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780 Lynnhaven Parkway, Suite 400  
Virginia Beach, VA 23452  
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April 24, 2019

Jennifer Stout  
Rhode Island Department of Environmental Management  
Office of Water Resources  
RIPDES Program  
Permitting Section  
235 Promenade Street  
Providence, Rhode Island 02908

**Re: 2018 RIPDES Small MS4 Annual Report  
Town of Tiverton, Rhode Island  
ESS Project No.: T298-013**

Dear Ms. Stout:

On behalf of the Town of Tiverton, ESS Group, Inc. is pleased to submit the enclosed 2018 (Year 15) Rhode Island Pollutant Discharge Elimination System (RIPDES) Small Municipal Separate Storm Sewer System Annual Report. This report is submitted in fulfillment of the requirements under the RIPDES Storm Water General Permit.

Included with this filing you will find a copy of the Town Council Agenda indicating the date of the public meeting related to the 2018 MS4 Annual Report.

Please do not hesitate to contact me directly at 401-330-1204 or [mladewig@essgroup.com](mailto:mladewig@essgroup.com) if you have any questions regarding this submission.

Sincerely,

**ESS GROUP, INC.**

A handwritten signature in black ink, appearing to read "Matt Ladewig".

Matt Ladewig  
Project Manager

Attachments

C: Jan Reitsma, Town Administrator, Town of Tiverton  
Richard Rogers, PE, Director of Public Works, Town of Tiverton





# RIPDES Small MS4 Annual Report - 2018

Town of Tiverton, Rhode Island



**PREPARED FOR**

Town of Tiverton  
Department of Public Works  
50 Industrial Way  
Tiverton, Rhode Island 02878-3128

**PREPARED BY**

ESS Group, Inc.  
10 Hemingway Drive, 2nd Floor  
East Providence, Rhode Island 02915



[www.essgroup.com](http://www.essgroup.com)

Project No. T298-013

April 24, 2019



<b>DEM USE ONLY</b>	
Date Received	_____

## RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR0400 \_\_\_\_\_ 039 \_\_\_\_\_

REPORTING PERIOD:       **YEAR 15**  
Jan 2018-Dec 2018

**OPERATOR OF MS4**

Name: Town of Tiverton			
Mailing Address: Department of Public Works, 50 INDUSTRIAL WAY			
City: Tiverton	State: RI	Zip:02878-3128	Phone: (401) 625-6760
Contact Person: Richard Rogers, P.E.	Title: Director, Department of Public Works		
	Email: dpw@tiverton.ri.gov		
Legal status (circle one): PRI - Private <input checked="" type="checkbox"/> PUB - Public      BPP - Public/Private      STA - State      FED - Federal			
Other (please specify):			

**OWNER OF MS4 (if different from OPERATOR)**

Name: Same as Operator			
Mailing Address:			
City:	State:	Zip:	Phone: (   )
Contact Person:	Title:		
	Email:		

**CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under the 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.

Print Name \_\_\_\_\_ Richard Rogers, P.E. \_\_\_\_\_

Print Title \_\_\_\_\_ Director of Public Works \_\_\_\_\_

Signature DPW  
by H. M. - Director \_\_\_\_\_ Date 4-24-19 \_\_\_\_\_



**MINIMUM CONTROL MEASURE #1:  
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**A. Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.
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The residents of Tiverton have been educated on stormwater pollution prevention for the past fifteen years. Elements of public education include the following ongoing activities:

- 1) The Department of Public Works (DPW) provides hard copies of RIDEM's pamphlet "10 Things You Can Do To Improve Water Quality in Rhode Island" upon request.
- 2) The Town Hall provides hard copies of a stormwater brochure designed to reduce stormwater pollution from priority watersheds, which were designated in the 2010 Mt. Hope Bay/Upper Kickemuit River Estuary TMDL for Fecal Coliform.
- 3) The Town's Conservation Commission has been involved with issues regarding protection of the Town's surface and ground waters, particularly with leadership initiatives to protect the Stafford Pond area.
- 4) The Town's Conservation Commission uses interactive displays during Country Day to teach schoolchildren about stormwater and groundwater issues. Country Day is held each autumn by the Tiverton Land Trust and is open to the public.
- 5) The Town's Stormwater Management Plan (SWMP) and annual reports have been publicly noticed.
- 6) The Tiverton Wastewater District (TWWD) provides online resources for on-site wastewater management (see <http://twwd.org/customer-resources/>).

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.
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Town residents have been involved in various aspects of stormwater pollution prevention. Residents are working alongside members of the DPW in the following Town committees:

- Fogland Beach Oversight Committee - oversees activities to minimize erosion surrounding the Fogland Beach area
- DPW interacts with public on routine basis in regard to discharges from private properties

**PUBLIC EDUCATION AND OUTREACH cont'd**

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	Target Pollutant(s)
<input type="checkbox"/> Construction Sites	
<input type="checkbox"/> Pesticide and Fertilizer Application	
<input checked="" type="checkbox"/> General Stormwater Management Information	General
<input type="checkbox"/> Pet Waste Management	
<input type="checkbox"/> Household Hazardous Waste Disposal	
<input type="checkbox"/> Recycling	
<input type="checkbox"/> Illicit Discharge Detection and Elimination	
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input type="checkbox"/> Trash Management	
<input type="checkbox"/> Smart Growth	
<input type="checkbox"/> Vehicle Washing	
<input type="checkbox"/> Storm Drain Marking	
<input type="checkbox"/> Water Conservation	
<input type="checkbox"/> Green Infrastructure/Better Site Design/LID	
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other:	
<input type="checkbox"/> None	

**Specific audiences targeted during this reporting period:**

- |   |  |
|---|--|
| <input type="checkbox"/> Public Employees | <input type="checkbox"/> Contractors               |
| <input type="checkbox"/> Residential      | <input type="checkbox"/> Developers                |
| <input type="checkbox"/> Businesses       | <input checked="" type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants      | <input type="checkbox"/> Industries                |
| <input type="checkbox"/> Other:           | <input type="checkbox"/> Agricultural              |

**Additional Measurable Goals and Activities**

Please list all stormwater training attended by your staff during the 2018 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings:

StormTools workshop at URI on October 4, 2018.

Attending name of staff and title: Richard Rogers, Director of Public Works

Attending name of staff and title: William Compton, Town Planner



**MINIMUM CONTROL MEASURE #2:  
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**B. Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

IV.B.2.b.2.ii Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

- The Reporting Year 2017 MS4 Annual Report was discussed during a Town Council meeting on June 11, 2018. The public was invited to submit questions or comments. This initiative is the responsibility of the Director of Public Works but was undertaken by the Town Administrator due to the Director of Public Works position being vacant at the time.
- The Town's Conservation Commission works alongside several other committees, boards, the DPW, and town residents on the Fogland Beach Oversight Committee, dealing with issues such as sediment and erosion control.
- The removal of cesspools and the subsequent installation of a properly designed and operating OWTS or sanitary sewer will help decrease the pollutant load to the Town's MS4 system, as failed OWTSs and cesspools contaminate groundwater which discharges to the Town's MS4 system. Public education on this matter is the responsibility of the Town and implemented with the assistance of the TWWD.
- The Litter Committee focuses on volunteer cleanup of trash in Town and held Tiverton Litter Clean Up Week from April 28 to May 5, 2018.
- Save the Bay sponsored a cleanup event at Fogland Beach as part of the International Coastal Cleanup on October 20, 2018.

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program Plan (SWMPP) during this reporting period. Check all that apply:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Cleanup Events  | <input type="checkbox"/> Storm Drain Markings |
| <input type="checkbox"/> Comments on SWMPP Received | <input type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines         | <input type="checkbox"/> Volunteer Monitoring |
| <input type="checkbox"/> Community Meetings         | <input type="checkbox"/> Plantings            |
| <input type="checkbox"/> Other (describe)           |   |

Additional Measurable Goals and Activities  
N/A

**SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) \*Note: attach copy of public notice**

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice?  YES  NO

If YES, Date of Public Notice: April 4, 2019

How was public notified:

- |   |  |
|---|--|
| <input type="checkbox"/> List-Serve (Enter # of names in List: _____) | <input type="checkbox"/> Newspaper Advertising |
| <input type="checkbox"/> TV/Radio Notices                             | <input type="checkbox"/> Town Hall posting     |
| <input checked="" type="checkbox"/> Website                           | <input type="checkbox"/> Other:                |

Enter Web Page URL: http://www.tiverton.ri.gov/towncouncil/meetings.php

**PUBLIC INVOLVEMENT/PARTICIPATION cont'd**

Was public meeting held?     YES     NO

Date:            April 8, 2019

Where: Tiverton Town Hall

Summary of public comments received: One member of the public suggested that the Tiverton Planning Board could benefit from a separate presentation of the MS4 Annual Report and/or ability to review and comment on the document.

Planned responses or changes to the program: The Town will investigate the feasibility of separately presenting the MS4 Annual Report to the Planning Board. The final MS4 Annual Report is a public document and will be made available for review.





## MINIMUM CONTROL MEASURE #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)

### SECTION I. OVERALL EVALUATION:

#### GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

**Has *this person* received training on Illicit Discharge Detection and Elimination (IDDE)?** No

**If yes, when and where?** N/A

**If no, who *is* trained on IDDE?** No one has received formal training

IV.B.3.b.1:	<p>If the outfall map was not completed, use the space below to indicate reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.)</p> <p><b>Number of Outfalls Mapped within regulated area:</b> <u>108</u></p> <p><b>Percent Complete:</b> <u>100</u></p> <p><b>If 100% Complete, Provide Date of Completion:</b> <u>March 2012</u></p>
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The original outfall map was completed and submitted to RIDEM in 2007. The outfall map was updated with additional information requested by RIDEM and submitted in March 2009. A subsequent revision was submitted to RIDEM in March 2012.

IV.B.3.b.2	<p>Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2018 calendar year.</p>
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The Town DPW has identified all stormwater outfalls with GPS coordinates and photographs. This data is available in the DPW stormwater outfall database and was last updated as part of the dry weather outfall survey and sampling in 2011. Each outfall has been sequentially numbered. Since the outfalls have been identified, tagging is not required.

IV.B.3.b.3	<p>Use the space below to provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.</p>
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The DPW maintains an inventory of catch basins located on the roads in town. Records of new pipe tie-ins to catch basins are maintained by the DPW through the municipal permitting process for new discharges to the MS4. Additional stormwater system elements are added to the inventory as a result of new MS4 construction projects, IDDE investigations, and TMDL-related surveys.

The catch basin inventory has had a positive effect on minimizing water quality impacts because it improves the ability of the DPW to locate each catch basin for annual monitoring and maintenance.

Forms developed in 2017 are being used by inspectors to document the condition of each system element.

See Section I under "Total Maximum Daily Load (TMDL) or other Water Quality Determination Requirements" (Part IV.G.2.d.) for more information regarding TMDL-related actions.

**ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd**

IV.B.3.b.4	<p>Indicate if the IDDE ordinance was <b>not</b> developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.  <b>Date of Adoption:</b> <u>May 13, 1996; amended March 26, 2007, January 14, 2011, and November 1, 2011</u>                  If the Ordinance was amended in 2018, please indicate why changes were necessary.</p>
<p>The Town's Sewers and Sewage Disposal ordinance was adopted on May 13, 1996, revised on March 26, 2007, and revised again on November 1, 2011. The Ordinance is available as "Appendix C, Article VIII, Section 18-54" in the Town's Code of Ordinances and is available online on the Town Website and at <a href="http://www.municode.com">www.municode.com</a>.</p> <p>On January 24, 2011, the Tiverton Town Council passed a resolution to add Chapter 68 (Illicit Discharge Detection and Elimination) to the Town Code for Stormwater Phase II compliance. DPW is in process of ensuring that the Town Council approved Illicit Discharge Storm Water Ordinance (Chapter 68) is added to the Town Code of Ordinances.</p> <p>No amendments were made to this ordinance in 2018.</p>	
IV.B.3.b.5.ii, iii, iv, & v	<p>Use the space below to provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.</p>
<p>The Tiverton Department of Public Works is responsible for illicit discharge detection and elimination. Storm drain outfalls are inspected regularly by DPW personnel. The DPW investigates illicit discharge complaints and notifies the resident of required action in writing. Unresolved complaints are referred to the RIDEM Office of Compliance and Inspection.</p>	
IV.B.3.b.5.vi	<p>Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed.</p> <p><b>Number of Catch Basins and Manholes Inspected for illicit connections/IDDE:</b> <u>1,518</u>  <b>Percent Complete:</b> <u>100</u> %  <b>Date of Completion:</b> <u>October 2018</u></p>
<p>The DPW Director is responsible for implementing an annual catch basin inspection on 1,518 catch basins. Catch basins are typically inspected twice per year, once as part of annual operation and maintenance inspections and once as part of the mosquito abatement program. If any catch basin shows evidence of illicit discharge, the matter is investigated by the Tiverton DPW. Once the source of the illicit discharge is found, the DPW notifies the resident of required action in writing.</p>	
IV.B.3.b.5.vii	<p>If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. <b>The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. The EXCEL Tables must include a report of all outfalls and indicate the presence or absence of dry weather discharges.</b></p> <p><b>Number of Outfalls Surveyed Jan-Apr:</b> <u>103</u>      <b>Number of Outfalls Surveyed Jul-Oct:</b> <u>108</u>  <b>Percent Complete:</b> <u>100</u> %  <b>Date of Completion:</b> <u>November 4, 2011</u></p>
<p>Dry weather sampling during the high water table timeframe was performed by the DPW and consultant BETA Group in 2007 and previously submitted to RIDEM. Dry weather survey and sampling was conducted by the DPW and consultant ESS Group, Inc. during the low water table timeframe in 2011. Results of the 2011 outfall survey were previously submitted to RIDEM.</p> <p>Over the course of the outfall surveys, it was recognized that a number of the outfalls originally identified by the Town were either state-owned (RIDOT) or represented culverts/other structures that do not discharge stormwater to surface waters. However, for consistency under the existing permit, these structures are still included in the total reported number of outfalls, as they were each evaluated during the surveys.</p>	

**ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd**

IV.B.3.b.7	Use the space below to provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
The Town has coordinated with RIDOT and their contractors on design and implementation of stormwater improvements for some state roads with interconnections to the MS4.	
IV.B.3.b.8	Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
The operator is not aware of unauthorized non-stormwater discharges to the MS4 that have been deemed appropriate to continue discharging.	
IV.B.3.b.9	Use the space below to provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.
<p>The most significant contribution of illicit discharges of pollutants to the Town's MS4 continues to be failed OWTSSs. Illegal cesspools have become less of a problem over time, as some are converted to upgraded septic systems. Sewering is expected to further reduce the contribution of pollutants to the Town's MS4 in the near future. Work on Phase I of the sewer expansion (Robert Gray Ave and Riverside Drive neighborhoods) is currently underway. The TWWD is responsible for this project.</p> <p>Additionally, an OWTS redesign was completed for Dadson Mobile Home Estates and approved in 2015. This project received an OWTS permit approval from RIDEM in December 2017.</p> <p>The DPW is responsible for informing public employees, businesses, and the general public of hazards associated with illicit discharges and improper waste disposal. The TWWD has made copies of educational materials on OWTS design and maintenance available to the public to help reduce the incidence of illicit discharges to the MS4. These resources are available on the District's website (<a href="http://www.twwd.org/customer-resources/">www.twwd.org/customer-resources/</a>).</p>	
<p><b>Additional Measurable Goals and Activities</b></p> <p>No additional goals or activities were reported in 2018.</p>	

**SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)**

# of Illicit Discharges Identified in 2018:0	# of Illicit Discharges Tracked in 2018: 0
# of Illicit Discharges Eliminated in 2018:0	# of Complaints Received: 0
# of Complaints Investigated:0	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 183	Total # of Illicit Discharges remaining unresolved at the end of 2018: 0
Summary of Enforcement Actions: Not aware of any.	

**ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd**

Extent to which the MS4 system has been mapped:

Outfalls in the MS4 have been mapped system-wide. Additionally, the Town possesses paper maps of catch basins and some manholes/pipes.

Total # of Outfalls Identified and Mapped to date: The Town has mapped and sequentially numbered 108 outfalls and other structures. Of these, at least 45 structures do not appear to require future survey and sampling by the Town, as they do not represent MS4 stormwater discharge structures (outfalls). Some are privately owned or are the responsibility of the state DOT. Other structures previously mapped as outfalls are actually catch basins or culverted streams (not outfalls). A map showing the location and type of mapped outfalls and other structures is attached.

Catch Basins, manholes and pipes currently being mapped.

**SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)**

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
None identified					



**MINIMUM CONTROL MEASURE #4:  
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL  
(Part IV.B.4 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

IV.B.4.b.1	<p>Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was <b>not</b> developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.</p> <p><b>Date of Adoption:</b> <u>January 24, 2011</u></p> <p>If the Ordinance was amended in 2018, please indicate why changes were necessary. <b>Please also indicate if amendments have been made based on the 2010 RI Stormwater Design and Installation Standards Manual, and provide references to the amended portions of the local codes/ordinances.</b></p>
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Chapter 65 of the Town's Code of Ordinances prohibits illicit discharges into the MS4 from construction sites. This ordinance was adopted on October 15, 1991. The DPW Director, Building Inspector, and/or Planning Board representative oversee and enforce Town Ordinances during ongoing construction through daily visits to all construction work in Town. Any non-compliance can result in forfeiting of cash surety by the contractor.

The Town Council adopted an amendment to Chapter 65, Article I of the Town Codes for Stormwater II Compliance on January 24, 2011. The ordinance provides the adoption of a regulatory mechanism and policy to require erosion and sediment control at construction sites.

The amendment refers to the 2010 RI Stormwater Design and Installation Standards Manual.

No additional amendments were made to this ordinance in 2018.

IV.B.4.b.6	Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.
------------	--

No information was submitted by the public.

IV.B.4.b.8	Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.
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Non-compliant construction site operators are typically dealt with internally within the Town, either through the Building Inspector or DPW Director. However, the Town has referred non-compliant construction site operators to RIDEM in the past. No new referrals to RIDEM were made in 2018.

**Additional Measurable Goals and Activities**

No additional measurable goals or activities to report for 2018.

**CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd**

**SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 15 (2018), Part IV.B.4.b.2:** Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre.  
**Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Applications Received: <u>    34    </u>
# of Construction Reviews Completed: <u>    34    </u>
# of Permits/Authorizations Issued: <u>    34    </u>
<p>Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.</p> <p>This program is effective at reviewing all plans for construction projects resulting in land disturbance great than 1 acre.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement:</p> <p>The Planning Board's Consulting Engineer and DPW Director are responsible for reviewing the draft sediment and erosion plans.</p> <p>Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":</p> <p>Prior education/experience and continuing education, as necessary</p>

**SECTION II.B - Erosion and Sediment Control Inspections during Year 15 (2018), Parts IV.G.2.n and IV.B.4.b.7:** Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4. (The program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site.) Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 21	
# of Site Inspections: 30	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
<p>Summary of Enforcement Actions, include an evaluation of the effectiveness of the program.</p> <p>No violations were issued in 2018.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement:</p> <p>The Planning Board's Consulting Engineer and DPW Director are responsible for completing inspections.</p> <p>Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":</p> <p>Prior education/experience and continuing education, as necessary.</p>	



**MINIMUM CONTROL MEASURE #5:  
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND  
REVELOPMENT  
(Part IV.B.5 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

IV.B.5.b.5 Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.

Most construction in Town is associated with subdivision development. The DPW Director and Planning Board's Consulting Engineer coordinate compliance with MS4 permit requirements through post-construction inspections.

IV.B.5.b.6 Use the space below to describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).

No new industrial stormwater discharges were referred to RIDEM in 2018.

IV.B.5.b.9 Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement.  
**Date of Adoption:** December 13, 1995; Amended January 24, 2011  
If the Ordinance was amended in 2018, please indicate why changes were necessary. **Please also indicate if amendments have been made based on the 2010 RI Stormwater Design and Installation Standards Manual, and provide references to the amended portions of the local codes/ordinances.**

Appendix B – "Land Development and Subdivision Regulations" was adopted on December 13, 1995. The regulations require drainage systems to be designed in accordance with the 2010 *Rhode Island Storm Water Design and Installation Standards Manual*.

The Town Council adopted an amendment to Chapter 65 of the Town Codes for Stormwater II Compliance on January 24, 2011. The ordinance provides the adoption of a regulatory mechanism to address post-construction runoff from new development and redevelopment. The amendment refers to the 2010 RI Stormwater Design and Installation Standards Manual and was incorporated under Article II Section 65-14 to 65-22. The Land Development and Subdivision Regulations were amended by the Planning Board on July 15, 2014 to add "Appendix. Construction Specifications," which requires post-construction conformance with the provisions of Chapter 65.

No amendments to this ordinance were made in 2018.

IV.B.5.b.12 Use the space below to describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.

Catch basins are inspected annually during spring cleanouts and an additional time during the Town's mosquito abatement program. Other structural BMPs are inspected regularly and maintained when necessary. Structural BMPs are repaired when inspections identify the need.

**POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**  
*cont'd*

<p>Additional Measurable Goals and Activities</p> <p>No additional measurable goals or activities to report for 2018.</p>
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**SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 15 (2018), Part IV.B.5.b.4:** Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs). Plan reviews must be conducted by adequately trained personnel.

<p># of Post-Construction Applications Received: <u>  0  </u></p> <p># of Post-Construction Reviews Completed: <u>  0  </u></p> <p># of Permits/Authorizations Issued: <u>  0  </u></p>
<p>Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.</p> <p>The Planning Board's Consulting Engineer and/or the DPW Director are responsible for reviewing all post-construction BMPs before cash surety is returned to the contractor. This process is quite effective due to the amount of money held in cash security until approval of construction.</p>

**SECTION II.B. - Post Construction Inspections during Year 15 (2018), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs:** Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review). Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 1	# of Construction Projects Completed: 0
# of Site Inspections for proper Installation of BMPs: 1	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
<p>Summary of Enforcement Actions:</p> <p>The operator is unaware of violations being issued in 2018.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement:</p> <ul style="list-style-type: none"> <li>- DPW Director</li> <li>- Consulting Engineer (Steere Engineering)</li> </ul>	

**SECTION II.C. - Post Construction Inspections during Year 15 (2018), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs:** Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections for proper O&M of BMPs: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0



**POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**  
**cont'd**

Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts.

No post-construction inspections were completed by the Town in 2018. Additionally, the operator is unaware of violations being issued in 2018.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:

- DPW Director
- Consulting Engineer (Steere Engineering)

**Strategies for requiring the use of non-structural Low Impact Development (LID) site design practices and techniques into stormwater management designs for new and redevelopment projects, check all that apply in your municipality/MS4:**

- None
- Ordinances or by-laws requiring LID standards (e.g. reduced road widths, % conservation land, etc.)
- Ordinances or by-laws requiring LID design at conceptual review (i.e., Pre-application and/or Master Plan) stages for municipal review prior to plans being engineered.
- Ordinances or by-laws requiring LID standards only in impaired waterbody drainage areas
- Local development regulations requiring use of LID to the maximum extent practicable
- LID Guidance available in written form
- LID Guidance available at pre-application meetings
- Other strategies to ensure incorporation of LID to the maximum extent practicable, describe:

Town encourages LID by referring to state LID guidelines in comprehensive plan.

Person(s)/Department responsible for reviewing submissions for LID:

Planning Board and Consulting Engineer

Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable:

Planning Board and Consulting Engineer

**POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**  
*cont'd*

<p><b>Strategies being implemented to ensure long-term Operation and Maintenance (O&amp;M) of privately-owned structural stormwater BMPs, check all that apply in your municipality/MS4:</b></p> <p><input type="checkbox"/> None</p> <p><input checked="" type="checkbox"/> Ordinances or by-laws identify BMP inspection responsible party</p> <p><input checked="" type="checkbox"/> Ordinances or by-laws identify BMP maintenance responsible party</p> <p><input type="checkbox"/> Ordinances or by-laws identify BMP inspections and maintenance requirements</p> <p><input checked="" type="checkbox"/> Ordinances or by-laws provide for easements or covenants for inspections and maintenance</p> <p><input type="checkbox"/> Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement</p> <p><input type="checkbox"/> Ordinances or by-laws contain requirements for documenting and detailing inspections</p> <p><input type="checkbox"/> Ordinances or by-laws contain requirements for documenting and detailing maintenance</p> <p><input checked="" type="checkbox"/> Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure</p> <p><input type="checkbox"/> The MS4 is responsible for inspections of all privately-owned BMPs</p> <p><input type="checkbox"/> The MS4 is responsible for maintenance of all privately-owned BMPs</p> <p><input type="checkbox"/> Establishment of escrow account for use in case of failure of BMP</p> <p><input checked="" type="checkbox"/> Other strategies to ensure long-term O&amp;M of privately-owned BMPs, describe:          _Town is allowed to inspect privately owned BMPs. Town is also allowed to maintain these BMPs if privately owned entity does not. _____</p>	
<p>Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p>If YES, please indicate if the Operations and Maintenance Agreements include the following:</p>	
<p>a. Party responsible for the long-term O&amp;M of permanent stormwater management BMPs</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>b. A description of the permanent stormwater BMPs that will be operated and maintained</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>c. The location of the permanent stormwater BMPs that will be operated and maintained</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>e. A requirement that all inspections and maintenance activities are documented</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>f. Annual submission of inspection/maintenance certification/documentation to the MS4</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>g. Stormwater management easement for access for inspections and maintenance or the preservation of stormwater runoff conveyance, infiltration, and detention areas and other stormwater controls and BMPs by persons other than the property owner</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>h. Steps available for addressing a failure to maintain the stormwater controls and BMPs</p>	<p><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>Please elaborate, if appropriate:          All new development must use O&amp;M agreement.</p>	
<p>Does your municipality/MS4 keep an inventory of privately-owned BMPs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>	
<p><b>For privately-owned structural BMPs, does your municipality/MS4 have a system for tracking:</b></p>	
<p>a. Agreements and arrangements to ensure O&amp;M of BMPs?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>b. Inspections?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>c. Maintenance and schedules?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>d. Complaints?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>e. Non-Compliance?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>f. Enforcement actions?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

**POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**  
**cont'd**

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections, and maintenance?  YES  NO

If yes, please elaborate on which tools are used:

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*NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their purpose and function. BMPs have the potential to create a highly interactive environment for community members and volunteers to get involved.*



**MINIMUM CONTROL MEASURE #6:  
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS  
(Part IV.B.6 General Permit)**

**SECTION I. OVERALL EVALUATION:**

**GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:**

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**H. Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

IV.B.6.b.1.i	<p>Use the space below to describe activities and actions taken to identify structural BMPs owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement.</p> <p><b>Do you have an inventory of MS4-owned/operated BMPs?</b>      <input checked="" type="checkbox"/> YES                      <input type="checkbox"/> NO</p> <p><b>Total # of MS4-owned/operated BMPs</b> (does not include CBs or MHs): <u>31</u></p>
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The Storm Water Steering Committee originally identified structural BMPs owned by the Town in 2003. Other BMPs have been added. No additional BMPs were added in 2018.

IV.B.6.b.1.ii	<p>Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement.</p> <p><b># of MS4-owned/operated BMPs inspected in 2018:</b> <u>0</u></p> <p><b># of MS4-owned/operated BMPs maintained/cleaned in 2018:</b> <u>0</u></p> <p><b># of MS4-owned/operated BMPs repaired in 2018:</b> <u>0</u></p> <p>Does your municipality/MS4 have a system for tracking:</p> <table style="width: 100%;"> <tr> <td>a. Inspection schedules of MS4-owned BMPs?</td> <td><input type="checkbox"/> YES</td> <td><input checked="" type="checkbox"/> NO</td> </tr> <tr> <td>b. Maintenance/cleaning schedules of MS4-owned BMPs?</td> <td><input checked="" type="checkbox"/> YES</td> <td><input type="checkbox"/> NO</td> </tr> <tr> <td>c. Repairs, corrective actions needed?</td> <td><input checked="" type="checkbox"/> YES</td> <td><input type="checkbox"/> NO</td> </tr> <tr> <td>d. Complaints?</td> <td><input type="checkbox"/> YES</td> <td><input checked="" type="checkbox"/> NO</td> </tr> </table> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance?</p> <p style="text-align: right;"><input type="checkbox"/> YES                      <input checked="" type="checkbox"/> NO</p>	a. Inspection schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	b. Maintenance/cleaning schedules of MS4-owned BMPs?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	c. Repairs, corrective actions needed?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	d. Complaints?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
a. Inspection schedules of MS4-owned BMPs?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO											
b. Maintenance/cleaning schedules of MS4-owned BMPs?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO											
c. Repairs, corrective actions needed?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO											
d. Complaints?	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO											

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

IV.B.6.b.1.iii	<p>Use the space below to describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement.</p> <p><b>Total # of CBs within regulated area (including SRPW and TMDL areas):</b> <u>1,518</u></p> <p><b># of CBs inspected in 2018:</b> <u>1,518</u>      <b>% of Total inspected:</b> <u>100</u></p> <p><b># of CBs cleaned in 2018:</b> <u>1,518</u>      <b>% of Total cleaned:</b> <u>100</u></p> <p>Quantity of sand/debris collected by cleaning of catch basins: <u>2,300 tons</u></p> <p>Location used for the disposal of debris: <u>Tiverton Landfill</u></p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins?      <input type="checkbox"/> YES      <input checked="" type="checkbox"/> NO</p>
<p>The Town has successfully inspected catch basins annually for the past fifteen years. A new clamshell was purchased in 2017 and is now used to clean catch basins.</p>	
IV.B.6.b.1.iv	<p>Use the space below to describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.</p>
<p>The Town fills road shoulders and cleans and repairs roadway swales on an as needed basis. Degraded shoulder areas are also loamed and seeded. Inspections are ongoing by DPW personnel.</p>	
IV.B.6.b.1.v	<p>Use the space below to describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.</p>
<p>The Town's DPW personnel inspect the MS4 for signs of deterioration, primarily near swales and catch basins, on a regular basis, especially after major storm events.</p> <p>The Town's DPW and consultant ESS Group, Inc. completed a dry weather outfall survey and sampling program in October/November 2011 that identified areas of scour or excessive sedimentation.</p>	
IV.B.6.b.1.vi	<p>Use the space below to indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). Evaluate appropriateness and effectiveness of this requirement.</p> <p><b>Total roadway miles within regulated area (including SRPW and TMDL areas):</b> <u>94</u></p> <p><b>Roadway miles that were swept in 2018:</b> <u>94</u>      <b>% of Total swept:</b> <u>100</u></p> <p>Type of sweeper used:      <input checked="" type="checkbox"/> Rotary brush street sweeper      <input type="checkbox"/> Vacuum street sweeper</p> <p>Quantity of sand/debris collected by sweeping of streets and roads: <u>650 tons</u></p> <p>Location used for the disposal of debris: <u>Tiverton Landfill</u></p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads?      <input type="checkbox"/> YES      <input checked="" type="checkbox"/> NO</p>
<p>The Town secured funding under the 2014 Bay and Watershed Restoration Grant Program and purchased a new rotary street sweeper in order to continue with their annual maintenance program. This allowed the Town to successfully sweep all public roadways in 2018. The removal of 650 tons of material indicates that this program has been successful in preventing substantial discharge of road sand, debris, and associated pollutants from the MS4.</p>	

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

IV.B.6.b.1.vii	Use the space below to describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.
<p>All new subdivisions are required to install grates on their inlet and outlet stormwater drainage piping (for pipes 24 inches or greater in diameter), clean all drainage structures and lines, and sweep roadways. Other features on existing infrastructure also help to reduce floatables and other pollutants. One example is the sluiceway outlet and grate at Creamer Pond, which drains to the Sakonnet River.</p> <p>Grinnell's Beach has litter receptacles but this facility was closed for 2018 due to construction. The Town also provides litter receptacles at the Bulgarmarsh, Town Farm, and Pocasset School playgrounds. These are regularly picked up and disposed of by the Town. Floatables and other pollutants have been reduced from the DPW yard by proper stockpiling of materials and maintenance of BMPs.</p> <p>These controls have been effective in reducing floatables and debris in the MS4 and receiving waters.</p>	
IV.B.6.b.1.viii	<p>Use the space below to describe the method for disposal of waste removed from MS4s and waste from other municipal operations, including accumulated sediments, floatables and other debris and methods for record-keeping and tracking of this information.</p> <p>Do you have a system for tracking actions to remove and dispose of waste?      <input type="checkbox"/> YES      <input checked="" type="checkbox"/> NO</p>
<p>Waste from the MS4 and other municipal operations are sent to the Town Landfill. Records detailing volumes of material removed and sent to the Landfill are maintained in the DPW Director's library.</p> <p>A pay-as-you-throw waste reduction program began in 2011 and has reduced trash volume.</p>	
IV.B.6.b.4 and IV.B.6.b.5	<p>Use the space below to describe and indicate activities and corrective actions for the evaluation of compliance. This evaluation must include visual quarterly monitoring; routine visual inspections of designated equipment, processes, and material handling areas for evidence of, or the potential for, pollutants entering the drainage system or point source discharges to a waters of the State; and inspection of the entire facility at least once a year for evidence of pollution, evaluation of BMPs that have been implemented, and inspection of equipment. A Compliance Evaluation report summarizing the scope of the inspection, personnel making the inspection, major observations related to the implementation of the Stormwater Management Plan (formerly known as a Stormwater Pollution Prevention Plan), and any actions taken to amend the Plan must be kept for record-keeping purposes.</p>
<p>The DPW maintains salt and sand storage in a fully enclosed structure to prevent stormwater pollution. The DPW's maintenance activities, which include the garage and wash bay, are tied into the Town's sewer system via an oil-water separator. Stormwater is effectively prevented from entering the sewer system, as activities are not exposed to stormwater.</p> <p>Visual monitoring was completed on a quarterly basis in 2018.</p>	
IV.B.6.b.6	<p>Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement.</p> <p>How many stormwater management trainings have been provided to <i>municipal employees</i> during this reporting period? <u>  0  </u></p> <p>What was the date of the last training? <u>  N/A  </u></p> <p>How many <i>municipal employees</i> have been trained in this reporting period? <u>  0  </u></p> <p>What percent of <i>municipal employees</i> in relevant positions and departments received stormwater management training? <u>  0  </u> %</p> <p>Have <i>municipal employees</i> that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges? <u>                  0                  </u></p>
<p>All new DPW employees are trained initially on proper stormwater pollution prevention techniques. Stormwater pollution prevention and good housekeeping are regular activities performed by DPW staff. Training for proper catch basin cleaning is conducted yearly.</p> <p>No external training was performed in 2018.</p>	

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

IV.B.6.b.7	Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.
New development plans are reviewed by the DPW Director. This is effective in minimizing water quality impacts from new developments. Water quality impacts will be evaluated for future flow management projects.	
Additional Measurable Goals and Activities	
No additional measurable goals or activities to report for 2018.	

**SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)**

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
N/A	Tiverton Town Library off Roosevelt Avenue	Tiverton DPW	Three infiltration basins	Annually
N/A	Ford Farm Road	Tiverton DPW	Two detention ponds	Annually/as needed
N/A	Tiverton Housing	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Cherry Lane	Tiverton DPW	One detention pond	Annually/as needed
N/A	265 Bridle Way	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Kevin Drive	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Across from 90 Frasier Lane (Wilderness Estates)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Bayberry Lane (Indian Rock Estates)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Tanglewood Drive (Indian Rock Estates)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Abel Hart Lane (Old Crandall Commons/Woods)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	South Commons Road (Old Crandall Commons/Woods)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Gooseberry Lane (Winterberry Woods)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Teaberry Drive (Winterberry Woods)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Ledoux Lane (Meadow Woods Estates)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Front Entrance of William Barton Estates	Tiverton DPW	Two undescribed BMPs	Annually/as needed
N/A	Raider's Way (William Barton Estates)	Tiverton DPW	Two undescribed BMPs	Annually/as needed
N/A	William Barton Drive (William Barton Estates)	Tiverton DPW	Two undescribed BMPs	Annually/as needed
N/A	Daniel Page Court (William Barton Estates)	Tiverton DPW	One undescribed BMP	Annually/as needed

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

N/A	Silver Beech Road (Beech Tree Hill)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Mountain Laurel Lane (Beech Tree Hill)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Across from 255 Cottrell Road (Cottrell Farms)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Across from 420 Cottrell Road (Cottrell Farms)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Carey Lane cul-de-sac (Villages on Mount Hope Bay)	Tiverton DPW	One undescribed BMP	Annually/as needed
N/A	Rhododendron Drive	Tiverton DPW	One detention pond	Annually/as needed
N/A	Christopher Avenue (Brayton Woods)	Tiverton DPW	One undescribed BMP	Annually/as needed

**SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)**

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
13	Old Colony Terrace	Scour	Scheduled to be addressed in spring 2019	Mount Hope Bay

**SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).**

The Town Library was completed in 2016 and incorporated three infiltration basins to reduce runoff and promote infiltration and recharge. Grinnell's Beach (relocation of parking farther away from beach) and the Stone Bridge abutment project (redirecting runoff) were completed in 2018.

**SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).**

No additional information was collected in 2018.





# TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

**SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.**

**(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (\*) if this person/entity is different from last year.)**

**Responsible Party Contact Name & Title:** Richard Rogers, P.E.\*

**Phone:** (401) 625-6760 **Email:** dpw@tiverton.ri.gov

LIST OF IMPAIRED WATERS:			
Impaired Water Body: Sucker Brook (in Statewide Bacteria TMDL)	Pollutants Causing Impairments: Enterococcus (TMDL Approved 2011)	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO Not known <input type="checkbox"/> YES <input type="checkbox"/> NO Not known
Impaired Water Body: Mt. Hope Bay	Pollutants Causing Impairments: Fecal Coliform (TMDL Approved 2010)	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Impaired Water Body: Sakonnet River	Pollutants Causing Impairments: Fecal Coliform (TMDL Approved 2005)	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO Not known <input type="checkbox"/> YES <input type="checkbox"/> NO Not known
Impaired Water Body: Stafford Pond	Pollutants Causing Impairments: Excess Algal Growth, Total Phosphorus, and Dissolved Oxygen (TMDL Approved 1999)	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO Not known <input type="checkbox"/> YES <input type="checkbox"/> NO Not known
What kind of public education and outreach strategy does the MS4 implement to target each pollutant of concern? (e.g., signage on installed stormwater controls, resources on website, pamphlets about litter, pet waste, grass clippings, fertilizer use, etc.)			
Pollutant of Concern: 1. Bacteria	Strategy: 1. Pamphlet about reduction of wastewater and other contaminants	Target Audience: 1. Residents	
Has the MS4 installed stormwater BMPs to address impairments? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
If yes, indicate the type of stormwater control, date installed, ownership, and who is responsible for maintenance:			
Type of Stormwater Control:	Date Installed:	Who owns it?	Who maintains it?

***POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd***

Additional enhanced minimum measures used to address water quality issues (e.g., increased street sweeping or catch basin cleaning in areas with high pollutant loading, installation of floatable traps/screens, etc.):

Ongoing work toward meeting the requirements of this the Mount Hope Bay/Kickemuit River Estuary TMDL includes the following:

There are two primary outfalls identified by the TMDL in the Town of Tiverton. These outfalls are located in close proximity to each other at the termini of Summerfield Lane and Robert Gray Avenue. The TMDL requires that these outfalls be mapped, assessed, and prioritized for treatment.

Toward this end, the Town and consultant ESS Group, Inc. completed an initial illicit discharge tracking study in the Summerfield Lane and Robert Gray Avenue outfall drainage systems in November 2011. This study used optical brightener samplers to begin identifying the extent of wastewater contamination in each drainage system. The results identified potential source areas of wastewater contamination for more detailed study and subsequent elimination.

In 2013, 2014, and 2015 the Town continued investigations of potential bacteria sources in the Summerfield Lane and Robert Gray Avenue neighborhoods. These investigations helped to further isolate the most likely dry- and wet-weather sources.

The Tiverton Wastewater District was established in 2014 to implement the sewerage recommendations of the 2013 Facilities Plan Update, which will contribute significantly to satisfying the requirements of the TMDL. As of the end of 2018, work on Phase I of the sewer expansion continues.

In 2015, the Town obtained funding from the Bay and Watershed Restoration Grant Program to support maintenance and improvement of stormwater infrastructure. As a result, a new street sweeper was purchased in 2015. Separately, a clamshell catch basin cleaner was also purchased in 2017. The street sweeper and a catch basin cleaner are used Town-wide, as appropriate, but contribute to good housekeeping efforts to reduce stormwater pollutants in the Summerfield Lane and Robert Gray Avenue TMDL priority outfall catchments.

Additional investigation into illicit discharges in these catchments is anticipated.



## SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

**SECTION I.** In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System (RIPDES Regs)*, on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: <http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

The following water bodies were identified in Tiverton as SRPWs in Appendix D of the RIDEM Water Quality Regulations:

- Fogland Point Marsh
- Nonquit Pond
- Sapowet Marsh
- Stafford Pond

The following water bodies were identified in Tiverton in the 2016 303(d) Lists of Impaired Waters:

- Nonquit Pond – Cause of Impairment: Phosphorus and Total Organic Carbon (TMDL Needed and Scheduled for 2018)
- Mt. Hope Bay – Cause of Impairment: Total Nitrogen and Dissolved Oxygen (TMDL Needed and Scheduled for 2024)
- Sucker Brook– Cause of Impairment Enterococcus and Copper (TMDL Needed and Scheduled for 2026)
- Several additional water bodies (listed below) are newly listed for impairment related to Bacteria (TMDL Needed and Scheduled for 2030)
  - Adamsville Brook and Tribs
  - Patchet Brook
  - Sin and Flesh Brook and Tribs

The discharges associated with Tiverton's MS4 to an identified SRPW or impaired water includes Stafford Pond and Mt. Hope Bay. The following categories represent the six minimum control measures and an assessment of the progress expanding the MS4 Phase II Stormwater Program to include the discharges to these water bodies.

### **Public Education and Outreach**

The Town's Conservation Commission works alongside several other committees, boards, the DPW, and town residents on the Fogland Beach Oversight Committee, dealing with issues such as sediment and erosion control.

For a complete description of measurable goals and BMPs, please refer to Section IV.B.1.b.1.

### **Public Involvement/Participation**

Refer to Section IV.B.2.b.2.ii.

### **Illicit Discharge Detection and Elimination**

The Town required residents to hire licensed septic system inspectors to determine the viability of all onsite septic discharge systems in the Stafford Pond Watershed by July 2007 and the Sakonnet Waterfront by July 2012.

Please refer to Section IV.B.3.b.5.ii, iii, iv, & v for further information.

### **Construction Site Runoff Control**

In general, construction projects must submit erosion and sediment control plans for review by the Planning Board. The DPW Director and/or Planning Board representative oversee and enforce Town ordinances during ongoing construction through inspections of construction work in Town. Any non-compliance can result in forfeiting of cash surety by the contractor.

The watersheds of Stafford and Nonquit Ponds are designated as Watershed Protection Overlay Districts by Town ordinance and subject to special protections. Prior to the issuance of any construction permit within these districts, the applicant may be required

***POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd***

to submit an Environmental Review Statement (ERS) for review and approval by the Planning Board. The purpose of this process is to protect the quality and quantity of surface water in Stafford and Nonquit Ponds.

**Post Construction Runoff Control**

Due to rural nature of the Town of Tiverton, practically all construction in Town is subdivision development. These private developments are periodically inspected by the DPW Director and the Planning Board's Consultant (Civil Engineer) to determine compliance with MS4 requirements.

**Pollution Prevention/Good Housekeeping**

All structural BMPs associated with the MS4 are inspected periodically. Catch basins are inspected annually during spring cleanouts and an additional time during the Town's mosquito abatement program. The oil/water separator and salt storage shed at the Town DPW facility are inspected quarterly and cleaned on an as needed basis. The three infiltration basins at the Town Library (construction completed in 2016) are inspected on an annual basis and after major storms, as needed. Other BMPs owned or operated by the Town are inspected on an approximately annual basis, with additional inspection as needed.

The Town purchased a new street sweeper in 2015 and completes street sweeping in summer. A new clamshell catch basin cleaner was purchased in 2017 and is now used to complete catch basin maintenance activities.



# RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources



## INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES)

### SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED BY REGULATED SMALL MS4s ANNUAL REPORT FORM

#### **WHO MUST SUBMIT AN ANNUAL REPORT:**

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge stormwater under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Stormwater General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s (hereafter referred to as "the General Permit"), must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance by March 10<sup>th</sup> to track progress of compliance. If you have questions regarding this Annual Report Form contact Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM  
Office of Water Resources  
RIPDES Program  
Permitting Section  
235 Promenade Street  
Providence, RI 02908  
ATTN: Jennifer Stout

#### **INSTRUCTIONS FOR COMPLETION:**

##### **GENERAL INFORMATION PAGE:**

###### *"RIPDES Permit #"*

Include your permit ID # to ensure proper tracking.

###### *"Operator of MS4"*

Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (RIPDES Rules 3 & 12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to indicate the legal status of the operator of the MS4.

###### *"Owner of MS4"*

If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm, public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES

Rules 3 & 12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

###### *"Certification"*

State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Rule 12);

*For a corporation:* by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with corporate procedures;

*For a partnership or sole proprietorship:* by a general partner or the proprietor;

*For a Municipality, State, Federal or other public site:* by either a principal executive officer or ranking elected official.

##### **SECTION I- OVERALL EVALUATION OF BMPS AND MEASURABLE GOALS:**

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. This section provides narrative space for a descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures for the 2018 calendar year. Please type or print. If additional space is needed, modify as necessary. Please submit attachments to the appropriate minimum control measure following the format provided.

A Permit ID # has been provided, which refers to the part of the permit where you can find a listing or description of the required measurable goal.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal. **Mark with an asterisk (\*) if this person/entity is different from last year.**

Describe whether each measurable goal was completed within the time proposed in the General Permit or your Stormwater Management Program Plan (SWMPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

## **SECTION II- ADDITIONAL ANNUAL REPORT REQUIREMENTS**

Section II refers to additional reporting requirements that the General Permit requires to be submitted to the Department as part of the Annual Report. Section II requirements apply to Minimum Control Measures 2 through 6.

**Minimum Control Measure #2: Section II:**  
Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments received

in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Parts IV.G.2.h and IV.G.2.i) to the Annual Report.

**Minimum Control Measure #3: Section II.A:**  
Provide the number of illicit discharges identified in 2018, number of illicit discharges tracked in 2018, number of illicit discharges eliminated in 2018, complaints received, complaints investigated, violations issued and resolved with a summary of enforcement actions, number of unresolved violations that have been referred to RIDEM, the total number of illicit discharges identified to date, and the total number of illicit discharges remaining unresolved at the end of 2018. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m), and the total number of outfalls identified to date.

**Minimum Control Measure #3: Section II.B:**  
List identified MS4 interconnections, including location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.l).

**Minimum Control Measures #4 & 5: Section II.A:**  
Identify the number of construction and post-construction plan and SWPPP/SESC Plan reviews completed during Year 15 (2018) and any additional information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

**Minimum Control Measure #4: Section II.B:**  
Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

**Minimum Control Measure #5: Section II.B:**  
Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

**Minimum Control Measure #5: Section II.C:**  
Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in

enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #6: Section II.A:

As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section II.B:

Part IV.B.6.b.1.v of the General Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section II.C:

As noted in Part IV.G.2.j of the General Permit, specify any planned municipal construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: Section II.D:

Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data, including, but not limited to, dry weather survey data (Part IV.G.2.e).

### **TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS**

Section I:

Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural stormwater controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of stormwater (Part IV.G.2.d).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable, assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness, you may want to consider violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs. Also include a discussion of any proposed changes to BMPs or measurable goals.

### **SPECIAL RESOURCE PROTECTION WATERS (SRPWs)**

Section I:

Complete this section only if your MS4, located outside Urbanized Areas or Densely Populated Areas, discharges to:

a SRPW as listed in Appendix D of the *RIDEM Water Quality Regulations* at this link:

<http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf>

or

an impaired water body including water bodies with no approved TMDL as listed in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link:

<http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf>.

In accordance with Rule 31(a)(5)(i)G in the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regulations), MS4s were required to incorporate any discharges to these water bodies into their MS4 Program on or after March 10, 2008 unless a waiver has been granted in accordance with Rule 31(g)(5)(iii).

Provide a progress report on the present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to incorporate these areas into the MS4's Phase II Stormwater Program.

**TIVERTON TOWN COUNCIL**

**NOTICE AND AGENDA OF MEETING**

**Tiverton Town Hall  
343 Highland Road  
Tiverton, Rhode Island 02878**

**Regular Meeting: Monday, April 8, 2019 at 7:00 p.m.**

**Notice:** In accordance with the Open Meetings Act, Section 42-46-6 of the Rhode Island General Laws, notice is hereby given that the Tiverton Town Council will hold a Regular Meeting on Monday, April 8, 2019 at 7:00 p.m. at the Tiverton Town Hall at 343 Highland Road.

**Note 1:** Individuals requesting interpreter services for the hearing impaired must contact the Town Clerk's Office at 343 Highland Road or call (401) 625-6704 at least forty-eight (48) hours in advance of the meeting date.

**Note 2:** All matters before the Town Council may be voted upon unless the agenda item specifies that it is "For Discussion Only."

**Date Posted: April 4, 2019**

**Agenda:**

- 1. CALL TO ORDER**
- 2. PLEDGE OF ALLEGIANCE TO THE FLAG**
- 3. ROLL CALL:**

Robert D. Coulter – President / Justin D. Katz – Vice President /  
Donna J. Cook / Denise M. deMedeiros / Nancy L. Driggs / Patricia M. Hilton /  
Joseph C. Perry, Jr.

- 4. CONSENT AGENDA:**

Note 3: All items listed with a (CA) are to be considered routine by the Town Council and will ordinarily be enacted by one motion. There will be no separate discussion of these items unless a member of the Council, or a member of the public so requests and the Town Council President permits, in which event the item will be removed for separate consideration later on the agenda.

A. Approval of Town Council Minutes:

- (1) March 25, 2019 (Regular Meeting)
- (2) March 25, 2019 (Executive Session)
- (3) April 1, 2019 (Executive Session)



B. Acknowledge Receipt of Minutes from Boards/Commissions/Committees:

- (1) Budget Committee (4)
- (2) Open Space and Land Preservation Commission
- (3) Personnel Board (2)
- (4) Recycling and Landfill
- (5) Planning Board (3)
- (6) Tiverton Prevention Coalition

C. Acknowledge Receipt of Reports:

- (1) William Compton, Administrative Officer for Planning Board – February and March Administrative Reports
- (2) Town Administrator – Department Monthly Reports for March
- (3) Town Administrator – Police and Fire Overtime Reports for March

D. Acknowledge Receipt of Correspondence:

- (1) Town of Gloucester Resolution 2019-#01 Stabilization of State Educational Aid
- (2) Town of Smithfield School Department Resolutions
  - a. School Committee Resolution on Financial Literacy
  - b. Smithfield School Committee Resolution On Gun Free Schools
  - c. Amend Article XII Resolution
  - d. School Committee Resolution Contract Continuation
  - e. School Committee Resolution on Binding Arbitration

**5. PUBLIC PRESENTATIONS/ANNOUNCEMENTS/COMMENTS:**

- A. Sally Black and Kelly Levesque – Tiverton Prevention Coalition – Tiverton Prevention Coalition Events and Announcements
- B. General Open Public Forum

**6. PUBLIC HEARINGS (ADVERTISED):**

- A. Justin Wilkie – Requests Approval of Sound Variance for His Wedding to Be Held on Family’s Property, 329 King Road, September 15, 2019 from 11 a.m. to 7 p.m. and Approval of Special Event Permit (non-advertised) – Subject to Meeting All Legal Requirements
- B. Public Hearing – Application Filing Consideration for a Small Cities Community Development Block Grant. Statewide, \$5,437,130 is Available to Undertake the Following Range of Activities:
  - Improved Housing Opportunities for Low and Moderate-Income Families and Individuals
  - Provisions of Employment Opportunities for Low and Moderate Income Individuals
  - Provision of Community Facilities and Services Principally Benefiting Low and Moderate-Income Families and Individuals

**7. OTHER PUBLIC HEARINGS:**

- A. DPW Director, Richard Rogers – Approval to Submit to RIDEM the ESS Group RIPDES Small MS4 Annual Report – 2018

**8. TOWN COUNCIL SITTING AS BOARD OF LICENSING (NON-ADVERTISED LICENSES):**

- A. Rajab A Sheikh d/b/a Step by Step Convenience Inc., 429 Main Road – Request Approval of Victualling License

**9. APPOINTMENTS AND RESIGNATIONS:**

- A. Town Clerk – General Update on April Reappointments to “Group A” Boards/ Commissions/Committees

**10. GENERAL BUSINESS:**

- A. Town Clerk – May 2019 Financial Town Referendum (for FY2020 Budget):
  - (1) General FTR Status Update
  - (2) Acknowledge Budget Committee Approved FY2020 Proposed Budget
  - (3) Potential Optional Budget Proposal
  - (4) Potential Reconsideration of Town Council FTR Resolutions to Eliminate Duplication
- B. Council President Coulter – Fire Department Personnel Matters:
  - (1) Presentation and Distribution of Tentative Agreement and Fiscal Impact Statement for IAFF Contract (July 2018 to June 30, 2022) Expected to be Voted on at the April 22, 2019 Council Meeting
  - (2) Approval of Resolution for Hiring of Firefighters on a Per Diem Basis
  - (3) Approval of Memorandum of Understanding (MOU) Between the Town of Little Compton and the Town of Tiverton to Employ Certain Firefighters on a Limited Temporary Per Hour Basis
- C. Council President Coulter – Approval of Request for Proposals for Town Solicitor and/or Other Legal Services Commencing On or About July 1, 2019
- D. Councilor deMedeiros – Appointment of Liaison for AFSCME Negotiations
- E. Councilor President Coulter – Propose Town Council Policy or Practice to Assign Supporting Councilors / Liaisons to Litigation Matters (Brief Introduction Only; For Discussion Only)
- F. DPW Director Richard Rogers – Request Approval of Transfers Totaling \$23,000 from Acct#5540-6451 (Snow Removal) to:
  - (1) Acct#5540-5102 (Clerk’s Pay) for \$6,000
  - (2) Acct#5540-5104 (Overtime) for \$9,000
  - (3) Acct#5540-6698 (Sand, Salt & Gravel) for \$6,000

- (4) Acct#5540-7423 (Supplies, Misc.) for \$1,000
- (5) Acct#5530-7645 (Dozer Repairs) for \$1,000

G. Town Administrator Jan Reitsma – Request Approval of Transfers Totaling \$28,406.90 From Acct#100-2190-5269 (Group Health-Retired) to:

- (1) Acct#3380-6745 (Street Lights) for \$15,451.90
- (2) Acct#3380-6745 (Street Lights) Prism-4 mos.) for \$12,955.00

H. Consent Agenda Items Removed for Separate Consideration (See Note 3)

**11. OTHER ITEMS/ANNOUNCEMENTS/COMMENTS:**

A. Town Administrator:

- (1) Update on Fire Rescue Purchase
- (2) Update on Bids Received for Harbor Boat Engines
- (3) Update on Award for Engineering Services

B. General Announcements and Comments:

- (1) Town Administrator
- (2) Town Clerk
- (3) Town Solicitor
- (4) Town Councilors

**12. ADJOURNMENT**

**Note 4:** Pursuant to RIGL §42-46-6(b): Notice – “Nothing contained herein shall prevent a public body, other than a school committee, from adding additional items to the agenda by majority vote of the members. Such additional items shall be for informational purposes only and may not be voted on except where necessary to address an unexpected occurrence that requires immediate action to protect the public or to refer the matter to an appropriate committee or to another body or official.”

**Note 5:** See also Town Council Governance Policy.

\* \* \* \* \*



**Tiverton MS4 Annual Report RY18**  
Tiverton, Rhode Island

1 inch = 2,500 feet

Source: 1) ESRI, World Map, 2016  
2) Town of Tiverton, Outfalls, 2011

Outfalls

Figure 1