



Town of Simsbury 2020 Annual Report

MS4 General Permit

*Existing MS4 Permittee
Permit Number GSM 000050*

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January 1, 2020 – December 31, 2020

This report documents the Town of Simsbury's 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	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	Completed	<i>Update Town's website with links to resources related to stormwater topics. Videos can be found on the Town website.</i>	<i>Provide access to stormwater literature.</i>	<i>DPW/T. Roy</i>	<i>July 1, 2018</i>	<i>3/30/2017</i>	<i>ATC will provide response, guidance, and coordination in assisting the Town in implementing public education and outreach.</i>
1-2 Address education/ outreach for pollutants of concern*	Completed	<i>Pollutant: Bacteria Add pet waste management information/link to the Town website.</i>	<i>Educate and provide pet waste management to the public.</i>	<i>DPW/T. Roy</i>	<i>July 1, 2028</i>	<i>1/25/2021</i>	
Additional BMP: 1-3 Hazardous Waste Collection	Completed	<i>In partnership with Farmington, Canton, Granby, and Avon. Hazardous Waste Collection days are provided per year.</i>	<i>Educate and provide hazardous waste collections.</i>	<i>DPW/T. Roy</i>	<i>Ongoing</i>	<i>2019</i>	<i>Also extended public education program to schools.</i>

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

1. Continue Hazardous Waste collection days with the neighboring towns.
2. Update/add links to information websites and videos that relate to bacteria impairments.

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.
<i>RiverSmart Display at Burgers at the Bridge</i>	Fundraiser for the Old Drake Hill Flower Bridge	<i>Landscaping, runoff reduction, water/waste, etc.</i>	N/A	<i>Farmington River Watershed Association.</i>
“My Healthy Stream”-Handbook	<i>General Public</i>	<i>Water Cycle, stream health, urban watersheds, etc.</i>	<i>Direct discharge from impervious surfaces. Oil, herbicides, pesticides, etc.</i>	<i>Handbook provided by the Farmington River Association and made available by the Planning Department.</i>
Stream testing lesson/activity-7th Grade Science	<i>50+/- students</i>	<i>Trained students on the water cycle, stream habitats, environmental conditions that support biodiversity, water quality, stream health, water testing, etc. Testing covers turbidity, dissolved oxygen, pH, temperature, nitrates, and fecal coliform.</i>	N/A	<i>Henry James Middle School, 7th grade science class.</i>
Link to related stormwater websites (DEEP, NEMO, etc.)	N/A	<i>State regulations, stormwater, MS4, BMPs, etc.</i>	<i>Bacteria, etc.</i>	<i>DPW/Tom Roy- ATC will provide response, guidance, and coordination in assisting the Town in uploading link(s) to related stormwater websites.</i>

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	Complete	Public notice posted via Town Website	Provide notice and access to Annual Report	Engineering/J. Shea	April 3, 2017	March 30, 2017	
2-2 Comply with public notice requirements for Annual Reports	Complete	Public notice Posted via Town Website	Provide notice and access to Annual Report	DPW/T. Roy	July 1, 2017/ annually.	Feb. 15. 2021	Previous Annual Reports Submitted by February 15 th .
2-3 Hazardous Waste Collection	Ongoing	In Partnership with Farmington, Canton, Granby, and Avon for Hazardous Waste Collection days.	Provide hazardous waste collections	DPW/T. Roy	Feb. 15, 2018	Annually	

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

Due to concerns surrounding the COVID-19 pandemic, public outreach will be restricted to online activities only. The annual Hazardous Waste Collection, which is provided annually, will be completed in 2021.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes	March 30 2017	https://www.simsbury-ct.gov/sites/g/files/vyh1if1216/f/uploads/swmplan_simsbury-rev0.pdf
Availability of Annual Report announced to public	Yes	Feb. 15, 2021	TBD

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	Completed	Town completed a written IDDE program using the CT IDDE program template.	Develop written plan of IDDE program.	Engineering/ J. Shea	June 30, 2018	June 27, 2018	
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Completed	Town continues a QA/QC process of reviewing GIS system and editing as necessary.	All outfalls mapped.	Engineering/ J. Shea	June 30, 2019	Fall 2017	Mapping and data will be continually maintained as outfalls are tested/repared, etc.
3-3 Implement citizen reporting program	Completed	Maintained reporting via DPW phone and Town website.	Provide a reporting mechanism and log.	Public Works/Tom Roy	Not specified	Completed under previous permit.	Citizens may report illicit discharges as they would report other concerns to DPW.
3-4 Establish legal authority to prohibit illicit discharges	Completed	Town wrote and adopted a Stormwater Connection Ordinance	Adopt Ordinance	Engineering/ J. Shea	June 30, 2018	June 11, 2018	Five (5) members of the Town staff are designated as authorized enforcement officers.
3-5 Develop record keeping system for IDDE tracking	Ongoing	Town continues to maintain a list of reports that include IDDE.	Maintain list.	Public Works/T. Roy	June 30, 2018	Completed under previous permit.	Town staff have determined that the current system is sufficient due to limited number of illicit discharges reported.
3-6 Address IDDE in areas with pollutants of concern	In progress	Dry weather screening was conducted at 28 outfalls in 2020.	Wet weather testing and additional investigation as necessary.	DPW/T. Roy	Not Specified	Ongoing	ATC Group Services, LLC assists the Town with impaired outfalls sampling and inspections.

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

-Continue wet weather testing at outfalls discharging to impaired waters.
 -Continue follow-up dry weather screening/testing.
 -Respond to any illicit discharge complaints.

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

Date of Report	Location / suspected source	Response taken
On-going	Review DEEP Spill notifications for significant spills	Review type and size of location of spills for potential follow-up testing.

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)
3 Tunxis Road	8/28/2012	Unnamed Brook/Farmington River	Unknown	Broken forcemain	Repaired by Simsbury WPCA	
17 Firetown Road	4/05/2013	Hop Brook/Farmington River	<50 gallons	Private Lateral		
4 Middle Lane	4/27/2014	Stebbins Brook/Farmington River	<50 gallons	Private System	Line Cleaned by Simsbury WPCA	
3 Tunxis Road	6/19/2014	Unnamed Brook/Farmington River	Unknown	Cracked AC forcemain	Repaired by Simsbury WPCA	
4 Middle Lane	9/25/2014	Stebbins Brook/Farmington River	<50 gallons	Private System		
536 Hopmeadow Street	11/10/2014	Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	
536 Hopmeadow Street	8/22/2015	Stebbins Brook/Farmington River	<50 gallons	Private System	Line cleaned by Simsbury WPCA	

536 Hopmeadow Street	11/13/2015	Stebbins Brook/Farmington River	Unknown	Private System		
536 Hopmeadow Street	6/07/2017	Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	
50 Longview Drive	4/01/2018		51-500 gallons	Broken forcemain at Pump Station.	Repaired by Simsbury WPCA	
3 Tunxis Road	12/3/2018	Farmington River	500-1,000 gallons	Contractor excavating damaged forcemain	Repaired by Simsbury WPCA	
536 Hopmeadow Street	12/16/2020	Stebbins Brook/Farmington River	Unknown	Private System	Line cleaned by Simsbury WPCA	

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

Residents of the Town of Simsbury can report illicit discharges to the Department of Public Works via <https://www.simsbury-ct.gov/users/troy/contact> . The DPW staff then performs investigations. The engineering department provides support to the DPW staff for locating hard-to-find sources of discharge. Digital records on the town server are used for tracking illicit discharges.

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
Farmington Valley Health District received and maintains records of septic failures along with actions taken. All sanitary sewer connections and system extensions are managed by the Simsbury Water Pollution Control Authority (WPCA) .The sanitary sewer system has been expanded as required, with a focus on areas of known septic failures. The Town will begin to formally coordinate with WPCA regarding records of septic failures. There were no septic failures reported in 2020.		

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	300 (est.)
Estimated or actual number of interconnections	20 (est.)

Outfall mapping complete	95% (<i>ongoing updates throughout permit lifetime.</i>)
Interconnection mapping complete	0% - ongoing due to new mapping work.
System-wide mapping complete (detailed MS4 infrastructure)	95% (ongoing updates throughout permit lifetime.)
Outfall assessment and priority ranking	40% (est.)
Dry weather screening of all High and Low priority outfalls complete	20% (est.)
Catchment investigations complete	30% (est.)
Estimated percentage of MS4 catchment area investigated	30% (est.)

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).

Best Management Practice training is provided to all DPW staff for new procedures, as determined by the Director of Public Works. A Stormwater Pollution Prevention Training was conducted by ATC Group Services, LLC on September 22, 2020, which highlighted and reviewed MS4 related topics, including IDDE, good housekeeping, spill prevention and response, and material handling practices at the facility. Additionally, the SWPP plan was reviewed.

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	In Progress	<i>None.</i>	<i>Revise land-use regulations.</i>	<i>Planning</i>	<i>June 30, 2019</i>	<i>Resolution to create, implement, and enforce regulations adopted by the Board of Selectmen on June 11, 2018.</i>	<i>The Town continues to work towards revising their land-use regulations.</i>
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Completed	<i>None.</i>	<i>None.</i>	<i>Planning</i>	<i>July 1, 2017</i>	<i>Completed under previous permit.</i>	<i>Applications are received by the Planning Department and circulated to appropriate departments.</i>
4-3 Review site plans for stormwater quality concerns	Ongoing throughout permit life.	<i>The Town of Simsbury received over 200 applications that would ultimately fall under the MS4 guidelines in 2020.</i>	<i>Issue review comments, and review revised plans for compliance.</i>	<i>Engineering/J. Shea</i>	<i>July 1, 2017</i>	<i>Completed under previous permit.</i>	<i>Ongoing throughout permit life.</i>
4-4 Conduct site inspections	Ongoing	<i>Active sites are monitored throughout the year by the Planning Department.</i>	<i>Document inspections and actions.</i>	<i>Planning/Mr. Glidden</i>	<i>July 1, 2017</i>	<i>Completed under previous permit.</i>	
4-5 Implement procedure to allow public comment on site development	Completed	<i>Planning, Zoning, and Conservation Commission meetings allow for public comment on all applications.</i>	<i>Provide an opportunity for public comment/involvement.</i>	<i>Planning</i>	<i>July 1, 2017</i>	<i>Completed under previous permit.</i>	

4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Completed	<i>Continue notification to developers via staff comments.</i>	<i>Include comment to applications.</i>	<i>Planning/Engineering</i>	<i>July 1, 2017</i>	<i>Completed under previous permit.</i>	
4-7 Require Waste Control On-Site	In progress	<i>Create system of notification to developers if controls for waste/debris are inadequate.</i>	<i>Notify developers about DEEP permitting obligations.</i>	<i>Planning/Engineering</i>	<i>Not Specified</i>	<i>Completed</i>	

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

None scheduled at this time.

5. Post-construction 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	In Progress	<i>Internal discussions of adoption of regulations and procedure to do so completed in 2020.</i>	<i>Adopt BMPs for any activity, operation, or facility which may cause or contribute to the pollution or contamination of stormwater, the storm drain system, or waters of the U.S.</i>	<i>Planning</i>	<i>June 30, 2021</i>	<i>June 30, 2021</i>	<i>LID and runoff requirements to be written into Town regulations in 2021.</i>

5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In progress	<i>None.</i>	<i>Enforce regulations and guidelines of LID and runoff reductions.</i>	<i>Engineering/Public Works</i>	<i>Not Specified</i>	<i>June 30, 2021</i>	
5-3 Identify retention and detention ponds in priority areas	Completed	<i>List of surface detention facilities and most drywells completed.</i>	<i>List of Town owned detention basins created.</i>	<i>Engineering/Public Works</i>	<i>Not Specified</i>	<i>July 1, 2019</i>	
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	<i>Complete</i>	<i>DPW inspects the facilities annually, and performs maintenance as needed.</i>	<i>Annually inspect and maintain facilities.</i>	<i>Public Works</i>	<i>June 30, 2019</i>	<i>Completed under previous permit and ongoing.</i>	
5-5 DCIA mapping	In development	<i>With ATC's assistance, the Town will calculate the DCIA at each outfall in the MS4.</i>	<i>Provide an understanding of the Town's overall DCIA in the MS4.</i>	<i>Engineering/J. Shea</i>	<i>June 30, 2021</i>	<i>In development</i>	
5-6 Address post-construction issues in areas with pollutants of concern	In development	<i>In post-construction areas, if erosion or high accumulation of sedimentation are found during the annual inspections conducted under the long-term maintenance plan, the Town of Simsbury will prioritize these areas for DCIA retrofit projects.</i>	<i>Address post-construction areas where erosion or high accumulation of sedimentation are found during annual inspections.</i>	<i>Engineering/Public Works</i>	<i>Not Specified</i>	<i>In development</i>	

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

The Town of Simsbury will continue to monitor, clean, and repair settling/silting basins, catch basins, outfalls, swales, etc.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	
DCIA disconnected (redevelopment plus retrofits)	TBD
Retrofits completed	TBD
DCIA disconnected	TBD
Estimated cost of retrofits	\$
Detention or retention ponds identified	10/10

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

Baseline DCIA was calculated utilizing the DEEP formula table to estimate DCIA based on land-use. The Town first utilized the sub-basin data available through DEEP to determine sub-basins with greater than 11% impervious surfaces. The list was further refined by comparing land-use type based on current Zoning to determine the connectivity level of the sub-basin. The appropriate formula provided an estimated DCIA for all sub-basins with greater than 11% impervious coverage. ATC is working with the Town of Simsbury to further refine the DCIA calculations in 2021.

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	Completed Annually	All DPW personnel were trained on proper stormwater management procedures and spill control.	Eliminate non-stormwater discharges into the storm sewers.	Engineering/Public Works/Planning	July 1, 2017	<p>ATC: Annual Staff Training- 09/22/2020</p> <p>J. Shea: Engineering-East Lyme Stormwater BMP and MS4 Workshop: 4/27/2018</p> <p>Challenges and Practical Solutions to MS4s: 5/23/2018</p> <p>In-House training by Tighe&Bond: 10/09/2018</p> <p>CT MS4 Mapping Workshop: 10/19/2018</p>	A Stormwater Pollution Prevention Training was conducted by ATC Group Services, LLC on September 22, 2020, which highlighted and reviewed MS4 related topics, including IDDE, good housekeeping, spill prevention and response, and material handling practices at the facility. Additionally, the SWPP plan was reviewed.
6-2 Implement MS4 property and operations maintenance	Completed	The Parks Department revised the carry-in/out policy from 2017 in response to the deposition of trash at key parks. Most parks remain carry-in/out.	Eliminates/minimizes spills and/or pollutant releases to the environment and navigable waterways.	Parks/Public Works	July 1, 2017	On-going	Municipally-owned or operated properties, parks, and other facilities will be maintained to minimize the discharge of pollutants to the MS4.

		<p><i>Carbrol Closed Loop Wash Station System was installed in the spring of 2019 for the cleaning of golf course mowing equipment.</i></p> <p><i>In 2020, a Stormwater Quality Unit was installed at the Simsbury DPW for the use of onsite point source storm water treatment applications.</i></p> <p><i>In 2020, approximately 10 + miles of roads were paved. Associated catch basins were repaired along these roadways.</i></p>					
6-3 Implement coordination with interconnected MS4s	<i>In progress</i>	<i>Coordination of MS4 interconnection mapping began in 2019, and continues to this day.</i>	<i>Update the GIS system with interconnected locations</i>	<i>Engineering/J. Shea</i>	<i>July 1, 2017</i>	<i>In progress</i>	<i>GIS updates will continue with assistance from New England Geosystems, as well as ATC Group Services, LLC.</i>
6-4 Develop/implement program to control other sources of pollutants to the MS4	<i>Completed</i>	<i>A spill response team has been developed in coordination between the Town of Simsbury and ATC Group Services.</i>	<i>Reducing other possible pollutants to the MS4.</i>	<i>Department of Public Works/ATC Group Services, LLC</i>	<i>July 1, 2017</i>	<i>October 1, 2020</i>	<i>A plan of action for emergency spills has been created, and is as follows: The Town of Simsbury will immediately notify ATC Group Services, LLC of a spill. ATC will provide spill response and guidance, such as coordinating the elimination of any spill flow to navigable waterways, spill cleanup, reporting, etc.</i>

6-5 Evaluate additional measures for discharges to impaired waters*	<i>In development</i>	<i>Based on wet-and dry-weather testing, the Town of Simsbury will implement additional measures including but not limited to a retrofit program or source management to correct the problem at municipally-owned or operated facilities, as well as IDDEs, where applicable.</i>	<i>Pending further investigations.</i>	<i>Engineering/J. Shea</i>	<i>July 1, 2017</i>	<i>In progress</i>	
6-6 Track projects that disconnect DCIA	<i>In development</i>	<i>A system will be developed utilizing GIS or other reasonable means to track DCIA disconnects.</i>	<i>Track DCIA disconnects.</i>	<i>Engineering/J.Shea</i>	<i>July 1, 2017</i>	<i>In progress</i>	
6-7 Implement infrastructure repair/rehab program	<i>Ongoing</i>	<i>Identified infrastructure that is faulty or requires repair will be prioritized for rehabilitation.</i>	<i>Reduce/ eliminate causes or contributions of pollution or contamination of stormwater, the storm drain system, or waters of the U.S.</i>	<i>Public Works/T.Roy</i>	<i>July 1, 2021</i>	<i>Ongoing</i>	
6-8 Develop/implement plan to identify/prioritize retrofit projects	<i>In Development</i>	<i>Based off of DCIA calculations, the town will identify, prioritize, and begin to develop retrofit projects.</i>	<i>Develop retrofit projects.</i>	<i>Planning/Engineering</i>	<i>July 1, 2020</i>	<i>In development</i>	
6-9 Implement retrofit projects to disconnect 2% of DCIA	<i>Ongoing</i>	<i>Drywells and infiltration systems were installed at the Department of Public Work as part of the maintenance and improvement program for the MS4.</i>	<i>Track and reduce DCIA impacts.</i>	<i>Public Works/T. Roy</i>	<i>July 1, 2022</i>		

6-10 Develop/implement street sweeping program in priority areas	Completed	The Department of Public Works sweeps all roads in the Town of Simsbury following the winter season.	Track swept lane miles.	Public Works/T. Roy	July 1, 2017	Completed under Previous permit.	
6-11 Develop/implement catch basin cleaning program	Completed	Public Woks utilizes Shaw Vac, a third-party vendor to clean 20% of catch basins each year.	Track material usage, and update plan as needed.	Public Works/T. Roy	Not specified	Completed under previous permit.	
6-12 Develop/implement snow management practices	Completed	Snow management per the Simsbury MS4 plan continues.	Track material usage and update plan as needed.	Public Works/T. Roy	Not specified	Completed under previous permit.	The Town of Simsbury has ceased sand application to Simsbury-owned roadways. Roadway de-icing and anti-icing procedures are utilized to minimize discharge. Simsbury also maintains a record of the applications of anti-icing and/or de-icing chemicals used.

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

General inspections are to be performed throughout the year, with support from ATC.

6.3 Pollution Prevention/Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	A Stormwater Pollution Prevention Training was conducted by ATC

	<i>Group Services, LLC on September 22, 2020.</i>
Street sweeping	
Curb miles swept	328
Volume (or mass) of material collected	587CY
Catch basin cleaning	
Total catch basins in priority areas	Unknown
Total catch basins in MS4	3,800 (est.)
Catch basins inspected	1,200 +/-
Catch basins cleaned (based on historical data of problem catch basins)	1,200
Volume (or mass) of material removed from all catch basins	
Volume removed from catch basins to impaired waters (if known)	
Snow management	
Type(s) of deicing material used	Cargill Clear Lane treated road salt
Total amount of each deicing material applied	900 tons
Type(s) of deicing equipment used	Plow, calibrated salt spreaders
Lane-miles treated	165
Snow disposal location	Parking Lot at Iron Horse Blvd
Staff training provided on application methods & equipment	Yes
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	N/A
Reduction in turf area (since start of permit)	N/A
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	\$

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

The Town of Simsbury is currently operating on an approximate 3 year cycle for catch basin cleanings. Excessive depositing of sediment in structures has not been encountered since the Town ceased the use of sand to treat roadways during the winter months. Any structures that are determined to have excessive depositing of sediment will have a shorter cycle for cleanings.

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. [\[Provide information if available in 2018 report. Section to be completed for the 2020 Annual Report.\]](#)

The Retrofit Program is currently in development by the Town and ATC. The Program is being designed by using the initial DCIA calculations in combination with a refined calculation per catchment area. The results of this evaluation will be used in the context of the areas adjacent to impaired waterbodies, urbanized areas, and areas with DCIA great than 11%. The final Retrofit Program will be discussed in the 2021 Annual Report.

The Town and the Board of Education continue to utilize drywells where appropriate to address drainage issues throughout the roadway network and at town-owned facilities. Documentation and tracking has improved in response to the MS4 program. While prioritization will be based on safety in regards to flooding or poorly drained areas, the Town intends to begin including prioritization based on estimated DCIA of watersheds, as well as watersheds that drain to impaired waters.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. [\[Provide information if available in 2018 report. Section to be completed for the 2020 Annual Report.\]](#)

The Retrofit Program will target specific high-priority areas and focus on future redevelopment of those areas to disconnect areas with DCIA. Additional details to be provided in the 2021 Annual Report. Major Town projects consider retrofits to disconnect the DCIA as opportunities are available. Projects selected for implementation include the following:

- 1. Installation of a stormwater infiltration system to disconnect existing and proposed roof areas, as part of the Henry James Memorial School Phase 3 Renovations Project.*
- 2. Installation of stormwater infiltration system and other low impact development techniques as part of the parking lot reconstruction and safety improvements at the Town Hall facility.*
- 3. Installation of a stormwater infiltration system at the DPW (completed 2020)*

These projects will disconnect significant portions of existing pavement from the storm drainage system.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. [\[Provide information if available in 2018 report. Section to be completed for the 2020 Annual Report.\]](#)

The Retrofit Program will target specific high-priority areas and focus on future redevelopment in those areas to disconnect areas with DCIA. Additional details to be provided in the 2021 Annual Report. Land development applications and redevelopment projects will be reviewed to identify opportunities to disconnect directly connected areas from the storm drainage system. In addition, public projects, including roadway improvement projects, will consider opportunities for disconnecting pavement areas where soils and topography are favorable for infiltration or other low impact development techniques.

DRAFT

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

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 at <https://nemo.uconn.edu/ms4/tools/ms4map.html>.

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.

The Town of Simsbury began wet weather testing in 2018. Ten (10) outfalls were monitored for Bacteria during two eligible storm events in 2018. Twenty-three (23) additional outfalls were monitored in 2019 for Bacteria. The first two (2) years of wet weather testing was intended to achieve a well-represented sample of the drainage systems discharging from the two (2) impaired streams in the Town of Simsbury. All outfalls monitored in 2019 tested positive for bacteria. Twenty-eight (28) outfalls were monitored during dry-weather inspections in 2020. Additional wet weather sampling and dry weather screening for the remaining outfalls will be completed in early 2021 to properly develop a long-term stormwater sampling program.

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

2.1 Screening data collected under 2018 permit – to be performed in 2019

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: E. Coli (col/100mL)	Name of Laboratory (if used)	Follow-up required?	Follow-up Results
OF-910	6/25/2019	Bacteria	98	Phoenix	No	
OF-911	6/25/2019	Bacteria	571	Phoenix	Yes	
OF-168	6/25/2019	Bacteria	98	Phoenix	No	
OF-169	6/25/2019	Bacteria	3,080	Phoenix	Yes	
OF-380	6/25/2019	Bacteria	1,580	Phoenix	Yes	
OF-379	6/25/2019	Bacteria	10	Phoenix	No	
OF-378	6/25/2019	Bacteria	4,110	Phoenix	Yes	
OF-902	6/25/2019	Bacteria	3,650	Phoenix	Yes	
OF-968	6/25/2019	Bacteria	144	Phoenix	No	
OF=501	6/25/2019	Bacteria	408	Phoenix	No	
OF-503	6/25/2019	Bacteria	723	Phoenix	Yes	
OF-495	6/25/2019	Bacteria	364	Phoenix	No	
OF-504	6/25/2019	Bacteria	816	Phoenix	Yes	
OF-301	6/25/2019	Bacteria	10	Phoenix	No	

OF-35	6/25/2019	Bacteria	6,870	Phoenix	Yes	
OF-37	6/25/2019	Bacteria	189	Phoenix	No	
OF-36	6/25/2019	Bacteria	63	Phoenix	No	
OF-293	6/25/2019	Bacteria	7,700	Phoenix	Yes	
OF-318	6/25/2019	Bacteria	4,350	Phoenix	Yes	
OF-38	6/25/2019	Bacteria	464	Phoenix	No	
OF-58	6/25/2019	Bacteria	1,480	Phoenix	Yes	
OF-55	6/25/2019	Bacteria	3,650	Phoenix	Yes	
OF-310	6/25/2019	Bacteria	1,310	Phoenix	Yes	

2.2 Credit for screening data collected under 2004 permit

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

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

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

Provide the following information for outfalls exceeding the pollutant threshold. To be completed 2020 where applicable.

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 1, 2020.

Outfall	Sample Date	Parameter(s)	Results	Name of Laboratory (if used)
OF-960	9/18/2018	Bacteria	24,200 col/100mL	Phoenix
OF-158	9/18/2018	Bacteria	24,200 col/100mL	Phoenix
OF-163	9/18/2018	Bacteria	13,000 col/100mL	Phoenix
OF-35	9/18/2018	Bacteria	7,700 col/100mL	Phoenix
OF-293	9/18/2018	Bacteria	6,870 col/100mL	Phoenix
OF-967	9/18/2018	Bacteria	6,870 col/100mL	Phoenix

Part III: Additional IDDE Program Data [This section required beginning with 2018 Annual Report].

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	1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank	1. Catchment ID (DEEP Basin ID)	2. Category	3. Rank
4318-06-1	High Priority	21	4300-00-5+R17	High Priority	10	4312-00-2-L2	Low Priority	6
4318-00-3-R2	High Priority	21	4300-00-5+R18	High Priority	10	4317-00-2-L1	Low Priority	6
4318-04-1	High Priority	18	4300-00-5+R19	High Priority	10	4317-00-2-R1	Low Priority	6
4318-01-1+L1	High Priority	18	4300-00-5+R8	High Priority	10	4317-00-5+R11	Low Priority	4
4318-03-2+R1	High Priority	18	4300-00-5+R9	High Priority	10	4300-40-1	Low Priority	4
4318-14-1+L1	High Priority	18	4300-36-1	High Priority	10	4317-00-1	Low Priority	4
4300-32-1	High Priority	16	4300-38-1	High Priority	10	4309-02-1		0
4300-00-5+R12	High Priority	14	4300-42-1	High Priority	10	4309-03-1		0
4300-00-5+R20	High Priority	14	4300-43-1	High Priority	10	4319-10-1		0
4300-33-1	High Priority	14	4300-44-1-L1	High Priority	10	4319-11-1		0
4300-34-1	High Priority	14	4318-01-1	Low Priority	8	4300-00-5+R21		0
4300-37-1	High Priority	14	4318-02-1	Low Priority	8	4300-00-5+R22		0
4300-44-1	High Priority	14	4318-03-1	Low Priority	8	4300-00-5+R7		0
4318-05-1	High Priority	11	4300-39-2-R2	Low Priority	8	4300-35-1		0
4300-39-1	High Priority	11	4318-00-1	Low Priority	8	430041-1		0
4300-00-5+R10	High Priority	10	4318-00-1-L1	Low Priority	8	4300-47-1		0
4300-00-5+R13	High Priority	10	4318-00-2-R1	Low Priority	8	4319-10-2-L1		0
4300-00-5+R14	High Priority	10	4318-00-2-R2	Low Priority	8	4404-04-1-L2		0
4300-00-5+R15	High Priority	10	4318-00-3-R1	Low Priority	8	4404-04-1-L1		0
4300-00-5+R16	High Priority	10	4317-01-1	Low Priority	6	4404-05-1-L2		0

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

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. Additional dry weather inspections to be completed in 2021.

Outfall / Interconnection ID	Screening / sample date	Ammonia	Chlorine	Conductivity	Salinity	E. coli or enterococcus	Surfactants	Water Temp	Pollutant of concern	If required, follow-up actions taken
OF-35	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-36	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-37	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-38	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-55	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-58	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-925	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-960	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-898	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-902	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-158	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-163	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-293	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-297	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-301	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-310	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-318	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-405	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-409	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-410	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-495	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-501	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-503	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-504	12/29/2020	--	--	--	--	--	--	--	Bacteria	
OF-967	12/29/2020	--	--	--	--	--	--	--	Bacteria	

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:

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

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

3.3 Wet weather investigation outfall sampling data

Outfall ID	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	Document Prepared by
Print name: Maria E. Capriola, Town Manager	Print name: Kay Lehoux
Signature / Date: March 31, 2021 	Signature: Date: