in the program.  
There were 371 views on the school program webpage, and 270 views on the NSRWA You-Tube channel.

Message Date(s):

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

#### **BMP: Rain Barrel Sale**

Message Description and Distribution Method:

A press release went out to the town, The Globe, the Patriot Ledger, and the Hull Times. Facebook posts were made on the NSRWA page and town connect pages. Information about the sale went out in the NSRWA E-newsletter to 10,000+ subscribers.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

There were 135 rain barrels sold with 8 sold to residents of Hull.

Message Date(s): March 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements Was this message different than what was proposed in your NOI? Yes  No 

If yes, describe why the change was made:

**BMP: Gardening Green Expo**

Message Description and Distribution Method:

Due to the COVID-19 pandemic, the Gardening Green Expo had to go virtual. We had a week long event with live sessions each day as well as prerecorded speaker videos. Speaker videos were uploaded online. We took orders for rain barrels, had downloadable water saving plant lists, and also reposted last years' speaker videos. We also had a drawing for free products and prizes including a a custom water-saving garden design and 115 people registered for that drawing.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

There were 639 live attendees, as well as 1,007 YouTube viewers.  
The webpage with speaker videos had 4,170 web page views.

Message Date(s): March 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements Was this message different than what was proposed in your NOI? Yes  No 

If yes, describe why the change was made:

**BMP: Greenscapes Guide**

Message Description and Distribution Method:

Due to the COVID-19 pandemic, the Greenscapes Guide could not be handed out at Gardening Green Expo. The downloadable Greenscapes Guide was promoted online and on the NSRWA Facebook page. It was also promoted on the Today in Hull Facebook page.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

There were 118 total downloads with 2 from Hull.

Message Date(s): 2020-2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

---

**BMP: Fertilizer Message for Residents**

Message Description and Distribution Method:

A message about fertilizer was posted on the NSRWA Facebook page in May.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

The You're Just Not Fertilizing the Lawn! post had a reach of 32,922 people and 2,697 engagements. The post was boosted in Hull for \$50/10 days with a reach of 1,915 people and 230 engagements. There were also 209 page views on the stormwater web pages.

Message Date(s): May and June 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

---

**BMP: Grass Clippings for Residents**

Message Description and Distribution Method:

A grass clippings message was posted on the NSRWA Facebook page in June.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

## Measurable Goal(s):

The grass clippings message had a reach of 121,097 people and 24,424 engagements. It was also posted on the Today in Hull Facebook page with 34 engagements, 5 comments, and 5 shares. There were also 16 page views on the Know Before You Mow! web page, 101 page views on the Best Mowing Practices web page, and 209 page views on the stormwater web pages.

Message Date(s): June 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Pet Waste Outreach Program**

## Message Description and Distribution Method:

Pet waste Scoop It cards were distributed to the town clerk's office (100) and Sunshine Pet Parlor (150). A post was created and posted on the NSRWA Facebook page and on the Today in Hull Facebook page. An article was written on Addressing the Dog Waste Problem on the South Shore. This was sent to The Globe, the Patriot Ledger, and the Hull Times. There was also a live interview done on WATD.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

## Measurable Goal(s):

There were 66 page views on The Problem of Dog Waste on the South Shore web page, and 243 page views on the Pet Waste Education page.

Message Date(s): June 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Septic Maintenance for Residents**

## Message Description and Distribution Method:

A press release on septic maintenance went out to the town, The Globe, the Patriot Ledger, and the Hull Times. A Facebook post was boosted in September with a \$50 ad targeted to Hull with a reach of 7,514 people and 399 engagements.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

Reached 7,514 people and had 399 engagements.

Message Date(s): September 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

---

**BMP: Leaf Litter for Residents**

Message Description and Distribution Method:

A message about leaf litter was posted on the NSRWA Facebook page in October.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

The Don't Blow It! message had a reach of 32,252 people and 3,431 engagements. The Facebook post was also boosted in Hull with a \$50 ad for 10 days with a reach of 2,831 people and 119 engagements.

Message Date(s): October 2020

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

---

**BMP:Sediment and Erosion Control Management for Developers**

Message Description and Distribution Method:

A brochure entitled Construction Stormwater Pollution Prevention Guide was created and delivered to all of the town departments that issue permits, including Building and the Board of Health. These brochures will be handed to people when they receive their permit. The town has been contacted to see if they need additional brochures for this year.

Targeted Audience: Developers (construction)



Responsible Department/Parties: NSRWA

Measurable Goal(s):

Handed out with permits received.

Message Date(s): 2020-2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP:Water For People WMA Grant**

Message Description and Distribution Method:

In addition to the other deliverables for the town of Hull, the NSRWA also received a WMA Grant on behalf of the WaterSmart towns. For this grant we produced a series of videos, an online pledge, and lawn signs on lawn watering. This campaign will continue through the end of August.

Targeted Audience: Residents

Responsible Department/Parties: NSRWA

Measurable Goal(s):

As of June 15, there have been 11,815 people reached and 110 engagements on Facebook in Hull. There have also been 863 YouTube views.

Message Date(s): June 2021

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

Add an Educational Message

**MCM2: Public Participation**

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

The SWMP is posted to the Town website with contact information for questions/comments.

Was this opportunity different than what was proposed in your NOI? Yes  No

Describe any other public involvement or participation opportunities conducted **during this reporting period:**

### **MCM3: Illicit Discharge Detection and Elimination (IDDE)**

#### **Sanitary Sewer Overflows (SSOs)**

*Check off the box below if the statement is true.*

This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period.***

Number of SSOs identified:

Number of SSOs removed:

#### **MS4 System Mapping**

*Optional:* Provide additional status information regarding your map:

#### **Screening of Outfalls/Interconnections**

*If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.*

- No outfalls were inspected
- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

Below, report on the number of outfalls/interconnections screened **during this reporting period**.

Number of outfalls screened:

Below, report on the percent of outfalls/interconnections screened **to date**.

Percent of outfalls screened:

*Optional:* Provide additional information regarding your outfall/interconnection screening:

Mapping completed during the year adjusted the total count of outfalls in Town from 43 to 124, and added 5 interconnections to the mapping.

### **Catchment Investigations**

*If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

- No catchment investigations were conducted
- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

Below, report on the number of catchment investigations completed **during this reporting period**.

Number of catchment investigations completed this reporting period:

Below, report on the percent of catchments investigated **to date**.

Percent of total catchments investigated:

*Optional:* Provide any additional information for clarity regarding the catchment investigations below:

### **IDDE Progress**

*If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.*

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period**.*

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed:  gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018)**.*

Total number of illicit discharges identified:

Total number of illicit discharges removed:

*Optional:* Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

### **Employee Training**

Describe the frequency and type of employee training conducted **during this reporting period**:

DPW staff members watched a IDDE/Good Housekeeping training video in August 2021, not within the reporting year.

### **MCM4: Construction Site Stormwater Runoff Control**

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period**.*

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

*Optional:* Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

### **MCM5: Post-Construction Stormwater Management in New Development and Redevelopment**

**As-built Drawings**

*Below, report on the number of as-built drawings received during this reporting period.*

Number of as-built drawings received:

*Optional:* Enter any additional information relevant to the submission of as-built drawings:

**Street Design and Parking Lots Report**

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

To be completed in Year 4.

**Green Infrastructure Report**

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

To be completed in Year 4.

**Retrofit Properties Inventory**

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

To be completed in Year 4.

## MCM6: Good Housekeeping

### Catch Basin Cleaning

Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period**.

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins:

*If applicable:*

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

No catch basins reported more than 50% full.

### Street Sweeping

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

Number of miles cleaned:

Volume of material removed:

Weight of material removed:

### Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

N/A

### **Additional Information**

#### **Monitoring or Study Results**

*Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.*

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

#### **Additional Information**

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

#### **COVID-19 Impacts**

*Optional:* If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

**Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree



- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

#### Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

Provide any additional details on activities planned for permit year 4 below:

## Part V: Certification of Small MS4 Annual Report 2021

### 40 CFR 144.32(d) 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, I certify that 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.

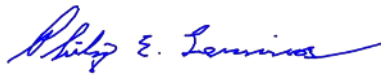
Name:

Philip E. Lemnios

Title:

Town Manager

Signature:



Date:

9-20-21

*[Signatory may be a duly authorized representative]*

*Note: When prompted during signing, save the document under a new file name.*

### **Annual Report Submission**

*Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.*

EPA: [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov)

MassDEP: [laura.schifman@mass.gov](mailto:laura.schifman@mass.gov)

### **Paper Signature:**

*If you did not sign electronically above, you can print the signature page by clicking the button below.*

*Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.*

## **Town of Hull MS4 Year 3 Annual Report Attachments**

### List of Attachments

1. Signature Page
2. SSO Inventory
3. Illicit Discharge Removal Report
4. Outfall Screening and Sampling Report

# Annual Report Year 4

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**Year 4 Annual Report**  
**Massachusetts Small MS4 General Permit**  
**Reporting Period: July 1, 2021-June 30, 2022**

*\*\*Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form\*\**

*Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2021 and June 30, 2022 unless otherwise requested.*

**Part I: Contact Information**

Name of Municipality or Organization:

EPA NPDES Permit Number:

**Primary MS4 Program Manager Contact Information**

Name:  Title:

Street Address Line 1:

Street Address Line 2:

City:  State:  Zip Code:

Email:  Phone Number:

**Stormwater Management Program (SWMP) Information**

SWMP Location (web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

## Part II: Self-Assessment

*First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>*

**Impairment(s)**

Bacteria/Pathogens     
  Chloride     
  Nitrogen     
  Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*     
  Assabet River Phosphorus     
  Bacteria and Pathogen     
  Cape Cod Nitrogen  
 Charles River Watershed Phosphorus     
  Lake and Pond Phosphorus

*Out of State:*     
  Bacteria/Pathogens     
  Metals     
  Nitrogen     
  Phosphorus

Clear Impairments and TMDLs

*Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.*

**Year 4 Requirements**

Developed a report assessing current street design and parking lot guidelines and other local  
 requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

When changes are being made to any of the analyzed bylaws/regulations, the Town will consult

Developed a report assessing local regulations to determine the feasibility of making green  
 infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

When changes are being made to any of the analyzed bylaws/regulations, the Town will consult

Identified a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

*Optional:* If you would like to describe progress made on any incomplete requirements listed above, provide an update on previous incomplete milestones, or provide any additional details, please use the box below:

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
- The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
  - This is not applicable because we do not have sanitary sewer
  - This is not applicable because we did not find any new SSOs
  - The updated SSO inventory is attached to the email submission
  - The updated SSO inventory can be found at the following website:

- Updated system map due in year 2 as necessary
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

**Bacteria/ Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach\**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time



- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

*\* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

*Optional:* If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Town did issue 700 dog licenses this past reporting period. Education material was not included as part of this permitting program. Town has hired a new animal control officer who will also be running the educational aspect of pet waste management moving forward.

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*Optional:* Use the box below to provide any additional information you would like to share as part of your self-assessment:

### Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

- Yes
- No

If yes, describe below, including any relevant impairments or TMDLs:

Impairment updates -  
Hull Bay: added Estuarine Bioassessments  
Hingham Bay: added Estuarine Bioassessments

### Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

#### MCM1: Public Education

Number of educational messages completed during this reporting period:

Below, report on the educational messages completed during this reporting period. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

#### **BMP: School Program: Stormwater and Conservation Messaging**

Message Description and Distribution Method:

Groundwater model, watershed model and cleaning dirty water taught to elementary school students and parent volunteers in school program

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

To educate 5th grade students and parent volunteers at the Jacobs Elementary School. The program ran for 1 day and there were 80 students and 14 parent volunteers. In a sample survey, 85% of the students and 80% of the parents reported having a greater understanding of where their water comes from AFTER the program, 90% of the students and 80% of the parents reported having a greater understanding of the importance of conserving water AFTER the program, and 80% of the students and parents reported having a greater understanding of how pollutants and runoff affect the quality of water AFTER the program. A press release to went out to the town, the Globe, the Patriot Ledger, and the Hull Times. The program was also posted on the NSRWA Facebook page with a reach of 446 people and 11 engagements, and on the Hull Happenings Facebook page. Website page views: 565 on General WaterSmart page.

Message Date(s):

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

#### **BMP: Rain Barrel Sale**

Message Description and Distribution Method:

Education about water conservation and the reduction of stormwater from impervious surfaces

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A press release to went out to the town, the Globe, the Patriot Ledger, and the Hull Times. Facebook posts were made on the NSRWA page. Information about the sale went out in the NSRWA E-newsletter to 6,000+ subscribers. There were 6 rain barrels sold in Hull.  
1352 webpage views.  
213 on Rain Barrel and Composter page.

Message Date(s): 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Gardening Green Expo**

Message Description and Distribution Method:

Regional event for WaterSmart South Shore Communities that provides information on how residents can reduce stormwater pollution from better landscaping practices.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

A press release to went out to the town, the Globe, the Patriot Ledger, and the Hull Times. Information about the event went out in our E-newsletter 4 times to 6,000+ subscribers each time. There were 500 guests in attendance. The videos of the speakers are now being added to the NSRWA website and shared online and on Facebook.  
1078 webpage views.

Message Date(s): 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Greenscapes Guide**

## Message Description and Distribution Method:

Digital download of landscaping techniques that reduce stormwater pollutants (fertilizers, pesticides, herbicides)

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

We promoted the Greenscapes Guide at the Gardening Green Expo and handed out paper copies. It was promoted online and on the NSRWA Facebook page with a reach of 2,831 people and 187 engagements. There have been no downloads from Hull at this time. It will be posted again.

344 webpage views on Greenscapes Guide.

181 webpage views on Greenscapes page.

Message Date(s): 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP:Grass Clippings and Fertilizer Messages**

## Message Description and Distribution Method:

Messages about fertilizer and grass clippings.

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

## Measurable Goal(s):

A grass clippings message and a fertilizer message were both posted on the NSRWA Facebook page in May. The grass clippings message had a reach of 11,034 people and 472 engagements. The fertilizer message had a reach of 2,376 people and 239 engagements. Both messages were also posted on the Hull Happenings Facebook page. The grass clippings Facebook post was boosted in June with a \$50 ad targeted to all WaterSmart towns with a reach of 9,678 and 266 engagements, and a \$50 ad targeted to Hull with a reach of 2,999 and 372 engagements.

357 webpage views on Know Before You Mow!

23 webpage views on Best Mowing Practices.

19 webpage views on Stormwater page.

Message Date(s): May 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP:Pet Waste Education**

Message Description and Distribution Method:

Printed Scoop It cards, web article, press release, and social media posts for June

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Pet waste Scoop It cards were distributed to the town clerk's office (100), and the Hull Seaside Animal Rescue (100). An article was written on The Problem of Dog Waste on the South Shore. This was sent to the Globe, the Patriot Ledger, and the Hull Times. The Patriot Ledger wrote a feature on it from our press release, and WATD did an on air interview. It was posted on the NSRWA Facebook page with a reach of 1,556 people and 197 engagements, and on the Hull Happenings Facebook page.  
453 webpage views on The Problem of Dog Waste on the South Shore.  
22 webpage views on Pet Waste Education page.  
202 webpage views on Addressing the Elephant in the Room - Dog Waste on the South Shore

Message Date(s): June 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP:Pet Waste**

Message Description and Distribution Method:

Handout/mailer to go with dog licensing & distributed at local veterinarian offices and local pet stores & WaterSmart website; potential to target offending area

Targeted Audience: Residents

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Message Date(s): 2021, 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Parking Lot Maintenance**

Message Description and Distribution Method:  
Salt storage, sweeping, catch basin cleaning, fleet maintenance

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Message Date(s): 2021, 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Low Impact Development Information targeted to Developers**

Message Description and Distribution Method:  
Reduction of impervious surfaces, use of alternatives to paving, decentralized approach to stormwater, rain gardens, swales, bioretention

Targeted Audience: Developers (construction)

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Message Date(s): 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

**BMP: Parking Lot Maintenance**

Message Description and Distribution Method:

Salt storage, sweeping, catch basin cleaning, fleet maintenance

Targeted Audience: Industrial facilities

Responsible Department/Parties: North and South Rivers Watershed Association as part of the WaterSmart reg

Measurable Goal(s):

Message Date(s): 2022

Message Completed for: Appendix F Requirements  Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes  No

If yes, describe why the change was made:

Add an Educational Message

**MCM2: Public Participation**

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

The SWMP is posted to the Town website with contact information for questions/comments.

Was this opportunity different than what was proposed in your NOI? Yes  No



Describe any other public involvement or participation opportunities conducted **during this reporting period:**

### MCM3: Illicit Discharge Detection and Elimination (IDDE)

#### Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

- This SSO section is NOT applicable because we DO NOT have sanitary sewer

Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period.**

Number of SSOs identified:

Number of SSOs removed:

#### MS4 System Mapping

Optional: Provide additional status information regarding your map:

#### Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- No outfalls were inspected
- The outfall screening data is attached to the email submission
- The outfall screening data can be found at the following website:

Below, report on the number of outfalls/interconnections screened **during this reporting period.**

Number of outfalls screened:

Below, report on the percent of outfalls/interconnections screened **to date.**

Percent of outfalls screened:

*Optional:* Provide additional information regarding your outfall/interconnection screening:

**Catchment Investigations**

*If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

- No catchment investigations were conducted
- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following website:

*Below, report on the number of catchment investigations completed during this reporting period.*

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated to date.*

Percent of total catchments investigated:

*Optional:* Provide any additional information for clarity regarding the catchment investigations below:

Town anticipates having nearly 100% of catchment investigations completed for the next reporting year.

**IDDE Progress**

*If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.*

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed during this reporting period.*

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed:  gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed since the effective date of the permit (July 1, 2018).*

Total number of illicit discharges identified:

Total number of illicit discharges removed:

*Optional:* Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

**Employee Training**

Describe the frequency and type of employee training conducted **during this reporting period:**

11/16/2021 and 11/17/2021 - Training of 6 Highway/Water/Sewer/Town department employees via video presentation covering IDDE and Good Housekeeping.

**MCM4: Construction Site Stormwater Runoff Control**

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period.*

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

*Optional:* Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

**MCM5: Post-Construction Stormwater Management in New Development and Redevelopment**

**Ordinance or Regulatory Mechanism**

Date update was completed (due in year 3):

**As-built Drawings**

*Below, report on the number of as-built drawings received during this reporting period.*

Number of as-built drawings received:

*Optional: Enter any additional information relevant to the submission of as-built drawings:*

**Retrofit Properties Inventory**

Below, list the permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (at least 5):

See email attachment BMP Retrofit Locations memo (attachments) for Potential BMP Retrofit Sites.

**MCM6: Good Housekeeping**

**Catch Basin Cleaning**

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins during this reporting period.*

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

*Below, report on the total number of catch basins in the MS4 system.*

Total number of catch basins:

*If applicable:*

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

**Street Sweeping**

Report on street sweeping completed **during this reporting period** using one of the three metrics below.

- Number of miles cleaned:
- Volume of material removed:
- Weight of material removed:

**Stormwater Pollution Prevention Plan (SWPPP)**

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

Describe any corrective actions taken at a facility with a SWPPP:

DPW: New hay bales were installed at discharge points on-site. Crushed stone berm retrofitted with hay bales and an earthen berm was added to control stormwater discharge to Weir River. New earthen berm was installed behind and adjacent to material stockpiles. Majority of winter sand on paved surfaces was swept. Sanitary Landfill: Installation of straw wattles along access roadway to manage stormwater runoff. Additional gravel swale installed along access roadway to mitigate erosion issue.

**Additional Information**

**Monitoring or Study Results**

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

**Additional Information**

*Optional:* Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:

**COVID-19 Impacts**

*Optional:* If any of the above year 4 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

**Activities Planned for Next Reporting Period**

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 5 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 5 below:

## Part V: Certification of Small MS4 Annual Report 2021

### 40 CFR 144.32(d) 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, I certify that 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.

Name:

Christopher Gardner

Title:

Director of Public Works

Signature:



Date:

9.20.22

*[Signatory may be a duly authorized representative]*

*Note: When prompted during signing, save the document under a new file name.*

### Annual Report Submission

*Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.*

EPA: [stormwater.reports@epa.gov](mailto:stormwater.reports@epa.gov)MassDEP: [Stormwater.DEP@mass.gov](mailto:Stormwater.DEP@mass.gov)

### Paper Signature:

*If you did not sign electronically above, you can print the signature page by clicking the button below.*

*Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.*



## Town of Hull MS4 Year 4 Annual Report Attachments

### List of Attachments

1. Signature Page
2. BMP Retrofit Locations Memo