

MS4 General Permit  
Town of Windsor 2020 Annual Report  
Existing MS4 Permittee  
Permit Number GSM 000066  
January 1, 2020 – December 31, 2020

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

**Part I: Summary of Minimum Control Measure Activities**

**1. Public Education and Outreach (Section 6 (a)(1) / page 19)**

**1.1 BMP Summary**

| BMP   | Status  | Activities in current reporting period   | Measurable goal   | Department / Person Responsible | Due     | Date completed | Additional details  |
|---|---------|--|---|---------------------------------|---------|----------------|---|
| 1-1 Implement public education and outreach               | Ongoing | Stormwater Management information and educational material available on the Town’s website | Distribute/Post stormwater information on Town’s website                  | Engineering                     | Ongoing | Ongoing        | <a href="https://townofwindsorct.com/engineering/stormwater-management/">https://townofwindsorct.com/engineering/stormwater-management/</a> |
| 1-2 Address education/ outreach for pollutants of concern | Ongoing | Stormwater Management information and educational material available on the Town’s website | Distribute/Post educational materials on pollutants of concern (Bacteria) | Engineering                     | Ongoing | Ongoing        | <a href="https://townofwindsorct.com/engineering/stormwater-management/">https://townofwindsorct.com/engineering/stormwater-management/</a> |

|  |          |   |   |          |               |                |   |
|--|----------|---|---|----------|---------------|----------------|---|
| 1-3 Annual Farmington River Watershed Association River Clean-up Event | Complete | Clean-up event held as part of CT River Conservancy's Source-to-Sea Cleanup | Hold annual Clean-up Event                      | Wetlands | Not Specified | September 2020 |   |
| 1-4 Household Hazardous Waste Collection                               | Complete | Household Hazardous Waste collection events sponsored by The MDC            | Educate and provide hazardous waste collections | DPW      | Ongoing       | 08/29/2020     | Windsor residents may participate in any MDC sponsored collection day |

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

- Update the Town Website with additional Stormwater educational materials
- Continue Household Hazardous Waste Collection Events
- Continue to participate in community clean-up events
- Continue to replace catch basin tops with "Drains to Waterway" labelling

**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.      |
|---|---|---|--|--|
| Source-to-Sea Cleanup                         | Citizens of Windsor                       | General Pollutants, Illegal dumping                 | General  | Farmington River Watershed Association |
| Informational Material posted on Town Website | Citizens of Windsor                       | Pet Waste, Water Fowl, Fertilizer, Impervious Cover | Bacteria, Nitrogen, Phosphorous                | Engineering                            |
| Household Hazardous Waste Collection Event    | Citizens of Windsor/ Local Municipalities | General Pollutants, Illegal dumping                 | General  | MDC                                    |

## 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               | Additional details  |
|---|----------|--|---|---------------------------------|--|------------------------------|---|
| 2-1 Final Stormwater Management Plan publicly available       | Complete | Electronic copy posted on the Town's website. Hard copies available at the Engineering department front desk in Town Hall.                         | Make Stormwater Management Plan available to citizens | Engineering                     | 04/03/2017   | 04/03/2017                   | <a href="https://townofwindsorct.com/app/uploads/sites/8/2018/06/Final_Windsor_Stormwater_Plan_2017.pdf">https://townofwindsorct.com/app/uploads/sites/8/2018/06/Final_Windsor_Stormwater_Plan_2017.pdf</a> |
| 2-2 Comply with public notice requirements for Annual Reports | Complete | Legal notice published. Electronic copy posted on the Town's website. Hard copies available at the Engineering department front desk in Town Hall. | Make annual report available to citizens              | Engineering                     | Public Notice Published - 01/31/2021<br><br>Annual Report Available - 02/15/2021 | 01/31/2021<br><br>02/15/2021 | <a href="https://townofwindsorct.com/engineering/stormwater-management/">https://townofwindsorct.com/engineering/stormwater-management/</a>   |

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

- Continue to make Stormwater Plan, Annual Report, and educational materials available to citizens

### 2.3 Public Involvement/Participation reporting metrics

| Metrics  | Implemented | Date       | Posted  |
|--|-------------|------------|---|
| Availability of the Stormwater Management Plan to public | Yes         | 01/31/2021 | <a href="https://townofwindsorct.com/app/uploads/sites/8/2018/06/Final_Windsor_Stormwater_Plan_2017.pdf">https://townofwindsorct.com/app/uploads/sites/8/2018/06/Final_Windsor_Stormwater_Plan_2017.pdf</a> |
| Availability of Annual Report announced to public        | Yes         | 02/15/2021 | <a href="https://townofwindsorct.com/engineering/stormwater-management/">https://townofwindsorct.com/engineering/stormwater-management/</a>   |

### 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 | Additional details   |
|--|-------------|---|--|---------------------------------|---------------|----------------|--|
| 3-1 Develop written IDDE program   | Complete    | Town has adopted Written IDDE program using the CT IDDE program template  | Develop written plan of IDDE program   | Engineering                     | 07/01/2018    | 07/01/2018     |  |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas | Complete    | Town continues a QA/QC process of reviewing GIS system and editing as necessary.                                  | Locate, document, and prioritize outfalls in areas of concerns                       | Engineering                     | 07/01/2019    | 03/20/2018     | Mapping and data will continue to be updated as outfalls are tested/repared/etc.       |
| 3-3 Implement citizen reporting program                                    | Complete    | Citizen's may report Illicit Discharges through See-Click-Fix, the Town's online reporting system                 | Utilize citizen reporting program for identification of potential illicit discharges | Engineering                     | Ongoing       | Ongoing        | Citizens may report illicit discharges as they would report other concerns to The Town |
| 3-4 Establish legal authority to prohibit illicit discharges               | Complete    | Illicit Discharges and Connections prohibited under Chapter 3 Article X of The Town of Windsor Code of Ordinances | Identify legal authority in written IDDE Program                                     | Engineering                     | 07/01/2018    | 09/08/2009     |  |
| 3-5 Develop record keeping system for IDDE tracking                        | Complete    | Town continues to maintain a list of reports that include IDDE.   | Maintain a record of IDDE reports and actions  | Engineering                     | 07/01/2017    | 09/13/2017     |  |
| 3-6 Address IDDE in areas with pollutants of concern                       | In Progress | None  | Wet weather testing and additional investigation as necessary                        | Engineering                     | Not specified | Ongoing        |  |

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

- The written program will be posted to the Dept of Public works webpage and a link listed in next year's Annual Report
- Resume Wet/Dry weather screening and sampling in 2021
- Illicit discharges will continue to be investigated and eliminated, as they are discovered
- Maintain master IDDE tracking spreadsheet and ensure all employees involved in IDDE program understand the logging process

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

| Date of Report | Location / suspected source  | Response taken  |
|----------------|--|---|
| 06/03/2020     | 110 Ethan Drive / Resident suspected discharge of chemical substance | Confirmed coloring in water was tracing dye used to evaluate system. No illicit discharge occurred. |

**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            | 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)   |
|---------------------|---------------------------------|-----------------------------------|-----------------------------|--|---|
| *22 Lepage Road     | 01/06/2012                      | Unknown                           | 1.0                         | Jet Truck Hose Cleaning                      | Lower Jet hose line pressure  |
| *8 Maude Circle     | 01/17/2012                      | Unknown                           | 1.0                         | Jet Truck Hose Cleaning                      | Lower Jet hose line pressure  |
| *12 Maude Circle    | 01/17/2012                      | Unknown                           | 1.0                         | Jet Truck Hose Cleaning                      | Lower Jet hose line pressure  |
| *20 Maude Circle    | 01/17/2012                      | Unknown                           | 1.0                         | Jet Truck Hose Cleaning                      | Lower Jet hose line pressure  |
| *67 Giddins Avenue  | 01/17/2012                      | Unknown                           | 1.0                         | Jet Truck Hose Cleaning                      | Lower Jet hose line pressure  |
| *560 Windsor Ave    | 10/20/2012                      | Unknown                           | 1,000.0                     | Debris                                       | Sewer Crew used equipment to relieve stoppage<br>Regular maintenance of main sewer  |
| *35 Capen Street    | 01/22/2013                      | Unknown                           | 25.0                        | Debris                                       | Sewer Crew used equipment to relieve stoppage<br>Regular maintenance of main sewer  |
| *879 Bloomfield Ave | 03/31/2014                      | Yes                               | 210.0                       | Collapsed Black Pipe                         | Sewer Crew repaired collapsed sewer.<br>CCTV Inspection of pipes of similar age and material in the vicinity is conducted |

|                                      |            |     |         |                         |  |
|--------------------------------------|------------|-----|---------|-------------------------|--|
| *879 Bloomfield Ave                  | 05/01/2014 | No  | 5.0     | Collapsed Black Pipe    | Sewer Crew repaired collapsed sewer.<br>CCTV Inspection of pipes of similar age and material in the vicinity is conducted  |
| *38 Elm Street                       | 12/28/2014 | No  | 30.0    | Debris                  | Sewer Crew cleared blockage of the main sewer<br>Regular maintenance of main sewer   |
| *39 Rainbow Creek Drive              | 04/26/2015 | No  | <100    | Debris                  | Sewer Crew cleared blockage of the main sewer<br>Regular maintenance of main sewer   |
| *36 Green Manor/<br>6 London Road    | 10/15/2015 | No  | 15.0    | Debris                  | Sewer Crew cleared blockage of the main sewer<br>Regular maintenance of main sewer   |
| *High Path Road                      | 10/14/2016 | No  | 1,500.0 | Grease Clog             | Main sewer flushed by jet truck and stoppage relieved<br>Regular maintenance of main sewer   |
| *34 Hayden Ave                       | 04/06/2017 | No  | 10.0    | Debris                  | Main sewer flushed by jet truck and stoppage relieved<br>Regular maintenance of main sewer   |
| *Ridge St Pump Station               | 01/18/2018 | Yes | 10,000  | Differential Settlement | Forced main break repaired by sewer crew<br>Regular maintenance of main sewer  |
| *East Street                         | 04/12/2020 | No  | 100     | Debris                  | Sewer Crew cleared blockage of the main sewer<br>Regular maintenance of main sewer   |
| 80 International Drive               | 06/24/2020 | Yes | 3000    | Debris – Private System | Sewer line flushed by jet truck and stoppage relieved<br>Property owner instructed to inspect/clean impacted catchbasins and any downstream pipe/structures that received flow |
| *SSO information provided by The 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.**

- Citizens can report an illicit discharge through the Town’s website via the “See-Click-Fix” program
- An IDDE tracking form is available to all trained employees
- All discharges are reported to the Engineering Department for determining parties responsible and mitigating solutions
- A list of IDDE occurrences 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 | Watershed | Impact        |
|--|--|-----------|---------------|
| 276 Palisado Ave   | Full Septic Repair/Replace                           |           | None Observed |
| 215 Rainbow Road   | Full Septic Repair/Replace                           |           | None Observed |
| 530 Prospect Hill Road                                       | Full Septic Repair                                   |           | None Observed |

|                      |                            |  |               |
|----------------------|----------------------------|--|---------------|
| 580 Park Ave         | Full Septic Repair/Replace |  | None Observed |
| 4 Spruce             | Full Septic Repair/Replace |  | None Observed |
| 8 Poplar             | Full Septic Repair/Replace |  | None Observed |
| 587 Prospect Hill Rd | Full Septic Repair/Replace |  | None Observed |
| 282 Hayden Station   | Full Septic Repair/Replace |  | None Observed |
| 71 Colonial Dr       | Full Septic Repair/Replace |  | None Observed |
| 292 Merriman         | Tank Replacement           |  | None Observed |
| 1045 Hillside Circle | Tank Replacement           |  | None Observed |
| 366 Kennedy Rd       | Tank Replacement           |  | None Observed |

### 3.7 IDDE reporting metrics

| Metrics  |         |
|--|---------|
| Estimated or actual number of MS4 outfalls                           | 577     |
| Estimated or actual number of interconnections                       | Unknown |
| Outfall mapping complete   | 100%    |
| Interconnection mapping complete                                     | Unknown |
| System-wide mapping complete (detailed MS4 infrastructure)           | 100%    |
| Outfall assessment and priority ranking                              | 100%    |
| Dry weather screening of all High and Low priority outfalls complete | 18      |
| Catchment investigations complete                                    | 0       |
| Estimated percentage of MS4 catchment area investigated              | 0%      |

**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).**

- Town staff has been educated about the illicit discharge ordinance since it was adopted in 2009
- New DPW employees are trained on IDDE by crew leaders
- A formal annual training plan is in progress to comply written IDDE

**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 | Additional details  |
|--|----------|--|--|---------------------------------|------------|----------------|---|
| 4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit | Complete | None   | Review and if necessary, update The Town’s Erosion & Sediment Control Ordinance (enacted in 2009) to ensure compliance with MS4 general permit | Engineering                     | 07/01/2019 | 07/01/2019     | Town ordinance requires an application for an Erosion & Sediment Permit be submitted and approved for all land disturbing activities greater than one-half acre in size   |
| 4-2 Develop and Implement plan for interdepartmental coordination in site plan review and approval                           | Ongoing  | Staff Development Team reviewed and/or approved Site Plan/Revision applications received in 2020 | Review of all Site Plans and Development Applications performed by the Staff Development Team  | Planning                        | Ongoing    | Ongoing        |   |
| 4-3 Review site plans for stormwater quality concerns  | Ongoing  | Staff Development Team reviewed and/or approved Site Plan/Revision applications received in 2020 | Review of all Site Plans and Development Applications performed by the Engineering Staff for   | Engineering                     | Ongoing    | Ongoing        | Zoning Regulations require conformance with the Town’s Stormwater Management Ordinance.<br><br>If a Stormwater Management Permit is required by the Stormwater Management |



|   |         |  |  |                      |         |         |  |
|---|---------|--|--|----------------------|---------|---------|--|
|   |         |  | stormwater quality concerns  |                      |         |         | Ordinance, evidence of an approved permit shall be a condition of approval for all zoning approvals required by the proposed development/activity.<br><br>For sites that do not require a Stormwater Management Permit, Section 3.6.1 of the Zoning Regulations outlines minimum requirements that must be met.  |
| 4-4 Conduct site inspections  | Ongoing | Completed/Documented necessary site inspections for all permitted development/redde volpment sites<br><br>Violations/Concerns documented and reported to applicants<br><br>Follow-up inspections performed | Conduct and documents site inspections   | Engineering/Wetlands | Ongoing | Ongoing | To obtain inspections, the applicant/permittee is responsible for notifying the Town Engineer at least two working days before the following: start of construction; completion of clearing limit demarcation; installation of sediment and erosion control measures; completion of site clearing; completion of rough grading; completion of final grading; close of construction season; completion of final landscaping; and removal of the sediment and erosion and control system<br><br>The permittee shall also make regular inspections and all inspections shall be documented in writing and submitted to the Town Engineer at the time interval specific in the approved permit.<br><br>Staff is able to enter the site to make inspections at any time they deem necessary |
| 4-5 Implement procedure to allow public comment on site development | Ongoing | Allowed Public review and comment of all open development applications   | Post applications online on the Planning Department webpage for public review<br><br>Record public comment on applications during the "Public Comment" portion of the Planning and | Planning             | Ongoing | Ongoing | If a site development is associated with special use approval, a public hearing is held during which the public may comment.<br><br>The Inland Wetlands and Watercourses Commission may also hold a public hearing on a site development application if there are wetlands on the property and it is determined there is public interest and/or a significant impact on the wetlands.  |

|  |         |   |   |          |         |         |  |
|--|---------|---|---|----------|---------|---------|--|
|  |         |   | Zoning Commission meeting                           |          |         |         |  |
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit | Ongoing | Notified developers about DEEP's construction stormwater permit during development application review | Develop/Implement a Site Development Plan Checklist | Planning | Ongoing | Ongoing | Registration under DEEP General Permit for Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities is required for issuance of Town Erosion & Sediment Control Permit |

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

- Continue to review and update ordinances and regulations to comply with the MS4 General Permit
- Continue interdepartmental coordination in Board Reviews, Permitting, and Approval of Land Disturbance Projects
- Continue administration of the Town's Erosion & Sediment Control Ordinance, Permit Applications, and Site Inspections

**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 | Additional details   |
|--|-------------|--|--|---------------------------------|------------|----------------|--|
| 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning | In Progress | None   | Adopt amended ordinance and/or regulations to be compliant with the MS4 general permit | Engineering                     | 07/01/2021 |                | In 2009, the Town adopted a Stormwater Management Ordinance and published a Town Stormwater Manual to meet the Post-Construction Stormwater Runoff requirements of the 2004 General Permit.                  |
| 5-2 Enforce LID/runoff reduction requirements for development and  | Ongoing     | Engineering review of site plans require consideration of disconnection and runoff reduction | Compliance with requirements enforced and tracked                                      | Engineering                     | Ongoing    | Ongoing        | Developers are required to execute an Inspection & Maintenance Agreement with Windsor Land Records Prior to Commencing work. The Inspection & Maintenance Agreement identifies the person(s) responsible and |

|   |             |  |  |                      |               |            |  |
|---|-------------|--|--|----------------------|---------------|------------|--|
| redevelopment projects  |             |  |  |                      |               |            | establishes a schedule for routine inspections and maintenance   |
| 5-3 Identify retention and detention ponds in priority areas                            | Complete    | Town staff researched and identified Town-owned basins. Several basins were re-established in 2019 in order to annually maintain based on long-term maintenance plans. | Develop/Maintain a list of all structural stormwater BMPs retention and detention ponds, swirl oncentrators, oil/grit separators, water quality wetlands or wales, etc.) approved on private and municipal property. | Engineering          | 07/01/2019    | 07/01/2019 |  |
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures | Ongoing     | Town staff researched and identified Town-owned basins. Several basins were re-established in 2019 in order to annually maintain based on long-term maintenance plans. | Create and inspection and maintenance plan for stormwater structures   | DPW                  | Ongoing       | Ongoing    | During the appropriate time of year and following permitting through Inland Wetlands, DPW has implemented ongoing maintenance to re-establish basins (if required based on overgrowth), and provide a mowing schedule consistent with best management practices. |
| 5-5 DCIA mapping  | Complete    | MS4 mapping updated with calculated DCIA values by basin   | Calculate DCIA by basin and document on MS4 mapping  | Engineering          | 07/01/2020    | 07/01/2020 | DCIA calculations completed using Sutherland Equations as outlined by UCONN CLEAR  |
| 5-6 Address post-construction issues in areas with pollutants of concern                | Not Started | None   | Prioritize areas where erosion or sedimentation problems are found during the annual inspections conducted under the long-term maintenance plan within DCIA retrofit program   | Planning/Engineering | Not specified |            |  |

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

- Adopt amended ordinance and/or regulation to include site development LID and runoff requirements
- Review/Update list of Town Owned detention basins
- Create amaintenance plan for stormwater basins and treatment structures
- Continue tracking DCIA reduction

**5.3 Post-Construction Stormwater Management reporting metrics**

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

| Metrics   |                                    |
|---|------------------------------------|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | 1339.63 acres *                    |
| DCIA disconnected (redevelopment plus retrofits)          | Unknown / 1339.63 acres            |
| Retrofit projects completed                               | Unknown                            |
| DCIA disconnected   | 0% this year / 0% total since 2012 |
| Estimated cost of retrofits                               | Unknown                            |
| Detention or retention ponds identified                   | # this year /# total               |
| *Based on DCIA Calculations per BMP 5-5                   |                                    |

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

The Town has calculated the baseline (2012) DCIA for each basin contributing stormwater runoff to its MS4 outfalls. The DCIA calculations were made according to guidance by the UCONN Center for Land Use, Education, and Research using the Sutherland Equations to estimate DCIA based on Total IC and land use for each basin.

## 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 | Additional details   |
|---|-------------|--|---|---------------------------------|---------------|----------------|--|
| 6-1<br>Develop/implement formal employee training program                       | Ongoing     | None   | Continue to provide on-the-job training to existing and new staff; review and revise training procedures as necessary | Public Works/ Engineering       | Ongoing       | Ongoing        | 2020 refresher course postponed due to COVID-19  |
| 6-2 Implement MS4 property and operations maintenance                           | Ongoing     | Implement property and operations maintenance plan   | Implement property and operations maintenance plan  | Public Works                    | Ongoing       | Ongoing        | Municipally-owned or operated properties, parks, and other facilities will be maintained so as to minimize the discharge of pollutants to the MS4. |
| 6-3 Implement coordination with interconnected MS4s                             | In Progress | Windsor will continue to coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas and stormwater control measures in the respective MS4s | Coordinate with interconnected MS4s   | Engineering                     | Not specified |                |  |
| 6-4 Develop/implement program to control other sources of pollutants to the MS4 | In Progress | Windsor will control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by a CTDEEP stormwater permit, through its IDDE and water quality monitoring programs and regulatory mechanisms                       | Identify Sources  | Wetlands                        | Not specified |                |  |

|   |             |  |   |                          |               |         |   |
|---|-------------|--|---|--------------------------|---------------|---------|---|
| 6-5 Evaluate additional measures for discharges to impaired waters*     | In Progress | On municipally-owned or -operated lands with a high potential to contribute bacteria to Mill Brook and the CT river, Windsor will develop, implement, prioritize, and evaluate potential funding sources for a retrofit or source management program to correct the problem(s) | Windsor will prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations | Engineering/<br>Wetlands | Not specified |         |   |
| 6-6 Track projects that disconnect DCIA                                 | Not Started | None   | Calculate/Track DCIA reductions   | Planning                 | Ongoing       |         | Track the total acreage of DCIA that is disconnected from the MS4 as a result of redevelopment or retrofit projects within the town.  |
| 6-7 Implement infrastructure repair/rehab program                       | Ongoing     | Continued repair and replacement repair of drainage infrastructure   | Prioritize and document Infrastructure repair and rehabilitation work   | Public Works             | 07/01/2021    | Ongoing | DPW reviews stormwater infrastructure repair/replacement needs annually to plan projects appropriately and as funded  |
| 6-8 Develop and implement plan to identify/prioritize retrofit projects | Not Started | None   | Develop retrofit project plan   | Engineering              | 07/01/2020    |         | Retrofit Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within a Priority Area. |
| 6-9 Implement retrofit projects to disconnect 2% of DCIA                | Not Started | None   | Implement and document retrofit projects  | Engineering              | 07/01/2022    |         |   |
| 6-10 Develop and implement street sweeping program                      | Ongoing     | Town wide street sweeping conducted every spring   | Develop and implement street sweeping program   | Public Works             | Ongoing       | Ongoing |   |
| 6-11 Develop and implement catch basin cleaning program                 | Ongoing     | Public Works utilizes a third-party vendor to clean approx. 1/3 of catch basins each year  | Develop and implement street Catchbasin cleaning program  | Public Works             | Ongoing       | Ongoing | Catch basin cleaning program was placed on hold while the Town reviews best management practices for storage of debris.   |

|  |         |   |   |              |         |         |  |
|--|---------|---|---|--------------|---------|---------|--|
| 6-12 Develop and implement snow management practices | Ongoing | Provide training for Municipal employees on winter roadway maintenance procedures | Develop/Implement snow management practices | Public Works | Ongoing | Ongoing |  |
|--|---------|---|---|--------------|---------|---------|--|

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

- Continue annual employee MS4 and snow management training
- Continue to monitor and vehicles and equipment for leaks
- Continue leaf pick up, pavement sweeping and catch basin cleaning
- Develop/implement retrofit plan and track disconnections

**6.3 Pollution Prevention/ Good Housekeeping reporting metrics**

| Metrics  |  |
|--|--|
| Employee training provided for key staff   | N – Postponed due to COVID-19                      |
| Street sweeping  |  |
| Curb miles swept   | 350 miles  |
| Volume (or mass) of material collected   | 190 tons   |
| Catch basin cleaning   |  |
| Total catch basins in priority areas (value will be less than or equal to total catch basins town or institution-wide) | 1320   |
| Total catch basins town- (or institution-) wide  | 4776   |
| Catch basins inspected   | 0 *  |
| Catch basins cleaned   | 0 *  |
| Volume (or mass) of material removed from all catch basins   | 0 Tons   |
| Volume removed from catch basins to impaired waters (if known)   | Unknown  |
| Snow management  |  |
| Type(s) of deicing material used   | Salt   |
| Total amount of each deicing material applied  | 2500 tons  |
| Type(s) of deicing equipment used  | Truck Mounted Spreaders, Broadcasters, and by Hand |
| Lane-miles treated (A lane-mile is a mile of roadway in a single driving lane)   | 350 miles  |
| Snow disposal location   | N/A  |
| Staff training provided on application methods & equipment   | Y - 12/08/2020                                     |

|  |     |
|--|-----|
| Municipal turf management program actions (for permittee properties in basins with N/P impairments)                      |     |
| Reduction in application of fertilizers (since start of permit)  | N/A |
| Reduction in turf area (since start of permit)   | N/A |
| Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) |     |
| Cost of mitigation actions/retrofits   | \$0 |

#### 6.4 Catch basin cleaning program

**Provide any updates or modifications to your catch basin cleaning program**

Windsor has developed a cleaning schedule that covers all municipally-owned catch basins every 3 years. Inspections will be documented through the use of a catch basin inspection form. Prioritize inspection and maintenance for municipally-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Windsor will clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, Windsor will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources.

\*Catch basin cleaning program was placed on hold while the Town reviews best management practices for the disposal of debris.

#### 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.**

Windsor will develop a Retrofit Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within a Priority Area. The Plan will include a process to identify and prioritize retrofit projects, a rationale for the selection of projects to be implemented, and the total acres of DCIA to be disconnected upon implementation



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

Written retrofit program in process

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

Written retrofit program in progress

**Part II: Impaired waters investigation and monitoring**

**1. Impaired waters investigation and monitoring program**

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

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

Nitrogen/ Phosphorus       Bacteria       Mercury       Other Pollutant of Concern

**1.2 Describe program status.**

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.

Monitoring Program was evaluated in 2020 and outfall screening/sampling is to begin in 2021.

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

**2.1 Screening data**

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

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

| Outfall ID | Sample date | E. Coli (col/100ml) | Total Coliform (col/100ml) | Outfall Turbidity (NTU) | Upstream Turbidity (NTU) | Name of Laboratory | 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 | Results | Name of Laboratory | Follow-up required? * |
|---------|-------------|-----------|---------|--------------------|-----------------------|
|         |             |           |         |                    |                       |
|         |             |           |         |                    |                       |
|         |             |           |         |                    |                       |

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

| Pollutant of concern        | Pollutant threshold  |
|-----------------------------|--|
| Nitrogen                    | Total N > 2.5 mg/l   |
| Phosphorus                  | Total P > 0.3 mg/l   |
| Bacteria (fresh waterbody)  | <ul style="list-style-type: none"> <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 ID | Status of drainage area investigation | Control measure to address impairment |
|------------|---------------------------------------|---------------------------------------|
|            |                                       |                                       |
|            |                                       |                                       |

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

Once outfall sampling has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

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

Part III: Additional IDDE Program Data

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

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

| <b>*Priority Ranking of DEEP basins in progress – See Attachment A</b> |          |      |                                 |          |      |                                 |          |      |
|--|----------|------|---------------------------------|----------|------|---------------------------------|----------|------|
| Catchment ID<br>(DEEP Basin ID)  | Category | Rank | Catchment ID<br>(DEEP Basin ID) | Category | Rank | Catchment ID<br>(DEEP Basin ID) | Category | Rank |
| 4100-11-1-L1   |          |      | 4300-52-1                       |          |      | 4321-03-1                       |          |      |
| 4300-50-1-L1   |          |      | 4000-00-4+R5                    |          |      | 4000-00-5+R1                    |          |      |
| 4300-51-1-L1   |          |      | 43000-48-1                      |          |      | 4321-00-1                       |          |      |
| 4100-06-1  |          |      | 4300-48-1-L1                    |          |      | 4321-00-2-R2                    |          |      |
| 4300-00-5+L5   |          |      | 4300-00-5+R25                   |          |      | 4300-00-5+R34                   |          |      |
| 4300-50-1  |          |      | 4300-54-1                       |          |      | 4300-00-5+R32                   |          |      |
| 4300-53-1  |          |      | 4300-00-5+R30                   |          |      | 4321-02-1                       |          |      |
| 4300-00-5+R26  |          |      | 4000-00-4+R6                    |          |      | 4321-00-2-R1                    |          |      |
| 4300-49-1-L1   |          |      | 4300-54-2-R1                    |          |      | 4300-58-1                       |          |      |
| 4000-11-1-L1   |          |      | 4300-00-5+R31                   |          |      | 4000-23-1                       |          |      |
| 4300-00-5+R27  |          |      | 4300-55-1                       |          |      | 4000-20-1                       |          |      |
| 4300-49-1  |          |      | 4300-00-5+L4                    |          |      | 4000-00-5+R2                    |          |      |
| 4300-51-1  |          |      | 4300-56-1                       |          |      | 4000-00-6+R1                    |          |      |
| 4300-00-5+R29  |          |      | 4300-57-1                       |          |      | 4000-22-1                       |          |      |
| 4300-50-2-R1   |          |      | 4404-00-2-L1                    |          |      | 4000-24-1                       |          |      |
| 4000-11-1  |          |      | 4321-01-1                       |          |      | 4000-22-2-R1                    |          |      |
| 4300-00-5+R28  |          |      | 4404-02-1                       |          |      | 4000-00-6+R2                    |          |      |
| 4300-52-1-L1   |          |      | 4321-00-1-L2                    |          |      | 4000-00-6+R3                    |          |      |
| 4000-00-4+R4   |          |      | 4300-00-5+R23                   |          |      | 4400-00-4-R1                    |          |      |
| 4000-11-2-R2   |          |      | 4321-03-1-l1                    |          |      | 4000-00-6+R4                    |          |      |
| 4000-12-1  |          |      | 4321-00-1-L1                    |          |      | 4000-24-2-R1                    |          |      |
| 4300-00-5+R24  |          |      | 4000-00-4+R7                    |          |      | 4000-25-1                       |          |      |
| 4000-16-1  |          |      | 4321-00-2-R3                    |          |      | 4000-26-1                       |          |      |

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

### 2.1 Dry weather screening and sampling data from outfalls and interconnections

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

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

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

### 2.2 Wet weather sample and inspection data

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

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

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

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

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

#### 3.1 System Vulnerability Factor Summary

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

| Outfall ID | Receiving Water | System Vulnerability Factors |
|------------|-----------------|------------------------------|
|            |                 |                              |
|            |                 |                              |
|            |                 |                              |

Where SVFs are:

1. History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
2. Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs.
3. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints.
4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
5. Common trench construction serving both storm and sanitary sewer alignments.
6. Crossings of storm and sanitary sewer alignments.
7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
8. Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
9. Areas formerly served by combined sewer systems.
10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).
12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

#### 3.2 Key junction manhole dry weather screening and sampling data

You may also attach a lab report with the same data rather than copying it to this table.

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

### 3.3 Wet weather investigation outfall sampling data

You may also attach a lab report with the same data rather than copying it to this table.

| Outfall<br>ID | Latitude /<br>Longitude | Sample date | Ammonia | Chlorine | Surfactants |
|---------------|-------------------------|-------------|---------|----------|-------------|
|               |                         |             |         |          |             |

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

| Discharge<br>location | Source location | Discharge<br>description | Method of discovery | Date of<br>discovery | Date of<br>elimination | Mitigation or enforcement<br>action | Estimated volume of flow<br>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:<br>Peter Souza   | Print name:<br>Jenna A.W. Zinky   |
| Signature / Date:<br> 3-22-21 | Signature / Date:<br> 03/26/2021 |
| Email:<br>Souza@townofwindsorct.com  | Email:<br>Zinky@townofwindsorct.com   |



## **Attachment A**

| Catchment ID | Receiving Water | Previous Screening Results Indicate Likely Sewer Input? <sup>1</sup> | Discharging to Area of Concern to Public Health? <sup>2</sup> | Frequency of Past Discharge Complaints | Receiving Water Quality <sup>3</sup> | Density of Generating Sites <sup>4</sup> | Age of surrounding development and infrastructure <sup>5</sup> | Historic Combined Sewers or Septic? <sup>6</sup> | Density of aging septic systems <sup>7</sup> | Culverted Streams? <sup>8</sup> | Est. DCIA >11% | Score | Priority Ranking | Notes             |
|--------------|-----------------|--|---|--|--------------------------------------|--|--|--|--|---------------------------------|----------------|-------|------------------|-------------------|
|              |                 | Yes = 3 (Problem Catchment) No = 0                                   | Yes = 3 (High Priority) No = 0                                | Frequent = 3 Occasional = 2 None = 0   | Poor = 3 Fair = 2 Good = 0           | High = 3 Medium = 2 Low = 1              | High = 3 Medium = 2 Low = 1                                    | Yes = 3 No = 0                                   | Yes = 3 No = 0                               | Yes = 2 No = 0                  |                |       |                  |                   |
| 0            | 4100-11-1-L1    | Stony Brook  | 0   | 0                                      | 0                                    | -  | -  | -  | -  | 0                               | 2              | 2     |                  |                   |
| 1            | 4300-50-1-L1    | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 2            | 4300-51-1-L1    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 3            | 4100-06-1       | Stony Brook  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 4            | 4300-00-5+L5    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 5            | 4300-50-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 6            | 4300-53-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 7            | 4300-00-5+R26   | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 8            | 4300-49-1-L1    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 9            | 4000-11-1-L1    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 10           | 4300-00-5+R27   | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 11           | 4300-49-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 12           | 4300-51-1       | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 13           | 4300-00-5+R29   | Farmington River   | 0   | 3                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 5     | High Priority    |                   |
| 14           | 4300-50-2-R1    | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 15           | 4000-11-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 16           | 4300-00-5+R28   | Farmington River   | 0   | 3                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 5     | High Priority    |                   |
| 17           | 4300-52-1-L1    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 18           | 4000-00-4+R4    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 19           | 4000-11-2-R2    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 20           | 4000-12-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 21           | 4300-00-5+R24   | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 22           | 4000-16-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 23           | 4300-52-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 24           | 4000-00-4+R5    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 25           | 43000-48-1      | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 26           | 4300-48-1-L1    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 27           | 4300-00-5+R25   | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 28           | 4300-54-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 29           | 4300-00-5+R30   | Farmington River   | 0   | 3                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 5     | High Priority    |                   |
| 30           | 4000-00-4+R6    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 31           | 4300-54-2-R1    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 32           | 4300-00-5+R31   | Farmington River   | 0   | 3                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 5     | High Priority    |                   |
| 33           | 4300-55-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 34           | 4300-00-5+L4    | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 2              | 4     |                  |                   |
| 35           | 4300-56-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 2              | 4     |                  |                   |
| 36           | 4300-57-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 37           | 4404-00-2-L1    | North Branch Park River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 38           | 4321-01-1       | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 39           | 4404-02-1       | North Branch Park River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 40           | 4321-00-1-L2    | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 41           | 4300-00-5+R23   | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 0              | 2     |                  |                   |
| 42           | 4321-03-1-L1    | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 43           | 4321-00-1-L1    | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 44           | 4000-00-4+R7    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 45           | 4321-00-2-R3    | Mill Brook   | 0   | 3                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 8     | High Priority    |                   |
| 46           | 4321-03-1       | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 47           | 4000-00-5+R1    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 48           | 4321-00-1       | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 49           | 4321-00-2-R2    | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 50           | 4300-00-5+R34   | Farmington River   | 0   | 3                                      | 0                                    | 2  | -  | -  | -  | -                               | -              | -     | High Priority    |                   |
| 51           | 4300-00-5+R32   | Farmington River   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 52           | 4321-02-1       | Mill Brook   | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 53           | 4321-00-2-R1    | Mill Brook   | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 54           | 4300-58-1       | Farmington River   | 0   | 0                                      | 0                                    | 2  | -  | -  | -  | 0                               | 2              | 4     |                  |                   |
| 55           | 4000-23-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 56           | 4000-20-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 57           | 4000-00-5+R2    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 58           | 4000-00-6+R1    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 59           | 4000-22-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 60           | 4000-24-1       | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 61           | 4000-22-2-R1    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 62           | 4000-00-6+R2    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 63           | 4000-00-6+R3    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 0              | 3     |                  |                   |
| 64           | 4400-00-4-R1    | Park River   | 0   | 0                                      | 0                                    | 0  | -  | -  | -  | 0                               | 0              | 0     |                  |                   |
| 65           | 4000-00-6+R4    | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 66           | 4000-24-2-R1    | Connecticut River  | 0   | 0                                      | 0                                    | 3  | -  | -  | -  | 0                               | 2              | 5     |                  |                   |
| 67           | 4000-25-1       | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |
| 68           | 4000-26-1       | Connecticut River  | -   | -                                      | -                                    | -  | -  | -  | -  | -                               | -              | -     | Excluded         | No MS4 Facilities |

1. Previous wet weather screening results indicate impacts to impaired waters including:

- Total Nitrogen >2.5 mg/L
- Total Phosphorus >0.3 mg/L
- E. Coli >235col/100 ml for swimming areas and >410 col/100 ml for all others
- Total Coliform >500 col/100 ml, or Fecal coliform >31 col/100ml for Class SA and >260 Col/100ml for Class SB
- Enterococci >104 col/100ml for swimming areas and >500 col/100ml for all others
- Turbidity at outfall is more than 5 NTU greater than the in-stream sample

Previous dry weather screening results indicate likely sewer input if any of the following are true:

- Olfactory or visual evidence of sewage,
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and bacteria levels greater than the water quality criteria applicable to the receiving water
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine

2. Catchments that discharge to or in the vicinity of any of the following areas: public beaches, recreational areas, drinking water supplies, or shellfish beds

3. Receiving water quality based on latest version of State of Connecticut Integrated Water Quality Report  
 Poor = Waters with approved TMDLs (Category 4a Waters) where illicit discharges have the potential to contain the pollutant identified as the cause of the impairment  
 Fair = Water quality limited waterbodies that receive a discharge from the MS4 (Category 5 Waters)

4. Generating sites are institutional, municipal, commercial, or industrial sites with a potential to contribute to illicit discharges (e.g., car dealers; car washes; gas stations; garden centers; and industrial manufacturing areas, etc.)

5. Age of development and infrastructure:

- High = Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old
- Medium = Developments 20-40 years old
- Low = Developments less than 20 years old

6. Areas once served by combined sewers that have been separated, or areas once served by septic that have been converted to sanitary sewers

7. Aging septic systems are systems 30 years or older in residential areas

8. Any river or stream that is culverted for distance greater than a simple roadway crossing