

# TOWN OF WETHERSFIELD, CONNECTICUT

## General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

2023 Annual Report



Prepared by the  
Wethersfield Engineering Department

Town of Wethersfield  
MS4 General Permit 2023 Annual Report

Existing MS4 Permittee  
Permit Number GSM000031

January 1, 2023 – December 31, 2023

Primary MS4 Contact: Derrick Gregor, P.E., Town Engineer, 860 721-2850, derrick.gregor@wethersfieldct.gov

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This report documents the Town of Wethersfield's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2023 to December 31, 2023. Refer to the Town of Wethersfield Stormwater Management Plan (SMP) effective July 1, 2017 for additional information

Stormwater Program Permit Information	
<b>Permitting Authority:</b>	Commissioner of CT DEEP
<b>Permit Number:</b>	GSM000031
<b>Permit Type:</b>	General
<b>Permit Name:</b>	General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems
<b>Date Issued:</b>	9/29/2023
<b>Date Effective:</b>	10/01/2023
<b>Date Expires:</b>	9/30/2025

General Information for MS4 Operator	
<b>Operator Name:</b>	Frederick J. Presley
<b>Operator Title:</b>	Town Manager
<b>Represented Entity:</b>	Town of Wethersfield
<b>Mailing Address:</b>	505 Silas Deane Highway
<b>Mail City:</b>	Wethersfield, CT 06109
<b>Phone Number:</b>	860-721-2801
<b>E-Mail Address:</b>	Fred.Presley@wethersfieldct.gov
<b>Co- Permitting With:</b>	Commissioner of CTDEEP
<b>Population:</b>	26,700
<b>Households:</b>	11,100
<b>Area (sq. mi):</b>	13
<b>Official Website:</b>	www.wethersfieldct.gov

General Information for Primary Contact Person	
<b>Name:</b>	Derrick Gregor, P.E.
<b>Title:</b>	Town Engineer
<b>Phone Number:</b>	860-721-2853
<b>E-Mail Address:</b>	Derrick.Gregor@wethersfieldct.gov

General Information for Secondary Contact Person	
<b>Name:</b>	Leon Burroughs
<b>Title:</b>	Engineering Technician II
<b>Phone Number:</b>	860-721-2850
<b>E-Mail Address:</b>	Leon.Burroughs@wethersfieldct.gov

General Information for Receiving Waters		
<b>Receiving Water Lists:</b> Listed below are all the identified receiving waterbodies to which outfalls discharge		
Receiving Streams (creek, stream, river etc.)	Receiving Waterbodies (lake, wetland, ocean, etc.)	Receiving Watersheds
Beaver Brook Cemetery Brook Collier Brook Fairlane Brook Folly Brook Goff Brook Two Stone Brook	1860 Reservoir Bell Pond Griswold Pond Millwoods Pond Murphy Pond Wethersfield Cove	Connecticut River Long Island Sound

## Part I: Summary of Minimum Control Measure Activities

### 1. Public Education and Outreach (SMP Table 4 & MS4 Permit Section 6 (a)(1) / Page 19)

#### 1.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Continue to Broadcast Public Service Announcements on Local Government Access Television	Complete	Public Service Announcements (PSAs) have been broadcast on the Local Government Access Channel and available on the Engineering Department page of the Town website	Educate audience about problems caused by pollutant discharges to stormwater systems and how to prevent such discharges	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	<a href="http://www.wethersfieldct.gov/engineering">http://www.wethersfieldct.gov/engineering</a>
Continue Targeted Outreach Efforts on Stormwater Management during the Development Permit Review and Approval Process	Complete	Proposed development has been reviewed for stormwater management and water quality for all PZC & IWCC permit applications and best management practice are encouraged in all instances	Ensure all proposed development mitigates any increase in stormwater runoff leaving the site, provides water quality treatment and encourages groundwater recharge / LIDs where feasible	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	All new developments and many redevelopment projects (depending on scope) are required to provide stormwater treatment and encouraged to implement LID measures in accordance with the 2004 CT Stormwater Quality Manual
Develop and Post Brochures / Fact Sheets on Impacts to Water Quality and Pollutants of Concern	Complete	Staff completed research for required materials and developed informational brochures	Educate public on common pollutants of concern	Engineering Department / L. Burroughs (Engineering Tech)	July 2018	Ongoing BMP	Informational brochure and related information has been developed by staff and posted in various locations in Town Hall
Develop Stormwater Reference Materials Library for Public and Staff Use	Complete	The Engineering Department has assembled a library of various stormwater related material available for public and staff use	Maintain reference materials regarding stormwater management, treatment & runoff reduction	Engineering Department / L. Burroughs (Engineering Tech)	July 2018	Ongoing BMP	Incl. 2004 CT Stormwater Quality Manual, 2002 CT Guidelines for Soil Erosion and Sediment Control and other published documents

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Provide Website Links to Education Materials on Town Website	Complete	Links to valuable stormwater related material has been provided on the Engineering Department page of the Town website	Educate audience about environmental issues caused by pollutant discharges	Engineering Department / D. Gregor (Town Engineer)	July 2018	Ongoing BMP	<a href="http://www.wethersfieldct.gov/engineering">http://www.wethersfieldct.gov/engineering</a>

**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.

Continue broadcasting PSAs, addressing stormwater management during permit application reviews and continue maintaining reference materials throughout the duration of the MS4 Permit.

### 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 Organization
Presentation to Third Grade Class on Nov 20, 2017	Students (approx. 20)	Engineering, Storm Drainage	Pollutants that can enter catch basins and impact environmental resources	Engineering Department (Town Engineer)
New Stormwater Permitting Requirements page printed in 2018, 2019 & 2020 Town Guide & Calendar (Provided by the Town of Wethersfield)	Town Residents and Visitors (approx. > 26,000)	Best practices at home to reduce stormwater pollution	Phosphorus, nitrogen, grass clippings, leaves, trash	Town Engineering Department & Planning Dept.
Brochure for disconnecting roof leaders from MS4 printed in 2021, 2022 & 2023 Town Guide & Calendar (Provided by the Town of Wethersfield)	Town Residents and Visitors (approx.. > 26,000)	Best practices at home to reduce stormwater pollution	Phosphorus, nitrogen, grass clippings, leaves, trash	Town Engineering Department & Planning Dept.

Additional “Clean Water” handouts available to residents in Town Library	Town Residents and Visitors (approx. > 26,000)	Preventing Stormwater runoff pollution	Typical residential sources of pollution	Town Engineering Department & Town Library
Purchase of additional educational brochures for local school children	School age K-10 students and their families	Explaining the importance of water conservation and pollution reduction	Phosphorus, nitrogen, grass clippings, leaves, trash	Town School District

## 2. Public Involvement/Participation (SMP Table 5 & MS4 Permit (Section 6(a)(2) / Page 21)

### 2.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Comply with Public Review and Comment Periods for Annual MS4 General Permit Reports	Complete	Annual reports are available for public review and comment on Town website and at Engineering Department office a min. of 45 days prior to submittal	Continue posting annual reports for public review and comment	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	Announcements of draft reports for public review were made in Weekly Town Manager’s Reports, direct emails to residents and on Town’s homepage, and was posted at <a href="http://www.wethersfieldct.gov/engineering">http://www.wethersfieldct.gov/engineering</a>
Continue Management of Town Refuse Collection and Recycling Program	Complete	Staff has managed & monitored programs and facilities (incl. Transfer Station) to ensure conformance with all regulations	Continue management of Collection/Recycling Programs and addressing public comments and concerns	Physical Services / S. Katz (Dir. Of Physical Services)	July 2017	Ongoing BMP	Information provided at <a href="http://www.wethersfieldct.gov/physical-services">http://www.wethersfieldct.gov/physical-services</a>
Continue to Schedule Trash Cleanup and Hazardous Waste Collection Events	Complete	See Section 2.3 below	Continue to coordinate with Central CT Health District & MDC to hold annual trash cleanup and hazardous waste collection events	Physical Services / S. Katz (Dir. Of Physical Services), Central CT Health District & MDC	July 2017	Ongoing BMP	

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

Continue to make annual reports available to the public per the Freedom of Information Act requirements and hold annual trash cleanup and hazardous waste collection events that are coordinated with regional agencies.

## 2.3 Public Involvement/Participation Reporting Metrics

Metrics	Implemented	Date	Posted
2017 Stormwater Management Plan announced to the public	Yes	March 2017	Included in weekly Town Manager's Report and posted at <a href="http://www.wethersfieldct.gov/content/398/408/default.aspx">http://www.wethersfieldct.gov/content/398/408/default.aspx</a>
2017 Free Paper Shredding Event	Yes	May 11, 2017	Coordinated by Town Social Services and Physical Services Departments
2017 Metropolitan District Commission (MDC) Household Hazardous Waste Collection held at Wethersfield High School	Yes	June 17, 2017	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
2017 Wethersfield Cove & Connecticut River "Source-to-Sea Clean-up" Day	Yes	Sept 23, 2017	Coordinated by the Connecticut River Watershed Council & Town Physical Services Department for collection of trash in environmentally sensitive areas
2017 Draft Annual Report announced to public for review	Yes	February 2018	Announcement provided on Town's homepage, included in weekly Town Manager's Report emailed to public and posted at <a href="http://www.wethersfieldct.gov/engineering">http://www.wethersfieldct.gov/engineering</a>
2018 Yard Clean-Up Day	Yes	April 21, 2018	Provided for residents by Physical Services Department to properly dispose of debris
2018 Metropolitan District Commission (MDC) Household Hazardous Waste Collection held at Wethersfield High School	Yes	June 16, 2018	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
2018 Draft Annual Report announced to public for review	Yes	February 2019	Announcement provided on Town's homepage, included in weekly Town Manager's Report emailed to public and posted at <a href="http://www.wethersfieldct.gov/engineering">http://www.wethersfieldct.gov/engineering</a>
2019 Free Paper Shredding Event	Yes	May 9, 2019 & April 6, 2019	Coordinated by Town Social Services and Physical Services Departments
2019 Metropolitan District Commission (MDC) Household Hazardous Waste Collection held at Wethersfield High School	Yes	June, 15 2019	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
2019 Wethersfield Cove & Connecticut River "Source-to-Sea Cleanup" Day	Yes	Sept, 28 2019	Coordinated by the Connecticut River Watershed Council & Town Physical Services Department for collection of trash in environmentally sensitive areas

Metrics	Implemented	Date	Posted
2020 Metropolitan District Commission (MDC) Household Hazardous Waste Collection held at Wethersfield High School	Yes	Aug, 22 2020	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
Provisions for free disposal of organic debris at Town Transfer Station after significant storm events and one free day each spring	Yes	Ongoing	Provided for residents by Physical Services Department to properly dispose of debris
2021 Metropolitan District Commission (MDC) Household Hazardous Waste Collection held at Wethersfield High School	Yes	June 5, 2021	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
2021 Free Paper Shredding Event	Yes	Oct,16 2021	Coordinated by Town Social Services and Physical Services Departments
Revisions to 2017 Stormwater Management Plan announced to public	Yes	December 2021	Included in weekly Town Manager's Report and posted at <a href="https://wethersfieldct.gov/content/398/408/499.aspx">https://wethersfieldct.gov/content/398/408/499.aspx</a>
2022 Spring Cleanup Day	Yes	May 14 2022	Town sponsored event to help residents dispose of debris properly
2023 Yard Clean Up Day	Yes	Apr, 22 2023	Town sponsored event to help residents dispose of debris properly
2023 MDC Household Hazardous Waste Collection	Yes	Jun, 24 2023	Coordinated by MDC & Town Physical Services Department for proper disposal of hazardous waste
2023 Free Paper Shredding Event	Yes	Oct, 28 2023	Coordinated by Town Social Services and Physical Services Departments

### 3. Illicit Discharge Detection and Elimination (SMP Table 6 & MS4 Permit 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	Date Completed or Projected Completion Date	Additional Details
Develop Written IDDE Program	Complete	Staff continually reviews the existing plan for required updates	Complete written plan for IDDE program	Engineering Department / D. Gregor (Town Engineer)	July 2018	June 2020	Available to the public at Town Hall and the Town's web page at <a href="https://wethersfieldct.gov/engineering">https://wethersfieldct.gov/engineering</a>

<b>BMP</b>	<b>Status</b>	<b>Activities in Current Reporting Period</b>	<b>Measurable Goal</b>	<b>Department / Person Responsible</b>	<b>Due Date</b>	<b>Date Completed or Projected Completion Date</b>	<b>Additional Details</b>
Develop Citizen Reporting Program	Complete	Staff has developed standards for the public to report suspected IDDE	Develop a convenient way for the public to report suspected IDDE	Engineering Department / L. Burroughs (Eng. Tech)	July 2018	July 2018	Phone number and email contact information provided in informational brochure and on town webpage.
Develop Record Keeping System for IDDE Tracking	Complete	A spreadsheet/database has been developed by staff to track all IDDE from initial report to final resolution	Develop and maintain spreadsheet/data base to track all reported IDDE	Engineering Department / L. Burroughs (Eng. Tech)	July 2018	December 2017	IDDE spreadsheet/database will be maintained by staff
Review and Update Legal Authority to Prohibit Illicit Discharges	Complete	Staff confirmed existence of Town Ordinance for Illicit Discharge	Provide authority to resolve IDDE occurrences immediately	Engineering Department / D. Gregor (Town Engineer)	July 2018	December 2017	Town Ordinance Chapter 141, Article I, Illicit Discharges and Connections to Stormwater Drainage System <a href="https://ecode360.com/8362678">https://ecode360.com/8362678</a>
Develop List and Map all MS4 Stormwater Outfalls throughout Municipality	Complete	GIS database and mapping has been developed to identify outfall locations	Complete inventory of all stormwater system outfalls	Engineering Department / L. Burroughs (Eng. Tech)	July 2019	July 2019	All known MS4 Stormwater Outfalls are located on GIS Mapping with individual identification numbers corresponding to the database
Detailed MS4 Infrastructure Mapping in Priority Areas	Complete	GIS database and mapping has been developed to identify drainage infrastructure within Priority Areas	Complete inventory of stormwater system in Priority Areas	Engineering Department / L. Burroughs (Eng. Tech)	July 2020	July 2019	The entire drainage system is shown in GIS Mapping with an associated database, which will be continually updated as new information becomes available
Identify IDDE in Areas with Pollutants of Concern	Ongoing	Annual wet and dry weather sampling was performed by Weston & Sampson	Identify potential sources of pollution	Engineering Department / D. Gregor (Town Engineer)	July 2020	Ongoing	In 2018, UConn students assisted staff with IDDE investigations and identified Hartford as the source of high counts at location M1-214002. Unusually high counts in other locations in 2021 may be due to samples collected during significant rainfall events when MDC sanitary sewers were surcharging. 2023 results will be compared to 2022 data to determine the extent of watershed investigation required.

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

Review of wet and dry weather sampling results and identification of additional investigations required.

Continue to manage citizen reporting procedures and maintain master IDDE tracking spreadsheet.

Investigate upstream drainage systems where elevated pollutant levels were encountered during wet weather sampling.

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

Date of Report	Location / Suspected Source	Response Taken
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### 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)
226 Longvue Dr. *	7-Jan-12	No	500 (gal)	Debris / MDC	MDC Sewer crew responded	
71 Surrey Dr. *	23-Jan-12	No	3 (gal)	Jet Truck Hose Cleaning / MDC	MDC Sewer crew responded	
23 Churchill Rd *	17-Feb-12	No	1 (gal)	Jet Truck Hose Cleaning / MDC	MDC Sewer crew responded	
540 Ridge Rd *	15-Mar-12	No	2 (gal)	Jet Truck Hose Cleaning / MDC	MDC Sewer crew responded	
268 Crest St. *	11-May-12	No	2000 (gal)	Debris / MDC	MDC Sewer crew responded	
29 Byrd Rd. *	16-May-12	No	10 (gal)	Issue with sewer lateral / MDC	MDC Sewer crew and Inspector responded	
134 Colman Rd. *	20-Feb-13	No	35 (gal)	CIPP Lining Project	Contractor mitigated situation	
138 Coleman Rd. *	5-Mar-13	No	4 (gal)	CIPP Lining Project	Contractor mitigated situation	
7 Railroad Place *	8-Jun-13	No	N/A	Weather / MDC	MDC Emergency crew responded	
288 & 272 Crest St. *	16-Nov-13	No	1500 (gal)	Grease / MDC	MDC Sewer crew responded	
Church St. *	1-May-14	No	<1000 (gal)	Capacity Limitations / MDC	None, surcharge flows must recede to normal operating level	

<b>Location</b> (Lat-Long/ street crossing / address and receiving water)	<b>Date and Duration of Occurrence</b>	<b>Discharge to MS4 or Surface Water</b>	<b>Estimated Volume Discharged</b>	<b>Known or Suspected Cause / Responsible Party</b>	<b>Corrective Measures Planned and Completed</b> (include dates)	<b>Sampling Data</b> (if applicable)
226 Longvue Dr. *	6-Apr-16	No	350 (gal)	Debris / MDC	MDC Sewer crew responded	
Marsh Street Pump Station*	18-Aug-16	No	<100 (gal)	Force Main Break / MDC	MDC Sewer crew responded, repaired force main	
780 Wolcott Hill Rd *	21-Feb-17	No	1 (gal)	Jet Truck Hose Cleaning / MDC	MDC Sewer crew responded	
135 Robbins Dr. *	29-Apr-17	No	15 (gal)	Jet Truck Hose Cleaning / MDC	MDC Sewer crew responded	
58 Monticello Drive / 1860 Reservoir	10/25/2017	No	Negligible	Automobile Leak	Vehicle has been repaired and is no longer parked where leaks could enter a catch basin.	
Wells Road east of Spring Street	4/16/2018	No	>1000 (gal)	Extreme Rain / MDC	None, surcharge flows receded to normal operating level after rain event	
125 Mill Street	3/28/2019	No	1 (gal)	Equipment Failure/ MDC	Contractor cleaned spill	
Ridge Road *	12/14/2019	No	10 (gal)	Debris / MDC	MDC Sewer crew responded and removed blockage	
1885 Berlin Turnpike	8/17/2020	Yes	500+/- (gal)	MVA	Collision between multiple trucks cause heavy fire in conjunction with leaking fuel. Burning fuel flowed into storm drainage system causing additional fires downstream. Fire damaged overhead electrical conductors and necessitated limited evacuations. Contaminate did make it to outfall and was removed by DEEP with future monitoring by DEEP	
Near 214 Church Street	12/25/2020	Yes	>1000 (gal)	Extreme Rain Event / MDC	None, surcharge flows receded to normal operating level after rain event	
Near 214 Church Street	9/1/2021	Yes	>1000 (gal)	Extreme Rain Event / MDC	None, surcharge flows receded to normal operating level after rain event	
Prospect Street	4/2/2021	Yes	<25 (gal)	Debris / MDC	Sewer crew responded and cleared blockage	
Wells Road at Spring Street	9/3/2021	Yes	<1000 (gal)	Capacity Limitations / MDC	Sewer crew responded and cleared blockage	
75 Pondside Drive	7/7/2022	yes	<500 (gal)	Resident emptied Koi pond filled with blue dye into Stormsewer	The FD flushed the storm drains but unfortunately Goff Brook will have a blue tint to it until all the dye has been diluted.	

<b>Location</b> (Lat-Long/ street crossing / address and receiving water)	<b>Date and Duration of Occurrence</b>	<b>Discharge to MS4 or Surface Water</b>	<b>Estimated Volume Discharged</b>	<b>Known or Suspected Cause / Responsible Party</b>	<b>Corrective Measures Planned and Completed</b> (include dates)	<b>Sampling Data</b> (if applicable)
34 Main Street*	1/20/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
282-284 Silas Deane HWY*	2/17/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
47 Grandview Terrace*	3/18/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
27 Hillcrest Avenue*	4/18/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
149 Garden Street*	3/24/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
63 Stillman Road*	3/25/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
80 Reed Drive*	4/5/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
442 Prospect Street*	6/14/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
67 Nott Street*	8/4/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
75 Parkview Drive*	9/2/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
103 Parkview Drive*	9/2/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
159 Nott Street*	10/4/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
41 Woodland Street*	6/24/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
8 Meggat Park*	10/1/2022	No	N/A	Foundation Drain	Cut & Cap drainage & install sump pump. Added check valves.	
8 Meggat Park*	10/31/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
126 Valley Crest Drive*	11/9/2022	No	N/A	Combined Sewer	MDC team eliminated combined sewer & Installed sump pump with check valve	
20 Morrison Avenue*	12/20/2022	No	N/A	Foundation Drain	Cut & Cap drainage & install sump pump. Added check valves.	
77 Clearfield Road*	2/15/2023	No	N/A	Foundation Drain	Cut & Cap drainage & install sump pump. Added check valves.	

<b>Location</b> (Lat-Long/ street crossing / address and receiving water)	<b>Date and Duration of Occurrence</b>	<b>Discharge to MS4 or Surface Water</b>	<b>Estimated Volume Discharged</b>	<b>Known or Suspected Cause / Responsible Party</b>	<b>Corrective Measures Planned and Completed</b> (include dates)	<b>Sampling Data</b> (if applicable)
76 Parkview Drive*	4/27/2023	No	N/A	Foundation Drain	Cut & Cap drainage & install sump pump. Added check valves.	
9 Avalon Place*	6/2/2023	No	N/A	Foundation Drain	Cut & Cap drainage & install sump pump. Added check valves.	
44 Goodwin Park Road*	9/13/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole in Church Street	9/25/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	
33 Harmund Place	9/25/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole in Wells Road @ Main Street	9/25/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole in Nott Street @ Beaver Brook	9/25/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	
1178 Silas Deane Highway	9/25/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
41 Deerfield Road	9/25/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
123 Dix Road	9/25/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
67 Lantern Lane	9/29/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
123 Dix Road	9/29/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
58 Stillman Road	9/29/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
61 Harmund Place	9/29/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole on Folly Brook at Nott Street	9/29/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole in Folly Brook Blvd.	9/29/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	
Manhole in Stockade Circle GIS2076849	9/30/2023	No	25,000	Capacity Limitations	Bypass is eliminated once flows recede	

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)
7 Hedgerow Street	9/30/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
546 Wells Road	10/4/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	
111 Whippoorwill Way	12/18/2023	No	< 100	Capacity Limitations	Bypass is eliminated once flows recede	

*\* Information provided by MDC*

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

A database is maintained to record each IDDE as an “Emergency Incident Report”. This form details the event from initial report to final resolution and is maintained 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
117 Maple Street	Septic system abandoned in 2023 as required by Planning & Zoning Commission for subdivision approval. (System was failing at time)	4010-00

**3.7 IDDE Reporting Metrics**

Metrics	
Estimated or actual number of MS4 outfalls	170
Estimated or actual number of interconnections	86 (estimated based on best available information to date)
Outfall mapping complete	100% (To our knowledge, All MS4 mapping is complete)
Interconnection mapping complete	100%
System-wide mapping complete (detailed MS4 infrastructure)	100%

Metrics	
Outfall assessment and priority ranking	100% (Only in lowest basins discharging directly to the CT River)
Dry weather screening of all High and Low priority outfalls complete	100%
Catchment investigations complete	15%
Estimated percentage of MS4 catchment area investigated	15%

**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).**

Engineering Department staff are reminded at least annually to look for and identify potential IDDE during completion of MS4 related tasks and general operations.

**4. Construction Site Runoff Control (SMP Table 7 & MS4 Permit Section 6(a)(4) / Page 25)**

**4.1 BMP Summary**

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Upgrade and Enforce Land Use Regulations to Meet MS4 General Permit Requirements	Complete	MS4 requirements, were previously incorporated into the P&Z and IWCC Regulations approved by Commissions.	Finalize and adopt Zoning and Inland Wetlands and Conservation Commission Regulation updates	Engineering Department / D. Gregor (Town Engineer)	July 2019	IWCC Sept 2020 P&Z Dec 2020	Updates will also be added to Subdivision Regulations as appropriate
Continue Interdepartmental Coordination of Site Plan Review and Approval	Complete	All Town Departments conducted site plan reviews (as applicable) and held meetings/coordinated as needed prior to issuance of permits	Continued use of standardized review procedures	Engineering Department / D. Gregor (Town Engineer) & L. Burroughs (Eng. Tech)	July 2017	Ongoing BMP	Site plan applications are typically reviewed by the Planning Dept., Engineering Department, ZEO and Fire Marshall

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Continue Performing Construction Site Inspections	Complete	Staff conducted site inspections throughout construction to ensure conformance with approved plans	Continued site inspections throughout construction period	Engineering Department / Construction Manager	July 2017	Ongoing BMP	Engineering Department staff is primarily responsible; however, the ZEO and other staff members also perform inspections as needed
Maintain Procedures to Allow Public Comment on Site Development	Complete	Local Commission meeting schedules and agendas were published, and all meetings were open to the public	Continued publishing of meeting info and responding to questions/concerns from the public	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	Staff is available to respond to questions and concerns during the approval and construction process
Implement Procedure to Notify Developers and Contractors of Need for DEEP Construction General Permit	Complete	DEEP notification requirements were included in handouts for permit applications to local Commissions and also added to the Engineering Department page of the Town website	Continued distribution of requirements to permit applicants	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	Info is available at <a href="http://wethersfieldct.gov/content/398/408/499.aspx">http://wethersfieldct.gov/content/398/408/499.aspx</a>
Enforce Waste Collection Requirements	Complete	Staff inspected site conditions during construction to ensure waste was properly managed	Continued site inspections for proper waste management	Engineering Department / Construction Manager	July 2017	Ongoing BMP	Engineering Department staff is primarily responsible; however, the ZEO and other staff members also perform inspections as needed
Enforce Contaminated / Hazardous Materials Requirements	Complete	Staff inspected site conditions during construction to ensure contaminated /hazardous materials were properly managed	Continued site inspections for proper material management	Engineering Department / Construction Manager	July 2017	Ongoing BMP	Engineering Department staff is primarily responsible; however, the ZEO and other staff members also perform inspections as needed

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

Continue applying MCMs required by the MS4 Permit.

DRAFT

## 5. Post-Construction Stormwater Management (SMP Table 8 & MS4 Permit Section 6(a)(5) / Page 27)

### 5.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Establish Legal Authority and Guidelines Regarding LID and Runoff Reduction in Site Planning	Complete	P&Z and Inland Wetlands and Conservation Commission Regulations were previously updated to include LID/Runoff Reduction	Finalize and adopt Zoning and Inland Wetlands and Conservation Commission Regulation updates	Engineering Department / D. Gregor (Town Engineer)	July 2021	IWCC Sept 2020 P&Z Dec 2020	Updates will also be added to Subdivision Regulations as appropriate
Promote LID/Runoff Reduction for Development and Redevelopment Projects	Complete	P&Z and Inland Wetlands and Conservation Commission Regulations were previously updated to include LID/Runoff Reduction	Finalize and adopt Zoning and Inland Wetlands and Conservation Commission Regulation updates	Staff has drafted updates to the Zoning and Inland Wetlands and Conservation Commission Regulations to include LID/Runoff Reduction	July 2019	July 2020	Updates will also be added to Subdivision Regulations as appropriate
Complete DCIA Mapping for all MS4 Outfalls	Complete	Staff utilized DCIA maps from UConn CLEAR to finalize mapping	Identify DCIA that contributes to runoff at MS4 outfalls	Engineering Department / D. Moisa (Operations Coordinator)	July 2020	December 2019	DCIA has been calculated for each basin
Implement Long-Term Maintenance Plan for Stormwater Basins and Treatment Structures	N/A	N/A	Implement Maintenance Plans for Town-owned facilities and Private Developments	Physical Services / S. Katz (Dir. of Physical Services) & Engineering Department / D. Gregor (Town Engineer)	July 2019	N/A	The Town does not own any detention basins or treatment structures at this time; however, plans for maintenance will be developed in the future if needed.

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Address Post-Construction Issues in Areas with Pollutants of Concern	Areas are continually being evaluated		Prioritize areas for DCIA retrofits based on conditions during annual inspections	Engineering Department / D. Gregor (Town Engineer)	July 2020	Ongoing	No E&S issues have been identified in these areas; however, they will be continually monitored.

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

Areas with pollutants of concern will be continually monitored by staff.

**5.3 Post-Construction Stormwater Management Reporting Metrics**

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	351 acres
DCIA disconnected this year (redevelopment plus retrofits, acres this year / acres total)	0.402 Ac / 1.482 Ac
Retrofits completed	2
Percentage of DCIA disconnected since 2012 (% this year / % total since 2012)	0.022% / 0.082%
Estimated cost of retrofits	Unknown
Detention or retention ponds identified (# this year /# total)	3 / 8 constructed (from Jan 2017 to Dec 2023)

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

Baseline DCIA has been determined using impervious cover information throughout Town provided by UConn CLEAR/NEMO, the Sutherland Equations and general knowledge of the area.

## 6. Pollution Prevention/Good Housekeeping (SMP Table 9 & MS4 Permit Section 6(a)(6) / Page 31)

### 6.1 BMP Summary

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Continue Formal Employee Training Program	Complete	Employee training/direction on standard operating procedures was held on an ongoing basis throughout year	Continued training to increase awareness of water quality issues	Physical Services / S. Katz (Dir. of Physical Services) & Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	Procedures such as spill response, reporting issues observed in the field and general guidelines are reviewed with staff during 'tailgate' meetings
Implement Infrastructure Repair and Rehab Program	Complete	Staff is maintaining lists of local bridges/culverts and other drainage system issues, which require repairs that will be addressed as funding allows.	Development of a Program to record drainage system deficiencies and complete repairs	Physical Services / S. Katz (Dir. of Physical Services) & Engineering Department / D. Gregor (Town Engineer)	July 2020	November 2019	See additional information below.
Document Projects that Disconnect DCIA	Complete	Spreadsheet has been maintained to record all disconnected DCIA and track total impervious area	Development of record-keeping system for tracking disconnected DCIA in Town	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	All development and redevelopment applications must include a standard table identifying pre- and post-construction Impervious Area and Disconnected Impervious Area
Disconnect DCIA through Retrofit Projects	Ongoing	2023 Paving Programs had multiple areas where impervious pavement areas were eliminated	Identify potential retrofit sites within MS4 Priority Areas and complete retrofit projects	Engineering Department / D. Gregor (Town Engineer)	July 2021	Ongoing BMP	Redesign of the intersections of Main Street and Hartford Avenue, the intersection of Main Street and State Street and the intersection of Garden Street at Nott Street along with a reconstruction of Wolcott Hill Road from Jordan Lane to the Hartford City

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
							line provided a gain of pervious area of about 0.402 Acres.
Implement Property and Operations Maintenance Procedures – Parks and Open Space	Complete	<ul style="list-style-type: none"> <li>• Application of slow release fertilizer reduced from 2x to 1x per year</li> <li>• Fertilizer applied in June during dry season</li> <li>• Soil testing of ball fields completed annually</li> <li>• Fertilizers are stored in enclosed cabinets/sheds</li> <li>• Supervisors hold Pesticide Licenses and appropriate staff have Applicator Licenses</li> <li>• Staff removes trash receptacles from Town parks and buildings</li> <li>• Residents are notified when containers are delivered not to put grass clippings &amp; leaves in trash barrels</li> </ul>	Implement procedures for maintaining Town properties, parks and other facilities to minimize discharge of pollutants to MS4	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	Town collects curbside leaves annually and transports them to a stockpile yard for composting/mulching, and uses a vehicle wash bay located within the Town Garage that has DEEP-approved wash water controls

<b>BMP</b>	<b>Status</b>	<b>Activities in Current Reporting Period</b>	<b>Measurable Goal</b>	<b>Department / Person Responsible</b>	<b>Due Date</b>	<b>Date Completed or Projected Completion Date</b>	<b>Additional Details</b>
Implement Property and Operations Maintenance Procedures – Pet Waste Management	Complete	<ul style="list-style-type: none"> <li>• Parks have stations with bag dispensers for collecting pet waste</li> <li>• Bag dispensers are refilled weekly</li> <li>• Signs are posted to pick up after pets</li> </ul>	Reduce potential sources of bacteria entering stormwater from pet waste	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	
Implement Property and Operations Maintenance Procedures – Waterfowl Management	Complete	<ul style="list-style-type: none"> <li>• Town previously conducted “light therapy”, installed decoys and all-natural grass sprays to keep geese away from Mill Woods Swimming Pond.</li> <li>• ‘No Feeding’ signs are present at Spring St Pond</li> </ul>	Reduce waste, vermin and bacteria associated with congregating water fowl	Parks & Recreation / Kathy Bagley (Dir. of Parks & Recreation)	July 2018	Ongoing BMP	Additional ‘Do Not Feed Waterfowl’ signs have been installed in areas where waterfowl congregate such as Wethersfield Cove, Mill Woods Park, Spring St Pond and Cloverdale Pond

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
Implement Property and Operations Maintenance Procedures – Town Buildings and Facilities	Complete	<ul style="list-style-type: none"> <li>• Staff previously completed Globally Harmonized System (GHS) Training for Hazard Communication</li> <li>• SWPPP for Physical Services Facility has been implemented</li> <li>• Parking lots at Town facilities are periodically swept to remove pollutants</li> <li>• Staff removes trash receptacles from Town parks and buildings</li> <li>• Staff cleans and maintains Transfer Station area, which is only operational during limited hours</li> </ul>	Continue proper maintenance of Town facilities in accordance with DEEP requirements	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	Town Fire department and Physical Services are aware of federal & state regulations regarding spill control.
Implement Property and Operations Maintenance Procedures – Vehicles and Equipment	Complete	<ul style="list-style-type: none"> <li>• Vehicle wash bay at the Physical Services Facility has DEEP-approved wash water controls with drains that discharge to a holding tank.</li> <li>• All leaks are cleaned immediately with proper disposal of associated material</li> <li>• Full-time Fleet Maintenance staff are available to</li> </ul>	Continue proper maintenance of Town vehicles and equipment in accordance with DEEP requirements	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	The Town Fire Department and Physical Services are knowledgeable regarding federal & state regulations for spill control. The Town Fire Department and DEEP are notified of significant leaks (5 gal or greater) as required.

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
		repair vehicle leaks when needed					
Implement Property and Operations Maintenance Procedures – Leaf Management	Complete	<ul style="list-style-type: none"> <li>• Town provides a curbside leaf collection program each fall</li> <li>• Residents can also bring leaves to the Transfer Station</li> <li>• All leaf material is composted by the Town</li> </ul>	Continue to offer services for proper disposal of leaves to minimize discharge stormwater	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	Town offers free disposal of organic debris after severe storm events
Continue Street Sweeping Program	Complete	All local roads were swept from April to May 2023	Continued annual sweeping of all Town-owned roads	Physical Services / S. Katz (Dir. of Physical Services)	July 2017	Ongoing BMP	Work in 2020, 2021, 2022 & 2023 completed by Nickel Site Services, LLC, collected material is typically organic (not sand)
Continue Catch Basin Cleaning Program	Complete	Approx. 71% of Town-owned catch basins were cleaned and 8.2% were formally inspected	Continued annual cleaning & inspection of all Town-owned catch basins	Physical Services / S. Katz (Dir. of Physical Services)	July 2017	Ongoing BMP	Work in 2020, 2021, 2022 & 2023 completed by Nickel Site Services, LLC, who also completed inspection reports that were used to schedule repairs as needed
Snow Management Practices - Deicing Material Management	Complete	<ul style="list-style-type: none"> <li>• Automated salt application equipment was used to manage application rates (no brine was stored and applied by Town)</li> <li>• Town previously installed a new salt</li> </ul>	Continued use of Standard Operating Procedures and BMPs for deicing material management	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	Town has demolished old wooden, lean-to salt shed

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
		storage shed at the Physical Services Facility, which is at a higher elevation with respect to the FEMA flood plain					
Snow Management Practices – Snow and Ice Control Practices	Complete	<ul style="list-style-type: none"> <li>Automated salt application equipment (zero velocity spreaders) were used to manage application rates</li> <li>Excess snow is stockpiled at the Town yard along Jordan Lane and within parking lots along Greenfield St and Mill Woods Park as needed</li> </ul>	Continued use of Standard Operating Procedures and BMPs for snow and ice control practices	Physical Services / S. Katz (Dir. of Physical Services)	July 2018	Ongoing BMP	Town treats approx. 105 miles of local roads and typically applies 250-275 tons of rock salt per storm event (Town does not apply brine)
Coordinate with Interconnected MS4s	Complete	Town has identified all interconnected MS4s with neighboring Towns and CT DOT	Identified locations of interconnected MS4s and sharing annual report information with associated owners	Engineering Department / D. Gregor (Town Engineer)	July 2020	July 2020	86 total interconnections identified to date (estimated to be 84 with the State and 2 with Rocky Hill)
Implement Program to Control Other Sources of Pollutants to MS4	Completed	All proposed development was reviewed for stormwater management, water quality and potential pollution sources during PZC & IWCC applications	Continue to control potential pollutant sources through plan reviews, citizen input and site inspections	Engineering Department / D. Gregor (Town Engineer)	July 2017	Ongoing BMP	All new developments and many retrofit projects (depending on scope) are required to provide stormwater treatment in accordance with the 2004 CT Stormwater Quality Manual, which assist in controlling pollution
Implement Additional Measures for Discharge to Impaired Waters	Completed	No funding available for projects	Implementation of retrofit/source management	Engineering Department / D. Gregor	July 2020	Ongoing BMP	In 2020 UConn students conducted sampling and testing to confirm that the

BMP	Status	Activities in Current Reporting Period	Measurable Goal	Department / Person Responsible	Due Date	Date Completed or Projected Completion Date	Additional Details
			projects for bacterial impairment as funding allows	(Town Engineer)			City of Hartford was the source of bacterial impairment at Outfall #M1-214002 (bacteria & fecal coliform >24,200) The City and MDC were notified of the Town's findings and asked to address the source of contamination

**Extra space for describing above BMP activities, if needed:**

BMP	
Implement Infrastructure Repair and Rehab Program	The Physical Services Dept. is currently using Facility Dude as a work order and reporting system for these repairs. In addition, DOT recently screened local bridges (culverts) to identify those that require further inspections, which was to be completed by a consultant in 2020, and staff obtained funds to complete dam repairs at Mill Woods Park in Town.
Catch Basin Inspection	Nickel Site Services, LLC was retained to inspect catch basins as they are cleaned and associated reports have been used to establish priorities for catch basin maintenance and repair.
Disconnect DCIA through Retrofit Projects	2021 - Approximately 3 ft of road width was eliminated along Highland St from the Rocky Hill town line to Thornbush Rd and east to Highcrest (0.228 Ac)
Disconnect DCIA through Retrofit Projects	2022 – Redesign of intersection of Broad Street and Marsh Street and the intersection of Broad Street and Middletown Avenue provided a gain of pervious area of about 0.0126 Acres.
Disconnect DCIA through Retrofit Projects	2023 - Redesign of the intersections of Main Street and Hartford Avenue, the intersection of Main Street and State Street and the intersection of Garden Street at Nott Street along with a reconstruction of Wolcott Hill Road from Jordan Lane to the Hartford City line provided a gain of pervious area of about 0.402 Acres.

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

All new catch basin tops installed are engraved with “DRAINS TO WATERWAY”.
Continue catch basin inspections and repairs, and investigations of illicit discharge to MS4

**6.3 Pollution Prevention/ Good Housekeeping Reporting Metrics**

Metrics						
	2018	2019	2020	2021	2022	2023
Employee training provided for key staff	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program	Staff continues to attended MS4 permit seminars/webinars and is actively involved in managing the MS4 Program
<b>Street Sweeping</b>						
Curb miles swept	209.2 miles incl. State roads (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles incl. State roads (104.6 miles paved roads & 3.3 miles of unimproved roads)	104 Miles of Local Roads	104 Miles of Local Roads	104 Miles of Local Roads	104 Miles of Local Roads
Volume (or mass) of material collected	Approx. 300 tons (est)*	Approx. 600 tons (est)*	Approx. 400 tons (est)*	400 CY (est)*	400 CY (est)*	333 CY (est)*
<b>Catch Basin Cleaning</b>						
Total catch basins in priority areas	To be determined	3,161 (135 in lowest basins near CT River)	3,161	3,161	3,161	3,170
Total catch basins in MS4	3,161	3,161	3,161	3,161	3,161	3,170

Catch basins inspected	3,161***	2,805***	152****	75	259	109
Catch basins cleaned	3,161	2,805**	1156	1500	2,250	1,830
Volume (or mass) of material removed from all catch basins	Unknown	Approx. 600 tons (est)*	Approx. 400 tons (est)*	400 CY (est)*	400 CY (est)*	320 CY (est)*
Volume removed from catch basins to impaired waters (if known)	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown
<b>Snow management</b>						
Type(s) of deicing material used	Rock Salt	Rock Salt	Rock Salt	Rock Salt	Rock Salt	Rock Salt
Total amount of each deicing material applied	2,221 tons	2,048 tons	1,200 tons	2,066 tons	1,643 tons	1,016 tons
	2018	2019	2020	2021	2022	2023
Type(s) of deicing equipment used	Trucks	Trucks	Trucks	Trucks	Trucks	Trucks
Lane-miles treated	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)	209.2 miles (104.6 miles paved roads & 3.3 miles of unimproved roads)
Snow disposal location	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)	Jordan Lane Stockpile Yard (located west of the Berlin Tpke)
Staff training provided on application	Staff is informed of and follows standard operating procedures	Staff is informed of and follows standard operating procedures	Staff is informed of and follows standard operating procedures	Staff is informed of and follows standard operating procedures	Staff is informed of and follows standard operating procedures	Staff is informed of and follows standard operating procedures

methods & equipment						
<b>Municipal turf management program actions (for permittee properties in basins with N/P impairments)</b>						
Reduction in application of fertilizers (since start of permit)	(6000 lb in 2017) – (5100 lb in 2018) = 900 lb reduction (Approx.)	(5100 lb in 2018) – (4500 lb in 2019) = 600 lb reduction (Approx.)	(12,000 lb in 2020)-(4500 lb in 2019) = 7500 lb increase (Approx.) due to 2 applications instead of one	12,000 lbs used in 2021 for 2 applications = No reduction	12,000 lbs used in 2022 for 2 applications = No reduction	12,000 lbs used in 2023 for 2 applications = No reduction
Reduction in turf area (since start of permit)	0.0 Acres	0.0 Acres	0.0 Acres	0.0 Acres	0.0 Acres	0.0 Acres
<b>Lands with high potential to contribute bacteria (dog parks, parks with open water, &amp; sites with failing septic systems)</b>						
Cost of mitigation actions/retrofits	Estimated Cost = \$1,000 All parks have stations with bag dispensers for collecting dog waste (refilled weekly) and signs to pick up after pets, and Town has conducted “light therapy”, installed decoys and all-natural grass sprays to keep geese away from Mill Woods Swimming Pond. Town has installed additional “No Feeding” signs in areas where waterfowl congregate, which are paid for with Operating Funds.					

\* *Estimated by the Town’s contractor and Physical Services Dept.*

\*\* *Approx. 89% of Town-owned catch basins were cleaned and inspected in 2019; however, the contractor had issues removing some structure frames and remaining work continued into 2020*

\*\*\* *Catch basin inspections were informal and based on routine cleaning operations*

\*\*\*\* *Catch basin inspections in 2020, 2021, 2022 & 2023 include formal inspections of structures in priority areas with conditions documented on inspection logs*

#### 6.4 Catch basin cleaning program

<b>Provide any updates or modifications to your catch basin cleaning program</b>
The Physical Services Department ensures all Town-owned catch basins are cleaned and inspected annually as soon as practical after the winter season by a private contractor and system repairs are completed as needed.
2020: 152 catch basin inspections were completed.
2021: 75 catch basin inspections were completed
2022: 259 catch basin inspections were completed

2023: 109 catch basin inspections were completed

## 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.**

All new and redevelopment projects in Town are encouraged to minimize impervious cover, to direct as much runoff as possible towards pervious areas on the site and to treat runoff prior to entering the MS4 system.

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

All new and redevelopment projects in Town are encouraged to minimize impervious cover, to direct as much runoff as possible towards pervious areas on the site and to treat runoff prior to entering the MS4 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**

Continue encouraging all new and redevelopment projects in Town to minimize impervious cover, to direct as much runoff as possible towards pervious areas on the site and to treat runoff prior to entering the MS4 system.

## Part II: Impaired Waters Investigation and Monitoring

### 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.**

1. 2018 - Consultant employed to sample and test 19 outfalls discharging to the Connecticut River (only impaired watercourse in Town). Results indicated that 16 outfalls exceeded the maximum Enterococci Bacteria threshold and 8 outfalls exceeded the Fecal Coliform threshold as noted below.
2. 2019 to 2020 - UConn students assisted staff with IDDE investigations, sampling for discharges of concern and identifying options for retrofit projects at outfall location M1-214002 that had the highest contaminant levels. In addition, the investigations determined that the City of Hartford was the source of bacterial impairment. The City and MDC were notified and are investigating the source(s). The CT DMV facility at 60 State St was also notified of high bacteria and coliforms results at their private outfall mistakenly tested in our screening.
3. 2020 - Wet and dry weather sampling was performed by Weston & Sampson with lab work performed by Phoenix Environmental Laboratories. Results of sampling are being examined by staff and the consultant, and notable findings will be investigated for cause.
4. 2021 - Wet and dry weather sampling was performed by Weston & Sampson with lab work performed by Phoenix Environmental Laboratories. Results of sampling were higher than past years, which was likely due to them being collected during severe rainfall events when MDC sewers were overflowing. Results for 2022 will be compared to identify extent of additional investigation required.
5. 2022 - Wet and dry weather sampling was performed by Weston & Sampson with lab work performed by Phoenix Environmental Laboratories. Results of sampling are being examined by staff and the consultant, and notable findings will be investigated for cause.
6. 2023 - Wet and dry weather sampling was performed by Weston & Sampson with lab work performed by Phoenix Environmental Laboratories. Results of sampling are being examined by staff and the consultant, and notable findings will be investigated for cause.

## 2. Screening Data for Outfalls to Impaired Waterbodies (Section 6(i)(1) / page 41)

### 2.1 Screening data collected under 2017 Permit

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data. <b>Outfall ID</b>	<b>Latitude / Longitude</b>		<b>Allowable Parameter(s)</b> (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	<b>Results</b>	<b>Name of Laboratory (if used) *</b>	<b>Follow-up required?</b>
M1-214002	41°43'40.563"N 72°40'2.295"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 24,200 Fecal Coliforms >24,200	Phoenix Environmental Laboratories, Inc.	Yes  Yes
M1-251020	41°43'19.426"N 72°39'17.115"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 1,790 Fecal Coliforms 52	Phoenix Environmental Laboratories, Inc.	Yes  No
M1-250026A	41°43'12.778"N 72°39'15.765"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 19,900 Fecal Coliforms 4,350	Phoenix Environmental Laboratories, Inc.	Yes  Yes
M1-250026	41°43'12.66"N 72°39'15.634"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,780 Fecal Coliforms 41	Phoenix Environmental Laboratories, Inc.	Yes  No
M1-258005	41°43'16.984"N 72°39'4.454"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 1,720 Fecal Coliforms 52	Phoenix Environmental Laboratories, Inc.	Yes  No
M1-259004	41°43'9.925"N 72°39'2.438"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 2,050 Fecal Coliforms 74	Phoenix Environmental Laboratories, Inc.	Yes  No
M1-259005	41°43'8.784"N 72°39'2.108"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 350 Fecal Coliforms 41	Phoenix Environmental Laboratories, Inc.	No  No

M1-261001	41°42'53.973"N 72°39'1.79"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 6,870 Fecal Coliforms 6,870	Phoenix Environmental Laboratories, Inc.	Yes  Yes
M1-286004A	41°42'56.481"N 72°38'53.423"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 10 Fecal Coliforms 10	Phoenix Environmental Laboratories, Inc.	No  No
M1-286004	41°42'56.591"N 72°38'53.377"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 4,110 Fecal Coliforms 836	Phoenix Environmental Laboratories, Inc.	Yes  Yes
M1-285001B	41°42'44.547"N 72°38'42.509"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 455 Fecal Coliforms 41	Phoenix Environmental Laboratories, Inc.	No  No
M1-262010	41°42'42.546"N 72°38'52.167"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,260 Fecal Coliforms 1,380	Phoenix Environmental Laboratories, Inc.	Yes  Yes
B5-242002	41°41'56.919"N 72°39'17.49"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 4,610 Fecal Coliforms 250	Phoenix Environmental Laboratories, Inc.	Yes  No
B5-279001	41°41'54.135"N 72°38'41.733"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 645 Fecal Coliforms 63	Phoenix Environmental Laboratories, Inc.	Yes  No
B5-269005	41°41'40.282"N 72°39'3.095"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 4,610 Fecal Coliforms 345	Phoenix Environmental Laboratories, Inc.	Yes  Yes
B5-270026	41°41'31.875"N 72°39'0.519"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,260 Fecal Coliforms 52	Phoenix Environmental Laboratories, Inc.	Yes  No
B5-271039	41°41'26.718"N 72°38'54.569"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 1,660 Fecal Coliforms 63	Phoenix Environmental Laboratories, Inc.	Yes  No

B5-272009	41°41'12.068"N 72°38'58.861"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,080 Fecal Coliforms 281	Phoenix Environmental Laboratories, Inc.	Yes  Yes
B5-272009A	41°41'10.194"N 72°38'58.36"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,650 Fecal Coliforms 393	Phoenix Environmental Laboratories, Inc.	Yes  Yes

\* Phoenix Environmental Laboratories, Inc., 587 East Middle Tpke, P.O. Box 370, Manchester CT 06045

## 2.2 Credit for screening data collected under 2004 permit

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

\*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"> <li>E. coli &gt; 235 col/100ml for swimming areas or 410 col/100ml for all others</li> <li>Total Coliform &gt; 500 col/100ml</li> </ul>
Bacteria (salt waterbody)	<ul style="list-style-type: none"> <li>Fecal Coliform &gt; 31 col/100ml for Class SA and &gt; 260 col/100ml for Class SB</li> <li>Enterococci &gt; 104 col/100ml for swimming areas or 500 col/100 for all others</li> </ul>
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	Status of Drainage Area Investigation	Control Measure Implementation to Address Impairment
M1-214002	Completed in 2020	Bacterial impairment coming from City of Hartford who is investigating the source and addressing impairment
M1-251020	To be scheduled	TBD
M1-250026A	To be scheduled	TBD
M1-250026	To be scheduled	TBD
M1-258005	To be scheduled	TBD
M1-259004	To be scheduled	TBD
M1-261001	To be scheduled	TBD
M1-286004	To be scheduled	TBD
M1-262010	To be scheduled	TBD
B5-242002	To be scheduled	TBD
B5-279001	To be scheduled	TBD
B5-269005	To be scheduled	TBD
B5-270026	To be scheduled	TBD
B5-271039	To be scheduled	TBD
B5-272009	To be scheduled	TBD
B5-272009A	To be scheduled	TBD

#### 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	Latitude / Longitude	Sample Date **	Allowable Parameter(s)	Results	Name of Laboratory (if used) *
M1-214002	41°43'40.57"N 72°40'2.284"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 24,200 Fecal Coliforms > 24,200	Phoenix Environmental Laboratories, Inc.,
M1-250026A	41°43'13.463"N 72°39'16.157"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 19,000 Fecal Coliforms 4,350	Phoenix Environmental Laboratories, Inc.,
M1-261001	41°42'53.939"N 72°39'2.945"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 6,870 Fecal Coliforms 6,870	Phoenix Environmental Laboratories, Inc.,
B5-269005	41°41'40.316"N 72°39'3.078"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 4,610 Fecal Coliforms 345	Phoenix Environmental Laboratories, Inc.,
B5-272009A	41°41'8.41"N 72°38'57.235"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,650 Fecal Coliforms 393	Phoenix Environmental Laboratories, Inc.,
M1-262010	41°42'42.566"N 72°38'52.147"W	12/21/2018	Enterococci Bacteria <500 Fecal Coliforms <260	Enterococci Bacteria 3,260 Fecal Coliforms 1,380	Phoenix Environmental Laboratories, Inc.,

\* Phoenix Environmental Laboratories, Inc., 587 East Middle Tpke, P.O. Box 370, Manchester CT 06045

\*\* Initial 2018 Sample Data is provided, these outfalls have been sampled annually during subsequent years (See Part III, Section 2.2 below)

## 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).

Catchment ID (DEEP Basin ID)	Category	Rank
4005	High Priority	1
4000	High Priority	2
4010	High Priority	3
<b>Note:</b> These rankings were determined from outfall locations where wet weather stormwater sampling and testing conducted in 2018 identified high pollutant concentrations. Remaining catchments will be prioritized when additional information is available in those areas.		

### 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.

Outfall / Interconnection ID	Latitude / Longitude	Screening / Sample Date	NH <sub>3</sub>	Ch	Conductivity	Salinity	E. coli or enterococcus	Total Coliforms	Water Temp	Pollutant of Concern	If required, follow-up actions taken
* M1-214002	41°43'40.57"N 72°40'2.284"W	8/17/2020	N/A	N/A	N/A	N/A	-	-	N/A	Bacteria	TBD
M1-250026	41°43'12.66"N 72°39'15.634"W	8/17/2020	N/A	N/A	N/A	N/A	20	8660	N/A	Bacteria	TBD
*M1-261001	41°42'53.973"N 72°39'1.79"W	8/17/2020	N/A	N/A	N/A	N/A	-	-	N/A	Bacteria	TBD
*M1-286004	41°42'56.591"N	8/17/2020	N/A	N/A	N/A	N/A	-	-	N/A	Bacteria	TBD

Outfall / Interconnection ID	Latitude / Longitude	Screening / Sample Date	NH <sub>3</sub>	Ch	Conductivity	Salinity	E. coli or enterococcus	Total Coliforms	Water Temp	Pollutant of Concern	If required, follow-up actions taken
	72°38'53.377"W										
*B5-242002	41°41'56.919"N 72°39'17.49"W	8/17/2020	N/A	N/A	N/A	N/A	-	-	N/A	Bacteria	TBD
*B5-269005	41°41'40.282"N 72°39'3.095"W	8/17/2020	N/A	N/A	N/A	N/A	-	-	N/A	Bacteria	TBD
M1-250026	41°43'12.66"N 72°39'15.634"W	9/8/2021	N/A	N/A	N/A	N/A	20	8660	N/A	Bacteria	TBD

\* No Flow from Outfall

## 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	Latitude / Longitude	Screening / Sample Date	NH <sub>3</sub>	Ch	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of Concern	If required, follow-up actions taken
M1-214002	41°43'40.563"N 72°40'2.295"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	IDDE investigations are ongoing
M1-251020	41°43'19.426"N 72°39'17.115"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-250026A	41°43'12.778"N 72°39'15.765"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-250026	41°43'12.66"N 72°39'15.634"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-258005	41°43'16.984"N 72°39'4.454"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD

<b>Outfall / Interconnection ID</b>	<b>Latitude / Longitude</b>	<b>Screening / Sample Date</b>	<b>NH<sub>3</sub></b>	<b>Ch</b>	<b>Conductivity</b>	<b>Salinity</b>	<b>E. coli or Enterococcus</b>	<b>Surfactants</b>	<b>Water Temp</b>	<b>Pollutant of Concern</b>	<b>If required, follow-up actions taken</b>
M1-259004	41°43'9.925"N 72°39'2.438"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-261001	41°42'53.973"N 72°39'1.79"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-286004	41°42'56.591"N 72°38'53.377"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-262010	41°42'42.546"N 72°38'52.167"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-242002	41°41'56.919"N 72°39'17.49"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-279001	41°41'54.135"N 72°38'41.733"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-269005	41°41'40.282"N 72°39'3.095"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-270026	41°41'31.875"N 72°39'0.519"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-271039	41°41'26.718"N 72°38'54.569"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-272009	41°41'12.068"N 72°38'58.861"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
B5-272009A	41°41'10.194"N 72°38'58.36"W	12/21/18	N/A	N/A	N/A	N/A	Yes	N/A	N/A	Bacteria	TBD
M1-214002	41°43'40.57"N 72°40'2.284"W	8/7/2020	N/A	N/A	N/A	N/A	>24200	N/A	N/A	Bacteria	TBD
M1-250026	41°43'12.66"N 72°39'15.634"W	8/7/2020	N/A	N/A	N/A	N/A	465	N/A	N/A	Bacteria	TBD
M1-261001	41°42'53.973"N 72°39'1.79"W	9/2/2020	N/A	N/A	N/A	N/A	1500	N/A	N/A	Bacteria	TBD

<b>Outfall / Interconnection ID</b>	<b>Latitude / Longitude</b>	<b>Screening / Sample Date</b>	<b>NH<sub>3</sub></b>	<b>Ch</b>	<b>Conductivity</b>	<b>Salinity</b>	<b>E. coli or Enterococcus</b>	<b>Surfactants</b>	<b>Water Temp</b>	<b>Pollutant of Concern</b>	<b>If required, follow-up actions taken</b>
M1-286004	41°42'56.591"N 72°38'53.377"W	9/2/2020	N/A	N/A	N/A	N/A	5170	N/A	N/A	Bacteria	TBD
B5-242002	41°41'56.919"N 72°39'17.49"W	9/2/2020	N/A	N/A	N/A	N/A	650	N/A	N/A	Bacteria	TBD
B5-269005	41°41'40.282"N 72°39'3.095"W	9/1/2021	N/A	N/A	N/A	N/A	3190	N/A	N/A	Bacteria	TBD
M1-214002	41°43'40.57"N 72°40'2.284"W	9/1/2021	N/A	N/A	N/A	N/A	> 48400	N/A	N/A	Bacteria	TBD
B5-242002	41°41'56.919"N 72°39'17.49"W	8/19/2021	N/A	N/A	N/A	N/A	2150	N/A	N/A	Bacteria	TBD
697	41°41'5.051"N 72°39'2.527"W	9/1/2021	N/A	N/A	N/A	N/A	4450	N/A	N/A	Bacteria	TBD
452	41°41'59.458"N 72°39'16.523"W	9/1/2021	N/A	N/A	N/A	N/A	15400	N/A	N/A	Bacteria	TBD
M1-261001	41°42'53.973"N 72°39'1.79"W	8/19/2021	N/A	N/A	N/A	N/A	> 48400	N/A	N/A	Bacteria	TBD
M1-286004	41°42'56.591"N 72°38'53.377"W	8/19/2021	N/A	N/A	N/A	N/A	242	N/A	N/A	Bacteria	TBD
M1-250026	41°43'12.66"N 72°39'15.634"W	8/9/2021	N/A	N/A	N/A	N/A	1350	N/A	N/A	Bacteria	TBD
M1-286004	41°42'56.591"N 72°38'53.377"W	10/24/2022	N/A	N/A	N/A	N/A	2240	N/A	N/A	Bacteria	TBD
M1-261001	41°42'53.973"N 72°39'1.79"W	10/24/2022	N/A	N/A	N/A	N/A	20900	N/A	N/A	Bacteria	TBD
B5-242002	41°41'56.919"N 72°39'17.49"W	10/24/2022	N/A	N/A	N/A	N/A	1870	N/A	N/A	Bacteria	TBD
452	41°41'59.458"N 72°39'16.523"W	10/24/2022	N/A	N/A	N/A	N/A	2290	N/A	N/A	Bacteria	TBD

Outfall / Interconnection ID	Latitude / Longitude	Screening / Sample Date	NH <sub>3</sub>	Ch	Conductivity	Salinity	E. coli or Enterococcus	Surfactants	Water Temp	Pollutant of Concern	If required, follow-up actions taken
M1-214002	41°43'40.57"N 72°40'2.284"W	10/24/2022	N/A	N/A	N/A	N/A	> 48400	N/A	N/A	Bacteria	TBD
697	41°41'5.051"N 72°39'2.527"W	10/24/2022	N/A	N/A	N/A	N/A	2240	N/A	N/A	Bacteria	TBD
M1-214002	41°43'40.57"N 72°40'2.284"W	8/7/2023	N/A	N/A	N/A	N/A	> 48400	N/A	N/A	Bacteria	TBD
B5-242002	41°41'56.919"N 72°39'17.49"W	8/7/2023	N/A	N/A	N/A	N/A	2190	N/A	N/A	Bacteria	TBD
697	41°41'5.051"N 72°39'2.527"W	8/7/2023	N/A	N/A	N/A	N/A	>24200	N/A	N/A	Bacteria	TBD
M1-261001	41°42'53.973"N 72°39'1.79"W	8/7/2023	N/A	N/A	N/A	N/A	3440	N/A	N/A	Bacteria	TBD
M1-286004	41°42'56.591"N 72°38'53.377"W	8/7/2023	N/A	N/A	N/A	N/A	11200	N/A	N/A	Bacteria	TBD
452	41°41'59.458"N 72°39'16.523"W	8/7/2023	N/A	N/A	N/A	N/A	933	N/A	N/A	Bacteria	TBD

### 3. 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
M1-214002	Connecticut River	6,10
M1-251020	Connecticut River	6,10
M1-250026A	Connecticut River	10
M1-250026	Connecticut River	6,10
M1-258005	Connecticut River	6,10

Outfall ID	Receiving Water	System Vulnerability Factors
M1-259004	Connecticut River	6,10
M1-261001	Connecticut River	6,10
M1-286004	Connecticut River	6,10
M1-262010	Connecticut River	2,6,10
B5-242002	Connecticut River	6,10
B5-279001	Connecticut River	6,10
B5-269005	Connecticut River	10
B5-270026	Connecticut River	6,10
B5-271039	Connecticut River	-
B5-272009	Connecticut River	6,10
B5-272009A	Connecticut River	6,10

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

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

### 3.3 Wet Weather Investigation Outfall Sampling Data

Outfall ID	Latitude	Longitude	Sample date	Ammonia (mg/l)	Chlorine (mg/l)	Surfactants (mg/l)
See Part II, Section 2.1						

### 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
<p>High bacteria count detected at outfall M1-214002 was determined by GIS mapping and field investigation to be a result of sanitary cross connections in Hartford. Hartford and MDC were notified of the sampling and investigation results, and asked to address the source.</p> <p>MDC did review the Town of Wethersfield (TOW) screening sample. The TOW sample was taken on December 21, 2018 during a 2.3" + rain event equivalent to a 1-year storm. As a result of the storm event, the MDC Franklin Avenue Combined Sewer Overflow (CSO) regulators were activated due to the size of the storm, which discharges to the 72" Franklin Avenue Storm Drain, that required MDC to open the DEEP permitted CSO regulator F-5 which discharges to the Wethersfield outfall #M1-214002. Normally, the MDC CSO regulators are closed.</p> <p>MDC performed a follow-up dry weather sampling event at the Wethersfield outfall #M1-214002 on August 24, 2020. Prior to sampling, MDC visually confirmed that CSO regulator F-5 had no flow and was closed. Additionally, it was identified that there was a significant flow at the Wethersfield outfall. MDC grabbed an outfall sample during this dry weather and the outfall sample results measured fecal coliform at &gt;2,420 mpn/100ml. Based on MDC's investigation the source of the elevated bacteria is unknown. MDC had provided this information to the City of Hartford in April 2022.</p> <p>MDC suggests that additional dry weather investigation sampling is performed in conjunction with the City of Hartford to identify the source of bacteria.</p>							

## 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:

Print name:

Frederick J. Presley, Town Manager

Derrick Gregor, P.E., Town Engineer

Signature / Date:

Signature / Date: