



Town of Portland, Connecticut

2017 Annual Report

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

Permit Number 000005

MS4 General Permit
Town of Portland 2017 Annual Report
 Existing MS4 Permittee
 Permit Number GSM 000005
 January 1, 2017 - December 31, 2017

This report documents the Town of Portland'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	Available to the General Public	<p>The following was posted on the Department of Public Works webpage at http://www.portlandct.org/Departments/PublicWorks.aspx</p> <p>2017 MS4 Stormwater Mangement Plan</p> <p>Preventing Stormwater Runoff</p> <p>Reduce Runoff.org</p> <p>CT NEMO Program</p> <p>Portland Recycles</p>	Improving	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2018	Before July 01, 2018	

1-2 Address Public Education and Outreach for Pollutants of Concern*	Available to the General Public	A public informational post entitled <i>Get Caught Holding the Bag, Please Pick Up After Your Dog</i> was posted on the Department of Public Works webpage at http://www.portlandct.org/Departments/PublicWorks.aspx	Improving	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2018		
1-3 Implement Additional Public Education and Outreach Resources	To Be Implemented in 2018	<p>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: http://www.portlandct.org/ 1-1 (Cont.)</p> <p>Before July 01, 2018 NEMO Program Fact Sheets will be made available to the general public.</p> <p>Before July 01, 2018 NEMO Technical Papers will be made available to land use commission members.</p>	Improving	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2018		

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

Consideration will be given to including the Conservation Landscaping for Water Quality Fact Sheet in the Portland Water Department bills. The fact sheet is part of the 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.

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.

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: http://www.portlandct.org/	Complied with requirements	Board of Selectmen/ Susan S. Bransfield, First Selectwoman	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: http://www.portlandct.org/	Will comply with Requirements	Board of Selectmen/ Susan S. Bransfield, First Selectwoman	Feb 15, 2018	<i>February 28, 2018</i>	The 2017 MS4 Annual Report will be made available to the public for review and comment.

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

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	03/01/2018	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	Board of Selectmen/ Susan S. Bransfield, First Selectwoman 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	Completed MS4 stormwater outfall mapping was conducted during the first permit term. 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.	Department of Public Works/ Richard D. Kelsey, Director 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	Under Development	Department of Public Works/ Richard D. Kelsey, Director and	July 01, 2017	Anticipate completing by July 01, 2018.	The Department of Public Works will be the primary contact with the Chatham Health District being the secondary contact.

		process of being developed		Nathan L. Jacobson & Associates, Inc., Town Engineer		
3-4 Establish legal authority to prohibit illicit discharges	In Progress	An Illicit Discharge Detection and Elimination Ordinance and Citation Hearing Procedure was enacted at a Board of Selectmen Meeting on December 20, 2017.	Completed	Board of Selectmen/ Susan S. Bransfield, First Selectwoman	July 01, 2018	<i>December 20, 2017</i>
3-5 Develop record keeping system for IDDE tracking	To Be Developed	None A reported Illicit Discharge Record Keeping System will be developed using a Microsoft Excel spreadsheet.	To Be Completed	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2018	
3-6 Address IDDE in areas with pollutants of concern	To Be Developed	The Connecticut River is listed as impaired due to E coli.	To Be Completed	Department of Public Works/ Richard D. Kelsey, Director 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
Don Mitchell, MPH, R.S., Director of Health of the Chatham Health District reported no illicit discharges in 2017.		

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 Portland 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)
Not 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
Don Mitchell, MPH, R.S., Director of Health 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	250±
Estimated or actual number of interconnections	To Be Determined
Outfall mapping complete	95%
Interconnection mapping complete	0%
System-wide mapping complete (detailed MS4 infrastructure)	50%
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	None The land use regulations will be revised to incorporate the requirements contained in Minimum Control Measure No. 4 - Construction Site Runoff Control.	Not Applicable	Department of Land Use/Ashley Majorowski, Land Use Administrator	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	Department of Land Use/Ashley Majorowski, Land Use Administrator	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/ 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/ 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 the Planning & Zoning Commission during the Public Hearing Process when applicable.	Compliance	Department of Land Use/Ashley Majorowski, Land Use Administrator	July 01, 2017	Ongoing	
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.	Compliance Awareness of the need to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities	Town Engineer/ 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	None The land use regulations will be revised to incorporate the requirements contained in Minimum Control Measure No. 5 - Post-Construction Runoff Control.	Working to Compliance	Department of Land Use/Ashley Majorowski, Land Use Administrator	July 01, 2021		
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Continuing	Continued to require LID Practices and stormwater quality measures to be incorporated into the site design during the engineering land use application process.	Met	Town Engineer/ Nathan L. Jacobson & Associates, Inc.	July 01, 2019		
5-3 Identify retention and detention ponds in priority areas	Completed	A Detention Pond inventory exists. A Stormwater Management GIS Map Layer may be developed.	Completed	Department of Public Works/ Richard D. Kelsey, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2019		
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Continuing	None The majority of the detention ponds are owned by HOA and have Long-Term Operation and Maintenance Plans in place. The O&M Plans have provisions for the town to provide	Met	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2019		

		maintenance if required.				
5-5 DCIA mapping	Starting	None Begin the process of DCIA Mapping from base mapping prepared by UConn CLEAR in 2018.	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.	Department of Public Works/ Richard D. Kelsey, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2020	
5-6 Address post-construction issues in areas with pollutants of concern	To Be Developed	None	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.	Department of Public Works/ Richard D. Kelsey, Director and 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	Ongoing	See 6.3 Below	Continuing	Department of Public Works/ Richard D. Kelsey, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2017	July 01, 2017	
6-2 Implement MS4 property and operations maintenance	Ongoing	None	Continuing	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2018	July 01, 2017	
6-3 Implement coordination with interconnected MS4s	Ongoing	The Town of Portland continued to coordinate MS4 responsibilities with the Towns of Glastonbury, Hebron, Colchester, and East Hampton as well as Conn DOT.	Continuing	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2017	July 01, 2017	
6-4 Develop/implement program to control other sources of pollutants to the MS4	To Be Developed	None	Developing	Town Engineer/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017		
6-5 Evaluate additional measures for discharges to impaired waters*	Not Applicable	None	Developing	Town Engineer/ Nathan L. Jacobson & Associates, Inc.	July 01, 2017		

6-6 Track projects that disconnect DCIA	To Be Developed	None	Developing	Department of Public Works/ Richard D. Kelsey, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	Jul 1, 2017		
6-7 Implement infrastructure repair/rehab program	To Be Developed	None	Developing	Department of Public Works/ Richard D. Kelsey, 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	None	Developing	Department of Public Works/ Richard D. Kelsey, 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	None	Developing	Department of Public Works/ Richard D. Kelsey, Director and Nathan L. Jacobson & Associates, Inc., Town Engineer	July 01, 2022		
6-10 Develop/implement street sweeping program	Ongoing	The Town of Portland currently implements a road sweeping program whereby all town roads are swept at one time per year.	Compliance	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2017		
6-11 Develop/implement catch basin cleaning program	Ongoing	The Town of Portland will implement a catch basin cleaning program in 2018.	Compliance	Department of Public Works/ Richard D. Kelsey, Director	July 01, 2020		

6-12 Develop/implement snow management practices	To be Developed	None	Compliance	Department of Public Works/ Richard D. Kelsey, 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	DPW Employees are encouraged to attend the CT Technology Transfer Center training programs. Dave Etheridge was a Road Master Program graduate in 2017 and Stephen Mather was a Road Master Program graduate in 2009. The program included a workshop for <i>Planning and Managing Local Road Snow and Ice Control Activities</i> .
Street sweeping	
Lane miles swept	128.22
Volume (or mass) of material collected	1,000 Cubic Yards
Catch basin cleaning	

Total catch basins in priority areas	To Be Determined
Total catch basins in MS4	1,600±
Catch basins inspected	1,600±
Catch basins cleaned	1,600±
Volume (or mass) of material removed from all catch basins	200 C.Y.
Volume removed from catch basins to impaired waters (if known)	Estimated at 7 C.Y.±
Snow management	
Type(s) of deicing material used	4 Parts Sand : 1 Part NaCl Salt
Total amount of each deicing material applied	4,000 Tons
Type(s) of deicing equipment used	Nine large snow plow/spreaders, five mason dump truck snow plow/spreaders and three pickup truck snow plow /spreaders. All spreaders are manually controlled and are adjusted based on storm conditions to meet performance standards.
Lane-miles treated	128.22
Snow disposal location	Generally Roadside. During infrequent snow storm events (>24") the snow is removed from the downtown area and stockpiled at the Transfer Station.
Staff training provided on application methods & equipment	See Above

	Spreaders are calibrated prior to the snow plowing season.
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	Not Applicable
Reduction in turf area (since start of permit)	Not Applicable
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 approximately 1,600 catch basins in the Town of Portland. Approximately 1,600 catch basins were cleaned in 2017. Catch basin cleaning will be conducted in 2018.

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 Portland Water Quality and Stormwater Summary*, prepared by the CT DEEP, 1689.56 acres of the town has an impervious area exceeding 12% which is approximately 10.65% of the town. 534.82 acres have an impervious cover of ranging from 12% to 25%, 681.42 acres have an

impervious cover ranging from 26% to 50%, 347.38 acres have an impervious cover ranging from 51% to 75% and 125.94 acres have an impervious cover ranging from 76% to 100%.

The DCIA for the town will be computed using methods presented in the UConn CLEAR Webinar entitled *CT MS4 Mapping Details, Clarifications and Tools* as well as information 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.]

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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.

Outfall I-1 was sampled on November 16, 2017. Based on the high count the outfall will be sampled in 2018.

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 cfu/100 ml	Name of Laboratory (if used)	Follow-up required?
I-1	11/16/2017	Bacteria - E. coli	9,680	EMLI	Sample in 2018

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 cfu/100 ml	Name of Laboratory (if used)	Follow-up required?
I-1	11/30/2005	Bacteria - E. coli	1,050	Environmental Monitoring	

				Laboratory, Inc. (EMLI)	
I-1	01/05/2007	Bacteria - E. coli	0	EMLI	
I-1	01/09/2008	Bacteria - E. coli	450	EMLI	
I-1	09/11/2009	Bacteria - E. coli	1,200	EMLI	
I-1	11/20/2009	Bacteria - E. coli	2,600	EMLI	
I-1	11/04/2010	Bacteria - E. coli	410	EMLI	
I-1	12/21/2012	Bacteria - E. coli	515	EMLI	
I-1	04/08/2014	Bacteria - E. coli	95	EMLI	
I-1	10/01/2014	Bacteria - E. coli	144	EMLI	
I-1	09/30/2015	Bacteria - E. coli	4,000	EMLI	
I-1	10/27/2016	Bacteria - E. coli	8,660	EMLI	

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: Susan S. Bransfield, First Selectwoman	Print Name: Wade M. Thomas
Signature / Date: March 31, 2018	Signature / Date: March 31, 2018

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