

MS4 General Permit
Town of Canton 2020 Annual Report
Existing MS4 Permittee
Permit Number GSM 000091
January 1, 2020 – December 31, 2020

Primary MS4 Contact: Robert J. Martin, Director of Public Works, 860-693-7863, rmartin@townofcantonct.org

This report documents Town of Canton efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2020 to December 31, 2020.

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 (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period (if needed, more space available after this table)	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
1-1 Implement public education and outreach	Ongoing	1. Provide materials on maintaining and improving water quality for the public on the Town's website, the Library and various Town Hall offices. 2. Collaborate with Farmington River Watershed Association and other local organizations to bring workshops on water resource protection to schools and the general public.	The Town to continue its existing education programs and increase Education in schools to increase awareness of water quality issues.	Director of Public Works	Ongoing	1. Implemented/Ongoing 2018 2. Ongoing with various events in 2020	-Measurable goals to provide information targeting pet waste, application of fertilizers, herbicides, and pesticides, and impacts of illicit discharges and improper disposal of waste into the MS4. Increase Education in schools to increase awareness of water

							quality issues.
1-2 Address education/ outreach for pollutants of concern	Ongoing	1. Public Works, Tax, Assessor, and other government entities should coordinate to distribute educational materials to commercial operations in town. 2. Exercises and Emergency Response Scenarios.	Education of business and industry should be a component of the Town's SMP. Education materials Should be targeted to owners and operators.	1. Director of Public Works / Chamber of Commerce 2. Fire Marshall	Ongoing	1. Implemented/Ongoing 2018 2. Ongoing 2020	-Construction companies and general contractors have the potential to significantly impact water quality through improper stormwater management. -Businesses identified by the Fire Marshal as using and storing chemicals will be included on all exercises and emergency response scenarios that pertain to public health and environmental health.
Implement a public Education program for General Government, land use officials and land use commissions.	Ongoing	1. NEMO workshop for Chief Administrative Officer and Town Board of Selectman and Land Use commissions and Agencies. 2. Annual review meetings with Land Use Commissions and Agencies.		Town Engineer / Town Planner	Ongoing	1. NEMO (Amanda Ryan) presentation to the Chief Administrative Officer and Town Board of Selectman on September 12, 2018. 2. Ongoing	Measurable goals are for the Town to continue its existing education programs both with the public and the Town Government. -As part of the public education process, the Town will target its local land use boards, as well as municipal departments (Planning, Public Works) and any interested organizations (Board of Selectman, land Trusts, and Chamber of Commerce) by hosting

presentations by
NEMO.

Extra space for describing above BMP activities, if needed:

BMP	

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

Earth Day - Tree planting ceremony at town park / school

Annual Spring Clean-up – Waterways, parks, athletic fields, roadways and schools

Continue to work with Farmington River Watershed Association and River Smart with similar events hosted in 2020 (see below).

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.
Brochures distributed at Planning desk.	Canton Town Hall - Developers, home owners, and 20 distributed. Canton.	Impact of impervious cover, septic systems & fertilizer use outreach.		Land Use - Ongoing
Earth Day Celebration	Canton – 0 people, staff only due to Covid-19.	Planted a flowering crab apple where a previous tree stood. Staff planted the tree.		DPW - Mills Pond Park – April 22, 2020
Annual Spring Clean-up Event	Due to Covid-19	Community event -		DPW – April 25, 2020

	residents on their own participated. Town provide PPE equipment.	Waterways, parks, athletic fields, roadways and schools.		
Virtual Film Festival	250 Attendees	Farmington River Watershed		Farmington River Watershed Association Summer
Virtual River Clean up	66 people	Watershed wide River clean-up.		Farmington River Watershed Association Fall

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

2.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
2-1 Final Stormwater Management Plan publicly available	Complete	Completed and posted on Town Website under new MS4 Permit. Submitted to DEEP new plan. Ongoing with public notice requirements for Stormwater Management Plan and Annual Reports.	Section 4(d) of the Permit requires that a draft copy of this SMP be made available for public review and comment 30 days before it is submitted to CTDEEP. The required annual reports that must be submitted to CTDEEP also must be made available for public comment 30 days before they are submitted.	Town Engineer / Town Planner	Annually by Feb 15	April 1, 2017	-The public involvement and participation element is intended to increase the chances of success of the SMP. The public participation element should attempt to attract a cross section of people in the community. For this control measure, the Permit requires the Town do the following: -Comply with state and local public notice and Freedom of Information requirements when Implementing a public involvement/participation program. When notice requirements are inconsistent, the notice provisions providing for the most notice and opportunity for public comment shall be followed. -Develop a public involvement/participation program that includes the public in developing, implementing, and reviewing the stormwater management program.
2-2 Comply with public notice requirements for Annual Reports	Ongoing	1.0 Publish a public notice on the Town website to inform the public of the SMP and annual reports, and allow for a 30-day comment period.		Town Engineer	1.0 Annually by Feb 15 2.0 Ongoing	April 1, 2017	-The Town published a public notice on its website http://www.townofcantonct.org/ The notice provides a contact name, phone number, address, and email to which the public can send comments. Additionally, this SMP and the annual

		2. Hold a public information meeting in coordination with the regularly scheduled Conservation Commission meeting.					<p>Reports will be publicly accessible on the web at http://www.townofcantonct.org/ and in the town hall and/or library. The public notice will allow for a 30-day comment period, at a minimum.</p> <p>-The Town will schedule a public hearing on this SMP as part of a regularly scheduled meeting of the Conservation Commission. At that meeting, the requirements of CTDEEP's General Permit will be Addressed, and the proposed plan will be presented.</p>
2-3 Establish stormwater working group.	Ongoing	Formed Town of Canton Stormwater Working Group (Public Works & Land Use Departments).	Coordinate SWMP implementation across depts. and commissions.	-Glenn Cusano, Project Administrator; -Robert Martin, Director of Public Works; -Neil Pade, Town Planner; -Heather Maroon, DPW Administrative Assistant	Optional	Established 6/21/2017 Ongoing	<p>-Working Group represents Town departments & commissions with a stake in stormwater management.</p>

Extra space for describing above BMP activities, if needed:

BMP	

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

Hold quarterly stormwater committee meetings to review SMP implementation progress.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan to public	Yes	2017	The Town has published a public notice on its website http://www.townofcantonct.org/
Availability of Annual Report announced to public	Yes	2017	The Town has published a public notice on its website http://www.townofcantonct.org/

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

3.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
3-1 Develop written IDDE program	Copmplete	No citizens reports filed during this period.	Develop written plan of IDDE program.	Chief Administrative Officer / Town Engineer / Town Planner	Jul 1, 2018	10/24/2018	-Written plan designed to provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges.

							<p>-Canton Board of Selectman adopted an Ordinance entitled "Illicit Discharge and Connection Stormwater Ordinance" for the purpose of providing for the health, safety, and general welfare of the citizens of Canton through the regulation of non-storm water discharges to the storm drainage system and amend the Citation Ordinance section 15-11 to include the Illicit Discharge and Connection Stormwater Ordinance as one of the ordinances subject to the citation hearing procedures.</p> <p>-The Town has published a public notice on its website https://www.ecode360.com/CA2778/laws/LF1053368.pdf</p>
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Ongoing	1. Develop mapping of all stormwater discharges from a pipe or conduit located within and owned or operated by the Town and all Interconnections with other MS4s (in GIS format). 2. Delineate catchments to all outfalls.	The Town generates a database and map all stormwater discharges from a pipe or conduit located within and owned or operated by the Town and all interconnections with other MS4s (in GIS format).	Town Engineer	Jul 1, 2019	Anticipate completing in 2021.	<p>-Anticipate completion in 2021, the mapping will be updated to include the following:</p> <ul style="list-style-type: none"> a. Type, material, size, location of conveyance, outfall, or channelized flow. b. Name, water body ID, and Surface Water Quality Classification of immediate surface water body or wetland to which the stormwater runoff discharges. c. If the outfall does not discharge directly to a named water body, the name and water body ID of the nearest named water body to which the outfall eventually discharges. d. The name of the watershed, including the subregional drainage basin number in which the discharge is located.
3-3 Implement citizen reporting program	Completed	Completed and posted on Town Website.	Town of Canton IDDE plan Section 13: NOTIFICATION OF SPILLS outlines reporting program.	Chief Administrative Officer / Town Engineer / Town Planner	Ongoing	10/24/2018	<p>-Written plan designed to provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges.</p> <p>-The Town has published a public notice on its website https://www.ecode360.com/CA2778/laws/LF1053368.pdf</p> <p>Citizens can aid in the observation by reporting dry weather discharges via the Q-Notify system on the Town's website or contact Land Use Department.</p>
3-4 Establish legal authority to prohibit illicit discharges	Completed	Completed and posted on Town Website.	Establish legal authority to prohibit illicit discharges.	Chief Administrative Officer / Town Engineer / Town Planner	Jul 1, 2018	10/24/2018	<p>-Written plan designed to provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges.</p> <p>-The Town has published a public notice on its website https://www.ecode360.com/CA2778/laws/LF1053368.pdf</p>

3-5 Develop record keeping system for IDDE tracking	Completed	Completed and posted on Town Website.	Develop record keeping system for IDDE tracking.	Chief Administrative Officer / Town Engineer / Town Planner	Jul 1, 2017	10/24/2018	-Written plan designed to provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges. -The Town has published a public notice on its website https://www.ecode360.com/CA2778/laws/LF1053368.pdf
3-6 Address IDDE in areas with pollutants of concern	Ongoing	Investigate catchments for suspected illicit discharges.	The Town will implement outfall screening and an illicit discharge detection protocol to identify and prioritize separate storm sewer catchments for suspected illicit discharges of pollutants.	Town Engineer	Not specified	Ongoing	-The catchment investigation procedure is a process by which MS4 catchments are evaluated, ranked, prioritized, and investigated. The procedure relies on the MS4 system mapping developed under ID2-2 of plan and includes the following: 1) A review of mapping and historic plans and records for the catchment. 2) A manhole inspection methodology. 3) Procedures to isolate and confirm sources of illicit discharges.
Consolidate IDDE tracking spreadsheets	Ongoing	Compile all the IDDE tracking requirements into one spreadsheet.	Make it easier to track all IDDE activities.	Town Engineer / Town Planner		Ongoing	-Written plan designed to provide the legal authority to prohibit and eliminate illicit discharges to the MS4, find the source of any illicit discharges, eliminate those illicit discharges, and ensure ongoing screening and tracking to prevent and/or eliminate future illicit discharges. -The Town has published a public notice on its website https://www.ecode360.com/CA2778/laws/LF1053368.pdf

Extra space for describing above BMP activities, if needed:

BMP	

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

The written program will be posted to the Town of Canton's webpage at <http://www.townofcantonct.org/> and a link listed in next year's Annual Report; will update the written IDDE program as needed throughout the permit term.

Continue to work towards developing a master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process.

Town is currently soliciting proposals for items in this section that need to be completed.

3.3 List of citizen reports of suspected illicit discharges received during this reporting period. Illicit discharges are any unpermitted discharge to waters of the state that do not consist entirely of stormwater or uncontaminated groundwater except those discharges identified in Section 3(a)(2) of the MS4 general permit when such non-stormwater discharges are not significant contributors of pollution to a discharge from an identified MS4.

Date of Report	Location / suspected source	Response taken
None reported		

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.

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)
No illicit discharges						

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

Develop procedures for receipt and consideration of information submitted by the public concerning proposed and ongoing land disturbance and development activities. Under the direction of the Town Planner the Landuse Department tracks this information.

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
None reported		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	#
Estimated or actual number of interconnections	#
Outfall mapping complete	(20%)
Interconnection mapping complete	(%)
System-wide mapping complete (detailed MS4 infrastructure)	(%)
Outfall assessment and priority ranking	(%)
Dry weather screening of all High and Low priority outfalls complete	#
Catchment investigations complete	#
Estimated percentage of MS4 catchment area investigated	%

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).

Annual training of Town employees tasked with completing these procedures is an important component of this BMP. Currently the Town is utilizing its Stormwater Management Plan and information from NEMO to train Town employees.

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

4.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Ongoing	<p>1. Require developers, construction site operators, or contractors to maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by CTDEEP within the Town.</p> <p>2. Require the implementation of additional measures to protect/improve water quality as deemed necessary by the Town.</p> <p>3. Require the Town to carry out all inspection, surveillance, and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs related to the management of</p>	Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit.	<p>1. Town Planner</p> <p>2. Town Planner</p> <p>3. Zoning Enforcement Officer / Wetlands Agents</p> <p>4. Town Planner</p> <p>5. Town Planner</p>	Jul 1, 2019	Ongoing	<p>-A review of land use regulations was incorporated into the Planning and Zoning Commissions' regulation rewrite that began in late fall 2005. A draft set of Zoning Regulations was issued in January 2013 for public review and comment. The updated Zoning Regulations were adopted on April 2, 2014, and become effective on May 12, 2014.</p> <p>-The revised regulations incorporated a detailed Stormwater Management Plan Requirement section (Section 7.13.D) to address all new developments and to ensure</p>

		<p>the Town's MS4. Inspections shall be conducted to inventory privately-owned retention ponds, detention ponds, and other stormwater basins that discharge to or receive drainage from the Town's MS4.</p> <p>4. Require the owner of site-seeking development approval from the Town to provide and comply with a long-term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately owned retention ponds, detention ponds, and other stormwater basins that discharge to or receive discharge from the Town's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner.</p> <p>5. Require the permittee to control through interagency or interjurisdictional agreements the contribution of pollutants between the Town's MS4 and MS4s owned or operated by others.</p>				<p>compliance with state and federal regulations. The regulations are intended to comply with the CTDEEP 2002 CT Erosion & Sedimentation Guidelines Manual.</p> <p>- Section 7.13.D.17.b notes that all discharges to the municipal stormwater system shall "conform to all the requirements contained in the applicable General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, the General Permit for the Discharge of Stormwater Associated with Industrial Activity, or, the General Permit for the Discharge of Stormwater Associated with Commercial Activity, as originally issued and reissued." This section also addresses required Natural Resources mapping.</p> <p>- Section 8.2.c.5 of</p>
--	--	--	--	--	--	--

							<p>the Zoning Regulations Performance Standards requires that "No refuse or other waste materials and no liquids shall be dumped on any lot or dumped or discharged into any river, stream, estuary, watercourse, storm drain, pond, lake, swamp, or marsh so as to constitute a source of water pollution." This standard effectively</p> <p>-A review of land use regulations was incorporated into the Planning and Zoning Commissions' regulation</p> <p>rewrite that began in late fall 2005. A draft set of Zoning Regulations was issued in January 2013 for public review and comment. The updated Zoning Regulations were adopted on April 2, 2014, and become effective on May 12, 2014.</p> <p>-The revised regulations incorporated a detailed</p>
--	--	--	--	--	--	--	--

--	--	--	--	--	--	--

Stormwater Management Plan Requirement section (Section 7.13.D) to address all new developments and to ensure compliance with state and federal regulations. The regulations are intended to comply with the CTDEEP 2002 CT Erosion & Sedimentation Guidelines Manual. -A review of land use regulations was incorporated into the Planning and Zoning Commissions' regulation rewrite that began in late fall 2005. A draft set of Zoning Regulations was issued in January 2013 for public review and comment. The updated Zoning Regulations were adopted on April 2, 2014, and become effective on May 12, 2014. -The revised regulations incorporated a detailed Stormwater Management Plan Requirement

							<p>section (Section 7.13.D) to address all new developments and to ensure compliance with state and federal regulations. The regulations are intended to comply with the CTDEEP 2002 CT Erosion & Sedimentation Guidelines Manual.</p> <p>- Section 7.13.D.17.b notes that all discharges to the municipal stormwater system shall "conform to all the requirements contained in the applicable General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, the General Permit for the Discharge of Stormwater Associated with Industrial Activity, or, the General Permit for the Discharge of Stormwater Associated with Commercial Activity, as originally issued and reissued." This</p>
--	--	--	--	--	--	--	--

							<p>section also addresses required Natural Resources mapping.</p> <p>- Section 8.2.c.5 of the Zoning Regulations Performance Standards requires that "No refuse or other waste materials and no liquids shall be dumped on any lot or dumped or discharged into any river, stream, estuary, watercourse, storm drain, pond, lake, swamp, or marsh so as to constitute a source of water pollution." This standard effectively</p> <p>-A review of land use regulations was incorporated into the Planning and Zoning Commissions' regulation rewrite that began in late fall 2005. A draft set of Zoning Regulations was issued in January 2013 for public review and comment. The updated Zoning Regulations were adopted on April 2, 2014, and become effective on May</p>
--	--	--	--	--	--	--	--

							<p>12, 2014.</p> <ul style="list-style-type: none">-The revised regulations incorporated a detailed Stormwater Management Plan Requirement section (Section 7.13.D) to address all new developments and to ensure compliance with state and federal regulations. The regulations are intended to comply with the CTDEEP 2002 CT Erosion & Sedimentation Guidelines Manual.- Section 7.13.D.17.b notes that all discharges to the municipal stormwater system shall "conform to all the requirements contained in the applicable General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities, the General Permit for the Discharge of Stormwater Associated with Industrial Activity, or, the General
--	--	--	--	--	--	--	--

--	--	--	--	--	--	--

Permit for the Discharge of Stormwater Associated with Commercial Activity, as originally issued and reissued." This section also addresses required Natural Resources mapping.

- The Zoning Commission or its designated agent is responsible for the review of all construction-related inspections throughout the development process. In addition, the Town's "Q Notify-Citizen Service Request" program on the Town website provides citizens with the ability to report complaints, concerns, and service requests directly to Town staff. All complaints are logged, sorted by either the First Selectman or the Chief Administrative Officer, and are directed to the appropriate staff member. This system creates a

							log of all complaints and ensures that citizen notifications are answered within a set time line. It allows the Town to track and act on, as needed, information provided by the public relating to construction site maintenance in the Town. Access to the system is through a link on the home page.
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Ongoing	Working on developing and implementing a plan outlining how all municipal departments and boards with jurisdiction over the review, permitting, or approval of land disturbance and development projects within the MS4 will coordinate their functions with one another.	Develop/Implement plan for interdepartmental coordination in site plan review and approval.	Town Engineer	Ongoing	Ongoing	- The Town is required to develop and implement a plan outlining how all municipal or institutional departments and boards with jurisdiction over the review, permitting, or approval of land disturbance and development projects within the MS4 will coordinate their functions with one another.
4-3 Review site plans for stormwater quality concerns	Completed	Conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water	Review site plans for stormwater quality concerns.	ZEO / IWA / Town Engineer	Ongoing	June, 2018	- According to the Town Zoning Regulations Section 7.6.D., "inspections shall be made by the Commission or its designated agent during

		quality.					development to ensure that control measures and facilities are properly performed or installed and maintained."
4-4 Conduct site inspections	Complete	Conduct site inspections and enforcement to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures.	Conduct site inspections.	ZEO / IWA	Ongoing	June, 2018	- According to the Town Zoning Regulations Section 7.6.D., "inspections shall be made by the Commission or its designated agent during development to ensure that control measures and facilities are properly performed or installed and maintained."
4-5 Implement procedure to allow public comment on site development	Completed	Implemented a procedure for receipt and consideration of information submitted by the public concerning proposed and ongoing land disturbance and development activities.	Implement procedure to allow public comment on site development.	Town Planner	Ongoing	Completed	-The land use development review process provides for public involvement for site development proposals as allowed under Chapters 124, 126 and 440 of the Connecticut General Statutes. The Town Enforcement Officer also has a compliant form that allows any member of the public to submit a complaint to the Land Use Office staff that reviews site development

							for stormwater impacts.
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Ongoing	Working on implementing a procedure for notifying developments or contractors of their potential obligation to obtain authorization under CTDEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities if the project disturbs 1 or more acres of land and results in a point source discharge to the surface waters of the state directly or through the Town's MS4. Include a provision informing developers/contractors of their obligation to provide a copy of the Stormwater Pollution Control Plan to the Town upon request.	Implement procedure to notify developers about DEEP construction stormwater permit.	Town Planner / Town Engineer	Ongoing	Ongoing	<ul style="list-style-type: none"> - Prior to the submission of any local land use application, a pre-application meeting should be held with Town staff and the applicant's engineers. During this meeting, all applicants will be made aware that they may need a CTDEEP General Permit for Stormwater Discharge. Applicants should also be made aware of the Town's responsibilities under the MS4 General Permit and should ensure that they do not do anything contrary to the SMP. -Section 7.6.C. of the Zoning Regulations alerts applicants of requirements for a CTDEEP Stormwater Permit. -The Town will amend its land use applications to include a statement to contractors

--	--	--	--	--	--	--

notifying of the potential need for other project permits. The language should make clear that state and federal permitting is a separate process and that receipt of local permits is not contingent upon receipt of permits from other authorities. Sample language for this notation follows: "Applicants are advised that permits that are administered by other permitting agencies such as the Connecticut Department of Energy and Environmental Protection (DEEP) or the Army Corps of Engineers may be required for their project. Applicants are responsible for contacting these agencies to determine the appropriate permits for their project. Sites that disturb in excess of one acre of area must submit registration too

							<p>DEEP for a General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities."</p> <p>- According to Section 7.6.B., all development requiring a zoning permit, special permit, or site plan approval shall employ proper provisions to adequately control accelerated erosion and sedimentation and reduce the danger from stormwater runoff on the proposed site based on the best available technology in order to result in a development as follows:</p> <ul style="list-style-type: none"> a. Minimizes erosion and sedimentation during construction b. Is stabilized and protected from erosion when completed c. Does not cause off-site erosion and/or sedimentation <p>-A Soil Erosion and Sediment Control</p>
--	--	--	--	--	--	--	--

							<p>Plan shall be submitted for certification by the commission for any development activity that would result in a cumulative disturbed area of more than one-half acre.</p> <p>-Zoning – Standard Conditions of Approval, Section 2, Zoning Appendix, requires every approval letter to a developer to be notified of DEEP required approvals; Notifies developers of responsibility to maintain compliance with erosion and sedimentation control requirements; and, Notifies developer of requirement to operate and maintain stormwater.</p>
Additional measures for discharges to waters for which bacteria is a Stormwater Pollutant of Concern.	Ongoing	Conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality.	Develop measures for discharges to waters for which bacteria is a Stormwater Pollutant of Concern.	Town Engineer	Ongoing	Ongoing	<p>-Sediment and erosion from construction sites may increase the amount of suspended solids within stormwater runoff. Pathogens like E. coli may adhere to these particles and be carried along to the</p>

final discharge point. Thus, recommendations in the SMP relative to stormwater quality must be continually enforced to achieve TMDL values set by CTDEEP. Preventative measures such as proper sediment and erosion control are the best deterrent to sediment loading in downstream watercourses.

Extra space for describing above BMP activities, if needed:

BMP		

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

Develop measures for discharges to waters for which bacteria is a Stormwater Pollutant of Concern.

5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

5.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Ongoing	Establish ordinance, bylaw, regulation standard condition of approval, or other appropriate legal authority for Low Impact Development (LID) and runoff reduction site planning and development practices.	Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning.	Town Planner	Jul 1, 2021	Ongoing	<ul style="list-style-type: none"> - All site development in the Town must comply with the Town's Zoning Regulations (effective date: May 12, 2014). The Town's Zoning Regulations are enforceable by the Zoning Enforcement Officer (ZEO). The ZEO can issue cease and desist orders to any property owner or property tenant, and penalties can be levied in accordance with 9.8.D. - The Town maintains a regulatory buffer for wetlands and watercourse protection. The Inland Wetlands Commission reviews all activities within 100 feet of wetlands or watercourses as these are believed to have the potential to impact resources. Updated Zoning Regulations were adopted in April 2014 and include detailed requirements for

						<p>stormwater management and erosion control.</p> <p>- Section 3.4.F. of the Town's zoning regulations limits the amount of impervious coverage.</p> <p>-Section 7.13.C of Zoning requires the preservation of pre-development site hydrology and the submission of a stormwater management plan that shall employ and be consistent with sound engineering and site planning practices, with particular consideration of known LID BMPs and provides reference to six published stormwater manuals focusing on LID.</p>
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Under the review of Zoning Commission.	<p>1. For redevelopment of sites that are currently developed with DCIA of 40% or more, retain on-site half the water quality volume for the site.</p> <p>2. For new development and redevelopment of sites with less than 40% DCIA, retain the water quality volume for the site.</p>	Enforce LID/runoff reduction requirements for development and redevelopment projects.	Town Planner	Ongoing beginning Jul 1, 2019	<p>Under the review of Zoning Commission 3.20.19.</p> <p>-The adopted Zoning Regulations and current Subdivision Regulations incorporate provisions for narrow travel way widths, alternative cul-de-sac configurations, permeable pavers, and utilizing ditches for stormwater conveyance. Specifically, Section 7.2.7 of the Zoning</p>

Regulations allows for the permanent reduction of required parking; Section 7.2.8 allows for deferral or installation of parking; and Section 7.2.D.2 allows for the approval of (and encourages the use of) porous pavement, porous pavers, and other permeable hard services to meet any parking requirements. Section 3.1 of the Appendix allows for the use of grass/pavement block systems in the Albany Turnpike Lawton Road Gateway District to reduce stormwater runoff.

-The Town has a number of stormwater detention and retention basins throughout the Town. Maintenance responsibility for these structures falls to the Town. The Town will develop an inventory of existing detention and retention basins that must be maintained by Town

5-3 Identify retention and detention ponds in priority areas	Ongoing	Incorporate locations of detention/retention basins in GIS stormwater mapping.	Identify retention and detention ponds in priority areas.	Town Engineer / Director of Public Works	Jul 1, 2019	Ongoing

						<p>staff. The inventory will include the location of the basins, approximate size of the basins, approximate watershed area discharging to the basins, and the receiving water body. This information will be incorporated into the GIS database currently maintained for the Town's stormwater infrastructure.</p>
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Ongoing	Inspect stormwater basins.	Implement long-term maintenance plan for stormwater basins and treatment structures.	Town Engineer / Director of Public Works	Ongoing beginning Jul 1, 2019	<p>-The Town has a number of stormwater detention and retention basins throughout the Town. Maintenance responsibility for these structures falls to the Town. The Town will develop an inventory of existing detention and retention basins that must be maintained by Town staff. The inventory will include the location of the basins, approximate size of the basins, approximate watershed area discharging to the basins, and the receiving water</p>

--	--	--	--	--	--	--

body. This information will be incorporated into the GIS database currently maintained for the Town's stormwater infrastructure.

- Section 7.13 of the Zoning Regulations sets forth a detailed set of requirements for stormwater management. This section also requires the development and submission of an Operation, Maintenance, and Inspection Plan Agreement and Schedule for all Stormwater Facilities. The checklist provided in the Zoning Regulation Appendix incorporates requirements detailed in the 2004 Connecticut Stormwater Quality Manual.
- The Department of Public Works should develop an inventory of existing detention and retention basins. Ownership of these basins should be identified as either privately or Town owned. The Department of

							Public Works should perform inspections of Town-owned detention and retention basins and should implement an operations and maintenance (O&M) plan for ongoing maintenance.
5-5 DCIA mapping	Ongoing	Require developers to submit GPS coordinates/GIS mapping of all stormwater structures/basins.	Provide DCIA mapping.	Town Engineer / Director of Public Works / Town Planner	Jul 1, 2020	Ongoing	The Town will require developers to submit GPS coordinates or GIS mapping of all stormwater structures, basins, and outfall locations associated with subdivisions or site plans prior to the Town taking over any roads or stormwater structures. This information will be incorporated into the town wide GIS mapping system to ensure future maintenance and mapping of DCIAs.
5-6 Address post-construction issues in areas with pollutants of concern	Ongoing	As with construction stormwater management, the recommendations set forth in the Post construction Stormwater Management section of the plan should also be continued and enforced.	Address post-construction issues in areas with pollutants of concern.	Town Engineer / Director of Public Works / Town Planner	Not specified	Ongoing	- LID techniques and water quality measures such as basins, swales, and mechanical separators should continue to be encouraged and required where feasible in all developments. Sediment and

particles must be prohibited from entering the stormwater drainage system in order to decrease total suspended solids and the pathogens that attach to them.

Extra space for describing above BMP activities, if needed:

BMP	

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

Continue to look at private and public maintenance method options.

Town is currently soliciting proposals for items in this section that need to be completed.

5.3 Post-Construction Stormwater Management reporting metrics

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/post-construction.htm. Scroll down to the DCIA section.

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	acres

DCIA disconnected (redevelopment plus retrofits)	acres this year / acres total
Retrofit projects completed	#
DCIA disconnected	% this year / % total since 2012
Estimated cost of retrofits	\$
Detention or retention ponds identified	# this year /# total

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

Section 3.4.F. of the Town's zoning regulations limits the amount of impervious coverage. The section reads as follows:

1. Building coverage in the Residential (R) districts shall not exceed the following, except as may be otherwise provided in these Regulations: Table

3.4.F.1 – Building Coverage District Maximum Building Coverage

R-1 Fifteen percent (15%)

R-2 Fifteen percent (15%)

R-3 Ten percent (10%)

R-4 Five percent (5%)

2. Except as may be otherwise provided in these Regulations, impervious coverage (in the Residential [R] districts) shall not exceed the following:

Table 3.4.F.2 – Impervious Coverage Lot Area Maximum

Impervious coverage

Less than one (1) acre 50%

One (1) to two (2) acres 40%

Two (2) to four (4) acres 30%

More than four (4) acres 20%

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

6.1 BMP Summary

BMP	Status (Complete, Ongoing, In Progress, or Not started)	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date (include the start date for anything that is 'in progress')	Additional details
6-1 Develop/implement formal employee training program	Ongoing	Continue annual training of Town employees tasked with completing these procedures which is an important component of this BMP. Currently the Town is utilizing its Stormwater Management Plan and information from NEMO to train Town employees.	Utilize the proper Town staff in all aspects of the Stormwater Management Plan to comply with BMP.	Director of Public Works / Town Planner / Town Engineer / Fire Marshall	Ongoing	Ongoing	- The Town continues to train employees and contractors on the proper handling of waste materials and the hazards of improper handling. Fact sheets on the proper procedures for catch basin cleaning and disposal of catch basin sediments can be distributed to Highway Department employees. The Town should also have a Hazardous Communications Plan, which includes the previously developed fact sheets and standard operating procedures for employees.

							<ul style="list-style-type: none"> - The Town maintains Material Safety Data Sheets in each department. Additionally, each department head provides training for department workers on the safe handling of hazardous materials. Highway Department and Building Maintenance employees should be provided training by the Fire Marshal on the handling of hazardous materials and waste products. This training can be held periodically at the discretion of the Public Works Director.
6-2 Implement MS4 property and operations maintenance	Ongoing	1. Maintain and update O&M Manual. 2. Parks and open space 3. Pet waste management 4. Waterfowl management 5. Building and facilities 6. Vehicles and	Implement MS4 property and operations maintenance.	Director of Public Works	Ongoing beginning Jul 1, 2018	Ongoing	<ul style="list-style-type: none"> - The Public Works Department currently maintains an Operation and Maintenance Manual (2002) that identifies proper operation,

		<p>equipment</p> <p>7. Leaf management plan</p> <p>8. Walking Trail Management Plan</p>					<p>maintenance, and repair of municipal stormwater facilities.</p> <p>- The Public Works division is responsible for all outdoor maintenance at the Town's parks, school grounds and all other town-owned land.</p> <p>-The Highway Division maintains over 70 miles of roads, including maintenance and resurfacing, drainage repairs, signage, winter plowing, street sweeping, mowing, tree removal and trimming, and maintenance of department equipment.</p> <p>-The Parks Division of Public Works maintains over 100 acres of fields, parks, and ground; rails to trails, school grounds, Collinsville and North Canton Fire Stations and Police</p>
--	--	---	--	--	--	--	---

--	--	--	--	--	--	--

Department; and 19 athletic fields throughout the Town.

-The Transfer Station maintains municipal solid waste, single stream recycling, bulky waste, and all other recyclables.

- The Town has installed several dog waste stations in parks, along trails, and in public places where people often walk their dogs. These waste disposal stations are stocked with biodegradable plastic bags.

Town maintenance staff empties the full waste can with the regular trash pickup. The town also installed signage informing pet owners that it is their responsibility to clean up after their pets. These signs are posted in parks, playgrounds, and along trails.

- Waterfowl

--	--	--	--	--	--	--

populations within Town recreational areas may contribute to an increase in fecal material within water bodies. The Town will educate citizens about the feeding of waterfowl, specifically geese. Information brochures detailing the goals of geese reduction can be found on the Town website.

-Waste generated at municipal facilities should be properly disposed of to prevent introduction into the storm sewer system. Materials that may adversely impact stormwater quality should be stored inside a building or covered and protected from rainfall. The following practices are recommended

--	--	--	--	--	--	--

for facility management:

- Maintain site plumbing plans showing sanitary and storm sewer connections. Ensure wastewater is discharged only to the sanitary sewer and stormwater to the storm sewer.
- Label storm drain inlets to ensure they are used only for stormwater drainage.
- Inspect facilities for litter on a regular basis and clean up as needed.
- Common activities at vehicle maintenance facilities that generate waste include the cleaning of parts, changing of vehicle fluids, and replacement and repair of equipment. Other activities include vehicle fueling, washing, and storage. Significant loads of hydrocarbons, trace metals, and

							<p>other pollutants can be produced that affect the quality of stormwater runoff. Fluid spills and improper disposal of materials can result in pollutants, heavy metals, and toxic materials entering water supplies. Outdoor car washing has the potential to result in high loads of nutrients, metals, and hydrocarbons.</p> <p>-Currently, the Town's transfer station accepts leaves to be made into compost at a local farm.</p> <p>2018 a new Walking Trail Maintenance Plan was developed to maintain safety and properly maintain trails.</p> <p>-The Town is required to coordinate with operators of interconnected MS4s, such as</p>
6-3 Implement coordination with interconnected MS4s	Ongoing	Coordinate with CTDOT and neighboring municipalities.	Implement coordination with interconnected MS4s.	Town Engineer	Not specified	Ongoing	

							neighboring municipalities and the DOT, regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas, and stormwater control measures in the respective MS4s. By end of 2021, it is our goal the Town will notify the DOT and neighboring municipalities of interconnected MS4s along state roads within the Town's UA.
6-4 Develop/implement program to control other sources of pollutants to the MS4	Ongoing	Control contribution of pollution from non-MS4 properties.	Develop/implement program to control other sources of pollutants to the MS4.	Land Use Commission	Not specified	Ongoing	- The Town is required to develop and implement a program to control the contribution of pollution to its MS4 from commercial, industrial, municipal, institutional, or other facilities not otherwise authorized by permit. This occurs during the land use approval process

							and via enforcement of the regulations of the CTDEEP General Permits for industrial and commercial stormwater discharges. -Section 7.13. of Zoning requires the submission of a stormwater management plan that minimizes the amount of pollutants from all sources being transported by stormwater.
6-5 Evaluate additional measures for discharges to impaired waters*	Ongoing	Develop and implement a program to monitor urban runoff/stormwater runoff, illicit discharge, permit source, failing septic system, nuisance wildlife/farm livestock/pets.	Evaluate additional measures for discharges to impaired waters.	Director of Public Works / Town Engineer / Farmington River Watershed Association	Not specified	Ongoing	-The water quality of surface water bodies within the town of Canton is generally good; however, the State has identified impairments within Cherry Brook. These impairments cause the brook to not meet standards acceptable for its intended use. The Town will pursue funding for storm drainage improvements that need to be
6-6 Track projects that disconnect DCIA	Ongoing	Track DCIA disconnection.	Track projects that disconnect DCIA.	Director of Public Works / Town Engineer	Ongoing	Ongoing	

							completed.
6-7 Implement infrastructure repair/rehab program	Not Started	1. Fund and implement program. 2. Develop retrofit program. 3. Track DCIA disconnection.	Implement MS4 property and operations maintenance program.	Director of Public Works / Town Engineer	Jul 1, 2021	Ongoing	Annual street sweeping and sweeping after snowmelt have been normal operating practice for the Department of Public Works for over 20 years. All paved roadways are swept in the spring of the year, and catch basins and outlet are cleaned on an annual basis. -The Town will pursue funding for storm drainage improvements that need to be completed. This may include money from the Town General Fund or other sources such as Section 319 Grants. Section 319 of the Clean Water Act of 1987 established a program to control nonpoint sources of water pollution. In Connecticut, the program is

--	--	--	--	--	--	--

administered by CTDEEP. More information can be obtained from CTDEEP's Nonpoint Source Management Program at 860-424-3730.

- The Town should implement a stormwater outfall retrofit program, which will ensure the MS4 system functions properly. A retrofit and repair program should be in place by July 1, 2020, for the existing stormwater system. Catch basins outside the DCIA must be inspected within 5 years (July 1, 2022).
- The Town will pursue funding for storm drainage improvements that need to be completed. This may include money from the Town General Fund or other sources such as Section 319

							Grants. Section 319 of the Clean Water Act of 1987 established a program to control nonpoint sources of water pollution. In Connecticut, the program is administered by CTDEEP. More information can be obtained from CTDEEP's Nonpoint Source Management Program at 860-424-3730.
6-8 Develop/implement plan to identify/prioritize retrofit projects	Ongoing	Retrofit planning.	Develop/implement plan to identify/prioritize retrofit projects.	Director of Public Works	Jul 1, 2020	Ongoing	<p>- The Town evaluates catch basins and street sweeping priorities in other areas of the Town. Town staff inspect up to one-third of the catch basins each year using the same evaluation system that has been developed by the CRCCD. The Town then develops a database of the results of the Prioritization Program. The database is the basis of the Town's catch basin cleaning and street</p>

6-9 Implement retrofit projects to disconnect 2% of DCIA	Not Started	Retrofit schedule.	Implement retrofit projects to disconnect 2% of DCIA.	Director of Public Works	Jul 1, 2022	TBD

sweeping operations by noting high priority areas and documenting when catch basins are cleaned and streets are swept. The Town also inspects the stormwater outfalls that it owns that were not included in the CRCCD's program.

- Disconnect 1% per year of the Town's DCIA for the fourth and fifth years of the General Permit (2021-2022) for a total of 2% by year 2022. If the 2% goal cannot be met, the Town will include in the annual report a discussion of what percentage of DCIA will actually be disconnected and why the remainder of the 2% goal could not be achieved. The Town will also provide in the 2022 annual report for continuation of

6-10 Develop/implement street sweeping program							the retrofit program and continue the program with a goal to disconnect 1% of DCIA in each year thereafter.
	Completed	Sweeping Program	Annually sweep all Town owned parking lots and Streets.	Director of Public Works		Annually for the last 20+ years.	- Street sweeping is the first line of defense for managing sediments. Removal and proper disposal of sediment and debris from paved surfaces reduces the exposure of the materials to stormwater wash off and subsequent pollutant export to receiving waters. Street and parking lot sweeping generates materials such as sand, salt, leaves, broken glass, small pieces of metal, and other litter and debris. These sweepings may contain low levels of chemicals such as zinc, copper, lead, sodium, and compounds associated with asphalt and
					Ongoing beginning Jul 1, 2017		

						<p>motor oils.</p> <p>- The General Permit requires that the Town establish and implement procedure for town-owned or operated streets and parking lots. All streets and parking lots within the UA and outside the UA within the catchment areas of the MS4 with either DCIA of greater than 11% or which discharge to impaired waters shall be inspected, swept, and/or cleaned with a minimum frequency of once per year in the spring following the cessation of water maintenance activities. The Town currently sweeps its streets once per year.</p>
6-11 Develop/implement catch basin cleaning program	Complete	Catch basin cleaning program.	Develop/implement a catch basin cleaning program.	Director of Public Works	Ongoing beginning Jul 1, 2020	<p>Completed 2019</p> <p>- Catch basins and other stormwater structures should be cleaned at least annually. The cleaning should include</p>

							<p>both removal of sediment from the sump and removal of any trash or debris from the grate. Additional maintenance is recommended in the fall to remove trash, leaves, and other debris. Catch basin sediments tend to have higher levels of pollutant loadings than do street sweepings. Materials removed from catch basins tend to have higher amounts of fine grained material such as silt and clay, which adsorb more metals and other pollutants than the coarser sands typically found in street sweepings.</p> <p>- One requirement of Section 6(a)(6) of the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems as mandated by CTDEEP is to</p>
--	--	--	--	--	--	--	--

						<p>develop and implement a program to evaluate and, if necessary, clean catch basins and other stormwater structures that accumulate sediment at least once a year, including a provision to identify and prioritize those structures that may require cleaning more than once a year.</p> <p>- Typically, a catch basin should be cleaned if the depth of deposits is greater than or equal to one-third the depth from the basin to the invert of the lowest pipe or opening into or out of the basin. Areas with higher pollutant loadings or discharging to sensitive water bodies should be cleaned more frequently. More frequent cleaning of drainage systems may also be needed in</p>
--	--	--	--	--	--	--

						<p>areas with relatively flat grades or low flows since they may not achieve sufficient self-flushing. Deviations from these recommended frequencies should be based on field observations of actual sediment and debris accumulation rates, including identification and prioritizations of structures that may need more or less frequent cleaning.</p>
6-12 Develop/implement snow management practices	Completed	<p>1. Deicing material management. 2. Snow and ice control practices.</p>	Develop/implement snow management practices.	Director of Public Works	<p>Ongoing beginning Jul 1, 2018</p>	<p>July/ 2018</p> <p>- The Town continues to use a treated salt product instead of road sand to reduce ice on roads. Salt product is stored within a permanent structure at the Town Public Works Garage located at 50 River Road. The Town operates under proper placement and</p>

--	--	--	--	--	--	--

storage of deicing chemicals. It is important for preventing contamination of surface water runoff.

The Town implemented and refined standard operating practices regarding snow and ice control to minimize the discharge of sand, anti-icing, or deicing chemicals

-The Town follows established goals for the optimization of sand/chemical application rates through use of automated application equipment (zero-velocity spreaders), anti-icing and prewetting techniques, implementation of pavement management systems, and alternate chemicals.

-The Town Maintains

							records of application of sand, anti-icing, or deicing chemicals to document the reduction of chemicals to meet established goals. -The Town provides proper training for deicing application for municipal employees, institutional staff, and private contractors.

Extra space for describing above BMP activities, if needed:

BMP	

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	Yes / date: April 2018
Street sweeping	
Curb miles swept	144 miles
Volume (or mass) of material collected	20,300 pounds
Catch basin cleaning	
Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide)	None at this time
Total catch basins town- (or institution-) wide	#1,648
Catch basins inspected	#550
Catch basins cleaned	#0 due to Covid-19 staff levels
Volume (or mass) of material removed from all catch basins	0 pounds
Volume removed from catch basins to impaired waters (if known)	Un-known
Snow management	
Type(s) of deicing material used	DRVN Enterprise
Total amount of each deicing material applied	877 tons
Type(s) of deicing equipment used	Truck Spreaders
Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)	144 miles
Snow disposal location	Mills Pond Park – Parking Area
Staff training provided on application methods & equipment	Yes / dates: September 2019
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	None
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

Provide any updates or modifications to your catch basin cleaning program

Inspection of basins includes an estimate of the volume of sediment within each basin and its depth below the basin outlet structure and the condition of the inlet and outlet structures. The inspections will be used to prioritize maintenance activities.

2020 staff levels were adversely effected by covid-19 causing our basin cleaning to be postponed until 2021.

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.

The Town will implement a stormwater outfall retrofit program, which will ensure the MS4 system functions properly. Disconnect 1% per year of the Town's DCIA for the fourth and fifth years of the General Permit (2021-2022) for a total of 2% by year 2022.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

The Town will pursue funding for storm drainage improvements that need to be completed.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

The Town will also provide in the 2022 annual report for continuation of the retrofit program and continue the program with a goal to disconnect 1% of DCIA in each year thereafter.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

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: <http://s.uconn.edu/ctms4map>.

Nitrogen/ Phosphorus ☐

Bacteria ☐

Mercury ☐

Other Pollutant of Concern ☐

1.2 Describe program status. Not Started

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

Complete the table below to report data for any wet weather sampling completed for MS4 outfalls that discharge directly to a stormwater impaired waterbody during the reporting period. For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the yellow column of the Monitoring comparison chart and the Impaired waters monitoring flowchart.

Each Annual Report will add on to the previous year's data showing a cumulative list of sampling data. You may also attach an excel spreadsheet with the same data rather than copying it into this table.

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

*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	<ul style="list-style-type: none"> E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	<ul style="list-style-type: none"> Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

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

Provide the following information for outfalls exceeding the pollutant threshold.

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

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

Once outfall sampling 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 1, 2020.

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

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the blue column of the Monitoring comparison chart and the IDDE baseline monitoring flowchart.

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. You may also attach an excel spreadsheet with the same data rather than copying it into this table.

Outfall / Interconnection ID	Latitude / Longitude	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken

2.2 Wet weather sample and inspection data

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor. You may also attach an excel spreadsheet with the same data rather than copying it to this table.

Outfall / Interconnection ID	Latitude / Longitude	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)

For details on this requirement, visit www.nemo.uconn.edu/ms4/tasks/monitoring.htm. Refer to the green column of the Monitoring comparison chart and the IDDE catchment investigation flowchart.

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;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

3.2 Key junction manhole dry weather screening and sampling data

You may also attach an excel spreadsheet with the same data rather than copying it to this table.

Key Junction Manhole ID	Latitude / Longitude	Screening / Sample date	Visual/ olfactory evidence of illicit discharge	Ammonia	Chlorine	Surfactants
-------------------------------	-------------------------	----------------------------	---	---------	----------	-------------

3.3 Wet weather investigation outfall sampling data

You may also attach an excel spreadsheet with the same data rather than copying it to this table.

Outfall ID	Latitude / Longitude	Sample date	Ammonia	Chlorine	Surfactants
---------------	-------------------------	-------------	---------	----------	-------------

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

Discharge location	Source location	Discharge description	Method of discovery	Date of discovery	Date of elimination	Mitigation or enforcement action	Estimated volume of flow removed
-----------------------	-----------------	--------------------------	---------------------	----------------------	------------------------	-------------------------------------	-------------------------------------

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

Print name: Robert Bessel

Signature / Date:

 2/9/2021
Email: rbessel@townofcantonct.org

Document Prepared by

Print name: Robert Martin

Signature / Date:

 2/8/2021
Email: rmartin@townofcantonct.org