

ENVIRONMENTAL
SERVICES



ENGINEERING
SERVICES

2022 ANNUAL REPORT

TOWN OF ELLINGTON
55 MAIN STREET
ELLINGTON, CONNECTICUT

2017 MS4 GENERAL PERMIT
EXISTING PERMITTEE
PERMIT NUMBER GSM000059

FEBRUARY 2023

PREPARED FOR:

TOWN OF ELLINGTON
55 MAIN STREET
ELLINGTON, CONNECTICUT 06029

PREPARED BY:

CMG ENVIRONMENTAL, INC.
CMG ID 2010-008

INTRODUCTION

This Annual Report has been prepared for the Town of Ellington in compliance with the Connecticut Department of Energy & Environmental Protection (CT DEEP) General Permit for the Discharge of Storm water from Small Municipal Separate Storm Sewer Systems (MS4) (MS4 General Permit), effective July 1, 2017. This report documents the efforts of the Town of Ellington to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) for the period of January 1, 2022 to December 31, 2022.

The 2022 Annual Report for the Town of Ellington is presented on the following pages. As a note, under Status in each BMP Summary table, “In progress” means the BMP has yet to be completed, and “Ongoing” means the BMP has been completed and upkeep/maintenance of it continues.

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 responsible | Due | Completion date | Additional details |
|--|---------|--|---|-----------------------------------|-----------------------|-----------------|--|
| 1-1 Implement public education and outreach | Ongoing | The Town newsletter includes information regarding Stormwater Management Plan. The DPW website has been updated with whom to contact for stormwater concerns/emergencies | Ongoing education of Town residents on impacts of polluted stormwater runoff entering various waterways | Public Works & Selectman's Office | Start by July 1, 2017 | Ongoing | The Stormwater Management Plan has been posted on the Town website and is available at the DPW, in the Town Hall Annex and Hall Memorial Library. All Annual Reports are posted to the Town website. The DPW website has a link to the UConn NEMO program website. |
| 1-2 Address education/outreach for pollutants of concern | Ongoing | Same as above | Ongoing education of Town residents on the impacts of pollutants of concerns entering various waterways through stormwater runoff | Public Works & Selectman's Office | Start by July 1, 2017 | Ongoing | None |

1.2 DESCRIBE ANY PUBLIC EDUCATION AND OUTREACH ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Newsletter updates are sent out via the local Town quarterly newsletter and posted on the Town website to educate residents on the impacts of polluted stormwater runoff entering various waterways in town and stormwater pollution prevention and good housekeeping practices.

The IDDE Program will be posted to the Town website when complete.

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. |
|--------------------------|---|---|--|---|
| Newsletter publications | Town-wide | Inform residents about the impacts of polluted stormwater runoff, including pollutants of concern, entering various waterways and stormwater pollution prevention and good housekeeping practices | Oils and fertilizers | Public Works |
| Town website | Town-wide | Inform residents about the impacts of polluted stormwater runoff, including pollutants of concern, entering various waterways and stormwater pollution prevention and good housekeeping practices | NA | Public Works, Planning Office, Selectman's Office |

2. PUBLIC INVOLVEMENT/PARTICIPATION (Section 6(a)(2) / page 21)

2.1 BMP SUMMARY

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|---|----------|--|---|-----------------------------------|-----------------------|------------------|---|
| 2-1 Comply with public notice requirements for the Stormwater Management Plan | Complete | None | Stormwater Management Plan posted on Town website | Public Works & Selectman's Office | April 3, 2017 | April 15, 2017 | Stormwater Management Plan posted on Town website |
| 2-1 Comply with public notice requirements for Annual Reports | Ongoing | Annual Report has been posted on Town website | Annual Report posted on Town website | Public Works & Selectman's Office | February 2, 2022 | February 2, 2022 | Past Annual Reports are posted on Town website |
| 2-2 Promote community stormwater management efforts | Ongoing | Local boy scouts troop performed litter patrol | Litter removed | Public Works | Start by July 1, 2017 | Ongoing | None |

2.2 DESCRIBE ANY PUBLIC INVOLVEMENT/PARTICIPATION ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

The Town will publish a public notice on its website regarding the availability of the 2022 Annual Report for review and public comment. The notice will include a contact name, phone number, physical address and email address to whom the public can send comments. The public notice will allow for a 45-day comment period, at a minimum.

2.3 PUBLIC INVOLVEMENT/PARTICIPATION REPORTING METRICS

| Metrics | Implemented | Date | Posted |
|--|-------------|------------------|--------------|
| Availability of the Stormwater Management Plan announced to public | Yes | April 15, 2017 | Town website |
| Availability of Annual Report announced to public | Yes | February 2, 2022 | Town website |

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 responsible | Due | Completion date | Additional details |
|--|-------------|--|--|------------------------|--------------|------------------|---|
| 3-1 Develop written IDDE program | In progress | Public Works is in the process of developing a written IDDE program using the CT IDDE program template | Develop a written IDDE program | Public Works | July 1, 2018 | In progress | Once complete, the program will be posted to the Town website with a banner indicating new info added |
| 3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas | Complete | None | Locations of outfalls directly discharging into impaired waterways listed and marked by GPS and added to map | Public Works | July 1, 2020 | March 2018 | Locations of outfalls directly discharging into impaired waterways listed and marked by GPS and added to map. Map of Priority Areas developed using NEMO MS4 mapping tool |
| 3-3 Implement citizen reporting program | Ongoing | Public Works responds to citizen reports as received | Public Works will continue to respond to citizen reports | Public Works | July 1, 2018 | July 1, 2017 | None |
| 3-4 Establish legal authority to prohibit illicit discharges | Complete | None | Draft Town ordinance | Planning | July 1, 2018 | December 9, 2019 | Illicit Discharge and Illicit Connection Stormwater Drainage ordinance approved at Town meeting |
| 3-5 Develop record keeping system for IDDE tracking | Complete | Public Works tracks citizen calls regarding stormwater management issues or suspected illicit discharges | Public Works will continue to track citizen calls | Public Works | July 1, 2018 | July 1, 2017 | None |

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|--|---------|--|---|------------------------|-----------------------|-----------------|--|
| 3-6 Address IDDE in areas with pollutants of concern | Ongoing | Public Works investigates, logs and tracks citizen calls regarding suspected illicit discharges with pollutants of concern | Citizen calls and complaints will continue to be investigated, logged and tracked | Public Works | Start by July 1, 2017 | Ongoing | None |
| 3-7 Household hazardous waste collection | Ongoing | Drop-off center established and member of Mid-NEROC | Continue to provide drop-off center and remain a member of Mid-NEROC | Public Works | Annually | July 2012 | Residents can drop off household hazardous waste within the Mid-NEROC schedule. Used oil, scrap metal, batteries, electronics, paint, etc. drop off is available at Public Works |

3.2 DESCRIBE ANY IDDE ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

The written IDDE program will be posted to the Town website and a link listed in next year’s Annual Report. The written IDDE program will be updated as needed throughout the term of the General Permit. Continue to inspect any citizen reports of stormwater management issues or suspected illicit discharges. Continue to inform residents of the Mid-NEROC (Mid-Northeast Recycling Operating Committee) schedule, as well as the hours of the Public Works drop-off center including information on what can and cannot be recycled.

3.3 LIST OF CITIZEN REPORTS OF SUSPECTED ILLICIT DISCHARGES RECEIVED DURING THIS REPORTING PERIOD.

| Date of Report | Location / suspected source | Response taken |
|----------------|-----------------------------|----------------|
| None | | |

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 | | | | | | |

3.5 BRIEFLY DESCRIBE THE METHOD USED TO TRACK ILLICIT DISCHARGE REPORTS, RESPONSES TO THOSE REPORTS AND WHO WAS RESPONSIBLE FOR TRACKING THIS INFORMATION.

If a report or complaint is received, Public Works staff will investigate, log and track any suspected illicit discharge and file the report by address.

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 |
|--|--|---|
| 3 David Drive | Tank Replacement | Broad Brook |
| 4 Hamilton Road | Tank Replacement | Broad Brook |
| 27 Ladd Road | Tank Replacement | Charter Brook |
| 16 Sprucewood Drive | Tank Replacement | Broad Brook |
| 12 Standish Lane | Tank Replacement | Hockanum River |
| 3 Wells Road | Tank Replacement | Broad Brook |

3.7 IDDE REPORTING METRICS

| Metrics | |
|--|------|
| Actual number of MS4 outfalls | 13 |
| Actual number of interconnections | 13 |
| 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 | 4 |
| 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).

Annual IDDE training with key Pubic Works staff assigned to work with the IDDE program prior to inspecting outfalls. Staff is trained on visually detecting and testing possible illicit discharges.

4. CONSTRUCTION SITE RUNOFF CONTROL (Section 6(a)(4) / page 25)

4.1 BMP SUMMARY

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|---|---------|--|---|------------------------|-----------------------|-----------------|---|
| 4-1 Implement, upgrade and enforce land use regulations or other legal authority to meet requirements of MS4 General Permit | Ongoing | Enforce current Soil Erosion and Sediment Control section within Ellington Zoning Regulations | Continue to enforce current Soil Erosion and Sediment Control section within Ellington Zoning Regulations. Establish and enforce LID and runoff reduction regulations and/or ordinance. | Planning | July 1, 2019 | Ongoing | Current Soil Erosion and Sediment Control regulations reference <i>2002 Guidelines for Soils Erosion and Sedimentation Control</i> , as amended. |
| 4-2 Develop/implement plan for interdepartmental coordination in site plan review and approval | Ongoing | All pertinent Town departments review site plans submitted for subdivision, commercial and industrial development, and all Wetland Agency applications | Departments are emailed site plans for subdivision, commercial and industrial development, and all Wetland Agency applications | Planning | Start by July 1, 2017 | July 1, 2017 | None |
| 4-3 Review site plans for stormwater quality concerns | Ongoing | Planning Department reviews all site plans submitted to comply with Soil Erosion and Sediment Control section within Ellington Zoning Regulations | Developers receive approval for site plan that complies with Soil Erosion and Sediment Control section within Ellington Zoning Regulations | Planning | Start by July 1, 2017 | July 1, 2017 | Current Soil Erosion and Sediment Control regulations reference <i>2002 Guidelines for Soils Erosion and Sedimentation Control</i> , as amended. |
| 4-4 Conduct site inspections | Ongoing | Planning Department conducts inspections to determine compliance to Soil Erosion and Sediment Control section within Ellington Zoning Regulations | Site inspections completed regularly throughout site development process | Planning | Start by July 1, 2017 | July 1, 2017 | 17 separate constructions sites were inspected relating to stormwater management/erosion control. Most sites were inspected multiple times. No NOVs issued, but 9 construction site operators contacted via email/phone to have issues of concern corrected. All issues resolved. |

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|--|---------|---|---|------------------------|-----------------------|-----------------|--------------------|
| 4-5 Implement procedure to allow public comment on site development | Ongoing | Public Hearings and public meetings required for site development plan approval by land use commissions | Task Ongoing | Planning | Start by July 1, 2017 | July 1, 2017 | None |
| 4-6 Implement procedure to notify developers about DEEP Construction Stormwater General Permit | Ongoing | Notice included in all approval letters for all development proposals | Notice will continue to be included in all approval letters for all development proposals | Planning | Start by July 1, 2017 | March 2019 | None |

4.2 DESCRIBE ANY CONSTRUCTION SITE RUNOFF CONTROL ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Continue to require developers to comply with Soil Erosion and Sediment Control section within Ellington Zoning Regulations. Inspect control measures regularly to make sure they are functioning correctly and comply with regulation and approval. Establish and enforce LID and runoff reduction regulations and/or ordinance.

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 responsible | Due | 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 | None | Regulations and/or ordinance will be established and enforced for LID and runoff reduction requirements | Planning | July 1, 2021 | Anticipate completing by the deadline | None |
| 5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects. | Ongoing | Enforce Ellington Subdivision Regulations which require runoff reduction | Continue to enforce Ellington Subdivision Regulations which require runoff reduction. Establish and enforce LID and runoff reduction regulations and/or ordinance. | Planning | July 1, 2019 | Ongoing | None |
| 5-3 Identify retention and detention ponds in priority areas. | Complete | None | All detention ponds in priority areas are identified | Public Works | July 1, 2019 | July 1, 2017 | Identified all detention ponds in priority areas |
| 5-4 Implement long-term maintenance plan for storm-water basins and treatment structures. | Ongoing | None | Catch basins inspected and cleaned as needed. Detention basins cleaned and mowed. | Public Works | July 1, 2019 | July 1, 2017 | Plan developed to inspect and clean catch basins. Plan developed to clean and mow detention basins annually. 23 retention basins inspected and maintained. Drainage swales along 3.5 miles or roadway were cleaned/maintained. 901 catch basins were cleaned. |
| 5-5 DCIA mapping. | Complete | None | Calculate the DCIA that contributes to stormwater runoff to each of its MS4 outfalls | Planning | July 1, 2020 | October 2020 | None |

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|---|---------|--|---|-------------------------|-----------------------|-----------------|--------------------|
| 5-6 Address post-construction issues in areas with pollutants of concern. | Ongoing | None | Prioritize any problems found during inspections from long-term maintenance plan within DCIA retrofit program | Public Works & Planning | Start by July 1, 2017 | Ongoing | None |

5.2 DESCRIBE ANY POST-CONSTRUCTION STORMWATER MANAGEMENT ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Catch basins inspected and cleaned as needed. Detention basins cleaned and mowed annually. Continue to enforce Ellington Subdivision Regulations which require runoff reduction. Establish and enforce LID and runoff reduction regulations and/or ordinance.

5.3 POST-CONSTRUCTION STORMWATER MANAGEMENT REPORTING METRICS

| Metrics | |
|---|---|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | Unknown # acres |
| DCIA disconnected (redevelopment plus retrofits) | 0 acres this year / unknown # acres total |
| Retrofits completed | 0 |
| DCIA disconnected | 0 % this year / % total since 2012 |
| Estimated cost of retrofits | \$0 |
| Detention or retention ponds identified | 15 |

5.4 BRIEFLY DESCRIBE THE METHOD TO BE USED TO DETERMINE BASELINE DCIA.

AppGeo has determined catchment areas and calculated DCIA. Info has been added to GIS mapping on Town website.

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 responsible | Due | Completion date | Additional details |
|--|-------------|---|--|-------------------------|-----------------------|-----------------|---|
| 6-1 Develop/implement formal employee training program. | Ongoing | Annual MS4, IDDE, SWMP and SPCC training | Continue annual MS4, IDDE, SWMP and SPCC training | Public Works | Start by July 1, 2017 | July 1, 2017 | Training conducted in November |
| 6-2 Implement MS4 property and operations maintenance. | Ongoing | None | Implement property and operations maintenance plan | Public Works | Start by July 1, 2017 | July 1, 2017 | Property and operations maintenance plan has been implemented |
| 6-3 Implement coordination with interconnected MS4s. | Not Started | None | | Public Works | Start by July 1, 2017 | | None |
| 6-4 Develop/implement program to control other sources of pollutants to the MS4. | Ongoing | All pertinent Town department review site plans submitted for subdivision, commercial and industrial development, and all Wetland Agency applications | Departments are emailed site plans for subdivision, commercial and industrial development, and all Wetland Agency applications | Public Works & Planning | Start by July 1, 2017 | July 1, 2017 | None |
| 6-5 Evaluate additional measures for discharges to impaired waters. | Ongoing | Turf management per soil sample results | Continue to manage turf per soil sample results | Public Works | Start by July 1, 2017 | July 1, 2017 | None |
| 6-6 Track projects that disconnect DCIA. | In progress | None | | Public Works | Start by July 1, 2017 | | 0.02 acres were disconnected during redevelopment of a parking area at 77 Meadow Brook Road resulting in reduction of impervious area |
| 6-7 Implement infrastructure repair/rehab program. | Ongoing | None | Infrastructure repaired annually through five year road overlay program | Public Works | Start by July 1, 2017 | July 1, 2017 | Program developed to repair/rehab infrastructure through five year road overlay program |

| BMP | Status | Activities in current reporting period | Measurable goal | Department responsible | Due | Completion date | Additional details |
|--|-------------|--|--|------------------------|-----------------------|---------------------------------------|--|
| 6-8 Develop/implement plan to identify/prioritize retrofit projects. | Not Started | None | | Public Works | July 1, 2020 | | None |
| 6-9 Implement retrofit projects to disconnect 2% of DCIA. | In progress | See 6-6 above | | Public Works | July 1, 2022 | Anticipate completing by the deadline | None |
| 6-10 Develop/implement street sweeping program. | Ongoing | None | All roadways and parking areas swept annually | Public Works | Start by July 1, 2017 | July 1, 2017 | Program developed to sweep all roadways and parking areas annually. Approximately 400 cy of material collected |
| 6-11 Develop/implement catch basin cleaning program. | Ongoing | None | Catch basins inspected and repaired in conjunction with five-year road overlay program | Public Works | Start by July 1, 2017 | July 1, 2017 | Program developed to inspect and repair catch basins as needed in conjunction with five-year road overlay program. 901 catch basins cleaned with approximately 300 cubic yards of material collected |
| 6-12 Develop/implement snow management practices. | Ongoing | None | Snow removed and transported to approved location | Public Works | Start by July 1, 2017 | July 1, 2017 | Program developed for snow management |

6.2 DESCRIBE ANY POLLUTION PREVENTION/GOOD HOUSEKEEPING ACTIVITIES PLANNED FOR THE NEXT YEAR, IF APPLICABLE.

Annual review of facility compliance plans and adjust and improve as needed. Continue infrastructure repair/rehab program, street sweeping program, catch basin cleaning program and snow management program.

6.3 POLLUTION PREVENTION/ GOOD HOUSEKEEPING REPORTING METRICS

| Metrics | |
|--|---------------------------------|
| Employee training provided for key staff | Yes / Annually |
| Street sweeping | |
| Curb miles swept | 220 miles |
| Volume (or mass) of material collected | ~400 cy |
| Catch basin cleaning | |
| Total catch basins in priority areas | |
| Total catch basins in MS4 | 1,300 |
| Catch basins inspected | 901 |
| Catch basins cleaned | 901 |
| Volume (or mass) of material removed from all catch basins | 300 cy |
| Volume removed from catch basins to impaired waters (if known) | |
| Snow management | |
| Type(s) of deicing material used | Treated salt |
| Total amount of each deicing material applied | 1,500 tons |
| Type(s) of deicing equipment used | plows |
| Lane-miles treated | 2,200 miles |
| Snow disposal location | 0 |
| Staff training provided on application methods & equipment | Yes / Annually (in November) |
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |
| Reduction in application of fertilizers (since start of permit) | 0% |
| Reduction in turf area (since start of permit) | 0 acres |
| Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems) | |
| Cost of mitigation actions/retrofits | |

6.4 CATCH BASIN CLEANING PROGRAM

| |
|--|
| Briefly describe the method used to optimize your catch basin inspection and cleaning schedule. [Complete this section for the 2017 Annual Report only] |
| Basins cleaned in conjunction with five-year road overlay program; other basins inspected annually. |

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 2017 report. Section to be completed for the 2019 Annual Report.]

Information not available.

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 2017 report. Section to be completed for the 2019 Annual Report.]

Information not available.

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 2017 report. Section to be completed for the 2019 Annual Report.]

Information not available.

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.

| |
|--|
| <p>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.</p> <p>IDDE Program under development.</p> |
|--|

2. SCREENING DATA FOR OUTFALLS TO IMPAIRED WATERBODIES (Section 6(i)(1) / page 41)

2.1 SCREENING DATA COLLECTED UNDER 2017 GENERAL PERMIT

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year’s screening data showing a cumulative list of outfall screening data.

| Outfall ID | Sample date | Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern) | Results | Name of Laboratory (if used) | Follow-up required? |
|-------------------|--------------------|---|--------------------------|-------------------------------------|----------------------------|
| 4 West Road | 3/25/20 | Bacteria | E. coli = 20 MPN/10 mls | Phoenix Environmental | No |
| 17 Tree Top | 3/25/20 | Bacteria | E. coli = <10 MPN/10 mls | Phoenix Environmental | No |
| 5 Timber Lane | 3/25/20 | Bacteria | E. coli = <10 MPN/10 mls | Phoenix Environmental | No |
| 97 Muddy Brook | 3/25/20 | Bacteria | E. coli = 20 MPN/10 mls | Phoenix Environmental | No |

2.2 CREDIT FOR SCREENING DATA COLLECTED UNDER 2004 GENERAL PERMIT

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

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

3. FOLLOW-UP INVESTIGATIONS (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

| Outfall | Status of drainage area investigation | Control measure implementation to address impairment |
|----------------|--|---|
| | | |

4. PRIORITIZED OUTFALL MONITORING (Section 6(i)(1)(D) / page 43)

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

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

PART III: ADDITIONAL IDDE PROGRAM DATA [This section required beginning with 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 | 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 | Surfactants | Water Temp | Pollutant of concern |
|------------------------------|-------------|-----------|----------|--------------|----------|------------------|-------------|------------|----------------------|
| 5 Timber Lane | 6/9/22 | 0.12 mg/L | | 16 umhos/cm | | 4350 MPN/100 mls | | | E. coli |
| 11 Timber Lane | 6/9/22 | 0.21 mg/L | | 33 umhos/cm | | 7270 MPN/100 mls | | | E. coli |

3. CATCHMENT INVESTIGATION DATA (Appendix B (A)(7)(e) / page 9)

3.1 SYSTEM VULNERABILITY FACTOR SUMMARY

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

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

Where SVFs are:

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

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

3.2 KEY JUNCTION MANHOLE DRY WEATHER SCREENING AND SAMPLING DATA

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

3.3 WET WEATHER INVESTIGATION OUTFALL SAMPLING DATA

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

3.4 DATA FOR EACH ILLICIT DISCHARGE SOURCE CONFIRMED THROUGH THE CATCHMENT INVESTIGATION PROCEDURE

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

PART IV: CERTIFICATION

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."

Chief Elected Official or Principal Executive Officer:

Document Prepared by:

Print name

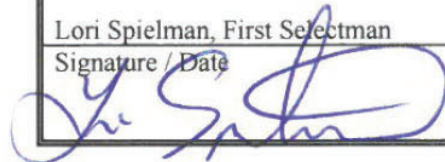
Print name

Lori Spielman, First Selectman

Matthew Reiser, CMG

Signature / Date

Signature / Date

 4-11-23

 4/6/23