RIPDES SMALL MS4 ANNUAL REPORT
GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040013

REPORTING PERIOD:  ☑ YEAR 15
                    Jan 2018-Dec 2018

OPERATOR OF MS4

Name: Town of North Smithfield
Mailing Address: 1 Main Street, PO Box 248
City: Slattersville  State: RI  Zip: 02876  Phone: (401) 767-2200
Contact Person: Thomas Kravitz  Title: Town Planner
Email: tkkravitz@nsmithfieldri.org

Legal status (circle one): PRI - Private  PUB - Public  BPP - Public/Private  STA - State  FED - Federal
Other (please specify):

OWNER OF MS4 (if different from OPERATOR)

Name:
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  Thomas J. Kravitz
Print Title  North Smithfield Town Planner
Signature  [Signature]  Date 3-14-19
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: Thomas J. Kravitz, Town Planner
Phone: 401-767-2200, ext. 312 Email: tkravitz@nsmithfieldri.org

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.

The Town distributes printed information regarding lawn care, composting, recycling and litter control through the Town’s e-newsletter, website and pamphlet racks in the various Municipal and Public Library buildings. In addition, the Town’s annual Clean & Green Day was held on April 28, 2018; an event in which 200 to 400 volunteer’s cleanup about 50% of the Town’s roadways. Additional information is distributed at the sign-in table. This program assists in decreasing litter and debris in the Town’s roadways and ultimately the associated stormwater outfalls. The brochures that are distributed at the event are an effective method to provide information to homeowners on activities that mitigate stormwater pollution from private properties.

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.

The public education program uses printed media to share information. It also uses the Town’s Comprehensive Plan process to encourage public involvement. The Town has partnered with the URI NEMO stormwater program, ASRI, the Conservation Commission, National Grid, the Blackstone Heritage Corridor, National Park Service and other groups interested in protection watersheds as a general theme or specific project.

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):

<table>
<thead>
<tr>
<th>Topic</th>
<th>Target Pollutant(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐ Construction Sites</td>
<td></td>
</tr>
<tr>
<td>☒ Pesticide and Fertilizer Application</td>
<td>Phosphorus, other chemicals</td>
</tr>
<tr>
<td>☐ General Stormwater Management Information</td>
<td></td>
</tr>
<tr>
<td>☐ Pet Waste Management</td>
<td></td>
</tr>
<tr>
<td>☐ Household Hazardous Waste Disposal</td>
<td></td>
</tr>
<tr>
<td>☒ Recycling</td>
<td>Trash, litter, yard waste</td>
</tr>
<tr>
<td>☐ Illicit Discharge Detection and Elimination</td>
<td></td>
</tr>
<tr>
<td>☒ Riparian Corridor Protection/Restoration</td>
<td>Awareness of Woonasquatucket watershed</td>
</tr>
<tr>
<td>☐ Infrastructure Maintenance</td>
<td></td>
</tr>
<tr>
<td>☒ Trash Management</td>
<td>Improving recycling rate</td>
</tr>
<tr>
<td>☒ Smart Growth</td>
<td>Re-zoning for better infill</td>
</tr>
<tr>
<td>☐ Vehicle Washing</td>
<td></td>
</tr>
<tr>
<td>☐ Storm Drain Marking</td>
<td></td>
</tr>
<tr>
<td>☐ Water Conservation</td>
<td></td>
</tr>
<tr>
<td>☒ Green Infrastructure/Better Site Design/LID</td>
<td>Pre-review of project plans</td>
</tr>
<tr>
<td>☐ Wetland Protection</td>
<td></td>
</tr>
<tr>
<td>☒ Other: Comprehensive Plan chapter activities</td>
<td></td>
</tr>
<tr>
<td>☐ None</td>
<td></td>
</tr>
</tbody>
</table>
Specific audiences targeted during this reporting period:

☐ Public Employees  ☐ Contractors
☒ Residential  ☒ Developers
☐ Businesses  ☐ General Public
☐ Restaurants  ☐ Industries
☐ Other:  ☐ 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:

Stormwater Roundtable hosted by the Middletown Public Works Department, August 2018

Attending name of staff and title: Jeff Allard, Foreman, Department of Public Works
Attending name of staff and title: Scott Hawes, Department of Public Works
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: Thomas J. Kravitz, Town Planner  
Phone: 401-767-2200, ext. 312  Email: tkkravitz@nsmithfieldri.org

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 Annual Clean & Green Day, described in Section IV.B.1.b.1, typically brings out 200-400 volunteers. The sign-in table contains brochures for environmental organizations and information pamphlets. A sample brochure is included in Appendix A. As previously noted, the event typically results in about 50% of the Town’s roads being completely cleaned of litter and debris, ultimately decreasing litter and debris in the Town’s stormwater outfalls.

In addition, the Town maintains an active Recycling Program and Curbside Yard Waste Program. The programs provide residents of N. Smithfield with instructions on how to properly recycle various items through the Town’s services. In addition, a Recycling Newsletter is available through the Town’s website. Information on these programs is available from the following website: http://www.nsmithfieldri.org/trash-recycling-department.

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  ☐ Storm Drain Markings
☐ Comments on SWMPP Received  ☐ Stakeholder Meetings
☐ Community Hotlines  ☐ Volunteer Monitoring
☐ Community Meetings  ☐ Plantings
☒ Other (describe) – Town’s E-Newsletter

Additional Measurable Goals and Activities

SECTION II.  Public Notice Information  (Parts IV.G.2.h and IV.G.2.i)

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:

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: ________________________________________________

Was public meeting held?  ☐ YES  ☐ NO  Date:

Where:

Summary of public comments received:

Planned responses or changes to the program:
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: Raymond J. Pendergast, Jr. – Director of Public Works
Phone: 401-767-2200, ext. 341 Email: rpendergast@nsmithfieldri.org

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? Town’s Consultant, Joe Casali Engineering, Inc. assists with IDDE tasks

IV.B.3.b.1: Number of Outfalls Mapped within regulated area: 92
Percent Complete: 100%
If 100% Complete, Provide Date of Completion: July 2017

Outfall map and Excel inventory table were prepared as part of the “2003 MS4 RIPDES Compliance Documentation” binders previously forwarded to RIDEM on February 20, 2017. The map and inventory spreadsheet have not been modified since this date.

IV.B.3.b.2 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.

Town Department of Public Works employees have field located outfalls throughout the Town using a handheld GPS. The data was post-processed to provide sub-meter accuracy on the actual locations. Physical tagging of outfalls was not performed.

IV.B.3.b.3 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.

Town Department of Public Works employees have field located all 1,230 catch basin and manhole structures throughout the Town, using a handheld GPS. The data was post-processed to provide sub-meter accuracy on the actual locations. The purpose of this task was to create an inventory of all stormwater structures throughout the Town for purposes of logging and tracking cleaning of stormwater structures for future years and for incorporation into future MS4 annual reports. A series of maps were prepared to document location of all drainage structures throughout Town. In addition, the Town purchased a Hino/Stetco clamshell catch-basin cleaner with dump body to fast-track cleaning of structures throughout the Town.

IV.B.3.b.4 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.

Date of Adoption: October 3, 2016
If the Ordinance was amended in 2018, please indicate why changes were necessary.
### II.licit Discharge Detection and Elimination cont’d

<table>
<thead>
<tr>
<th>IV.B.3.b.5, ii, iii, iv, &amp; v</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>In general, any complaints received by Town employees are conveyed to the Director of Public Works for further investigation. The Director of Public Works, or his designee, administers, and enforces the provisions of the Illicit Discharge Storm Water Ordinance. Eight (8) potential illicit discharges were identified from the wet weather survey performed during 2017. Further assessment and evaluation of these potential illicit discharges are ongoing as of the date of this report.</td>
<td></td>
</tr>
</tbody>
</table>

| IV.B.3.b.5.vi | 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. |
| Date of Completion: Spring & Fall 2018 |

| IV.B.3.b.5.vii | 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 must include a report of all outfalls and indicate the presence or absence of dry weather discharges. |
| Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: 1,047 Spring / 1,055 Fall |
| Percent Complete: 85% Spring / 86% Fall |
| Date of Completion: Spring & Fall 2018 |

| 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. |
| There are no known physical connections to RIDOT’s MS4 system within the Town of North Smithfield. As a result, coordination with RIDOT is not necessary. In addition, there are no known physical connections to any other adjacent MS4 community. As a result, coordination with other MS4 communities is not necessary. |

| 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. |
| No specific actions taken in 2017. In general, RIDEM is notified of any discharges to a regulated wetland via compliance with the RI Freshwater Wetlands Act and any discharges from an OWTS system as part of the RI OWTS Rules and Regulations. Any potential new discharges as a result of development within the Town triggers a review by the Planning Board, which results in a review for wetland regulation compliance and requires an approved OWTS as necessary. This allows for coordination with RIDEM for potential illicit discharges. |
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.

As previously noted, the Annual Clean & Green Day, described in Section IV.B.1.b.1, typically brings out 200-400 volunteers. The sign-in table contains brochures for environmental organizations and information pamphlets which provide information of the hazards of illegal discharges and improper disposal of waste.

In addition, the Town maintains an active Recycling Program and Curbside Yard Waste Program. The programs provide residents of N. Smithfield with instructions on how to properly recycle various items through the Town’s services. In addition, a Recycling Newsletter is available through the Town’s website. Information on these programs is available from the following website: http://www.nsmithfieldri.org/trash-recycling-department.

Additional Measurable Goals and Activities

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

<table>
<thead>
<tr>
<th># of Illicit Discharges Identified in 2018: 8 (from 2017)</th>
<th># of Illicit Discharges Tracked in 2018: 8 (from 2017)</th>
</tr>
</thead>
<tbody>
<tr>
<td># of Illicit Discharges Eliminated in 2018: 0 (ongoing)</td>
<td># of Complaints Received: 0</td>
</tr>
<tr>
<td># of Complaints Investigated: 0</td>
<td># of Violations Issued: 0</td>
</tr>
<tr>
<td># of Violations Resolved: 0</td>
<td># of Unresolved Violations Referred to RIDEM: 0</td>
</tr>
<tr>
<td>Total # of Illicit Discharges Identified to Date (since 2003): 8</td>
<td>Total # of Illicit Discharges remaining unresolved at the end of 2018: 8 (ongoing)</td>
</tr>
</tbody>
</table>

Summary of Enforcement Actions: No enforcement actions have taken place as of the date of this report. The Town is currently working with a third-party consultant to investigate the eight (8) previously identified illicit discharges. In December 2018, the Town performed inspections on Outfalls 18, 61 and 70 – all of which previously produced potential instances of illicit discharges during wet season testing. The inspections turned up no evidence of potential illicit discharges at any of these three outfalls. Stormwater flowing from each outfall was tested for temperature, pH, total suspended solids, salinity, nitrates/nitrites and chlorine, and all outfalls were within acceptable parameters for each of these properties. Because there was no evidence of illicit discharges at the outfalls, no testing was performed on any upgradient manholes or catch basin structures. Additional dry season testing is scheduled for March 2019.

Extent to which the MS4 system has been mapped: All 92 outfalls, and 1,230 catch basins and manhole structures within the Town’s MS4 system have been mapped and located (to sub-meta accuracy) using a handheld GPS system.

Total # of Outfalls Identified and Mapped to date: 92 outfalls

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

<table>
<thead>
<tr>
<th>Interconnection:</th>
<th>Date Found:</th>
<th>Location:</th>
<th>Name of Connectee:</th>
<th>Originating Source:</th>
<th>Planned and Coordinated Efforts and Activities with Connectee:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>
**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:** Thomas J. Kravitz, Town Planner  
**Phone:** 401-767-2200 ex. 312  
**Email:** tkravitz@nsmithfieldri.org

| IV.B.4.b.1 | 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.  
**Date of Adoption:** March 19, 2012  
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.  
The March 19, 2012 adopted version of the Town’s Sediment and Erosion Control Ordinance incorporates the 2010 RISDISM. A copy of the ordinance was previously submitted to RIDEM for review and comment. Based on the RIDEM’s feedback, the Town is currently in the process of modifying the ordinance. |
| 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.  
**Receipt and consideration of information by the public is ongoing.** |
| 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.  
**Site inspections for construction activities are generally completed by the Building Department and/or the Town’s consultants. The Town reviews any proposed construction projects proposed within the Town. Any issue of non-compliance is handled on a case-by-case basis. Site inspections are ongoing.** |

Additional Measurable Goals and Activities
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 | 1 |
| # of Construction Reviews Completed | 1 |
| # of Permits/Authorizations Issued | 1 |

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.

The Planning Board reviewed multiple subdivision projects at the Master Plan and Preliminary Plan levels during 2018. In general, none of these projects appear to have an impact on the Town’s MS4 system. One Final Plan review was completed, and construction inspections are ongoing (a certificate of occupancy has not yet been issued).

Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department responsible for this task is the Department of Planning, ATTN: Thomas J. Kravitz. In general, the Town’s contract engineer and/or building/zoning official provide assistance with review services.

Identify the type and date of training this person(s)/parties has/have received to be considered “adequately trained”: In general, the Town relies on construction field reports, prepared by professional engineers, registered in the State of Rhode Island.

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 | 1 |
| # of Site Inspections | 2 |
| # of Violations Issued | 0 |
| # of Complaints Received | 0 |
| # of Unresolved Violations Referred to RIDEM | 0 |

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

No enforcement actions were served on Land Development Projects during 2018. One ongoing construction project did result in deficiencies identified by the Town, and the project’s civil engineer of record. The Town is requiring deficiencies to be correct prior to issuance of a certificate of occupancy.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department responsible for this task is the Department of Planning, ATTN: Thomas J. Kravitz. In general, the Town’s contract engineer and/or building/zoning official provide assistance with review services.

Identify the type and date of training this person(s)/parties has/have received to be considered “adequately trained”: In general, the Town relies on construction field reports, prepared by professional engineers, registered in the State of Rhode Island.
## 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:

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.)*

<table>
<thead>
<tr>
<th>IV.B.5.b.5</th>
<th>Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IV.B.5.b.5</strong></td>
<td><strong>Long-term BMP maintenance schedules are required with any plans submitted to the Town for approval.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV.B.5.b.6</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IV.B.5.b.6</strong></td>
<td><strong>No new major industries or associated industrial activity occurred within the Town in 2018. RIDEM will be notified of any new industries within the Town that may require a permit for stormwater discharges as necessary.</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV.B.5.b.9</th>
<th>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. <strong>Date of Adoption:</strong> June 5, 2017</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IV.B.5.b.9</strong></td>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IV.B.5.b.12</th>
<th>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&amp;M of the BMPs.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>IV.B.5.b.12</strong></td>
<td><strong>None taken in 2018. The Town is considering hiring an environmental science intern to complete the inventory of BMPs and use the GPS multi-tool to photo-document BMPs and establish coordinates.</strong></td>
</tr>
</tbody>
</table>

### Additional Measurable Goals and Activities
Source: [document text]

**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.

| # of Post-Construction Applications Received | 0 |
| # of Post-Construction Reviews Completed | 0 |
| # of Permits/Authorizations Issued | 0 |

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.

The Planning Board required detailed drainage reports with supporting calculations for all Land Development Projects, including long-term operations and maintenance schedules. These reports are subject to peer review at the Applicant’s expense. As previously noted, the Planning Board reviewed multiple subdivision projects at the Master Plan and Preliminary Plan levels during 2018; none of which will have impacts on the Town’s MS4 system. One Final Plan review was completed, and construction inspections are ongoing (a certificate of occupancy has not yet been issued).

Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department responsible for this task is the Department of Planning, ATTN: Thomas J. Kravitz. In general, the Town’s contract engineer and/or building/zoning official provide assistance with review services.

Identify the type and date of training this person(s)/parties has/have received to be considered “adequately trained”: In general, the Town relies on construction field reports, prepared by professional engineers, registered in the State of Rhode Island.

**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 Site Inspections for proper Installation of BMPs | 2 |
| # of Violations Issued | 0 |
| # of Construction Projects Completed | 0 |
| # of Complaints Received | 0 |
| # of Unresolved Violations Referred to RIDEM | 0 |

Summary of Enforcement Actions:

No enforcement actions were served on Land Development Projects during 2018. One ongoing construction project did result in deficiencies identified by the Town, and the project’s civil engineer of record. The Town is requiring deficiencies to be correct prior to issuance of a certificate of occupancy.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department responsible for this task is the Department of Planning, ATTN: Thomas J. Kravitz. In general, the Town’s contract engineer and/or building/zoning official provide inspection services.

Identify the type and date of training this person(s)/parties has/have received to be considered “adequately trained”: In general, the Town relies on construction field reports, prepared by professional engineers, registered in the State of Rhode Island.
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

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.

<table>
<thead>
<tr>
<th># of Site Inspections for proper O&amp;M of BMPs</th>
<th># of Complaints Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th># of Violations Issued</th>
<th># of Unresolved Violations Referred to RIDEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

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

The Town uses RI E-Permitting for issuance of building permits. The Town Planner & Building Official and Zoning Official will allocate available fields for tracking reporting and inspections associated with building permits. We expect to participate in a work group developing statewide tracking standards for BMP inspections, environmental restrictions and other information.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department responsible for this task is the Department of Planning, ATTN: Thomas J. Kravitz. In general, the Town’s contract engineer and/or building/zoning official provide inspection services.

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:

__________________________________________________________________________________________
__________________________________________________________________________________________

Person(s)/Department responsible for reviewing submissions for LID: The Department of Planning, ATTN: Thomas J. Kravitz

Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable: The Town of North Smithfield Planning Board.
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:

<table>
<thead>
<tr>
<th>Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements?</th>
<th>☒ YES ☐ NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>If YES, please indicate if the Operations and Maintenance Agreements include the following:</td>
<td></td>
</tr>
<tr>
<td>a. Party responsible for the long-term O&amp;M of permanent stormwater management BMPs</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>b. A description of the permanent stormwater BMPs that will be operated and maintained</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>c. The location of the permanent stormwater BMPs that will be operated and maintained</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>e. A requirement that all inspections and maintenance activities are documented</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>f. Annual submission of inspection/maintenance certification/documentation to the MS4</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>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</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>h. Steps available for addressing a failure to maintain the stormwater controls and BMPs</td>
<td>☒ YES ☐ NO</td>
</tr>
</tbody>
</table>

Please elaborate, if appropriate:

<table>
<thead>
<tr>
<th>Does your municipality/MS4 keep an inventory of privately-owned BMPs?</th>
<th>☐ YES ☒ NO</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>a. Agreements and arrangements to ensure O&amp;M of BMPs?</th>
<th>☒ YES ☐ NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>b. Inspections?</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>c. Maintenance and schedules?</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>d. Complaints?</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>e. Non-Compliance?</td>
<td>☒ YES ☐ NO</td>
</tr>
<tr>
<td>f. Enforcement actions?</td>
<td>☒ YES ☐ NO</td>
</tr>
</tbody>
</table>

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:

*The Town uses an iPad with MS4 software to track inspections and maintenance activities.*

**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:

<table>
<thead>
<tr>
<th>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
<tr>
<td>(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.)</td>
</tr>
</tbody>
</table>

**Responsible Party Contact Name & Title:** Raymond J. Pendergast, Jr. – Director of Public Works  
**Phone:** 401-767-2200, ext. 341  
**Email:** rpendergast@nsmithfieldri.org

**IV.B.6.b.1.i** 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.

- **Do you have an inventory of MS4-owned/operated BMPs?** ☑ YES  
  ☐ NO

  **Total # of MS4-owned/operated BMPs** (does not include CBs or MHs): Unknown.

*Identification and inventory of MS4-owned/operated BMPs is ongoing.*

**IV.B.6.b.1.ii** 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.

- **# of MS4-owned/operated BMPs inspected in 2018:** 0
- **# of MS4-owned/operated BMPs maintained/cleaned in 2018:** 3
- **# of MS4-owned/operated BMPs repaired in 2018:** 0

  **Does your municipality/MS4 have a system for tracking:**
  - a. Inspection schedules of MS4-owned BMPs? ☑ YES  
    ☐ NO
  - b. Maintenance/cleaning schedules of MS4-owned BMPs? ☑ YES  
    ☐ NO
  - c. Repairs, corrective actions needed? ☑ YES  
    ☐ NO
  - d. Complaints? ☑ YES  
    ☐ NO

*Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance?* ☑ YES  
☐ NO

*Identification and inventory of MS4-owned/operated BMPs is ongoing. Detention ponds were cleaned at the following locations; Doreen Court (January 2018), Hanton Rd and Pheasant Run (June) and Jennifer Lane (May).*
### IV.B.6.b.1.iii
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.

**Total # of CBs within regulated area (including SRPW and TMDL areas):** 1,230

<table>
<thead>
<tr>
<th># of CBs inspected in 2018:</th>
<th>1,047 (spring) / 1,055 (fall)</th>
<th>% of Total inspected:</th>
<th>85% (spring) / 86% (fall)</th>
</tr>
</thead>
<tbody>
<tr>
<td># of CBs cleaned in 2018:</td>
<td>116 (spring) / 98 (fall)</td>
<td>% of Total cleaned:</td>
<td>9% (spring) / 8% (fall)</td>
</tr>
</tbody>
</table>

Quantity of sand/debris collected by cleaning of catch basins: **Not tracked**

Location used for the disposal of debris: RI State Landfill, Johnston, RI

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? ☒ YES ☐ NO

*Two rounds of catch basin inspections were completed in 2018; one in the spring and another in the fall. Cleaning of structures was completed as necessary based on the results of the inspections. Town drainage structures are repaired and rehabilitated on an as-needed basis.*

### IV.B.6.b.1.iv
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.

The DPW uses berming where appropriate. In general, this is not considered to be a significant issue within the Town.

### IV.B.6.b.1.v
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.

The Town has documented outfalls with defective conditions. Corrections of defective conditions is ongoing.

### IV.B.6.b.1.vi
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.

**Total roadway miles within regulated area (including SRPW and TMDL areas):** 66.5 miles

<table>
<thead>
<tr>
<th>Roadway miles that were swept in 2018:</th>
<th>66.5 miles</th>
<th>% of Total swept:</th>
<th>100%</th>
</tr>
</thead>
</table>

Type of sweeper used: ☒ Rotary brush street sweeper ☐ Vacuum street sweeper

Quantity of sand/debris collected by sweeping of streets and roads: **Approximately 475 tons.**

Location used for the disposal of debris: RI State Landfill, Johnston, RI

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads? ☒ YES ☐ NO

*Road sweeping tracked via work order tracking system.*
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.

Some catch basins within Town have functioning oil/water separators. Future inspections will identify deficiencies not previously documented and repairs will be made as needed. In addition, the Town’s Post Construction Ordinance will require routine maintenance and repairs for structural BMPs in accordance with the RISDISM or the Rhode Island Soil Erosion and Sediment Control Handbook.

IV.B.6.b.1.viii 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.

Do you have a system for tracking actions to remove and dispose of waste? ☐ YES ☒ NO

Any and all waste removed from the Town’s MS4 is disposed of at the RI State Landfill. Presently, there is no system in place to track volumes, however the Town will utilize a work order system moving forward to track volumes of waste removed.

IV.B.6.b.4 and IV.B.6.b.5 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.

The Town is in the process of developing an MS4 Maintenance Manual with designated schedules and staff assignments.

IV.B.6.b.6 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.

How many stormwater management trainings have been provided to municipal employees during this reporting period? One (1) training session.

What was the date of the last training? August 2018

How many municipal employees have been trained in this reporting period? Two (2) employees.

What percent of municipal employees in relevant positions and departments received stormwater management training? Unknown.

Have municipal employees that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges? Ongoing, see below.

Municipal employees responsible for inspecting and/or cleaning catch basins have been shadowing the Town’s third-party engineering consultant during illicit discharge inspections.
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.

The Town is in the process of developing an MS4 Maintenance Manual with designated schedules and staff assignments.

Additional Measurable Goals and Activities

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

<table>
<thead>
<tr>
<th>BMP ID:</th>
<th>Location:</th>
<th>Name of BMP Owner/Operator:</th>
<th>Description of BMP:</th>
<th>Frequency of Inspection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Outfall ID:</th>
<th>Location:</th>
<th>Description of Problem:</th>
<th>Description of Remediation Taken, include dates:</th>
<th>Receiving Water Body Name/Description:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### 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 is investigating relocating/renovating/restoring a Public Safety building and a Town Hall. Both would receive additional BMPs as part of LEED certification.

### 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).

---
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:** Thomas J. Kravitz, Town Planner
**Phone:** 401-767-2200 ex. 312  **Email:** tkravitz@nsmithfieldri.org

**LIST OF IMPAIRED WATERS:** Branch River, Tarkiln Brook, Crookfall Brook

<table>
<thead>
<tr>
<th>Impaired Water Body:</th>
<th>Pollutants Causing Impairments:</th>
<th>Has TMDL been completed?</th>
<th>Has MS4 been notified of TMDL requirements?</th>
<th>Has MS4 developed a Scope of Work or TMDL Implementation Plan?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Branch River (RI0001002R-01B)</td>
<td>Biodiversity &amp; metals (copper and lead)</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
</tr>
<tr>
<td>Tarkiln Brook (RI0001002R-13B)</td>
<td>Enterococci</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
</tr>
<tr>
<td>Crookfall Brook (RI0001004R-01)</td>
<td>Enterococci</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
<td>☐ YES ☒ NO</td>
</tr>
</tbody>
</table>

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.)

*The TMDL does not require the Town to prepare a TMDL Implementation Plan (IP) since the watershed areas tributary to the six waterbody segments contain less than 10% impervious area. The Town will continue to implement stormwater initiatives under the MS4 General Permit.*

**Pollutant of Concern:** NA

**Strategy:**

**Target Audience:**

Has the MS4 installed stormwater BMPs to address impairments? ☐ YES ☒ NO

If yes, indicate the type of stormwater control, date installed, ownership, and who is responsible for maintenance:

<table>
<thead>
<tr>
<th>Type of Stormwater Control:</th>
<th>Date Installed:</th>
<th>Who owns it?</th>
<th>Who maintains it?</th>
</tr>
</thead>
<tbody>
<tr>
<td>NA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.): *No specific measures taken in 2018.*
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.

Crookfall Brook, Woonsocket Reservoir #3 and the Blackstone River are listed SRPWs for drinking water.

The Six Minimum Control Measures are as follows:

1. An ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law;
2. Requirements for construction site operators to implement appropriate erosion and sediment control best management practices;
3. Requirements for construction site operators to control construction wastes, such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality;
4. Procedures for site plan review which incorporate consideration of potential water quality impacts;
5. Procedures for receipt and consideration of information submitted by the public; and
6. Procedures for site inspection and enforcement of control measures.

The Town needs to develop a mechanism for receiving public input in Development Plan Review cases where public hearings are not required. The Town’s contract engineer in 2017 will address ways to improve the effectiveness of these control measures.