MS4 General Permit
Town of Wallingford 2018 Annual Report
Existing MS4 Permittee
Permit Number GSM 000050
January 1, 2018 – December 31, 2018

This report documents the town of Wallingford efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2018 to December 31, 2018.

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	All completed	Brochures, posters and fact sheet are provided at various town departments.	Educate town residents.	DPW, Engineering, Wetlands, Planning and Zoning	12/31/18	12/31/18	Continue to add and update materials.
		Flyer sent out to all town residents - Annual "Clean a Road" flyer.	Improve stormwater quality.	DPW	12/31/18	12/31/18	Continue to send out flyer annually.
		Town Hall Display on stormwater.	Inform the public.	DPW	12/31/18	12/31/18	Continue to display.
		Stormwater activity books to schools.	Educate students.	DPW	12/31/18	12/31/18	Continue to reach out to schools.

		Library Series on stormwater and water quality topics.	Educate the public.	Town Library	12/31/18	12/31/18	Continue to support.
		"Stormwater and You" Booth.	Educate public on stormwater.	DPW and Sponsored by CYTEC Industries	12/31/18	12/31/18	Continue with current sponsor or new sponsors.
		Town website with Stormwater Management Plan and other links to stormwater information.	Educate public.	Engineering	12/31/18	12/31/18	Update as new information comes in.
		Household Hazardous Waste Collection Point for residents – at Regional Water Authority in New Haven.	Public can properly dispose of household hazardous waste.	Information on town website and Town of Wallingford hosts twice a year	12/31/18	12/31/18	Continue with Regional Water Authority as the leading agency.
1-2 Address education/ outreach for pollutants of concern*	In progress	Town Department brochures and pamphlets on pollutants of concern.	Educate public about Bacteria, nitrogen and phosphorus.	Water Pollution Control Authority, Aquifer Protection Regulations as supplied by various town departments	12/31/18	12/31/18	Continue/update informational flyers.

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

Plan to implement new brochures, pamphlets, and update/continue with town display and booth as new stormwater information is made available from regulatory sources (CTDEEP and/or EPA). Update town website on stormwater as information is required (e.g., Annual Report posting requirement). This will continue to be changed/developed as new informational brochures and pamphlets come available.

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, posters and fact sheet	Town residents doing business at Town Hall and DPW.	Potential contaminants and stormwater impacts.	Phosphorus, nitrogen, bacteria, oils and TSS	DPW, Engineering, Wetlands, Planning and Zoning
Flyer sent out to all town residents - Annual "Clean a Road" flyer.	All town residents.	Trash to be eliminated from stormwater runoff.	Trash	DPW
Town Hall Display on stormwater.	Residents that do business at Town Hall.	Various stormwater topics – general information.	General information only	DPW
Stormwater activity books to schools.	Elementary Schools in Wallingford.	General pollution problems.	General information only	DPW
Library Series stormwater & water quality topics.	People who attend series.	Stormwater quality and water quality.	Topics vary	Town Library
"Stormwater and You" Booth.	Residents, families/children.	General information.	General information	DPW and CYTEC Industries
Town website with Stormwater Management Plan and other links to stormwater information.	Residents and others who visit the website.	Various topics, Stormwater Management Plan, Annual Report(s).	General information	Engineering
Household Hazardous Waste Collection Point for residents – at Regional Water Authority in New Haven.	Residents that attend collection point.	Eliminate hazardous waste from stormwater.	Hazardous waste and hazardous materials	Regional Water Authority
Town Department brochures and pamphlets on pollutants of concern.	Residents that do business in these departments.	Bacteria, nitrogen and phosphorus.	Bacteria, nitrogen and phosphorus	Water Pollution Control Authority and Aquifer Protection

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	Posted	Stormwater Management Plan (SWMP) posted to the town website and information about the SWMP at the Town Library, Town Clerk, in the local newspaper and at the Town Hall Display as of April 1, 2017.	Provide forum to coordinate SWMP implementation across depts. and commissions.	Engineering	Apr 3, 2017	Completed April 1, 2017	Stormwater Management Plan previously completed on time as per Permit requirements.
2-2 Comply with public notice requirements for Annual Reports	In progress	2017 Annual Report previously posted.	Provides access for residents to understand what is being accomplished in the town for stormwater management.	Law Department, Engineering and DPW	Feb 15, 2019	2017 Annual Report posted April 1, 2018. 2018 Annual Report to be posted by June 14, 2019.	2018 Annual Report delay due to Town of Wallingford re-bidding MS4 Permit Compliance with a consultant and having funds available for this service.
2-3 Household Hazardous Waste Collection Point for residents – at Regional Water Authority in New Haven	Completed	Done throughout the year - involve public in proper disposal of waste streams to eliminate sources to stormwater.	Public can properly dispose of household hazardous waste.	Regional Water Authority	-	Done throughout the year	Information on town website and Town of Wallingford hosts twice a year.
2-4 Compost Center	Completed	Provided to town residents for leaves and other organic debris (yard debris).	Eliminate leaves and other compost into the storm sewers.	DPW	-	Available to town residents	Compost Center located at 157 John Street, Wallingford, CT
2-5 Recycling Center	Completed	Provided town residents for solid waste to be recycled – wood, metal, mattresses, light bulbs and ballasts.	Eliminate large solid waste streams into storm sewers not handled by curb-side pick-up.	DPW	-	Available to town residents	Recycling Center located at 25 Pent Road, Wallingford, CT

2-6 Community Clean-ups	Completed	Once per year – various locations.	Opportunity to clean-up wastes from getting into the storm sewers.	DPW	-	Town residents, community groups and businesses	Quinnipiac River Watershed clean-up. Tyler Mill Preserve Conservation Commission clean-up. Mini-Grant provided by town for groups to initiate their own clean-up.
2-7 Adopt-a-Road Program	Completed	Done since initiation of this Permit.	Town has Adopt-a-Road Program to eliminate sections of trash along roadways.	DPW	-	Town residents, community groups and businesses	
2-8 Marker Kits	Completed	Done since initiation of this Permit.	Town and High School students have placed on stormwater catch basins warning discharge to rivers and waterbodies.	DPW	-	DPW and school students	6,500 catch basins completed to date.
2-9 Citizen Reporting	Completed	*Complaint form available on town website.	For residents to report illicit discharges to storm sewers.	Engineering	April 1, 2017	April 1, 2017 Completed as per Permit requirements	

*Town website for stormwater: http://www.town.wallingford.ct.us/Content/Stormwater_and_You.asp

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

2018 Annual Report to be posted by June 14, 2019.

2.3 Public Involvement/Participation reporting metrics

Metrics	Implemented	Date	Posted
Availability of the Stormwater Management Plan announced to public	Yes – previously submitted	April 1, 2017	Town website *see below
Availability of Annual Report announced to public	In progress	2017 Annual Report posted April 1, 2018. 2018 Annual Report to be posted by June 14, 2019.	Town website *see below

* http://www.town.wallingford.ct.us/Content/Stormwater_and_You.asp

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

3.1 BMP Summary

BMP	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
3-1 Develop written IDDE program	In progress	Town is in process of completing written IDDE program using the CT IDDE program template.	Develop written plan of IDDE program.	Law Department, DPW and Engineering	Jul 1, 2018	Anticipate completing by the deadline of July 31, 2019	Delay due to Town of Wallingford re-bidding MS4 Permit Compliance with a consultant and having funds available for this service.
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Completed	A way for the Town to track/reference all the outfalls and interconnections for theMS4.	Develop the lists/mapping for the outfalls of the MS4.	Engineering Department	Jul 1, 2019	Completed May 1, 2019	Changes/Updates incorporated when discovered
3-3 Implement citizen reporting program	Completed	Implemented an Illicit Discharge Reporting Form available on the town website.	Citizen reporting system.	Engineering Department	Jul 1, 2017	Previously completed April 1, 2017	
3-4 Establish legal authority to prohibit illicit discharges	Completed	New (approved on 3/14/18) Stormwater Management Ordinance.	Regulate, prohibit, establish legal authority and ensure compliance with MS4.	Town Law Department and Engineering	Jul 1, 2018	Previously completed 3/14/18	Town of Wallingford, CT Ordinance No. 621

3-5 Develop record keeping system for IDDE tracking	Completed	Follow-up of citizen reporting to confirm an illicit discharge and document.	Documents illicit discharge reports by citizens.	Engineering Department	Jul 1, 2017	Completed previously - April 1, 2017	
3-6 Address IDDE in areas with pollutants of concern	In progress	Follow-up investigation of confirmed Illicit discharge.	Find and stop source(s) of the illicit discharge.	Engineering Department	Not specified	Dry weather screening for IDDE complete by May 20, 2019	Follow up investigation by Engineering Department with possible sampling by others (consultant)

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

IDDE for dry weather screening to be completed by end of May 2019, with follow-up of any target issue outfalls for sampling during the first wet weather event (June 2019).

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

Date of Report	**Location / suspected source**	**Response taken**
None to date as of the writing of this Annual Report.		

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)
48 Nicholas Road, Wallingford, CT 06492	July 13, 2018	Storm drain of MS4	Unknown	Homeowner	Health Department – Town of Wallingford and CTDEEP discuss with home owner that they cannot dump their sewage from their camper into the road that discharges to a catch basin of the MS4	None known

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

The Town of Wallingford has a form on their website http://www.town.wallingford.ct.us/Content/Stormwater_and_You.asp that the person making the complaint can complete and then submit to the Town Engineering Department. The Engineering Department will then investigate the complaint to confirm an actual illicit discharge has occurred. The tracking will be done by the Engineering Department.

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
Suspected septic failures or discharges of sewage to the MS4 are tracked by the Town Health Department (one documented sewage discharge to the MS4 in 2018)	If determined to be a sewage discharge to the MS4, the homeowner/business owner was contacted by the Health Department.	Catch basin of the MS4

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	650
Estimated or actual number of interconnections	6,500
Outfall mapping complete	100%
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	5%
Dry weather screening of all High and Low priority outfalls complete	96 (to be completed in May 2019)

Catchment investigations complete	18 (to date)
Estimated percentage of MS4 catchment area investigated	2.5%

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 is provided to all DPW staff to recognize and report back for illicit discharges.

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	Completed	Specific zoning and wetlands regulations in place for stormwater management for Construction.	Control sediment/runoff from Construction activities.	Planning and Zoning (P & Z) and Wetlands	Jul 1, 2019	July 1, 2017	Update regulations when approved by each department
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Completed	Site plan reviews completed by applicable departments.	Ascertain all applicable departments have required site plans for impacts on stormwater.	P & Z. Wetlands if wetlands may be affected	Jul 1, 2017	June 30, 2018	Integrated compliance checklist.
4-3 Review site plans for stormwater quality concerns	Completed	As part of site plan reviews and required in the Contractor's Stormwater Management Plan.	Provides for proper procedures for sediment and erosion control.	P & Z. Wetlands if wetlands may be affected	Jul 1, 2017	July 1, 2017	
4-4 Conduct site inspections	Completed	Site inspections done on an as needed basis. General written	Ensures compliance with regulations of	P & Z and Wetlands	Jul 1, 2017	July 1, 2017	Wetlands enforcement on application and in regulations.

		procedures for P & Z for enforcement.	each department.				
4-5 Implement procedure to allow public comment on site development	Completed	P & Z and Wetlands allow for public comment.	Allows public to consider impact of Construction Projects.	P & Z and Wetlands	Jul 1, 2017	July 1, 2017	
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Completed	Posted in specific departments as to the requirements.	Provides awareness to all developers about permit.	P & Z and Wetlands	Jul 1, 2017	July 1, 2017	Add in the future to applications for P & Z and Wetlands departments.
4-7 Require Waste Control On-Site	In progress	Verbal warning if department becomes aware.	Controls waste/debris from getting in stormwater discharge.	P & Z and Wetlands	-	July 31, 2019	

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

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	Regulations currently exist and are enforced for runoff reduction.	Requires site developments to be low impact and reduce run-off.	P & Z and Wetlands if impacted	Jul 1, 2021	July 1, 2020	Town Engineering working on strengthening regulations.
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	In progress	Stormwater Maintenance Plan required for > or = 1 acre disturbance.	Long term, quarterly and after every storm event developer inspects.	P & Z	Jul 1, 2019	July 1, 2019	Stormwater Management Plan for maintenance requirements to be completed.

5-3 Identify retention and detention ponds in priority areas	In development	Inspections done for sediment in excess of 50% design capacity.	Allows for ponds to operate properly.	Engineering	Jul 1, 2019	Jul 1, 2019	To be completed by deadline date.
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	In development	In areas of the Urbanized Area and DCIA > 11% to Impaired Waters	Allows for reduction of pollutants to MS4.	Engineering	Jul 1, 2019	Jul 1, 2019	Stormwater Management Plan for maintenance requirements to be completed.
5-5 DCIA mapping	In development	Calculate DCIA at each MS4 outfall.	Provides understanding of overall DCIA in the MS4.	Engineering with other Town designated departments	Jul 1, 2020	Jul 1, 2020	Consultant has proposal into the Town to provide this service.
5-6 Address post-construction issues in areas with pollutants of concern	In development	For specific pollutants of concern identify and address on case by case basis.	Reduce/Eliminate pollutants of concern.	Engineering with other Town designated departments	Not specified	Jul 1, 2019	Stormwater Management Plan for maintenance requirements to be completed.

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

Town Engineering working on strengthening regulations. DCIA mapping proposal to Town for approval, when approved consultant will complete in approximately a 2 month period.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	To be determined (TBD) acres

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

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

For the above baseline DCIA metrics, mapping proposal to Town for approval, when approved consultant will complete in approximately a 4 month period.

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	Trained all DPW personnel on proper stormwater management procedures and spill control.	Eliminate non-stormwater discharges into the storm sewers.	DPW	Jul 1, 2017	12/31/18	Continue annual training
6-2 Implement MS4 property and operations maintenance	Completed	Spill Response Team through fire department is spill occurs. SPCC Plan in place for DPW facility.	Eliminates/Minimizes spills/releases to the environment and waterways.	DPW and local fire department	Jul 1, 2018	12/31/18	Continue these activities
6-3 Implement coordination with interconnected MS4s	Completed	Work with Engineering on list and mapping of all outfalls and interconnections if updates are needed.	To have a current list and mapping of the outfalls and interconnections.	Engineering and DPW	Not specified	12/31/18	
6-4 Develop/implement program to control other sources of pollutants to the MS4	In development	Work with other town departments on control of other pollutants to the MS4	Reducing other possible pollutants to the MS4.	Engineering and DPW, and potentially other departments	Not specified	Undetermined at this time – table discussion on program for this item.	
6-5 Evaluate additional measures for discharges to impaired waters*	In development	Work with other town departments on control of other pollutants to the MS4	Reducing other possible pollutant to impaired waters.	Engineering and DPW, and potentially other departments	Not specified	Undetermined at this time – table discussion on program for this item.	
6-6 Track projects that disconnect DCIA	Tracking	Engineering is currently tracking projects that disconnect DCIA.	Reducing runoff to storm sewers.	Engineering Department	Jul 1, 2017	July 1, 2017	Continue to track disconnected DCIA

6-7 Implement infrastructure repair/rehab program	In development	When stormwater structures require repair or rehabilitation	Reduce/Eliminate potential pollutants from a faulty stormwater structure(s).	DPW and Engineering Department	Jul 1, 2021	July 1, 2021	
6-8 Develop/implement plan to identify/prioritize retrofit projects	In development	Planning and Zoning to develop a list of approved retrofits/redevelopments for the past 5 years.	Utilize LID and other run-off reduction measures to improve stormwater quality.	P & Z and Engineering Department	Jul 1, 2020	July 1, 2020	Track previous – past 5 years. Begin to track additional retrofits/redevelopments as they are completed
6-9 Implement retrofit projects to disconnect 2% of DCIA	In development	Attempt to meet the 1% per year DCIA disconnections.	Reduction of pollutants to the MS4.	P & Z and Engineering Department	Jul 1, 2022	July 1, 2022	
6-10 Develop/implement street sweeping program	Completed	All streets are swept at least once per year to remove sand and other debris.	Reduce particulates and other debris from entering the MS4.	DPW	Jul 1, 2017	12/31/18	
6-11 Develop/implement catch basin cleaning program	Completed	Inspection of at least 1,000 catch basins per year; clean if sediment loaded 50% or greater.	Reduce particulates and other debris from entering the MS4.	DPW	Jul 1, 2020	12/31/18	
6-12 Develop/implement snow management practices	Completed	Excess snow is transported and disposed of at the Town's Pent Road facility	Excess snow with particulates and other debris does not attribute to polluting the MS4.	DPW	Jul 1, 2018	12/31/18	
Example additional BMP: 6-13	Completed	New Road Construction Projects – implementation of sheet flow drainage to eliminate use of catch basins.	Reduces pollutants to the MS4 where this BMP is used.	DPW	-	12/31/18	

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

Increase the number of catch basins that are cleaned based on problem catch basins.

6.3 Pollution Prevention/Good Housekeeping reporting metrics

Metrics	
Employee training provided for key staff	Yes / February 2018
Street sweeping	
Curb miles swept	231 miles
Volume (or mass) of material collected	300 tons
Catch basin cleaning	
Total catch basins in priority areas	6,500
Total catch basins in MS4	6,500
Catch basins inspected	1,000 per year
Catch basins cleaned (based on historical data of problem catch basins)	100
Volume (or mass) of material removed from all catch basins	37 tons
Volume removed from catch basins to impaired waters (if known)	Not known
Snow management	
Type(s) of deicing material used	<98% NaCl <0.5% Molasses <0.5% $MgCl_2$ <0.01% Yellow Prussiate Soda
Total amount of each deicing material applied	400 tons per storm
Type(s) of deicing equipment used	Various Trucks
Lane-miles treated	231 miles each event
Snow disposal location	25 Pent Road, Wallingford
Staff training provided on application methods & equipment	Yes/When hired
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
Reduction in application of fertilizers (since start of permit)	Subcontractor does application as per manufacturer's specifications.

Reduction in turf area (since start of permit)	Same as above previous reduction method.
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
Cost of mitigation actions/retrofits	Unknown

6.4 Catch basin cleaning program

Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [Complete this section for the 2017 Annual Report only]
Inspect at least 1,000 catch basins each year. When a catch basin is sediment loaded 50% or greater, the catch basin gets cleaned. All catch basins are cleaned after a road paving parking is completed.

On an annual basis over 1,000 catch basins are inspected by the DPW, any the catch basins inspected that are over 50% sediment loaded, then these are cleaned by DPW. Focus on known problem catch basins (historic data for DPW). Limited staff and equipment to perform this task.

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 2019 Annual Report.]
To be provided in 2019 Annual Report.

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 2019 Annual Report.]
To be provided in 2019 Annual Report.

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 2019 Annual Report.]
To be provided in 2019 Annual Report.

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

Town did not have a consultant under contract from June 30, 2018 to January 1, 2019 to perform these services. Consultants and funds to be awarded by March 1, 2019 for investigation and monitoring for impaired waters. 50% of impaired waters will be investigated and sampled in 2019.

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: http://s.uconn.edu/ctms4map.

Nitrogen/ Phosphorus ☐ Bacteria ☐ Mercury ☐ Other Pollutant of Concern ☐

1.2 Describe program status.

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

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

2.1 Screening data collected under 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**	**Name of Laboratory (if used)**	**Follow-up required?**

2.2 Credit for screening data collected under 2004 permit

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

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

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

Provide the following information for outfalls exceeding the pollutant threshold. To be completed 2019 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)**

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

Town did not have a consultant under contract from June 30, 2018 to January 1, 2019 to perform these services. Consultants and funds to be awarded by March 1, 2019 for assessment and priority ranking of catchments. To be performed in 2019.

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

Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater impaired waterbodies. To be completed in May of 2019.

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

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. To be completed in June and July 2019.

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

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

3.1 System Vulnerability Factor Summary

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

Outfall ID	Receiving Water	System Vulnerability Factors

Where SVFs are:

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

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 that 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 that 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: Robert V. Baltramaitis, P.E.	Print name: Douglas J. Rhoads, CHMM ATC Group Services LLC
Signature:  Date: 9/20/19	Signature:  Date: 6/12/19