



**Town of Hebron, Connecticut**

**2017 Annual Report**

**General Permit for the Discharge of Stormwater  
from Small Municipal Separate Storm Sewer Systems**

**Permit Number GSM000101**

**MS4 General Permit**  
**Town of Hebron 2017 Annual Report**  
**Existing MS4 Permittee**  
**Permit Number GSM 000101**  
**January 1, 2017 - December 31, 2017**

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This report documents the Town of Hebron’s efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 01, 2017 to December 31, 2017.

**Part I: Summary of Minimum Control Measure Activities**

**1. Public Education and Outreach (Section 6 (a)(1) / page 19)**

**1.1 BMP Summary**

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
1-1 Implement Public Education and Outreach	To be Developed in early 2018	None  Before July 01, 2018 Clean Waters Starting in Your Home and Yard Fact Sheets prepared by a collaborative effort between the Connecticut Sea Grant Extension Program and the University of Connecticut Cooperative Extension System NEMO Program will be made available to the public on the town website at: <a href="http://hebronct.com/">http://hebronct.com/</a>	Improving	Andrew J. Tierney, Town Manager	July 01, 2018	Before July 01, 2018	

		1-1 (Cont.)  Before July 01, 2018 NEMO Program Fact Sheets will be made available to the public.  Before July 01, 2018 NEMO Technical Papers will be made available to land use commission members.					
1-2 Address Public Education and Outreach for Pollutants of Concern*	To Be Developed in 2018	None		Andrew J. Tierney, Town Manager	July 1, 2018		
1-3 Salmon River Watershed Partnership (SRWP) Activities	Ongoing	The SRWP Coordinator, Pat Young, represents the Partnership on statewide issues relating to water quality and non-point source pollution and related information is shared with the 10 watershed towns.	Public Education and Outreach	Pat Young, SRWP Coordinator		Anually	

**1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.**

The Salmon River Watershed Partnership (SRWP) was formed in 2007 and has been conducting public education and outreach activities since then. It is anticipated that public education and outreach activities will continue to be conducted in 2018.

**1.3 Details of activities implemented to educate the community on stormwater**

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
SRWP Annual Newsletter	100s	Watershed resource protection and water quality preservation	Not Applicable	

## 2. Public Involvement/Participation (Section 6(a)(2) / page 21)

### 2.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
2-1 Comply with public notice requirements for the Stormwater Management Plan	Completed	A hard copy of the Draft 2017 Stormwater Management Plan (SMP) was made available to the public for review and comment on the town website at: <a href="http://hebronct.com/">http://hebronct.com/</a>	Complied with requirements	Town Manager/ Andrew J. Tierney, Administrative Officer	April 03, 2017	The 2017 SMP was available to the public on April 20, 2017.	No public comments were received by the Office of the First Selectwoman
2-2 Comply with public notice requirements for Annual Reports	Will Be Completed	The Draft 2017 MS4 Annual Report will be made available for public review and comment on the town website at: <a href="http://hebronct.com/">http://hebronct.com/</a>	Will comply with Requirements  The 2017 MS4 Annual Report will be made available to the public for review and comment.	Town Manager/ Andrew J. Tierney, Administrative Officer	Feb 15, 2018	February 22, 2018	
2-3 Gay City State Park Biofilter Project	Completed	The biofilter and vegetated buffer areas were designed and constructed to restore vegetated buffer areas as a biofilter and aid in deterring Canada geese and filtering direct stormwater runoff to the waterbody. The project was a partnership between UConn Master Gardener and CT DEEP Parks.	Public education and an improvement in water quality.	CT DEEP Parks and UConn Master Gardeners	Not Applicable	Ongoing	

2-4 Town Planners Workshop	Completed	Workshop with town land use staff to review upcoming large projects to incorporate stormwater quality measures	Improvement in water quality.	SRWP	Not Applicable	May 2017	
2-5 Water Quality Monitoring	Continuing	3 College student interns, 2 community volunteers and town land use members participate in water temperature readings on the Upper Jeremy Brook and Raymond Brook stations.	Public education and an improvement in water quality.	Pat Young, SRWP Coordinator	Not Applicable	Ongoing	
2-6 Education Program	Continuing	Pond Life and Water Quality. Presentation and field netting, identification and discussion on impacts of water quality on pond life.	Public education and an improvement in water quality.	Pat Young, SRWP Coordinator	Not Applicable	Ongoing	90 RHAM Middle School Students, Teachers and Parents  15 Marlborough Boy Scouts
2-7 SRWP Outreach	Continuing	Website and Facebook Outreach	Summary of watershed monitoring efforts	Pat Young, SRWP Coordinator	Not Applicable	Ongoing	90 RHAM Middle School Students, Teachers and Parents  15 Marlborough Boy Scouts

**2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.**

The Salmon River Watershed Partnership was formed in 2007 and has been conducting public outreach and participation activities which will continue in 2018.

**2.3 Public Involvement/Participation reporting metrics**

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	03/28/2017	Town Website
Availability of Annual Report announced to public	Yes	02/26/2018	Town Website

### 3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

#### 3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In Progress	A written IDDE program using the IDDE program template available from the CT DEEP is being developed.	Develop written plan of IDDE program	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2018	Anticipate completing by the deadline of July 01, 2018.	The Department of Public Works will be the listed contact.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	In Progress	MS4 stormwater outfall mapping was conducted in 2007. The stormwater outfall mapping was compiled on a ESRI GIS layer. The MS4 stormwater outfall mapping will be updated to include impaired waters as contained in the State of Connecticut, Department of Energy and Environmental Protection 2016 Integrated Water Quality Report if applicable. The stormwater outfalls in the impaired waters will be identified.	Development of an ESRI GIS map layer with MS4 stormwater outfalls.	Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2019	Anticipate completing by the deadline of July 01, 2019.	
3-3 Implement citizen reporting program	In Progress	A program to allow the general public to report suspected illicit discharges is in the process of being set up.	Under Development	Department of Public Works/ Kevin J. Kelly, Director	July 01, 2017	Anticipate completing by July 01, 2018.	The Department of Public Works will be the listed contact.
3-4 Establish legal authority to prohibit illicit discharges	In Progress	An Illicit Discharge Detection and Elimination Ordinance and Citation Hearing	Completed	Town Manager	July 01, 2018	May 03, 2007	

		Procedure was enacted at a Town Meeting on May 03, 2007.					
3-5 Develop record keeping system for IDDE tracking	To Be Developed	None		Department of Public Works/ Kevin J. Kelly, Director	July 01, 2018		
3-6 Address IDDE in areas with pollutants of concern	To Be Developed	None		Andrew J. Tierney, Town Manager and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2018		

**3.2 Describe any IDDE activities planned for the next year, if applicable.**

The written IDDE Program will be posted on the town website and a link listed in each Annual Report. The town will update the written IDDE program as needed throughout the permit term.

The Department of Public Works will maintain the master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

**3.3 List of citizen reports of suspected illicit discharges received during this reporting period.**

Date of Report	Location / suspected source	Response taken

**3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table. The Town of Hebron has no SSOs**

Location (Lat long/ street crossing /address and receiving water)	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged	Known or suspected cause / Responsible party	Corrective measures planned and completed (include dates)	Sampling data (if applicable)

**3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.**

Not Applicable in 2017

**3.6 Provide a summary of actions taken to address septic failures using the table below.**

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
Steve Knauf, R.S., Chief Sanitarian of the Chatham Health District reported no subsurface sewage disposal hydraulic failures were a source of illicit discharges to town stormwater management facilities in 2017.	None required	Not Applicable

**3.7 IDDE reporting metrics**

Metrics	
Estimated or actual number of MS4 outfalls	293+
Estimated or actual number of interconnections	To Be Determined
Outfall mapping complete	95%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	40%

Outfall assessment and priority ranking	0%
Dry weather screening of all High and Low priority outfalls complete	0%
Catchment investigations complete	0%
Estimated percentage of MS4 catchment area investigated	95%

**3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).**

The Department of Public Works will be provided with a copy of the publication entitled *Illicit Discharge Detection and Elimination Manual, A Handbook for Municipalities*, Published January 2003 by the New England Interstate Water Pollution Control Commission.

The Department of Public Works will be provided with a copy of the publication entitled *Illicit Discharge Detection and Elimination, A Guidance Manual for Program Development and Technical Assessments, and Technical Appendices* Published October 2004 by the Center for Watershed Protection and Robert Pitt of the University of Alabama.

## 4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

### 4.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 General Permit	To be Initiated in 2018	Not Applicable	Not Applicable	Planning and Development Department/ Michael K. O'Leary, AICP, Town Planner	July 01, 2019		
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Ongoing	Nathan L. Jacobson & Associates, Inc., Town Engineer, prepares land use review letters for most applications for the Inland Wetlands Commission, Planning Commission and Zoning Commission.	Interdepartmental Coordination	Planning and Development Department/ Michael K. O'Leary, AICP, Town Planner	July 01, 2017	Ongoing	
4-3 Review site plans for stormwater quality concerns	Ongoing	Nathan L. Jacobson & Associates, Inc., Town Engineer, encourages the use of LID BMPs as contained in the 2004 Connecticut Stormwater Quality Manual.	Compliance	Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Ongoing	
4-4 Conduct site inspections	Ongoing	The town conducts construction site inspections for proper implementation and maintenance of soil erosion and sediment control measures.	Compliance with Approved Plans	Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Ongoing	
4-5 Implement procedure to allow public comment on site development	Ongoing	The land use application process allows for public comment on land use applications which are submitted to the Inland Wetlands Agency and	Compliance	Planning and Development Department/ Michael K. O'Leary, AICP, Town Planner	July 01, 2017	Ongoing	

		the Planning & Zoning Commission during the Public Hearing Process when applicable.					
4-6 Implement procedure to notify developers about the CT DEEP Construction Stormwater General Permit	Ongoing	Since the inception of the MS4 program Nathan L. Jacobson & Associates, Inc., Town Engineer, has made developer's engineers aware of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities in engineering review letters which are typically prepared as part of the land use application process.	Awareness of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities	Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2017	Ongoing	

**4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.**

## 5. Stormwater Management (Section 6(a)(5) / page 27)

### 5.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Under Development	The land use regulations will be revised to incorporate the requirements contained in Minimum Control Measure No. 4 - Construction Site Runoff Control and Minimum Control Measure No. 5 - Post-Construction Runoff Control.	The requirements contained in Minimum Control Measure No. 4 - Construction Site Runoff Control and Minimum Control Measure No. 5 - Post-Construction Runoff Control will be forwarded to the Town Planner.	Planning and Development Department/ Michael K. O'Leary, AICP, Town Planner	July 01, 2021		
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Continuing			Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2019		
5-3 Identify retention and detention ponds in priority areas		Retention Ponds, Detention Ponds and Hydrodynamic Separators will be inventoried. A GIS Map Layer will be created after the inventory. Part of the inventory process will be facility operation and maintenance requirements.		Department of Public Works/ Kevin J. Kelly, Director and Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2019		

5-4 Implement long-term maintenance plan for stormwater basins and treatment structures		After the Retention Ponds, Detention Ponds and Hydrodynamic Separators have been inventoried a long term Operation and Maintenance Plan will be implemented.		Department of Public Works/ Kevin J. Kelly, Director	July 01, 2019		
5-5 DCIA mapping	Starting	Begin the process of DCIA Mapping from base mapping prepared by UConn CLEAR.	The DCIA to MS4 stormwater outfalls discharging to waters identified as impaired in the 2016 Integrated Water Quality Report and in watersheds with a DCIA of greater than 11 percent will start in 2018.	Town Manager/ Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2020		
5-6 Address post-construction issues in areas with pollutants of concern			Stormwater outfalls discharging to waters identified as impaired in the 2016 Integrated Water Quality Report and in watersheds with a DCIA of greater than 11 percent will be subject to enhanced water quality treatment.	Town Manager/ Nathan L. Jacobson & Associates, Inc., Town Engineer	Not specified		

**5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.**

**5.3 Post-Construction Stormwater Management reporting metrics**

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	Acreage to be determined in 2018
DCIA disconnected (redevelopment plus retrofits)	0 acres this year / 0 acres since 2012
Retrofits completed	0
DCIA disconnected	0% this year / 0% total since 2012
Estimated cost of retrofits	\$0
Detention or retention ponds identified	0 this year / 0 total

**5.4 Briefly describe the method to be used to determine baseline DCIA.**

The DCIA Mapping will be conducted on accordance with the methodologies presented in the October 25, 2017 UConn CLEAR Webinar entitled *CT MS4 Mapping Details, Clarifications and Tools* utilizing DCIA base mapping prepared by UConn CLEAR.

Impaired waters were determined from the report entitled *2016 Integrated Water Quality Report*, dated April 2017, prepared by the State of Connecticut Department of Energy and Environmental Protection.

## 6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

### 6.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
6-1 Develop/implement formal employee training program		See 6.3 Below		Department of Public Works/ Kevin J. Kelly, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2017	July 01, 2017	
6-2 Implement MS4 property and operations maintenance	Ongoing		Continuing	Department of Public Works/ Kevin J. Kelly, Director	July 01, 2018	July 01, 2017	
6-3 Implement coordination with interconnected MS4s	Ongoing	The Town of Hebron continued to coordinate MS4 responsibilities with the Towns of Bolton, Andover, Columbia, Lebanon, Colchester, Marlborough and Glastonbury as well as Conn DOT.	Continuing	Department of Public Works/ Kevin J. Kelly, Director	July 01, 2017	July 01, 2017	
6-4 Develop/implement program to control other sources of pollutants to the MS4	To be Developed			Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2017		
6-5 Evaluate additional measures for discharges to impaired waters*	Not Applicable			Town Engineer/ Thomas H. Fenton, P.E., Nathan L. Jacobson & Associates, Inc.	July 01, 2017		

6-6 Track projects that disconnect DCIA	To be Developed			Department of Public Works/ Kevin J. Kelly, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	Jul 1, 2017		
6-7 Implement infrastructure repair/rehab program	To be Developed			Department of Public Works/ Kevin J. Kelly, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2021		
6-8 Develop/implement plan to identify/prioritize retrofit projects	To be Developed			Department of Public Works/ Kevin J. Kelly, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2020		
6-9 Implement retrofit projects to disconnect 2% of DCIA	To be Developed			Department of Public Works/ Kevin J. Kelly, Director	July 01, 2022		
6-10 Develop/implement street sweeping program	Ongoing	The Town of Hebron currently implements a road sweeping program whereby all town roads are swept at one time per year.		Department of Public Works/ Kevin J. Kelly, Director	July 01, 2017		
6-11 Develop/implement catch basin cleaning program	Ongoing	The Town of Hebron currently implements a catch basin cleaning program whereby all catch basins are cleaned every year		Department of Public Works/ Kevin J. Kelly, Director	July 01, 2020		

6-12 Develop/implement snow management practices		See 6.3 Below		Department of Public Works/ Kevin J. Kelly, Director	July 01, 2018		

**6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.**

**6.3 Pollution Prevention/ Good Housekeeping reporting metrics**

Metrics	
Employee training provided for key staff	<p>DPW Employees are encouraged to attend CT Technology Transfer Center training programs.</p> <p>Rob Schadtler completed the Road Master Program which included training on Planning and Managing Local Road Snow and Ice Control Activities And Dillon Fournier completed the Public Works Academy which included training on Winter Operations and safe Snow Plowing</p>
Street sweeping	
Lane miles swept	154.46

Volume (or mass) of material collected	2017 Undetermined Will be Measured in 2018
<b>Catch basin cleaning</b>	
Total catch basins in priority areas	To be Determined
Total catch basins in MS4	1,573
Catch basins inspected	1,573
Catch basins cleaned	1,573
Volume (or mass) of material removed from all catch basins	300-400 C.Y.
Volume removed from catch basins to impaired waters (if known)	Not Applicable
<b>Snow management</b>	
Type(s) of deicing material used	Deicing Mix:  Majority of Town NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton  Amston Lake 4 Parts Sand to 1 Part NaCl Salt treated with Ice B'Gone at the rate of 6-8 gallons per ton
Total amount of each deicing material applied	1,400 Tons NaCl 50 C.Y. Sand
Type(s) of deicing equipment used	Eleven Large Snow Plows/Spreaders and two small Snow Plows/Spreaders. Four of the eleven spreaders are ground speed controlled and set at an estimated

	application rate of 250-300 pounds per lane mile. The manually controlled spreaders are also calibrated to an application rate of 250-300 pounds per lane mile.
Lane-miles treated	154.46
Snow disposal location	
Staff training provided on application methods & equipment	Yes
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	0 %
Reduction in turf area (since start of permit)	0 acres
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$0

#### 6.4 Catch Basin Cleaning Program

**Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [Complete this section for the 2017 Annual Report only]**

There are 1,573 catch basins in the Town of Hebron. All of the catch basins, a hydrodynamic separator and sedimentation tanks were cleaned in 2017. Currently no optimization methods are required.

## 6.5 Retrofit program

**Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

Storm Drainage Retrofit prioritization will be given to stormwater outfalls that are known to result in soil erosion and sedimentation. Prioritization will be given to the outfalls within the impaired water drainage basins with particular emphasis placed on stormwater outfalls which are located on fine grained glacial till soils. The retrofit program will be prioritized based on setback distance from watercourse and/or waterbodies.

**Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

Based on information contained in the Factsheet: *Town of Hebron Water Quality and Stormwater Summary*, prepared by the CT DEEP, 839.55 acres of the town has an impervious area exceeding 11% which is approximately 7.16% of the town. 364.47 acres have an impervious cover of ranging from 12% to 25%, 362.17 acres have an impervious cover ranging from 26% to 50%, 84.29 acres have an impervious cover ranging from 51% to 75% and 28.62 acres have an impervious cover ranging from 76% to 100%.

The DCIA for the town will be computed using methods contained in the paper entitled *Estimating Change in Impervious Area (IA) and Directly Connected Impervious Area (DCIA) for Massachusetts Small MS4 Permit*.

Land use files will be reviewed to determine disconnection of DCIA since July 01, 2012 for utilization in reaching the CT DEEP goal of 2% disconnection of DCIA by June 30, 2022.

**Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. [Provide information if available in 2017 report. Section to be completed for the 2019 Annual Report.]**

**Part II: Impaired waters investigation and monitoring [This section required beginning with 2018 Annual Report]**

**1. Impaired waters investigation and monitoring program**

**1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution.** This data is available on the MS4 map viewer: .

Nitrogen/ Phosphorus       Bacteria       Mercury       Other Pollutant of Concern

**1.2 Describe program status.**

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

**2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)**

**2.1 Screening data collected under 2017 permit**

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data.

Outfall ID	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?

**2.2 Credit for screening data collected under 2004 permit**

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results	Name of Laboratory (if used)	Follow-up required?

### 3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to address impairment

### 4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 01, 2020.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)



## 2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Outfall / Interconnection ID	Sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of concern

## 3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

### 3.1 System Vulnerability Factor Summary

For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below.

Outfall ID	Receiving Water	System Vulnerability Factors

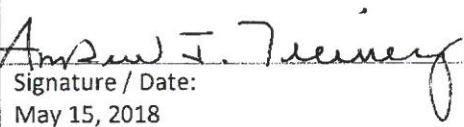

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;



**Part IV: Certification**

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer	Document Prepared by
Print Name: Andrew J. Tierney, Town Manager	Print Name: Wade M. Thomas
 Signature / Date: May 15, 2018	 Signature / Date: May 15, 2018