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environmental consulting & engineering services

May 20, 2020

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

**Re: 2019 RIPDES Small MS4 Annual Report
Town of Tiverton, Rhode Island
ESS Project No.: T298-015**

Dear Ms. Stout:

On behalf of the Town of Tiverton, ESS Group, Inc. is pleased to submit the enclosed 2019 (Year 16) 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 2019 MS4 Annual Report.

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

Sincerely,

ESS GROUP, INC.

Matt Ladewig
Project Manager

Attachments

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





RIPDES Small MS4 Annual Report - 2019

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

Project No. T298-015
May 13, 2020



| | |
|---------------------|-------|
| DEM USE ONLY | |
| Date Received | _____ |

RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR0400 _____ 039 _____

REPORTING PERIOD: **YEAR 16**
Jan 2019-Dec 2019

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 *RR* - Director Date 5-15-20



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: | |
| <p>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.</p> <p>(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.)</p> <p>Responsible Party Contact Name & Title: <u>Richard Rogers, P.E.</u></p> <p>Phone: <u>(401) 625-6760</u> Email: <u>dpw@tiverton.ri.gov</u></p> | |
| IV.B.1.b.1 | <p>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.</p> <p>The residents of Tiverton have been educated on stormwater pollution prevention for the past sixteen years. Elements of public education include the following ongoing activities:</p> <ol style="list-style-type: none"> 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 DPW 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 | <p>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.</p> <p>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:</p> <ul style="list-style-type: none"> • Conservation Commission educates the public regarding stormwater pollution prevention and oversees activities to minimize erosion. • 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 checked="" type="checkbox"/> Recycling | General |
| <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 2019 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings:

Green Infrastructure Coalition meetings (November 20, 2019)
 USDA Stormwater Management Technical Assistance Training Webinar (November 6, 2019)
 Rhode Island Soil Erosion and Sediment Control Training (October 2019)

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



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.

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 2018 MS4 Annual Report was discussed during a Town Council meeting on April 4, 2019 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 27 to May 4, 2019.

Save the Bay sponsored a cleanup event at Fogland Beach as part of the International Coastal Cleanup on September 28, 2019.

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:

- Cleanup Events
Comments on SWMPP Received
Community Hotlines
Community Meetings
Other (describe)
Storm Drain Markings
Stakeholder Meetings
Volunteer Monitoring
Plantings

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? [X] YES [] NO

If YES, Date of Public Notice: May 7, 2020

PUBLIC INVOLVEMENT/PARTICIPATION cont'd

How was public notified:

- List-Serve (Enter # of names in List: _____) Newspaper Advertising
 TV/Radio Notices Town Hall posting
 Website Other:

Enter Web Page URL: <https://opengov.sos.ri.gov/OpenMeetingsPublic/OpenMeetingDashboard?subtopmenuId=201&EntityID=3543>

Was public meeting held? YES NO

Date: May 11, 2020

Where: Virtual (Zoom)

Summary of public comments received: The public did not submit any comments.

Planned responses or changes to the program: N/A.



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

SECTION I. OVERALL EVALUATION:

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| GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS | |
| <p>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.</p> <p>(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.)</p> <p>Responsible Party Contact Name & Title: <u>Richard Rogers, P.E.</u></p> <p>Phone: <u>(401) 625-6760</u> Email: <u>dpw@tiverton.ri.gov</u></p> <p>Has this person received training on Illicit Discharge Detection and Elimination (IDDE)? <u>No</u></p> <p>If yes, when and where? <u>N/A</u></p> <p>If no, who is trained on IDDE? <u>No one has received formal training</u></p> | |
| 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>Number of Outfalls Mapped within regulated area: <u>109</u></p> <p>Percent Complete: <u>100</u></p> <p>If 100% Complete, Provide Date of Completion: <u>March 2012</u></p> |
| <p>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. In 2019, the map was updated to correct the ownership information for several outfalls, based on coordination with RIDOT.</p> | |
| 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 2019 calendar year.</p> |
| <p>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.</p> | |
| 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> |
| <p>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.</p> <p>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.</p> <p>Forms developed in 2017 are being used by inspectors to document the condition of each system element.</p> <p>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.</p> | |

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

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| IV.B.3.b.4 | <p>Indicate if the IDDE 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.</p> <p>Date of Adoption: _____ May 13, 1996; amended March 26, 2007, January 14, 2011, and November 1, 2011 _____</p> <p>If the Ordinance was amended in 2019, 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 www.municode.com.</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 2019.</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 as needed 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>Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: _____ 1,518 _____</p> <p>Percent Complete: _____ 100 _____ %</p> <p>Date of Completion: _____ October 2019 _____</p> |
| <p>The DPW Director is responsible for implementing an annual catch basin inspection on 1,518 catch basins. Catch basins are typically inspected once per year, as part of annual operation and maintenance inspections and 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. 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 <u>must</u> include a report of <u>all outfalls</u> and indicate the presence or absence of dry weather discharges.</p> <p>Number of Outfalls Surveyed Jan-Apr: _____ 103 (in 2007) _____ Number of Outfalls Surveyed Jul-Oct: _____ 108 (in 2011) _____</p> <p>Percent Complete: _____ 100 _____ %</p> <p>Date of Completion: _____ November 4, 2011 _____</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

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|--|--|
| 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. |
| <p>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.</p> <p>The Town also updated its outfall map in 2019 to reflect information provided by RIDOT.</p> | |
| 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. |
| <p>The operator is not aware of unauthorized non-stormwater discharges to the MS4 that have been deemed appropriate to continue discharging.</p> | |
| 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 OWTSs. 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 with bidding complete and construction anticipated for Summer 2020. 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 (www.twwd.org/customer-resources/).</p> | |
| <p>Additional Measurable Goals and Activities</p> <p>No additional goals or activities were reported in 2019</p> | |

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

| | |
|--|--|
| # of Illicit Discharges Identified in 2019: 0 | # of Illicit Discharges Tracked in 2019: 0 |
| # of Illicit Discharges Eliminated in 2019: 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 2019: 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
There is no mapping currently underway

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 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.</p> <p>Date of Adoption: <u>January 24, 2011</u></p> <p>If the Ordinance was amended in 2019, 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.</p> |
|------------|--|

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 2019.

| | |
|------------|--|
| 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. |
|------------|---|

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 2019

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd

| |
|---|
| <p>Additional Measurable Goals and Activities</p> <p>No additional measurable goals or activities to report in 2019</p> |
|---|

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 16 (2019), 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.

| |
|--|
| <p># of Construction Applications Received: <u> 123 </u></p> <p># of Construction Reviews Completed: <u> ≤123 </u></p> <p># of Permits/Authorizations Issued: <u> ≤123 </u></p> |
| <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 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. In 2019, this included USDA Stormwater Management Technical Assistance Training Webinar (November 6, 2019) and Rhode Island Soil Erosion and Sediment Control Training (October 2019)</p> |

SECTION II.B - Erosion and Sediment Control Inspections during Year 16 (2019), 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: 50 | |
| # of Site Inspections: 53 | # of Complaints Received: 0 |
| # of Violations Issued: 0 | # of Unresolved Violations Referred to RIDEM: 0 |

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd

Summary of Enforcement Actions, include an evaluation of the effectiveness of the program.

No violations were issued in 2019.

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

The Planning Board's Consulting Engineer and DPW Director are responsible for completing inspections.

Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":

Prior education/experience and continuing education, as necessary.



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

SECTION I. OVERALL EVALUATION:

| | |
|--|---|
| GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS: | |
| <p>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.</p> <p>(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.)</p> <p>Responsible Party Contact Name & Title: <u>Richard Rogers, P.E.</u></p> <p>Phone: <u>(401) 625-6760</u> Email: <u>dpw@tiverton.ri.gov</u></p> | |
| IV.B.5.b.5 | <p>Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.</p> <p>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.</p> |
| IV.B.5.b.6 | <p>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).</p> <p>No new industrial stormwater discharges were referred to RIDEM in 2019.</p> |
| IV.B.5.b.9 | <p>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.</p> <p>Date of Adoption: <u>December 13, 1995; Amended January 24, 2011</u></p> <p>If the Ordinance was amended in 2019, 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.</p> <p>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 <i>Rhode Island Storm Water Design and Installation Standards Manual</i>.</p> <p>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.</p> <p>No amendments to this ordinance were made in 2019.</p> |
| IV.B.5.b.12 | <p>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.</p> <p>Catch basins are inspected annually during cleanouts. Other structural BMPs are inspected regularly and maintained when necessary. Structural BMPs are repaired when inspections identify the need.</p> |

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

Additional Measurable Goals and Activities

No additional measurable goals or activities to report for 2019.

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 16 (2019), 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.

| |
|--|
| # of Post-Construction Applications Received: <u> 0 </u> |
| # of Post-Construction Reviews Completed: <u> 0 </u> |
| # of Permits/Authorizations Issued: <u> 0 </u> |
| Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. |
| 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. |
| Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Planning Board's Consulting Engineer and the DPW Director |
| Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": Prior education/experience and continuing education, as necessary |

SECTION II.B. - Post Construction Inspections during Year 16 (2019), 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: 50 | # of Construction Projects Completed: ≤50 |
| # of Site Inspections for proper Installation of BMPs: 25 | # of Complaints Received: 0 |
| # of Violations Issued: 0 | # of Unresolved Violations Referred to RIDEM: 0 |
| Summary of Enforcement Actions: | |
| The operator is unaware of violations being issued in 2019. | |
| Identify person(s) /Department and/or parties responsible for the implementation of this requirement: | |
| - DPW Director | |
| - Consulting Engineer (Steere Engineering) | |
| Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": Prior education/experience and continuing education, as necessary | |
| In 2019, this included USDA Stormwater Management Technical Assistance Training Webinar (November 6, 2019) and Green Infrastructure Coalition meetings (November 20, 2019) | |

SECTION II.C. - Post Construction Inspections during Year 16 (2019), 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.

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

| | |
|--|---|
| # 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 |
| <p>Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts.</p> <p>No post-construction O&M inspections were completed by the Town in 2019. Additionally, the operator is unaware of violations being issued in 2019.</p> <p>Identify person(s) /Department and/or parties responsible for the implementation of this requirement:</p> <ul style="list-style-type: none"> - DPW Director - Consulting Engineer (Steere Engineering) | |
| <p>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:</p> <ul style="list-style-type: none"> <input type="checkbox"/> None <input type="checkbox"/> Ordinances or by-laws requiring LID standards (e.g. reduced road widths, % conservation land, etc.) <input type="checkbox"/> 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. <input type="checkbox"/> Ordinances or by-laws requiring LID standards only in impaired waterbody drainage areas <input type="checkbox"/> Local development regulations requiring use of LID to the maximum extent practicable <input type="checkbox"/> LID Guidance available in written form <input type="checkbox"/> LID Guidance available at pre-application meetings <input checked="" type="checkbox"/> Other strategies to ensure incorporation of LID to the maximum extent practicable, describe: <div style="border-bottom: 1px solid black; margin-left: 40px; width: 70%;">Town encourages LID by referring to state LID guidelines in comprehensive plan</div> | |
| <p>Person(s)/Department responsible for reviewing submissions for LID: <div style="border-bottom: 1px solid black; margin-left: 20px; width: 80%;">Planning Board and Consulting Engineer</div> </p> | |
| <p>Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable: <div style="border-bottom: 1px solid black; margin-left: 20px; width: 80%;">Planning Board and Consulting Engineer</div> </p> | |
| <p>Are you aware of the Municipal LID Self-Assessment that was introduced by the DEM and RI NEMO in September 2019 and again during the December 12, 2019 MS4 Gathering?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>A final version of the Municipal LID Self-Assessment is expected to be available on the DEM's website in early 2020. Does your community plan to complete it?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If No, why not? _____</p> | |

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

Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of privately-owned structural stormwater BMPs, check all that apply in your municipality/MS4:

- None
- Ordinances or by-laws identify BMP inspection responsible party
- Ordinances or by-laws identify BMP maintenance responsible party
- Ordinances or by-laws identify BMP inspections and maintenance requirements
- Ordinances or by-laws provide for easements or covenants for inspections and maintenance
- Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement
- Ordinances or by-laws contain requirements for documenting and detailing inspections
- Ordinances or by-laws contain requirements for documenting and detailing maintenance
- Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure
- The MS4 is responsible for inspections of all privately-owned BMPs
- The MS4 is responsible for maintenance of all privately-owned BMPs
- Establishment of escrow account for use in case of failure of BMP
- Other strategies to ensure long-term O&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.

Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements? YES NO
 If YES, please indicate if the Operations and Maintenance Agreements include the following:

| | |
|---|---|
| a. Party responsible for the long-term O&M of permanent stormwater management BMPs | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| b. A description of the permanent stormwater BMPs that will be operated and maintained | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| c. The location of the permanent stormwater BMPs that will be operated and maintained | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| e. A requirement that all inspections and maintenance activities are documented | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| f. Annual submission of inspection/maintenance certification/documentation to the MS4 | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| 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 | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |
| h. Steps available for addressing a failure to maintain the stormwater controls and BMPs | <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |

Please elaborate, if appropriate:
All new development must use O&M agreement.

Does your municipality/MS4 keep an inventory of privately-owned BMPs? YES NO

For privately-owned structural BMPs, does your municipality/MS4 have a system for tracking:

| | |
|---|---|
| a. Agreements and arrangements to ensure O&M of BMPs? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| b. Inspections? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| c. Maintenance and schedules? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| d. Complaints? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| e. Non-Compliance? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |
| f. Enforcement actions? | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |

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:

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: | |
| <p>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.</p> <p>(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.)</p> <p>Responsible Party Contact Name & Title: <u>Richard Rogers, P.E.</u></p> <p>A. Phone: <u>(401) 625-6760</u> Email: <u>dpw@tiverton.ri.gov</u></p> | |
| IV.B.6.b.1.i | <p>Use the space below to describe activities and actions taken to identify structural BMPs (these include but are not limited to: retention/detention basins, vegetated treatment, infiltration and pre-treatment controls, etc.) 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>Do you have an inventory of MS4-owned/operated BMPs? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p> <p>Total # of MS4-owned/operated BMPs (does not include CBs or MHs): <u>32</u></p> <p>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 2019.</p> |
| 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># of MS4-owned/operated BMPs inspected in 2019: <u>0</u></p> <p># of MS4-owned/operated BMPs maintained/cleaned in 2019: <u>0</u></p> <p># of MS4-owned/operated BMPs repaired in 2019: <u>0</u></p> <p>Does your municipality/MS4 have a system for tracking:</p> <p>a. Inspection schedules of MS4-owned BMPs? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>b. Maintenance/cleaning schedules of MS4-owned BMPs? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>c. Repairs, corrective actions needed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>d. Complaints? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p> |

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

| | |
|---|--|
| <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>External training was performed in 2019.</p> | |
| IV.B.6.b.7 | <p>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.</p> <p>New development plans are reviewed by the DPW Director. This is effective in minimizing water quality impacts from new developments. Water quality impacts were assessed for the new Farnum Street outfall (#109) and a BMP was used to minimize those impacts. Water quality impacts will continue to be evaluated for future flow management projects.</p> |
| <p>Additional Measurable Goals and Activities</p> <p>No additional measurable goals or activities to report for 2019.</p> | |

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i) These include but are not limited to: retention/detention basins, vegetated treatment, infiltration and pre-treatment controls, etc.

| 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 |

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

| | | | | |
|-----|---|--------------|----------------------|--------------------|
| 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 |
| 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 |
| N/A | Farnum Road | Tiverton DPW | Swale | 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: |
|-------------|-----------|-------------------------|--|--|
| | | | | |
| | | | | |
| | | | | |

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).

Grinnell's Beach (relocation of parking farther away from beach) and the Stone Bridge abutment project (redirecting runoff) were completed in 2019.

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).

In 2019, the Town began to develop a prioritized list of potential locations for green infrastructure and water quality BMP projects. This list was derived from a desktop assessment of municipally owned parcels and rights-of-way. The Town anticipates further refining this list and identifying potential projects to address stormwater issues in the MS4.



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 2019, work on Phase I of the sewer expansion continues. Construction is currently expected to begin in April 2020.

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.



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. Additionally, 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 (www.twwd.org/customer-resources/).

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 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.

TIVERTON TOWN COUNCIL

343 Highland Road, Tiverton, Rhode Island

NOTICE and AGENDA of MEETING

Regular Meeting: Monday, May 11, 2020 at 7:00 pm

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, May 11, 2020, 7:00pm** at the **Tiverton Town Hall** at 343 Highland Road. The town will be conducting its meeting in compliance with Executive Order 20-05 dated March 16, 2020 by the Honorable Gina Raimondo.

*****AS A RESULT OF THE COVID-19 PANDEMIC, AND THE CLOSURE OF TOWN HALL, THIS MEETING WILL BE CONDUCTED VIRTUALLY, THROUGH AN APPLICATION CALLED, "ZOOM" *****

IN ORDER TO PARTICIPATE, USE THE FOLLOWING OPTIONS:

1. Call the toll-free number: 877-853-5247 (audio only) and enter the following information:

MEETING ID: 969-0452-1204

You will then be asked for the meeting passcode.

Enter the following passcode number:

PASSCODE: 473411

2. To participate visually (with audio) you will need to log into the following from your computer or smart phone, go to: www.zoom.us

Enter the following information when prompted:

MEETING ID: 969-0452-1204

You will then be asked for the meeting passcode.

Enter the following passcode number:

PASSCODE: 473411

Once entered you will be able to view and listen to the meeting. At the appropriate time for public comment the moderator of the meeting will allow you to provide comment at the meeting.

The meeting will also be viewable live on our town website www.tiverton.ri.gov

<https://www.youtube.com/user/TivertonVideos>

In addition, the public may send written comments via email to publiccomment@tiverton.ri.gov or by regular mail to the Town Clerk at 343 Highland Road, Tiverton, RI 02878 or place in the grey drop box located outside Town Hall by 12:00 noon on Monday, May 11, 2020.

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.

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

1. CALL TO ORDER

2. PLEDGE OF ALLEGIENCE TO THE FLAG

3. ROLL CALL

| | | |
|------------------------------|-------------------------------------|-----------------|
| President Patricia M. Hilton | Vice President Denise M. deMedeiros | Joseph C. Perry |
| Nancy L. Driggs | Stephen T. Clarke | Donna J. Cook |
| John G. Edwards, V | | |

4. CONSENT AGENDA

Note 3: All items listed within the Consent Agenda are to be considered routine by 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. April 27, 2020 – Regular Meeting

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

1. Tiverton Recreation and Beach Commission – (1)

C. Acknowledge Receipt of Reports

1. Police and Fire Department overtime reports – April 2020
2. Department Monthly Reports – April 2020
3. Susan Gill, Planning Board Administrative Officer – Report of activities ending April 28, 2020

D. Acknowledge Receipt of Correspondence

1. North Smithfield School Committee - Resolution urging continued appropriation of State and Local revenues to support public education
2. Smithfield School Department - Resolution urging continued appropriation of State and Local revenues to support public education
3. Town of Barrington – Resolution Recognizing the Month of June as Barrington Pride Month

E. Approval of Tax Assessor Abatements

F. Town Administrator – Approval to Advertise Request for Proposals (RFP) for Professional Auditing Services and Agreed-Upon procedures services

G. Recreation Commission Chair Stu Gilfillen - Request approval to advertise and schedule public hearing to amend Fines and Fees Resolution regarding beach passes

5. PUBLIC HEARINGS (ADVERTISED)

- A. Approval of proposed amendment to the Resolution for Fines and Fees to Repeal the 3rd Party Billing Rescue Fees and replace language with “usual and customary rate for area as determined by Medicare or other insurance carrier” – Continued from March 23, 2020

- B. Approval of Proposed Amendment to Town Code of Ordinances – Flood Plain Management Program, Chapter 67-2- Applicability – Language update per RIEMA requirements - Revisions reflect changes defined by the Newport County Flood Insurance Study (FIS) report
- C. DPW Director, Richard Rogers – Approval to submit to RIDEM the ESS Group RIPDES Small MS4 Annual Report – 2019 – Continued from March 23, 2020
- D. Draft Design Study for the Mount Hope Bay Greenway Project and approval to submit comments on same and/or request project be re-included in the State Transportation Improvement Plan (STIP) – continued from March 23, 2020

6. BOARD OF LICENSING

- A. Charles Mulcahy, 65 Beech Avenue, Tiverton – Requesting Approval of Private Detective License Renewal

7. GENERAL BUSINESS

- A. Council Ratification of Tiverton Executive Order 2020-10 further continuing the date of the Tiverton Financial Town Referendum (FTR) from the third Saturday in June (June 20, 2020) to a date no later than sixty-five days after the FY 2021 State Budget is enacted into law
- B. Town Administrator – Review, discussion, and possible vote for extension of the Amnesty Trash Program allowing each residence to put out one non-town bag of trash for collection each week and encouraging people to continue to put out recycling with their trash

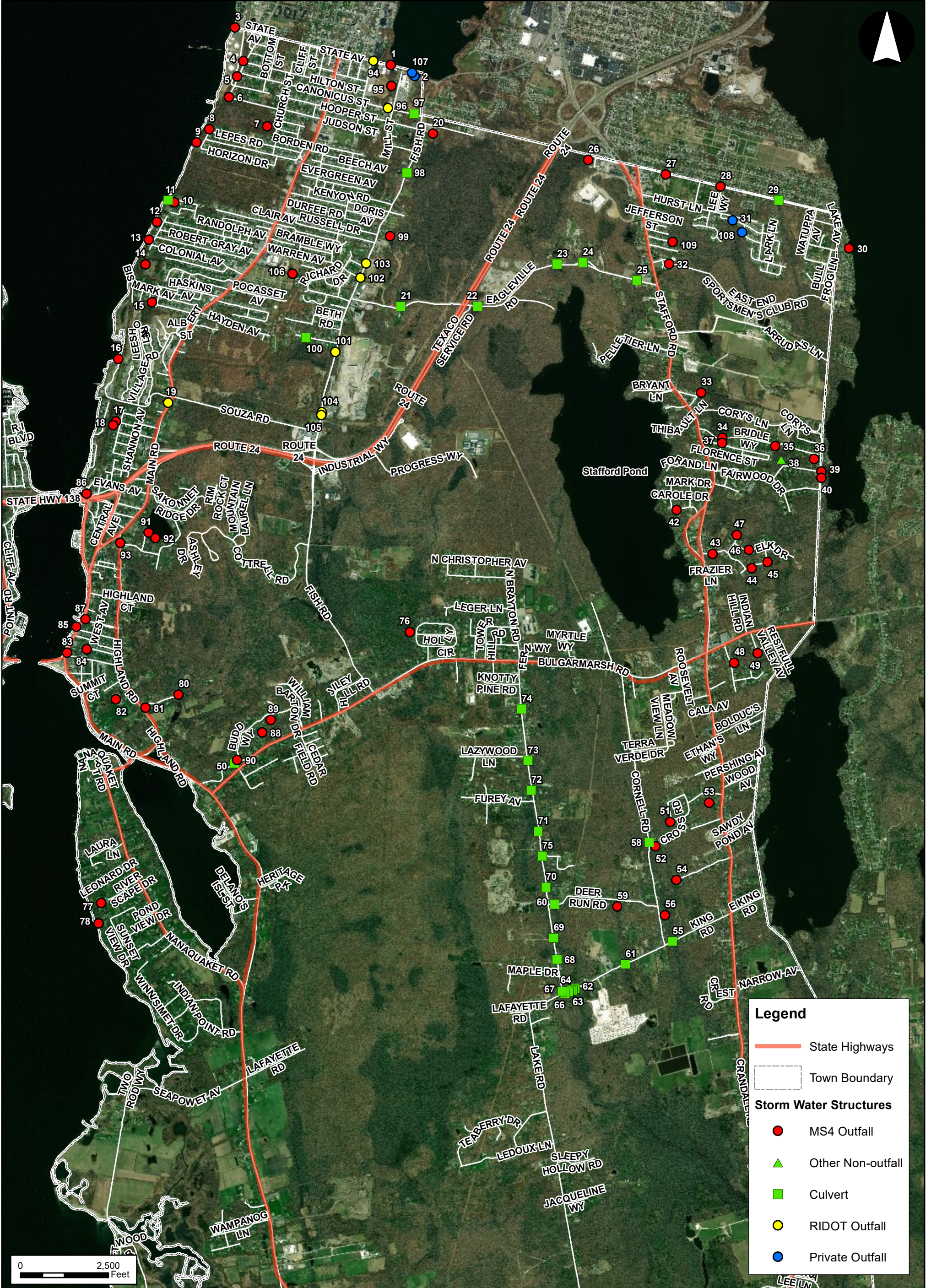
8. ANNOUNCEMENTS/COMMENTS/DISCUSSIONS

- A. Town Solicitor – Respond to 5/5/20 email from Councilor Driggs related to continuation of tax levy under state law to new fiscal year and Casino revenue
- B. Town Administrator Christopher Cotta - Update on COVID-19, operations, finances, Solicitor opinions
- C. Town Clerk - Update on Presidential Preference Primary, June 2, 2020

9. 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, Town of (RI) MS4 Annual Report, Reporting Year 2019
Tiverton, Massachusetts

1 inch = 2,500 feet

Source: 1) ESRI, World Imagery, 2018
2) Town of Tiverton, Outfalls, 2019

Outfalls

Figure 1