

MS4 General Permit  
Cheshire Correctional Institution 2018 Annual Report  
GSM000129  
April 1, 2018 – December 31, 2018

This report documents the Cheshire Correctional Institution efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from April 1, 2018 to December 31, 2018.

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

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

**1.1 BMP Summary**

| BMP   | Status               | Activities in current reporting period | Measurable goal  | Department / Person Responsible              | Due         | Date completed or projected completion date | Additional details   |
|---|----------------------|--|--|--|-------------|---|--|
| 1-1 Implement public education and outreach               | Not started/on-going |  | Develop/acquire materials<br>One message per year and topic area | CT DOC Facilities Management and Engineering | Jul 1, 2019 |   | UConn website<br><br>EPA Stormwater Outreach Tool Box<br><br>Rhode Island Stormwater Solutions |
| 1-2 Address education/ outreach for pollutants of concern | NA                   | NA                                     |  |  |             |   | No Direct Discharges to Impaired Waters  |

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

CT DOC will acquire educational materials to be used during the permit term from available sources such as CTDEEP, NEMO, EPA, COG. Materials will be posted, distributed, or otherwise disseminated in a manner to reach all staff and inmates.

**1.3 Details of activities implemented to educate the community on stormwater**

CT DOC will acquire educational materials to be used during the permit term from available sources such as CTDEEP, NEMO, EPA, COG. Materials will be posted, distributed, or otherwise disseminated in a manner to reach all staff and inmates.

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

**2.1 BMP Summary**

| BMP   | Status   | Activities in current reporting period    | Measurable goal                 | Department / Person Responsible              | Due          | Date completed or projected completion date | Additional details |
|---|----------|---|---------------------------------|--|--------------|---|--------------------|
| 2-1 Comply with public notice requirements for the Stormwater Management Plan | Complete | Public notice posted on internet web page | Public notice for SMP           | CT DOC Facilities Management and Engineering | Ongoing      | Apr 3, 2017                                 |                    |
| 2-2 Comply with public notice requirements for Annual Reports                 | Complete | Public notice posted on internet web page | Public notice for Annual Report | CT DOC Facilities Management and Engineering | Feb 15, 2019 | Feb 15, 2019 Draft<br>April 1, 2019 Final   |                    |

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

Continue to make the SMP available on-line and at a location for public review.  
 Continue to make the annual report available on-line and at a location for public review.  
 Continue to comply with Annual Report public notice requirements.

**2.3 Public Involvement/Participation reporting metrics**

| Metrics  | Implemented | Date   | Posted   |
|--|-------------|--------|--|
| Availability of the Stormwater Management Plan announced to public | Y           | 4/3/17 | 24 Wolcott Hill Rd,<br>Wethersfield<br><a href="http://www.ct.gov/doc/cwp/view.asp?a=1502&amp;Q=591480">http://www.ct.gov/doc/cwp/view.asp?a=1502&amp;Q=591480</a> |

|   |   |        |  |
|---|---|--------|--|
| Availability of Annual Report announced to public | Y | 4/1/19 | 24 Wolcott Hill Rd,<br>Wethersfield<br><a href="http://www.ct.gov/doc/cwp/view.asp?a=1502&amp;Q=591480">http://www.ct.gov/doc/cwp/view.asp?a=1502&amp;Q=591480</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 or projected completion date | Additional details               |
|----------------------------------|----------|---|----------------------|--|-------------|---|----------------------------------|
| 3-1 Develop written IDDE program | Complete | <p>GZA has prepared a comprehensive written Illicit Discharge Detection and Elimination (IDDE) Program applicable to the locations and areas classified as Priority Areas in the SMP. The written IDDE Program will include procedures and schedules for development and implementation of the following components:</p> <ul style="list-style-type: none"> <li>• Legal Authority to prohibit and eliminate illicit discharges</li> <li>• Statement of IDDE Program Responsibilities</li> <li>• Assessment and Priority Ranking of Catchments</li> <li>• Outfall and Interconnection Screening and Sampling <ul style="list-style-type: none"> <li>o Sample collection, use of field kits, storage/conveyance of samples, hold times, etc.</li> <li>o Develop a schedule and parameters for outfall and interconnection screening and sampling to begin 10/1/19</li> <li>o Develop a schedule and parameters for dry weather screening and sampling of every outfall and interconnection over the five-year permit term</li> </ul> </li> <li>• Catchment Investigations</li> <li>• IDDE/SSO Removal and Confirmation</li> <li>• Follow-up Screening</li> <li>• Illicit Discharge Prevention Procedures</li> </ul> | Written IDDE Program | CT DOC Facilities Management and Engineering | Jul 1, 2019 | 6/8/18                                      | Template posted on UConn website |

|   |                 |   |                                  |   |                    |                 |  |
|---|-----------------|---|----------------------------------|---|--------------------|-----------------|--|
| <p>3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas</p> | <p>Complete</p> | <p>GZA has developed a comprehensive list (in Microsoft Excel format) and maps (min 1"=2000', max 1"=100') of stormwater discharge (outfall) locations and interconnections utilizing available DOC facility drainage maps. Maps which are available in paper only (Bridgeport, Carl Robinson, MacDougall, and Osborn) will be scanned by GZA and locations of outfalls and interconnections digitized using ArcGIS. Latitude/longitude will be identified using ArcGIS. The maps and listing include the following information:</p> <ul style="list-style-type: none"> <li>• Type, material, size, and location (latitude and longitude) of conveyance, outfall, or channelized flow,</li> <li>• Name, water body ID and Surface Water Quality Classification of the immediate surface water body or wetland to which the outfall eventually discharges,</li> <li>• If the outfall does not discharge directly to a named water body, the name and water body ID of the nearest named water body to which the outfall eventually discharges, and</li> <li>• The name of the watershed, including the sub regional drainage basin number in which the discharge is located.</li> </ul> <p>Building upon the list and mapping GZA will conduct field investigations to confirm outfall and interconnection locations identified on the available mapping, and to potentially identify outfall locations not previously mapped. To the extent practical, the outfall mapping investigations will be performed in parallel with field screening investigations of each outfall and interconnection to confirm/identify the following information:</p> <ul style="list-style-type: none"> <li>• Unique identifier,</li> <li>• Receiving water,</li> <li>• Outfall type,</li> <li>• Date of most recent inspection,</li> <li>• Dimensions/size,</li> <li>• Shape,</li> </ul> | <p>List and Maps of Outfalls</p> | <p>CT DOC Facilities Management and Engineering</p> | <p>Jul 1, 2020</p> | <p>12/29/17</p> |  |
|---|-----------------|---|----------------------------------|---|--------------------|-----------------|--|

|  |             |   |  |  |               |  |  |
|--|-------------|---|--|--|---------------|--|--|
|  |             | <ul style="list-style-type: none"> <li>• Material,</li> <li>• Spatial location (latitude, longitude),</li> <li>• Physical condition, and</li> <li>• Indicators of potential non-stormwater discharges.</li> </ul> |  |  |               |  |  |
| 3-3 Implement citizen reporting program                      | In progress | The Citizen Reporting Program has been outlined in the Draft IDDE Plan prepared by GZA.   | Posting of program information, Number of reports, illicit discharges identified and corrected | CT DOC Facilities Management and Engineering | Jul 1, 2019   |  | Website, email, phone number                           |
| 3-4 Establish legal authority to prohibit illicit discharges | In progress | Establishing Legal Authority has been outlined in the Draft IDDE Plan prepared by GZA.  | Establish written procedures   | CT DOC Facilities Management and Engineering | Jul 1, 2019   |  | Checklist and sample ordinance posted on UConn website |
| 3-5 Develop record keeping system for IDDE tracking          | In progress | The IDDE Tracking Recordkeeping System has been outlined in the Draft IDDE Plan prepared by GZA.  | Number of illicit discharges removed   | CT DOC Facilities Management and Engineering | Jul 1, 2019   |  |  |
| 3-6 Address IDDE in areas with pollutants of concern         | NA          | NA  |  |  | Not specified |  |  |

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

Finalize citizen reporting program.  
Finalize legal authority.  
Finalize record keeping system.

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

| Date of Report | Location / suspected source | Response taken |
|----------------|-----------------------------|----------------|
| NA             | NA                          | NA             |

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) |
|---|---------------------------------|-----------------------------------|-----------------------------|--|---|-------------------------------|
| None Reported   | None Reported                   |                                   |                             |  |   |                               |

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

As part of the comprehensive, Final IDDE Plan prepared by GZA, we will develop a spreadsheet-based system for maintaining records of illicit discharge abatement activities.

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 |
|--|--|---|
| NA   |  |   |

3.7 IDDE reporting metrics

| Metrics  |      |
|--|------|
| Estimated or actual number of MS4 outfalls                 | 3    |
| Estimated or actual number of interconnections             | 1    |
| Outfall mapping complete                                   | 100% |
| Interconnection mapping complete                           | 100% |
| 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 | NA for this report year |
| Catchment investigations complete                                    | NA for this report year |
| Estimated percentage of MS4 catchment area investigated              | NA for this report year |

**3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).**

Annual IDDE training will be made available to all employees involved in the IDDE program. This training will, at a minimum, include information on how to identify illicit discharges and SSOs and may also include additional training specific to the functions of particular personnel and their function within the framework of the IDDE program. The training will be incorporated into other currently available on-line training (hazardous waste, oil spill plan) programs.

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

**4.1 BMP Summary**

| BMP  | Status      | Activities in current reporting period  | Measurable goal                                    | Department / Person Responsible              | Due         | Date completed or projected completion date | Additional details |
|--|-------------|---|--|--|-------------|---|--------------------|
| 4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit | Not started | Requirements for implementation have been outlined in the SMP prepared by GZA | Establish written procedures                       | CT DOC Facilities Management and Engineering | Jul 1, 2020 |   |                    |
| 4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval                               | In progress | Requirements for implementation have been outlined in the SMP prepared by GZA | Written interdepartmental coordination procedures  | CT DOC Facilities Management and Engineering | Jul 1, 2017 |   |                    |
| 4-3 Review site plans for stormwater quality concerns  | Complete    | No site plan reviews during report year                                       | Number of site plan reviews<br>Procedure developed | CT DOC Facilities Management and Engineering | Jul 1, 2017 | 12/31/17                                    |                    |

|  |             |   |   |  |             |          |  |
|--|-------------|---|---|--|-------------|----------|--|
| 4-4 Conduct site inspections   | Complete    | No construction developments during the report year                 | Number of site inspections<br>Procedure/Checklist developed | CT DOC Facilities Management and Engineering | Jul 1, 2017 | 12/31/17 |  |
| 4-5 Implement procedure to allow public comment on site development                    | In progress | No site development projects during the report year                 | Established policy<br>Number of public comments             | CT DOC Facilities Management and Engineering | Jul 1, 2017 |          |  |
| 4-6 Implement procedure to notify developers about DEEP construction stormwater permit | In progress | No construction or site development projects during the report year | Established policy<br>Number of projects<br>CGP             | CT DOC Facilities Management and Engineering | Jul 1, 2017 |          |  |

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

Finalize procedure for interdepartmental coordination in site plan review and approval.  
 Finalize procedure to allow public comment on site development.  
 Using Town of Tolland State Permit Notification as a model, finalize a procedure to notify developers about DEEP construction stormwater permit.

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

**5.1 BMP Summary**

| BMP   | Status      | Activities in current reporting period  | Measurable goal   | Department / Person Responsible              | Due         | Date completed or projected completion date | Additional details |
|---|-------------|---|---|--|-------------|---|--------------------|
| *5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning | Not started | Began to gather available guidance documents from DEEPs website: CT Guidelines for Soil Erosion and Sediment Control. Technical Memorandum 4, LID Guidelines and Standards (Fuss & O'Neill 2010). LID Appendix to CT Guidelines for Soil Erosion and Sediment Control (Fuss & O'Neill | Establish written protocols<br>Number of project reviewed | CT DOC Facilities Management and Engineering | Jul 1, 2022 |   |                    |

|  |          |  |   |  |               |          |  |
|--|----------|--|---|--|---------------|----------|--|
|  |          | 2011). LID Appendix to the CT Stormwater Quality Manual (Fuss & O'Neill 2011).   |   |  |               |          |  |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects |          | NA See MCM 5-1   |   |  | Jul 1, 2022   |          |  |
| 5-3 Identify retention and detention ponds in priority areas                             | Complete | Retention and detention ponds were identified by GZA through field investigations and system mapping   | Retention and detention ponds identified through field investigations and system mapping  | CT DOC Facilities Management and Engineering | Jul 1, 2020   | 12/29/17 |  |
| 5-4 Implement long-term maintenance plan for stormwater basins and treatment structures  | Complete | GZA has developed long term maintenance plans for ensuring the effectiveness of retention or detention ponds and applicable stormwater treatment structures or measures that are located within Priority Areas | Establish long-term maintenance plans and begin implementation. Track annual inspections including structures inspected, date, inspection results, and maintenance performed. | CT DOC Facilities Management and Engineering | Jul 1, 2020   | 4/5/18   |  |
| 5-5 DCIA calculations  | Complete | Established written methodology in SMP and performed initial DCIA calculations   | Established written methodology in SMP and performed initial DCIA calculations.   | CT DOC Facilities Management and Engineering | Jul 1, 2020   | 12/15/17 |  |
| 5-6 Address post-construction issues in areas with pollutants of concern                 | NA       |  |   |  | Not specified |          |  |

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

Currently there is no construction occurring on site and no plan of construction in the future.

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

| Metrics   |                     |
|---|---------------------|
| Baseline (2017) Directly Connected Impervious Area (DCIA) | 9.18 acres          |
| DCIA disconnected (redevelopment plus retrofits)          | *                   |
| Retrofits completed                                       | Covered under MCM 6 |
| DCIA disconnected   | *                   |
| Estimated cost of retrofits                               | Covered under MCM 6 |
| Detention or retention ponds identified                   | 0                   |

\*CT DOC has had discussions with CT DEEP regarding specific BMPs within this MCM and discussed unacceptable safety and security risks which could arise from compliance with several of the BMPs identified namely, the following:

- The requirement to specify minimal dimensional criteria for creation of roadways, parking lots, and other impervious cover and minimize impervious areas.
- The requirements for disconnection of impervious surfaces, specifically goals for disconnection of impervious surfaces.

Compliance for elements of this MCM and its BMPs would need to be reviewed with public safety and security in mind and may be limited. Certain BMPs and measurable goals may not be met by CT DOC based on agreed upon elements previously discussed with CT DEEP and the safety and security of the facilities.

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

CT DOC intends to use the methodology and criteria provided by CT DEEP for its preliminary calculations, which will be completed by July 1, 2020. The Impervious Surface Analysis Tool (ISAT), which is a Geographic Information System (GIS) extension, will be used to estimate impervious surface area using land cover and coefficients which are tied to the land cover dataset. The coefficients will be used with the Connecticut Land Cover 2002 data available online. The tool is used to calculate the percent of impervious surface area of a selected geographic area (in this case, on a catchment basis). ISAT was developed by NEMO (Nonpoint Education for

Municipal Officials) and the National Oceanic and Atmospheric Administration (NOAA) Coastal Services Center. This tool will be used for each catchment to an MS4 outfall. The CT DEEP criteria offered two options for calculating DCIA from impervious cover percentages. Review of these two options suggested that Option 1 was more appropriate at the time of SMP development, based on the limited information available. The Option 1 equation is as follows and will be used for each outfall and associated catchment area, where IC is the abbreviation for Impervious Cover:

$$0.1 \times (IC\%)^{1.5} = \% \text{ DCIA}$$

The above-described method will be used for initial calculations, although CT DOC may revisit the method at a later date or refine the data.

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

### 6.1 BMP Summary

| BMP  | Status      | Activities in current reporting period   | Measurable goal  | Department / Person Responsible              | Due         | Date completed or projected completion date | Additional details  |
|--|-------------|--|--|--|-------------|---|---|
| 6-1 Develop/implement formal employee training program | In progress |  | Number of staff trained annually   | CT DOC Facilities Management and Engineering | Jul 1, 2019 |   | The training will be incorporated into other currently available on-line training (hazardous waste, oil spill plan) programs. |
| 6-2 Implement MS4 property and operations maintenance  | Complete    | Adopted DEEP BMPs for grass clippings, mowing techniques, fertilizer application, and watering practices<br>Completed procedure for geese management.<br><br>Adopted DEEP BMPs for grass clippings, mowing techniques, fertilizer application, and watering practices<br>Adopted DPH BMPs for dumpsters. Included SMP for York aquifer protection area.<br>Adopted DEEP guidance for vehicles and equipment. | Written plan<br><br>Quantities of chemicals and leaves, number of floor drains, vehicles, etc. | CT DOC Facilities Management and Engineering | Jul 1, 2018 | 2/5/18<br><br>2/5/18<br><br>2/5/18          |   |

|   |             |  |  |  |               |         |  |
|---|-------------|--|--|--|---------------|---------|--|
|   |             | Adopted DEEP BMPs for fueling stations.<br>Comply with vehicle maintenance wastewater discharge General Permit requirements.<br>Addressed the outside washing of vehicles.<br>Leaves are blown into nearby wooded areas.   |  |  |               |         |  |
| 6-3 Implement coordination with interconnected MS4s                             | Complete    | Registration copies provided to Town of Cheshire, Town of East Lyme, MDC (Hartford). Letter to Town of East Lyme included notification of SMP.   | Transmit information to MS4s<br><br># of communication per year      | CT DOC Facilities Management and Engineering | Not specified | 4/3/17  |  |
| 6-4 Develop/implement program to control other sources of pollutants to the MS4 | Not started |  | Plan developed<br><br>Number of sources, number of contacted sources | CT DOC Facilities Management and Engineering | Not specified |         |  |
| 6-5 Evaluate additional measures for discharges to impaired waters              | Complete    | No discharges to impaired waters   | NA   | CT DOC Facilities Management and Engineering | Not specified | 7/21/17 |  |
| 6-6 Track projects that disconnect DCIA   | NA          | CT DOC and CT DEEP have previously discussed this BMP and agreed that due to requirements for public safety and security, there are development/redevelopment/retrofit limitations, because of the requirement to have specific pavement areas associated with these correctional facilities. As such, opportunities for DCIA disconnection will be limited at the six facilities which comprise CT DOC's MS4. To the extent possible, new development/redevelopment will consider DCIA. |  |  | Jul 1, 2017   |         |  |

|   |             |  |  |  |             |  |  |
|---|-------------|--|--|--|-------------|--|--|
| 6-7 Develop/Implement infrastructure repair/rehab program           | Not started |  | Number of sites identified               | CT DOC Facilities Management and Engineering | Jul 1, 2021 |  |  |
| 6-8 Develop/implement plan to identify/prioritize retrofit projects | NA          | Due to the security of the facilities and safety of the public, the retrofit program and goals to disconnect existing DCIA through retrofit and redevelopment projects will be difficult to implement. Retrofit and redevelopment projects and goals to modify existing developed sites will not be possible for DOC. To the extent possible, new development/redevelopment will consider DCIA.  |  |  | Jul 1, 2020 |  |  |
| 6-9 Implement retrofit projects to disconnect 2% of DCIA            | NA          | CT DOC and CT DEEP have previously discussed this BMP and agreed that due to requirements for public safety and security, there are development/redevelopment/retrofit limitations, because of the requirement to have specific pavement areas associated with these correctional facilities. As such, opportunities for DCIA disconnection will be limited at the six facilities which comprise CT DOC's MS4. To the extent possible, new development/redevelopment will consider DCIA. |  |  | Jul 1, 2022 |  |  |
| 6-10 Develop/implement street sweeping program                      | In progress | Only salt is used for de-icing therefore there is very little debris on roads since there is no sand used. Because of this, the street sweeping program will consist of periodic inspections and sweeping as needed.   | Written procedures                       | CT DOC Facilities Management and Engineering | Jul 1, 2018 |  |  |
| 6-11 Develop/implement catch basin cleaning program                 | Not started |  | Plan/schedule for CB inspection/cleaning | CT DOC Facilities Management and Engineering | Jul 1, 2020 |  |  |

|  |          |   |  |  |             |        |  |
|--|----------|---|--|--|-------------|--------|--|
| 6-12 Develop/implement snow management practices | Complete | In addition to DOC policies, adopted DEEP BMPs for snow disposal and CT DOT Winter Highway Maintenance Operations guidance. | Written Plan<br><br>Amount of deicing chemicals/sand, # of personnel trained, number of lane-miles treated | CT DOC Facilities Management and Engineering | Jul 1, 2018 | 2/5/18 |  |
|--|----------|---|--|--|-------------|--------|--|

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

Formalize leaf management procedure.  
 Formalize program to control other sources of pollutants to the MS4.  
 Formalize record keeping for street sweeping and snow management.

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

| <b>Metrics</b>   |                         |
|--|-------------------------|
| Employee training provided for key staff                       | In progress             |
| <b>Street sweeping</b>   | <b>In progress</b>      |
| Curb miles swept   |                         |
| Volume (or mass) of material collected                         |                         |
| <b>Catch basin cleaning</b>                                    | <b>Not started</b>      |
| Total catch basins in priority areas                           | 72                      |
| Total catch basins in MS4                                      | 72                      |
| Catch basins inspected   | NA for this report year |
| Catch basins cleaned   | NA for this report year |
| Volume (or mass) of material removed from all catch basins     | NA for this report year |
| Volume removed from catch basins to impaired waters (if known) | NA for this report year |
| <b>Snow management</b>   | <b>In progress</b>      |
| Type(s) of deicing material used                               | Salt only               |
| Total amount of each deicing material applied                  |                         |
| Type(s) of deicing equipment used                              |                         |
| Lane-miles treated   |                         |

|   |    |
|---|----|
| Snow disposal location  | NA |
| Staff training provided on application 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)   | NA |
| Reduction in turf area (since start of permit)  | NA |
| <b>Lands with high potential to contribute bacteria (dog parks, parks with open water, &amp; sites with failing septic systems)</b> | NA |
| Cost of mitigation actions/retrofits  | NA |

#### **6.4 Catch basin cleaning program**

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

CT DOC will inspect all CT DOC-owned catch basins within Urbanized Area and Priority Areas at least once by July 1, 2020. Based on available mapping at the time of this SMP, all portions of the six facilities are completely within UAs. CT DOC will prioritize inspection and maintenance of catch basins located near impaired waters and construction activities and clean these structures more often if inspection and maintenance indicate excessive loadings. CT DOC will establish and implement a schedule for routine cleaning of catch basins such that no catch basin sump will be more than 50% full when cleaned. For catch basins determined to be more than 50% full during two consecutive inspections/cleanings, CT DOC will investigate and abate contributing sediment sources. Disposal of catch basin cleanings will be in accordance with applicable policies, guidance, and regulations. CT DOC will adopt CT DEEP's guideline entitled "Guideline for Municipal Management Practices for Street Sweepings & Catch Basin Cleanings".

#### **6.5 Retrofit program**

**Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project. Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.**

Due to the security of the facilities and safety of the public, the retrofit program and goals to disconnect existing DCIA through retrofit and redevelopment projects will be difficult to implement. Retrofit and redevelopment projects and goals to modify existing developed sites will not be possible for DOC. To the extent possible, new development/redevelopment will consider DCIA.

**Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years. Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.**

CT DOC has had discussions with CT DEEP regarding specific BMPs within this MCM and discussed unacceptable safety and security risks which could arise from compliance with several of the BMPs. It was agreed that there would be public safety and security concerns if this is something that DOC is required to implement. The retrofit program is a goal to disconnect DCIA areas each year. The security of the facilities and safety of the public can be reasons that preclude reaching this goal. To the extent possible, new development/redevelopment will consider DCIA.

**Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years. Provide information if available in 2018 report. Section to be completed for the 2019 Annual Report.**

CT DOC has had discussions with CT DEEP regarding specific BMPs within this MCM and discussed unacceptable safety and security risks which could arise from compliance with several of the BMPs. It was agreed that there would be public safety and security concerns if this is something that DOC is required to implement. The retrofit program is a goal to disconnect DCIA areas each year. The security of the facilities and safety of the public can be reasons that preclude reaching this goal. To the extent possible, new development/redevelopment will consider DCIA.

**Part II: Impaired waters investigation and monitoring [This section required beginning with 2019 Annual Report]**

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

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

Nitrogen/ Phosphorus  Bacteria  Mercury  Other Pollutant of Concern

**1.2 Describe program status**

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

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

**2.1 Screening data**

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

**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 |
|---------|---------------------------------------|--|
|         |                                       |  |
|         |                                       |  |
|         |                                       |  |

**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, 2021.

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

**Part III: Additional IDDE Program Data [This section required beginning with 2019 Annual Report]**

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

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

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

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

**2.2 Wet weather sample and inspection data**

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

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

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

#### 3.1 System Vulnerability Factor Summary

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

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

Where SVFs are:

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

12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance).

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

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

### 3.3 Wet weather investigation outfall sampling data

| Outfall ID | Sample date | Ammonia | Chlorine | Surfactants |
|------------|-------------|---------|----------|-------------|
|            |             |         |          |             |

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

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

**Part III: 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>Steve Link  | Print name:<br>Rich Pease   |
| Signature / Date:<br> 3/24/19 | Signature / Date:<br> 3/26/19 |