

General Permit for the Discharge of Stormwater from
Small Municipal Separate Storm Sewer Systems

DRAFT 2022 MS4 ANNUAL REPORT

Town of Monroe

March 31, 2023

Tighe&Bond
Engineers | Environmental Specialists



General Permit for the Discharge of Stormwater from
Small Municipal Separate Storm Sewer Systems

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MS4 General Permit

Town of Monroe 2021 Annual Report

Permit Number GSM 000013

January 1, 2022 – December 31, 2022

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach

MS4 General Permit Section 6(a)(1) / page 19, requires the Town to “implement a public education program to distribute educational materials to the permittee’s community or conduct equivalent outreach activities about the sources and impacts of stormwater discharges on waterbodies and the steps that the public can take to reduce pollutants in stormwater runoff.”

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 | Ongoing, Complete for 2022 | 1.1a: General Stormwater Information Brochure. The Town maintains a display table in its Land Use Office that included 50 copies of a brochure titled: “Developing Your Stormwater Pollution Prevention Plan – A Guide for Construction Sites”. The display table was located next to the waiting area at the Land Use Office counter. 1.1b: Bacteria and Pet Waste Educational Material: The Town used a brochure titled “Don’t Let Our Water Quality Go to the Dogs”. 1.1c: Display Board Procurement: The Town displayed its MS4 Presentation Board in the lobby of Town Hall for two weeks, and at the Town’s Farmer’s Market at Town Hall on September 24, 2022. | Develop or procure from CTDEEP/other MS4s educational materials focused on a targeted pollutant, with a minimum of at least one brochure, flyer, booklet, presentation, or public access advertisement per topic. Also make materials available on Town website. | Town Engineer or Town Engineer Designee | 07/01/19 | Completed: 06/30/17 Completed: 06/30/18 Completed: 10/05/18 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------------------------|--|---|---|----------|---|--------------------|
| | | 1.1d: Nitrogen and Phosphorus Management Educational Material: The Town developed a brochure titled "Clean Water Begins with You: Nutrient Management for a Healthier Lawn and Environment", that targeted good lawn maintenance practices. | Year 1: Bacteria and pet waste. Year 2: Nitrogen & phosphorous Year 3: Mercury | | | Completed: 10/15/2018 Ongoing, Last performed 12/29/2021 Completed: 02/15/2020 | |
| | | 1.1e: Public Service Announcements. The Town of Monroe owns a public radio station, WMNR, FM 88.1, and has used it to run radio announcements. | Year 4: Impervious coverage Year 5: Illicit Discharges | | | Completed: 01/05/2021 Completed: 09/14/2022 | |
| | | 1.1f: Mercury Educational Material. The Town developed a brochure titled "Keeping the Hg Out of Our H2O", that targeted good lawn maintenance practices. | | | | | |
| | | 1.1g: Impervious Coverage. The Town developed a brochure titled "Minimizing Impervious Cover: A Homeowner's Guide to Understanding the Challenge of Impervious Surfaces. | | | | | |
| | | 1.1h: Illicit Discharges. The Town developed a brochure on illicit discharges and included the brochure in its stormwater display. | | | | | |
| 1.2 Address education/ outreach for pollutants of concern* | Ongoing, Complete for 2022 | 1.2a: Bacteria and Pet Waste Educational Material: The Town used a brochure titled "Pet Waste and Stormwater", keeping copies with its display board. 50 copies of brochures were displayed. In 2019, a new brochure was introduced, "Don't Let Our Water Quality Go to the Dogs", 50 copies being placed at the Town Clerk's office. | Display brochures or fact sheets in the Town Hall. Each year, a new topic will be featured: | Town Engineer or Town Engineer Designee | 07/01/19 | Completed: 06/30/18 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------------------------|--|--|---|----------|---|--------------------|
| | | <p>1.2b: Nitrogen and Phosphorus Management Educational Material. The Town developed a brochure titled “Clean Water Begins with You: Nutrient Management for a Healthier Lawn and Environment”, that targeted good lawn maintenance practices. Copies of the brochure were included with the Stormwater Display Board at public events.</p> <p>1.2c: Mercury Educational Material. The Town developed a brochure titled “Keeping the Hg Out of Our H2O”, that targeted good lawn maintenance practices.</p> <p>1.2d: Impervious Coverage Educational Material. The Town developed a brochure titled “Minimizing Impervious Cover: A Homeowner’s Guide to Understanding the Challenge of Impervious Surfaces.</p> <p>1.2e: Illicit Discharges. The Town developed a brochure on illicit discharges and included the brochure in its stormwater display.</p> | <p>Year 1: Bacteria and pet waste.</p> <p>Year 2: Nitrogen & phosphorous</p> <p>Year 3: Mercury</p> <p>Year 4: Impervious coverage</p> <p>Year 5: Illicit Discharges</p> | | | <p>Completed: 10/05/2018</p> <p>Completed: 02/15/2020</p> <p>Completed: 01/05/2021</p> <p>Completed: 09/14/2022</p> | |
| 1.3 Update Stormwater Page on Town Website | Ongoing, Complete for 2022 | <p>1.3a: Update Town Stormwater Website. The Town’s stormwater website is located at: https://www.monroect.gov/p/ms4-water-resource-materials</p> <p>The current stormwater page includes the following:</p> | Develop and collect stormwater-specific educational materials to share with the public, pursuant to BMP 1.1 and 1.2. Update | Town Engineer or Town Engineer Designee | 06/30/18 | Ongoing, First Completed: 12/31/17, Maintenance activity ongoing | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|-----|--------|--|--|---------------------------------|-----|---|--------------------|
| | | <ul style="list-style-type: none"> Overview of the MS4 Regulatory Program Description of a Watershed Notice to Developers and Engineers regarding the Construction General Permit Links to: <ul style="list-style-type: none"> 2002 Connecticut Sediment and Erosion Control Guidelines 2004 Connecticut Stormwater Quality Manual 2000 Connecticut DOT Drainage Manual MS4 General Permit Documents <ul style="list-style-type: none"> 2020 MS4 Annual Report 2017 MS4 Stormwater Management Plan 2018 IDDE Plan MS4 Educational Materials for Homeowners <ul style="list-style-type: none"> Don't Flush Trouble Rainfall as a Resource: LID Rainfall as a Resource: Pervious Pavement Rainfall as a Resource: Rain Barrels River Smart Simple Steps to Save Water Developing Your Stormwater Pollution Prevention Plan – A Guide for Construction Sites Think Green – Stay Blue | stormwater page on Town website with information on potential sources of, impacts of, and solutions to stormwater pollutants of concern. | | | | |
| | | <p>1.3b: Add Bacteria and Pet Waste Educational Material to Website: The Town is working with its MS4 Consultant to procure appropriate</p> | | | | Projected: 3/15/2023 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|-----|--------|--|-----------------|---------------------------------|-----|---|--------------------|
| | | educational materials related to pet waste and bacteria by the end of Year 1 of the effective General Permit. Once material is selected, it will be posted to the Town website. | | | | | |
| | | 1.3c: Add Nitrogen and Phosphorus Management Educational Material to Website: The Town will add an electronic copy of its "Clean Water Begins with You: Nutrient Management for a Healthier Lawn and Environment" brochure to its stormwater resources page on the Town website. | | | | Completed: 02/15/21 | |
| | | 1.3c: Mercury Educational Material. The Town developed a brochure titled "Keeping the Hg Out of Our H2O", that targeted good lawn maintenance practices. | | | | Completed: 02/15/21 | |
| | | 1.3d: Impervious Coverage Educational Material. The Town developed a brochure titled "Minimizing Impervious Cover: A Homeowner's Guide to Understanding the Challenge of Impervious Surfaces. | | | | Completed: 02/15/21 | |

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

Projected activities for 2023:

1. Continue to use display board in Town Hall, Library, and at Town-sponsored events.
2. Continue announcements on WMNR, and broadcast four announcements.
3. Refresh content on Town stormwater website as needed.

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. |
|-----------------------------|--|---|---|---|
| Illicit Discharge Brochure" | General public, (approx. 50 brochures) | How to identify and report illicit discharges | | Town Engineer or Town Engineer Designee |
| Town Website | Town Residents (number of page visitors unknown) | <ul style="list-style-type: none"> • Items not to flush in the toilet • Low impact development • Pervious pavement • Rain barrels • Water Conservation / Landscape Care • General housekeeping best practices | Impervious cover | Town Engineer or Town Engineer Designee |
| Stormwater Display Board | General Public (unknown, approx.. 150) | <ul style="list-style-type: none"> • General stormwater • Lawn care • Pet waste • Septic system maintenance • Low impact development | Nitrogen Phosphorus Bacteria Pervious Pavement Impervious Cover | Town Engineer or Town Engineer Designee |

2. Public Involvement/Participation

MS4 General Permit Section 6(a)(2) / page 21, requires the Town to “provide opportunities to engage their community to participate in the review and implementation of the permittee’s Plan.”

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 | <p>2.1 MS4 Plan Notice. The Town provided a notice on its website about the availability of the new MS4 Plan in 2017.</p> <p>No comments were received.</p> | Publish public notice about the MS4 Plan and Annual Report by January 31. Accept public comments for 30 days following the public notice. | Town Engineer or Town Engineer Designee | 04/03/17 | 04/03/17 | |
| 2.2 Comply with public notice requirements for Annual Reports | Ongoing, Complete for 2022 | <p>2.2 MS4 Annual Report Notice. The Town provided notice of the availability of the 2021 Annual Report on January 25, 2022 on the Town’s website at:</p> <p>http://monroect.org/news/?FeedID=821</p> <p>No comments were received.</p> | Publish public notice about the MS4 Plan and Annual Report by January 31. Accept public comments for 30 days following the public notice. | Town Engineer or Town Engineer Designee | 01/31/21 | Completed: 01/25/22 | |
| 2.3 Partner with Local Volunteer Organizations | Ongoing, not completed for 2022 | <p>2.3 Partner with Local Volunteer Organizations. Historically, the Town has provided vests, police support, trash pickup and other logistical support to local volunteer groups in the past, with most of these activities are usually centered around Earth Day. There were no volunteer interest groups that requested Town assistance in 2022.</p> | Review MS4 plan and identify opportunities to engage with local organizations in implementing the plan. Contact at least one local organization and/or school to engage them in plan implementation and related programs, such as volunteer opportunities and town cleanup days. Engage organizations in plan implementation and programming. | Director of Public Works | Annually by June 30 | Recurring, not completed for 2022 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------------------------|--|--|---------------------------------|---|---|--------------------|
| 2.4 Household Hazardous Waste Collection | Ongoing, complete for 2022 | 2.4 Household Hazardous Waste Collection: Monroe conducts a Household Hazardous Waste Collection Day in concert with the Towns of Trumbull and Easton. A collection date was held on Saturday, December 3, 2022. Information on products accepted was posted to the town website at: http://www.monroect.org/filestorage/467/469/1062/4678/2022_Hazardous_Waste_-_Portrait-12-6-22.pdf | Conduct at least one Household Hazardous Waste Collection Day per year for the Monroe community. Notify residents about Household Hazardous Waste Collection dates through the Town website. | Director of Public Works | Ongoing, annually by 12/31/22 Next due: 12/31/23 | 12/03/22 | |

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

The following activities are planned for 2023:

1. Publish notice of 2022 Annual Report Posting.
2. Identify one volunteer organization for clean up assistance.
3. Conduct Household Hazardous Waste Collection Day. Provide material/logistical support as needed and available.

2.3 Public Involvement/Participation reporting metrics

| Metrics | Implemented | Date | Posted |
|--|-------------|------------|---|
| Availability of the Stormwater Management Plan announced to public | Yes | 04/03/2017 | http://www.monroect.org/filestorage/467/469/787/12259/MS4_Stormwater_Management_Plan.pdf |
| Availability of Annual Report announced to public | Yes | 1/25/2022 | http://monroect.org/news/?FeedID=821 |

3. Illicit Discharge Detection and Elimination

Reference: MS4 General Permit Section 6(a)(3) and Appendix B / page 22

3.1 BMP Summary

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|--------------|---|---|---|----------|---|--------------------|
| 3.1 Develop written IDDE program | Complete | 3.1 Illicit Discharge Detection and Elimination Plan. The Town completed its Illicit Discharge Detection and Elimination Plan, and it is posted on the Town's website at: http://www.monroect.org/filestorage/467/469/787/12259/M1836_2018_01-16_IDDE_plan.pdf | Develop written plan of IDDE program | Town Engineer or Town Engineer Designee | 07/01/19 | Completed: 01/16/18 | |
| 3.2 Develop list and maps of all MS4 stormwater outfalls in priority areas | 99% Complete | 3.2 Develop List and Maps of All MS4 Stormwater Outfalls in Urbanized and Priority Areas. The Town is under contract with MetroCOG to complete GIS-based mapping of its storm sewer outfalls and network, and is now 99% complete, with only minor data edits and finalization required. | Develop Excel-compatible list and GIS-based map of 50% of all stormwater discharges and interconnections with other MS4s in the Town. | Town Engineer or Town Engineer Designee | 07/01/20 | Substantially complete: 12/31/19 | |
| 3.3 Implement citizen reporting program | Complete | 3.3 Implement citizen reporting program. The Town utilizes Q-Alert's online Request for Service system where citizens can identify the location of a concern. No complaints | Develop and implement procedure, such as Q-Alert, to track citizen complaints of illicit discharges. Update stormwater page | Director of Public Works | 07/01/17 | Completed: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------|--|--|--|----------|---|--------------------|
| | | <p>of illicit discharges were received in 2022.</p> <p>Reports are routed to the appropriate department for action, and a log is generated documenting requests and to track follow-up activities.</p> | <p>on Town website to include reporting process guidelines and contact information. Promptly investigate reported discharges. Update IDDE program with reported illicit discharge information as needed. Update Annual Report with reported illicit discharge information as needed.</p> | | | | |
| 3.4 Establish legal authority to prohibit illicit discharges | Complete | 3.4 Establish legal authority to prohibit illicit discharges. The Town has established an illicit discharge ordinance, effective October 20, 2018. | Update existing legal authority to eliminate illicit discharges to the MS4. | First Selectman | 07/01/19 | Complete: 10/20/18 | |
| 3.5 Develop record keeping system for IDDE tracking | Complete | <p>3.5 Develop record keeping system for IDDE tracking. The Town utilizes Q-Alert's online Request for Service system where citizens can identify the location of a concern.</p> <p>Reports are routed to the appropriate department for action, and a log is generated</p> | Develop and implement procedure for tracking illicit discharge abatement activities. Update Annual Report with abatement activity information. | Town Engineer or Town Engineer Designee & Director of Public Works | 07/01/17 | 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|-------------|---|---|---|---------------|---|--------------------|
| | | documenting requests and to track follow-up activities. | | | | | |
| 3.6 Address IDDE in areas with pollutants of concern | In progress | 3.6 Address IDDE in areas with pollutants of concern. The Town screened outfalls for dry weather. The Town has hired a consultant to help track potential issues that were identified, and only one issue remains for further investigation. | Identify priority locations for IDDE program based on stormwater pollutants of concern. Tailor IDDE program to prioritize these locations and implement the program. Update Annual Report with information on the prioritized areas, actions taken by the Town to address these areas, and the anticipated pollutant reduction. | Town Engineer or Town Engineer Designee | Not specified | Initial screening complete by 06/30/20 | |

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

The Town plans the following activities for 2023:

1. Update stormwater mapping as needed.
2. Continue to utilize the Q-Alert system for citizen complaints.
3. Enforce the IDDE ordinance as necessary.
4. Continue implementation of written IDDE program based on issues previously identified.

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

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

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) |
|--|---------------------------------------|--|-----------------------------------|--|--|-------------------------------------|
| NO reported illicit discharges | | | | | | |
| NO reported sanitary sewer overflows (No sanitary sewers in Monroe) | | | | | | |

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

Illicit discharge reports are tracked using the Town's Q-Alert system, with the Director of Public Works being the primary person responsible for tracking the information and follow-up results.

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 |
|--|---|---|
| | The Monroe Health Department issued 61 permits in 2022 to repair or replace onsite sewage disposal systems. (57 residential, 4 commercial) The Health Department works with property owners and septic installers to resolve septic issues in a timely fashion. | |

3.7 IDDE reporting metrics

| Metrics | |
|--|------|
| Estimated or actual number of MS4 outfalls | 589 |
| Estimated or actual number of interconnections | 8 |
| Outfall mapping complete | 99% |
| Interconnection mapping complete | 99% |
| System-wide mapping complete (detailed MS4 infrastructure) | 99% |
| Outfall assessment and priority ranking | 100% |
| Dry weather screening of all High and Low priority outfalls complete | 589 |
| Catchment investigations complete | 10 |
| Estimated percentage of MS4 catchment area investigated | 95% |

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

Annual training is incorporated with the Town's Highway garage staff, who are trained to identify signs of potential illicit discharges, especially in the course to cleaning or replacing catch basins. The Town sanitarian is also trained.

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 | Ongoing | <p>4.1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit. Section 6.5.3 of the Town of Monroe Zoning Regulations requires consistency with the 2002 Guidelines for Soil Erosion and Sediment Control and 2004 Stormwater Quality Manual.</p> <p>The Zoning Regulations can be found here: http://www.monroect.org/filestorage/467/469/976/998/ZngRegsTOTAL_101617.pdf</p> <p>Furthermore, the Town requires consistency with the 2002 Guidelines for Soil Erosion and Sediment Control as a standard condition of approval on Inland Wetlands Applications. (Condition E2).</p> | Review existing requirements for adequacy, and require developers, construction site operators, and/or contractors to maintain consistency with the 2002 <i>Guidelines for Soil Erosion and Sedimentation Control</i> , as amended; the CT Stormwater Quality Manual; and all stormwater discharge permits issued by CTDEEP within the Town. | Town Planner | 07/01/21 | Completed: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------|---|--|---|----------|---|--------------------|
| 4.2 Develop/Implement plan for interdepartmental coordination in site plan review and approval | Complete | 4.2 Develop /Implement plan for interdepartmental coordination in site plan review and approval. The Town reviews land use applications, and routes them to the appropriate departments for review, with the Land Use Department being the primary gate keeper and coordinator of the reviews. | Develop and follow Interdepartmental Coordination Plan | Town Planner | 07/01/17 | Complete: 07/01/17 | |
| 4.3 Review site plans for stormwater quality concerns | Complete | 4.3 Review site plans for stormwater quality concerns. The Town reviews site plans for stormwater quality, per Section 6.5.3 of the Monroe Zoning Regulations. | Continue implementing updated site plan review process, site inspections, and enforcement. | Town Engineer or Town Engineer Designee | 07/01/17 | Complete: 07/01/17 | |
| 4.4 Conduct site inspections | Complete | 4.4 Conduct site inspections. The Town has a site inspection process in place, and requires the Town Inspector be notified at certain project milestones, and for the bond release at the end of the project. Additional inspections may be made in | Evaluate and update draft standard condition of approval. Inventory privately-owned retention and detention ponds, and other stormwater basins that discharge to/receive | Town Planner | 07/01/17 | Complete: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--|----------|--|---|--|----------|---|--------------------|
| | | <p>response to citizen complaints.</p> <p>The routine inspections are noted in Items 16, 20, 22 and 24 of the Pre-Construction Meeting Agenda identified in BMP 4.2.</p> | drainage from the Town's MS4. | | | | |
| 4.5 Implement procedure to allow public comment on site development | Complete | <p>4.5 Implement procedure to allow public comment on site development.</p> <p>The Town utilizes its Q-Alert system through the Town website to allow residents to report concerns with site development.</p> | Develop and implement written procedure for collecting and reviewing citizen feedback regarding proposed and ongoing land disturbance and development activities. | Town Engineer or Town Engineer Designee and Director of Public Works | 07/01/17 | Complete: 07/01/17 | |
| 4.6 Implement procedure to notify developers about DEEP construction stormwater permit | Complete | <p>4.6 Implement procedure to notify developers about DEEP construction stormwater permit.</p> <p>The Town notifies applicants of their potential obligation to register for the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities as part of its Pre-Construction Meeting Program,</p> | Continue the Town's procedure for notifying applicants of their potential obligation to register for the Construction General Permit. | Town Engineer or Town Engineer Designee and Town Planner | 07/01/17 | Complete: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------|---|---|---|----------|---|--------------------|
| | | and has a standard condition of approval. | | | | | |
| 4.7 Require Operation and Maintenance Plans | Complete | 4.7 Require Operation and Maintenance Plans. Section 6.5.2 of the Monroe Zoning Regulations requires operations and maintenance programs for proposed soil erosion and sediment control measures and stormwater management facilities. | Evaluate current regulations for consistency with MS4 permit. | Town Planner | 06/30/18 | Complete: 07/01/17 | |
| 4.8 Interjurisdictional Agreements | Complete | 4.8 Interjurisdictional Agreements. The Town has plotted its outfalls, and has identified 8 locations where its MS4 connects to CTDOT's MS4. No interconnects were identified into or from the MS4s of adjacent communities: Newtown, Easton, Shelton, and Trumbull. | Identify locations where Monroe's MS4 discharges into the MS4 of a neighboring community. Notify adjoining communities. | Town Engineer or Town Engineer Designee | 06/30/18 | Completed: 12/26/20 | |

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

The following activities are planned for 2023:

1. Continue the following practices:
 - a. Notification of applicants of their potential obligation to register under the Construction General Permit.
 - b. Utilize the Q-Alert system for citizen feedback on land disturbance activities.
 - c. Site inspections.
 - d. Site review.
 - e. Implementation of interdepartmental Pre-Construction meeting.
 - f. Require consistency with 2002 Guidelines for Soil Erosion and Sediment Control and the 2004 Stormwater Quality Manual.
-

5. Post-Construction Stormwater Management

Reference: 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 | Complete | 5.1 Low Impact Development Requirements. Section 6.5.3 of the Monroe Zoning Regulations require consistency with the 2004 Stormwater Quality Manual and the 2011 Low Impact Development Supplement. | Review and evaluate existing relevant ordinances, regulations and procedures. | Town Planner | 07/01/22 | Complete: 07/01/17 | |
| 5.2 Enforce LID/runoff reduction requirements for development and redevelopment projects | Complete | 5.2 Low Impact Development Requirements. Section 6.5.3 of the Monroe Zoning Regulations require consistency with the 2004 Stormwater Quality Manual and the 2011 Low Impact Development Supplement. | Update or develop regulations and/or design guidelines that require developers/contractors to first consider implementation of LID/runoff reduction measures for development and redevelopment projects in the Town as specified in the MS4 permit. | Town Planner | 07/01/22 | Complete: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|-------------|---|---|--|---------------|---|--------------------|
| 5.3 Identify retention and detention ponds in priority areas | In progress | 5.3 Identification of Detention Ponds in Priority Areas. The Town began its mapping efforts and is mapping known private and public detention ponds. 120 detention areas have been identified as of December 13, 2018. | Identify retention and detention ponds in priority areas. | Public: Director of Public Works Private: Town Engineer or Town Engineer Designee | 07/01/22 | Projected: 07/01/22 | |
| 5.4 Implement long-term maintenance plan for stormwater basins and treatment structures | In progress | 5.4 Implement Long Term Maintenance Plan. The Town maintains its retention and detention ponds on an as needed basis. Operations and maintenance plans are required for private basins. | Prepare draft condition of approval for inspection access. Require operation and maintenance plans. | Town Planner: | 07/01/22 | Projected: 07/01/22 | |
| 5.5 DCIA mapping | Complete | 5.5 DCIA Mapping. The Town utilized the CTDEEP impervious coverage layer, and applied the Sutherland equations to develop the DCIA cover. | Calculate the DCIA that contributes to at least one third of the outfalls within the Town's MS4, per year in 2018, 2019 and 2020. | Town Engineer or Town Engineer Designee: | 07/01/20 | Completed: 01/19/20 | |
| 5.6 Address post-construction issues in areas with pollutants of concern | Ongoing | 5.6 Post Construction Erosion and Sediment. Identify erosion and sediment problems in impaired waters. Develop and implement short- and long-term maintenance | As issues arise on publicly owned property, work is done in-house to correct the issue to the extent practicable. | Public: Director of Public Works Private: Town Planner and Town Engineer or Town | Not specified | Ongoing | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------|---|---|--|----------|---|--------------------|
| | | solutions to the problems as funding becomes available, or use legal authority to hold property owners accountable. Update annual report with identification of problem areas, the cost of the retrofit, and the anticipated pollutant reduction. | Otherwise, it is incorporated into a listing of projects. On privately owned land, typically a wetlands violation notice will be issued. | Engineer Designee | | | |
| 5.7 Turf reduction | Complete | 5.7 Turf reduction. The Town's wetland regulations require applicants to preserve as much as the natural buffer as possible. | Review need for requirements for turf reduction | Inland Wetlands Agent | 07/01/18 | Complete: 07/01/17 | |
| 5.8 Require consistency with the 2004 Connecticut Stormwater Quality Manual | Complete | 5.8 Require consistency with the 2004 Connecticut Stormwater Quality Manual. Section 6.5.3 of the Monroe Zoning Regulations require consistency with the 2004 Stormwater Quality Manual and the 2011 Low Impact Development Supplement. | Update regulations or policies for permit applicants to maintain consistency with the 2004 Stormwater Quality Manual. | Town Engineer or Town Engineer Designee and Town Planner | 07/01/18 | Complete: 07/01/17 | |
| 5.9 Coordination with Local Health Department | Ongoing | 5.9 Coordination with Local Health Department. The local Health Department is included on application reviews | Continue actively coordinating with local Health Department on | Town Planner | 07/01/18 | Complete: 07/01/17 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|-----|--------|--|------------------------|---------------------------------|-----|---|--------------------|
| | | on an as-needed basis. | MS4 Plan requirements. | | | | |

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

The following activities are proposed for 2023:

1. Continue to enforce LID site development practices
2. Identify public and private retention/detention ponds in priority areas.
3. Prepare draft condition allowing town access to new detention/retention ponds. Continue requirements for access easements in subdivisions.
4. Address post-construction sediment and erosion control issues as they occur.
5. Continue to encourage preservation and enhancement of natural buffers.
6. Continue to require consistency with the 2004 Stormwater Quality Manual.
7. Continue to coordinate application reviews with the local Health Department.

5.3 Post-Construction Stormwater Management reporting metrics

| Metrics | |
|---|-----------------------------------|
| Baseline (2012) Directly Connected Impervious Area (DCIA) | 475.48 acres |
| DCIA disconnected (redevelopment plus retrofits) | 13.05 acres |
| Retrofits completed | 0 |
| Current DCIA | 462.43 acres (2.74% disconnected) |
| Estimated cost of retrofits | \$0 |
| Detention or retention ponds identified | TBD |

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

The Town utilized the CTDEEP impervious coverage layer, and adjusted it using the Sutherland Equations as recommended by UCONN CLEAR.

6. Pollution Prevention/Good Housekeeping

Reference: 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 | Ongoing, Complete for 2022 | 6.1 Develop formal training program. The Town already provides annual training as part of its Industrial Stormwater General Permit. | Update training program as needed, incorporate MS4 topics into the annual training program already done as part of the Industrial Stormwater Permit. | Director of Public Works Parks & Recreation Board of Education | 07/01/19 | 10/19/2022 | |
| 6.2 Implement MS4 property and operations maintenance | Ongoing, complete for 2022 | 6.2a Liquid Containment and Handling. The Town offers an annual training session as part of its Industrial Stormwater permit, and utilizes secondary containment for storage of liquid materials. 6.2b Town Vehicle Washing. The Town also utilizes an independent contractor to wash vehicles. The contractor uses a containment boom and then removes the washwater from the site. | Ensure the petroleum and non-petroleum products at its facilities are properly handled via employee education and training. Develop and implement (i) Spill Prevention Plans at facilities as appropriate, (ii) management procedures for waste management equipment, and (iii) plans to sweep parking lots and keep facilities and their surrounding areas clean. Evaluate | Director of Public Works | 07/01/18 | 12/20/2022 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|-------------|--|--|---|---------------|---|--------------------|
| | | 6.2c Town Facilities Sweeping. Town-owned facilities are swept a minimum of once per year, and on an as-needed basis. | impacts of vehicle wash areas at public facilities, and develop best management practices to mitigate their impacts on water quality. | | | | |
| 6.3 Implement coordination with interconnected MS4s | Ongoing | 6.3 Identification of Interconnected MS4s. The Town has begun its mapping efforts to help identify interconnections, and has located 8 interconnections into the CTDOT Drainage System. | Coordinate municipal operations with adjoining MS4s. | Director of Public Works | Not specified | Ongoing | |
| 6.4 Develop/implement program to control other sources of pollutants to the MS4 | In progress | 6.4 Identify non-registered facilities that may be contributors. Develop a list of facilities in Town not required to register under the Industrial Stormwater Permit, and review screening and monitoring results as they become available. The Town Engineer or Town Engineer Designee has obtained a listing of commercial and industrial properties | Review stormwater general permit registrant list and identify potential contributing facilities not on the list. Compare locations of potential contributors to screening and monitoring results to determine if further investigation is warranted. | Town Engineer or Town Engineer Designee | Not specified | Projected: 06/30/22 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|--|--|---|---|----------|---|--------------------|
| | | and Town and is reviewing. | | | | | |
| 6.5 Evaluate additional measures for discharges to impaired waters* | Please refer to BMP 6.13, 6.14 and 6.15 for additional detail. | | | | | | |
| 6.6 Track projects that disconnect DCIA | Ongoing | <p>6.6 Track DCIA coverage. The Town is now using a spreadsheet to track DCIA coverage as land development projects are approved and Certificates of Occupancy are issued.</p> <p>The Town did not identify any significant disconnection projects in the past 5 years.</p> | Track the disconnected DCIA acreage, identifying DCIA credit eligible sites constructed within the preceding 5 years. | Town Engineer or Town Engineer Designee | 07/01/17 | Completed: 07/01/17 | |
| 6.7 Implement infrastructure repair/rehab program | Complete | <p>6.7 Implement infrastructure repair/ rehab program. The Town has a list of projects and reviews them periodically, adding projects or reprioritizing them.</p> <p>The Town will continue this list.</p> | Prepare draft internal policy on MS4 infrastructure repair, rehabilitation, and retrofits. | Department of Public Works | 07/01/21 | Completed: 07/01/18 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|---------------------------|--|---|---|----------|---|--------------------|
| 6.8 Develop/implement plan to identify/prioritize retrofit projects | Complete | 6.8 Implement plans based upon data from previous MS4 permit. The work conducted under the pervious MS4 permit did not indicate any problems with the Town's MS4 infrastructure that required retrofit. | Identify required repairs based on data from previous permit and prepare inventory. Make repairs as funding becomes available. | Director of Public Works | 07/01/20 | Completed: 07/01/17 | |
| 6.9 Implement retrofit projects to disconnect 2% of DCIA | Not started | 6.9 Implement retrofit projects to disconnect 2% of DCIA. The Town has approved improvements to its main firehouse that will include disconnection of impervious surfaces. | Disconnect 2% of the Town's DCIA. | Town Engineer or Town Engineer Designee | 07/01/22 | Projected: 07/01/23 | |
| 6.10 Develop/implement street sweeping program | Ongoing Complete for 2022 | 6.10 Street sweeping program. The Town sweeps all its streets on an annual basis, and sweeps additional areas where sediment accumulates more often on an as-needed basis. | Develop and implement a procedure for identifying targeted areas for additional street sweeping. Establish a schedule for street sweeping to ensure minimum frequency is met for areas inside and outside areas with DCIA greater than 11% and/or in the Urbanized Area. Document | Director of Public Works | 12/31/18 | Completed: 12/31/22 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------------------------|---|---|---------------------------------|----------|---|--------------------|
| | | | results of sweeping program. | | | | |
| 6.11 Develop/implement catch basin cleaning program | Ongoing, Complete for 2022 | 6.11 Catch basin cleaning. The Town cleans its catch basins on an annual rotating basis. 1,000 were cleaned in 2021. The catch basins are observed at the time of cleaning for structure defects and evidence of illicit discharges. | Continue conducting routine cleaning of all catch basins. Track catch basin inspection observations. Develop and implement a plan for catch basin inspection and maintenance. Update the Annual Report with documentation of the Town's catch basin cleaning and maintenance process. | Director of Public Works | 12/31/22 | Completed: 12/31/22 | |
| 6.12 Develop/implement snow management practices | Ongoing, Complete for 2022 | 6.12 Snow management practices. The Town's Highway Garage is part of its Industrial Stormwater Permit, therefore safe handling practices are included as part of the training, including the use of secondary containment. | Develop and implement a written snow and ice management plan, including protocols for staff training and record maintenance and updated standard operating practices. Provide | Director of Public Works | 12/31/22 | Completed: 12/31/22 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|--------------------------------------|----------------------------|---|---|----------------------------------|----------|---|--------------------|
| | | The Town minimizes the use of sand on its roadways, and in 2021 used sand only on unimproved roads. | appropriate secondary containment for any exterior containers of liquid dicing materials. Update the Annual Report with required information on the snow and ice program. | | | | |
| 6.13 Parks and Open Space Management | Ongoing, Complete for 2022 | <p>6.13 Parks and Open Space Management. The Town optimizes fertilizer use on its parks properties. Grass clippings are left in place, and leaves are collected and composted.</p> <p>Pesticide use is limited to select application for grub control.</p> | Continue implementing procedures for fertilizer application and disposal of grass clippings and leaves for lands that are the legal responsibility of the Town. | Director of Parks and Recreation | 12/31/22 | Completed: 12/31/22 | |
| 6.14 Pet Waste Management | Ongoing, Complete for 2022 | <p>6.14 Pet Waste Management. The Town has a policy of not allowing dogs in its parks.</p> <p>On the Pequonnock River bike path, there are containers for pet waste disposal, which are emptied by a private trash hauler.</p> | Identify locations with the town where pet waste threatens receiving water quality. | Director of Parks and Recreation | 12/31/22 | Completed: 12/11/22 | |

| BMP | Status | Activities in current reporting period | Measurable goal | Department / Person Responsible | Due | Date completed or projected completion date | Additional details |
|---|----------------------------|--|---|----------------------------------|----------|---|--------------------|
| 6.15 Waterfowl Management | Ongoing, Complete for 2022 | <p>6.15 Waterfowl Management. The Town has identified a few areas where waterfowl congregate.</p> <p>The congregation activity is seasonal and generally not significant, although sometimes in the summer there is enough activity for two to three days that may lead to closure.</p> | Identify waterfowl congregation areas. | Director of Parks and Recreation | 12/31/18 | Completed: 12/31/12 | |
| 6.16 Mitigate Stormwater Quality Impacts of Town-Owned Vehicles and Equipment | Complete for 2022 | <p>6.16 Mitigate Stormwater Quality Impacts of Town-Owned Vehicles and Equipment. The Town's Industrial General Permit SWPPP identifies fueling/washing and vehicle maintenance provisions.</p> | Review existing operations and maintenance procedures for Town facilities, and update if the vehicle fueling/washing provisions have not been included. | Director of Public Works | 07/01/18 | Completed: 12/31/22 | |
| 6.17 Leaf Management | Complete for 2022 | <p>6.17 Leaf management. The Town does not provide leaf pickup, but advises residents not to rake their leaves into the street.</p> | Provide notice to residents about not raking leaves into streets on the Town website. | Director of Public Works | 07/01/18 | Completed: 12/31/22 | |

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

Activities proposed for 2022 include:

1. Continue employee training programs.
2. Continue to institute requirements of the Industrial general Permit SWPPP.
3. Identify potential contributors from General Permit non-registrants.
4. Track DCIA disconnection.
5. Continue existing infrastructure repair policies.
6. Perform infrastructure repairs as needed and as funding is available.
7. Continue street sweeping program.
8. Continue catch basin cleaning program.
9. Continue snow management practices.
10. Continue to optimize fertilizers on town properties.
11. Continue prohibition on dogs from town parks.
12. Identify need for signage to discourage feeding of waterfowl.
13. Continue to maintain and wash Town vehicles in accordance with the Industrial General Permit.
14. Continue leaf management policy.

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

| Metrics | |
|--|-----------------|
| Employee training provided for key staff | Yes, 10/19/2022 |
| Street sweeping | |
| Curb miles swept | 262 |
| Volume (or mass) of material collected | Unknown |
| Catch basin cleaning | |
| Total catch basins in priority areas | 3,100 |
| Total catch basins in MS4 | 3,100 |
| Catch basins inspected | 1,000 |
| Catch basins cleaned | 1,000 |
| Volume (or mass) of material removed from all catch basins | 624 cy |

| | |
|--|-----------------------------|
| 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 | 1,850 tons |
| Type(s) of deicing equipment used | Spreader |
| Lane-miles treated | 137 lane-miles |
| Snow disposal location | In-situ, no hauling of snow |
| Staff training provided on application methods & equipment | Yes, 11/2022 |
| Municipal turf management program actions (for permittee properties in basins with N/P impairments) | |
| Reduction in application of fertilizers (since start of permit) | 0 lbs. |
| 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 | \$0 |

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]

The Town has swept their streets and parking lots for a number of years, and based upon this experience, are well aware of the locations where additional cleaning is necessary, typically adjacent to heavily trafficked areas and at roadway low points.

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.]

Projects are identified on an as-needed basis, and implemented based upon perceived benefit or potential impact to water quality. The Town approved improvements to the main firehouse that will also disconnect 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 2017 report. Section to be completed for the 2019 Annual Report.]

The retrofit program will continue to proceed on an as-needed basis, as funding is made available. The Town is evaluating its properties to identify potential disconnection opportunities, and looks for disconnection opportunities in site plan applications by default since the Town requires conformance with the 2011 LID Supplement to the 2004 Stormwater Quality Manual.

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.]

The Town will continue with its existing process for implementing its own projects, and also for reviewing Town projects and site applications as they come in for review to help achieve the DCIA reduction goal. The Town has begun tracking impervious cover changes on a master spreadsheet.

Part II: Impaired Waters Investigation and Monitoring

1. Impaired Waters Investigation and Monitoring Program

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

<http://s.uconn.edu/ctms4map>.

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

1.2 Describe program status

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

At the start of the permit, no Town-owned outlets discharge directly to the Housatonic River or Lake Zoar, which were the only stormwater impaired waterbodies in the Town of Monroe. Therefore, impaired waters investigation and monitoring were not required.

The 2018 Impaired Rivers list added a section of the Farmill River to the impaired waterbody list. Its listed impairment is E. Coli. Since the list was made available August 1, 2019, after the FY 2019-2020 budget allocations had been made, funding was included in FY 2020-2021 to screen the Farmill River during wet weather events.

The Town has only two direct outfalls to the Farmill River. One at Moose Hill Road and the other on Far Mill Road, which were sampled, and were below the E. coli threshold.

The 2020 Impaired Waters List added the Pequonnock River through Town and the West Branch of the Pequonnock River to the Impaired Waters inventory. Both watercourses are stormwater impaired for bacteria.

These outfalls will be sampled in 2023, as they are new to the Town's impaired waters program:

West Branch of Pequonnock River:

2C894 – End of Maple Terrace
5FFCF – Old Newtown Road
02A0B – Old Newtown Road

Pequonnock River

2182F – Purdy Hill Road
562EA – Purdy Hill Road
38752 – Cutlers Farm Road
D88B5 – Cutlers Farm Road
DC13B – Cutlers Farm Road
879E5 – West Maiden Lane

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

2.1 Screening data collected under 2017 permit

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

| Outfall ID | Sample date | Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern) | Results | Name of Laboratory (if used) | Follow-up required? |
|------------|-------------|---|---------------------|------------------------------------|---------------------|
| D4635 | 03/18/21 | Bacteria | E. coli: 307 col/mL | EML | No |
| 7E729 | 03/18/21 | Bacteria | E. coli: 300 col/mL | EML | No |

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 |
|---------|---------------------------------------|---|
| 7E729 | To begin in 2023 | |
| | | |
| | | |
| | | |
| | | |
| | | |

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) |
|---------|-------------|--------------|---|------------------------------|
| D4635 | 03/18/21 | Bacteria | E. coli: 307 col/100 mL | EML |
| | 03/24/22 | Bacteria | E. coli: 4 col/100 mL Total coliform: 326 col/100 mL | EML |
| 7E729 | 03/18/21 | Bacteria | E. coli: 300 col/100 mL | EML |
| | 03/24/22 | Bacteria | E. coli: 23 col/100 mL Total coliform: 1,986 col/100 mL | EML |

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments Data

Reference: 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). Note: Rankings were made by category, using a scoring assessment that evaluated previous screening results, discharge to a location of public health concern, past discharge complaints, receiving water quality, age of infrastructure, presence of combined sewer or septic systems, age of the septic systems, and the presence of culverted streams. Where catchments had the same score, impervious coverage from the state impervious cover layer was used as a tie breaker.

| (1) Catchment ID (DEEP Basin ID) | (2) Category | (3) Rank |
|--|-----------------|-------------|
| 6022-00-1 | Excluded | 1 |
| 6000-63-1 | Excluded | 2 |
| 6000-00-05+L2 | High Priority | 1 |
| 6000-00-05+R8 | High Priority | 2 |
| 6000-00-05+R9 | High Priority | 3 |
| 6000-00-05+R10 | High Priority | 4 |
| 7105-03-1 | Low Priority | 1 |
| 7105-00-2-R1 | Low Priority | 2 |
| 6025-00-1 | Low Priority | 3 |
| 7105-04-1 | Low Priority | 4 |
| 6025-01-1-L1 | Low Priority | 5 |
| 6022-03-1 | Low Priority | 6 |
| 6025-03-2-R1 | Low Priority | 7 |
| 7105-01-2-R1 | Low Priority | 8 |
| 6025-00-2-L1 | Low Priority | 9 |
| 6025-03-1-L1 | Low Priority | 10 |
| 6024-02-1-L1 | Low Priority | 11 |
| 6025-01-1 | Low Priority | 12 |
| 6025-03-1 | Low Priority | 13 |

| (1) Catchment ID (DEEP Basin ID) | (2) Category | (3) Rank |
|--|-----------------|-------------|
| 6024-01-1 | Low Priority | 14 |
| 6024-02-1 | Low Priority | 15 |
| 6024-00-2-R1 | Low Priority | 16 |
| 7105-01-1 | Low Priority | 17 |
| 7105-00-1-L1 | Low Priority | 18 |
| 6025-04-1 | Low Priority | 19 |
| 6025-00-2-R1 | Low Priority | 20 |
| 7105-00-1 | Low Priority | 21 |
| 6022-00-3-R2 | Low Priority | 22 |
| 6020-01-1 | Low Priority | 23 |
| 6020-01-1-L1 | Low Priority | 24 |
| 6020-01-2-L1 | Low Priority | 25 |
| 6020-00-1 | Low Priority | 26 |
| 6022-04-1-L1 | Low Priority | 27 |
| 6022-02-1 | Low Priority | 28 |
| 6022-00-3-R3 | Low Priority | 29 |
| 6022-03-2-R1 | Low Priority | 30 |
| 6022-00-2-R1 | Low Priority | 31 |
| 6022-00-2-R2 | Low Priority | 32 |
| 6022-00-3-R1 | Low Priority | 33 |
| 6022-04-1 | Low Priority | 34 |
| 7105-01-2-L1 | Low Priority | 35 |
| 6024-00-1 | Low Priority | 36 |
| 7108-00-1 | Low Priority | 37 |
| 7108-00-2-L2 | Low Priority | 38 |
| 6000-61-1 | Low Priority | 39 |
| 6022-02-1-L1 | Low Priority | 40 |
| 7105-02-1 | Low Priority | 41 |

2. Outfall and Interconnection Screening and Sampling Data

Reference: 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. Where no data is presented, the outfall was not flowing at the time of visit. Values exceeding follow-up criteria are identified in red.

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|--------------------------------------|
| 584CB | 1/10/2019 | | | | | | | | | |
| 862BC | 1/10/2019 | ND | ND | 736 | 0.4 | 0 | ND | 42 | | |
| D6287 | 1/10/2019 | ND | ND | 202 | 0.28 | 0 | ND | 38 | | |
| 03ED1 | 1/10/2019 | | | | | | | | | |
| 1B8A0 | 1/10/2019 | ND | ND | 469 | 0.04 | 1 | ND | 43 | | |
| 9A920 | 1/10/2019 | ND | ND | 525 | 0.29 | 3 | ND | 41 | | |
| 752A1 | 1/10/2019 | ND | ND | 273 | 0.03 | 6 | ND | 39 | | |
| 2C894 | 1/10/2019 | | | | | | | | | |
| 5FFCF | 1/10/2019 | | | | | | | | | |
| 02A0B | 1/10/2019 | ND | ND | 136 | 0.21 | 0 | ND | 42 | | |
| 7849B | 1/10/2019 | ND | ND | 146 | 0.12 | 0 | ND | 37 | | |
| 65504 | 1/11/2019 | ND | ND | 93 | 0.45 | 186 | ND | 39 | | |
| 3B542 | 1/11/2019 | | | | | | | | | |
| 37676 | 1/11/2019 | ND | ND | 333 | 0.08 | 1 | 0.034 | 40 | | |
| C6C94 | 1/11/2019 | ND | ND | 708 | 0.33 | 53 | 0.053 | 37 | | |
| 09BE6 | 1/11/2019 | ND | ND | 589 | 0.42 | 1 | ND | 41 | | |
| 23251 | 1/11/2019 | | | | | | | | | |
| F5697 | 1/11/2019 | | | | | | | | | |
| 0061D | 1/11/2019 | | | | | | | | | |
| B7D57 | 1/11/2019 | | | | | | | | | |
| BC64F | 1/11/2019 | ND | ND | 177 | 0.09 | 0 | ND | 39 | | |
| ABD89 | 1/11/2019 | | | | | | | | | |
| 21B4E | 1/11/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|--------------------------------------|
| 27D7E | 1/11/2019 | | | | | | | | | |
| 53B20 | 1/11/2019 | | | | | | | | | |
| 5A84B | 1/11/2019 | | | | | | | | | |
| F7669 | 1/11/2019 | | | | | | | | | |
| E9694 | 1/11/2019 | | | | | | | | | |
| 981BA | 1/11/2019 | | | | | | | | | |
| 981BA | 1/14/2019 | ND | ND | 184 | 0.33 | 0 | ND | 38 | | |
| 43388 | 1/14/2019 | ND | ND | 520 | 0.15 | 0 | ND | 39 | | |
| 022B5 | 1/14/2019 | ND | ND | 395 | 0.33 | 0 | ND | 39 | | |
| 21B4E | 1/14/2019 | | | | | | | | | |
| FE5C3 | 1/14/2019 | | | | | | | | | |
| C496A | 1/14/2019 | ND | ND | 340 | 0.17 | 1 | ND | 38 | | |
| 3F377 | 1/14/2019 | | | | | | | | | |
| 4D4AB | 1/14/2019 | ND | ND | 338 | 0.27 | 0 | 0.033 | 41 | | |
| DD95F | 1/14/2019 | | | | | | | | | |
| 9305A | 1/14/2019 | | | | | | | | | |
| 3DBD3 | 1/14/2019 | ND | ND | 669 | 0.02 | 0 | 0.033 | 42 | | |
| 1867B | 1/14/2019 | | | | | | | | | |
| 31D12 | 1/14/2019 | ND | ND | 101 | 0.22 | 1 | ND | 40 | | |
| 2535E | 1/14/2019 | ND | ND | 235 | 0.2 | 0 | ND | 39 | | |
| 7F1EA | 1/14/2019 | ND | ND | 686 | 0.41 | 0 | ND | 40 | | |
| 9D02D | 1/14/2019 | | | | | | | | | |
| E74B5 | 1/14/2019 | | | | | | | | | |
| 5A5FB | 1/14/2019 | | | | | | | | | |
| A44BF | 1/14/2019 | | | | | | | | | |
| 0B12A | 1/14/2019 | | | | | | | | | |
| 3941D | 1/14/2019 | ND | ND | 239 | 0.38 | 0 | ND | 41 | | |
| AD2AF | 1/15/2019 | | | | | | | | | |
| 7B4D6 | 1/15/2019 | | | | | | | | | |
| D6876 | 1/15/2019 | | | | | | | | | |
| 09BE4 | 1/15/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------------|-------------------------------|-----------------|------------------|-----------------------|------------------|--|----------------------|---------------------|----------------------------|---|
| C8C99 | 1/15/2019 | | | | | | | | | |
| 2B9D5 | 1/15/2019 | | | | | | | | | |
| 10A5A | 1/15/2019 | | | | | | | | | |
| AD021 | 1/15/2019 | | | | | | | | | |
| D385C | 1/15/2019 | | | | | | | | | |
| 7A5B8 | 1/15/2019 | | | | | | | | | |
| AB1DB | 1/15/2019 | | | | | | | | | |
| 830D3 | 1/15/2019 | | | | | | | | | |
| 91829 | 1/15/2019 | | | | | | | | | |
| 5F246 | 1/15/2019 | | | | | | | | | |
| DB925 | 1/15/2019 | | | | | | | | | |
| DE92D | 1/15/2019 | | | | | | | | | |
| 25CFD | 1/15/2019 | | | | | | | | | |
| 60F54 | 1/15/2019 | | | | | | | | | |
| 26CD9 | 1/15/2019 | | | | | | | | | |
| 41D35 | 1/15/2019 | | | | | | | | | |
| B7DA8 | 1/15/2019 | | | | | | | | | |
| 97BD9 | 1/15/2019 | | | | | | | | | |
| 5E743 | 1/15/2019 | | | | | | | | | |
| D279E | 1/15/2019 | | | | | | | | | |
| 5F44D | 1/15/2019 | | | | | | | | | |
| 0ED2B | 1/15/2019 | | | | | | | | | |
| 15BEB | 1/15/2019 | | | | | | | | | |
| ED145 | 1/15/2019 | | | | | | | | | |
| 4015E | 1/15/2019 | | | | | | | | | |
| 4A1CE | 1/15/2019 | | | | | | | | | |
| CE4D9 | 1/15/2019 | | | | | | | | | |
| 52F0D | 1/15/2019 | | | | | | | | | |
| 1C41F | 1/15/2019 | | | | | | | | | |
| FA9D8 | 1/15/2019 | | | | | | | | | |
| 5FCBA | 1/15/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|---|
| 9EE69 | 1/15/2019 | | | | | | | | | |
| FC93C | 1/16/2019 | ND | ND | 123 | 0.05 | 0 | ND | 43 | | |
| 22CF5 | 1/16/2019 | ND | ND | 350 | 0.23 | 435 | ND | 38 | | Refer to Section 3.4. Follow-up completed, pet waste documentation distributed. |
| 73BF3 | 1/16/2019 | | | | | | | | | |
| B7DDE | 1/16/2019 | ND | ND | 594 | 0.44 | 0 | ND | 42 | | |
| 4CBF1 | 1/16/2019 | | | | | | | | | |
| E7496 | 1/16/2019 | ND | ND | 663 | 0.15 | 1,733 | ND | 41 | | Refer to Section 3.4. Follow-up completed, determined no illicit discharge. |
| D538D | 1/16/2019 | ND | ND | 610 | 0.48 | 2 | ND | 38 | | |
| 75DEC | 1/16/2019 | | | | | | | | | |
| 4FE91 | 1/16/2019 | | | | | | | | | |
| 5EA7D | 1/16/2019 | ND | ND | 667 | 0.04 | 11 | ND | 41 | | |
| CB50D | 1/16/2019 | | | | | | | | | |
| 4A2A2 | 1/16/2019 | ND | ND | 234 | 0.12 | 1 | ND | 39 | | |
| 00EEE | 1/16/2019 | ND | ND | 108 | 0.15 | 78 | ND | 37 | | |
| 8FC77 | 1/16/2019 | ND | ND | 295 | 0.48 | 5 | ND | 42 | | |
| 3524C | 1/16/2019 | | | | | | | | | |
| 32157 | 1/17/2019 | ND | ND | 205 | 0.45 | 1 | | 43 | | |
| 7A5F9 | 1/17/2019 | | | | | | | | | |
| C0D6B | 1/17/2019 | | | | | | | | | |
| BBFFD | 1/17/2019 | ND | ND | 337 | 0.29 | 0 | | 42 | | |
| 9435C | 1/17/2019 | ND | ND | 326 | 0.32 | 0 | | 40 | | |
| 752EB | 1/17/2019 | | | | | | | | | |
| D08B8 | 1/17/2019 | ND | ND | 432 | 0.32 | 0 | | 43 | | |
| 76F83 | 1/17/2019 | ND | ND | 617 | 0.08 | 0 | | 37 | | |
| 006DF | 1/17/2019 | ND | ND | 597 | 0.01 | 0 | | 41 | | |
| 7.40E+73 | 1/17/2019 | | | | | | | | | |
| 5D926 | 1/17/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------------|-------------------------------|-----------------|------------------|-----------------------|------------------|--|----------------------|---------------------|----------------------------|---|
| 7F08B | 1/17/2019 | ND | ND | 687 | 0.39 | 1 | | 39 | | |
| D3A11 | 1/17/2019 | ND | ND | 646 | 0.18 | 1 | | 37 | | |
| 2483F | 1/17/2019 | | | | | | | | | |
| 9BE24 | 1/17/2019 | | | | | | | | | |
| ACC48 | 1/17/2019 | | | | | | | | | |
| E40CB | 1/17/2019 | | | | | | | | | |
| B02F9 | 1/17/2019 | | | | | | | | | |
| 2D000 | 1/28/2019 | | | | | | | | | |
| 2A12A | 1/28/2019 | | | | | | | | | |
| 741B4 | 1/28/2019 | | | | | | | | | |
| CC155 | 1/28/2019 | | | | | | | | | |
| 85803 | 1/28/2019 | | | | | | | | | |
| 55409 | 1/28/2019 | | | | | | | | | |
| E4B4D | 1/28/2019 | | | | | | | | | |
| D2CC6 | 1/28/2019 | | | | | | | | | |
| DDBA0 | 1/28/2019 | | | | | | | | | |
| 0912C | 1/28/2019 | | | | | | | | | |
| EB380 | 1/28/2019 | | | | | | | | | |
| D14D3 | 1/28/2019 | | | | | | | | | |
| 3F4E8 | 1/28/2019 | | | | | | | | | |
| 938FC | 1/28/2019 | | | | | | | | | |
| 72D32 | 1/28/2019 | | | | | | | | | |
| 721C8 | 1/28/2019 | | | | | | | | | |
| 2AF7A | 1/28/2019 | | | | | | | | | |
| 8A06C | 1/28/2019 | | | | | | | | | |
| E47A0 | 1/28/2019 | | | | | | | | | |
| 173AD | 1/28/2019 | | | | | | | | | |
| C0DD2 | 1/28/2019 | | | | | | | | | |
| D0FE5 | 1/28/2019 | | | | | | | | | |
| 2.60E+05 | 1/28/2019 | | | | | | | | | |
| ABFA3 | 1/28/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|---|
| 1.10E+03 | 1/28/2019 | | | | | | | | | |
| 0013E | 1/28/2019 | | | | | | | | | |
| 0EE40 | 1/28/2019 | | | | | | | | | |
| D6954 | 1/28/2019 | | | | | | | | | |
| F74D3 | 1/28/2019 | | | | | | | | | |
| F614C | 1/28/2019 | | | | | | | | | |
| B951B | 1/28/2019 | | | | | | | | | |
| 15642 | 1/28/2019 | | | | | | | | | |
| B377B | 1/29/2019 | | | | | | | | | |
| 5AE15 | 1/29/2019 | | | | | | | | | |
| 7FD59 | 1/29/2019 | ND | ND | 248 | 0.2 | 6 | ND | 41 | | |
| 7.50E+34 | 1/29/2019 | | | | | | | | | |
| 99703 | 1/29/2019 | ND | ND | 709 | 0.11 | 5 | ND | 38 | | |
| 1A8F4 | 1/29/2019 | | | | | | | | | |
| 4AA6B | 1/29/2019 | ND | ND | 274 | 0.46 | 76 | ND | 42 | | |
| 1BA2B | 1/29/2019 | ND | ND | 322 | 0.13 | 19 | ND | 42 | | |
| CDC74 | 1/29/2019 | ND | ND | 436 | 0.29 | 5 | ND | 42 | | |
| C490A | 1/29/2019 | ND | ND | 357 | 0.12 | 1 | ND | 38 | | |
| 4FA2D | 1/29/2019 | | | | | | | | | |
| 6509A | 1/29/2019 | ND | ND | 657 | 0.16 | 4 | ND | 39 | | |
| C8E87 | 1/29/2019 | | | | | | | | | |
| 6538D | 1/29/2019 | ND | ND | 181 | 0.29 | 8 | ND | 38 | | |
| C0FFC | 1/29/2019 | ND | ND | 212 | 0.47 | 488 | ND | 42 | | Refer to Section 3.4. Follow-up completed, pet waste documentation distributed. |
| A3E90 | 1/29/2019 | ND | ND | 284 | 0.05 | 0 | ND | 42 | | |
| E689E | 2/4/2019 | ND | ND | 106 | 0.36 | 238 | ND | 38 | | |
| AFBE4 | 2/4/2019 | | | | | | | | | |
| 519DA | 2/4/2019 | ND | ND | 554 | 0.15 | 7 | ND | 40 | | |
| 254EE | 2/4/2019 | | | | | | | | | |
| F19BC | 2/4/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|---|
| E39AB | 2/4/2019 | ND | ND | 403 | 0.02 | 1 | ND | 42 | | |
| 54218 | 2/4/2019 | ND | ND | 132 | 0.17 | 0 | ND | 40 | | |
| B636F | 2/4/2019 | | | | | | | | | |
| 0E609 | 2/4/2019 | | | | | | | | | |
| 9C830 | 2/4/2019 | | | | | | | | | |
| 9E604 | 2/4/2019 | ND | ND | 274 | 0.08 | 1 | ND | 37 | | |
| 58907 | 2/4/2019 | ND | ND | 746 | 0.47 | 0 | ND | 42 | | |
| 2CF07 | 2/4/2019 | | | | | | | | | |
| BB519 | 2/4/2019 | ND | ND | 708 | 0.45 | 4 | ND | 37 | | |
| F5658 | 2/5/2019 | | | | | | | | | |
| 377F2 | 2/5/2019 | | | | | | | | | |
| 2933 | 2/5/2019 | | | | | | | | | |
| E58E3 | 2/5/2019 | | | | | | | | | |
| A8E58 | 2/5/2019 | | | | | | | | | |
| 5A5E8 | 2/5/2019 | | | | | | | | | |
| B1244 | 2/5/2019 | ND | ND | 706 | 0.07 | 7 | ND | 41 | | |
| 13D28 | 2/5/2019 | ND | ND | 117 | 0.43 | 9 | ND | 37 | | |
| 2A428 | 2/5/2019 | | | | | | | | | |
| 26ADA | 2/5/2019 | ND | ND | 112 | 0.05 | 0 | ND | 41 | | |
| D7CF4 | 2/5/2019 | ND | ND | 436 | 0.11 | 411 | ND | 42 | | Refer to Section 3.4. Follow-up completed, pet waste documentation distributed. |
| AB403 | 2/5/2019 | | | | | | | | | |
| 82140 | 2/5/2019 | ND | ND | 574 | 0.15 | 0 | ND | 42 | | |
| 7637 | 2/5/2019 | ND | ND | 441 | 0.09 | 0 | ND | 39 | | |
| 3902E | 2/5/2019 | | | | | | | | | |
| E89CE | 2/5/2019 | ND | ND | 408 | 0.45 | 2 | ND | 41 | | |
| 1A339 | 2/5/2019 | ND | ND | 748 | 0.06 | 0 | ND | 42 | | |
| E6C37 | 2/6/2019 | | | | | | | | | |
| 6BC55 | 2/6/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|---|
| E463F | 2/6/2019 | ND | ND | 432 | 0.36 | 649 | ND | 43 | | Refer to Section 3.4. Follow-up completed, pet waste documentation distributed. |
| 4A892 | 2/6/2019 | ND | ND | 578 | 0.03 | 0 | ND | 39 | | |
| 8E556 | 2/6/2019 | ND | ND | 52 | 0.26 | 1 | ND | 43 | | |
| 03BA0 | 2/6/2019 | ND | ND | 723 | 0.16 | 4 | ND | 43 | | |
| F30E3 | 2/6/2019 | | | | | | | | | |
| C1861 | 2/6/2019 | | | | | | | | | |
| 918BE | 2/6/2019 | | | | | | | | | |
| 1FC15 | 2/6/2019 | ND | ND | 341 | 0.46 | 19 | ND | 40 | | |
| F4934 | 2/6/2019 | ND | ND | 689 | 0.41 | 0 | ND | 40 | | |
| 9E3C6 | 2/6/2019 | ND | ND | 182 | 0.03 | 4 | ND | 40 | | |
| AA1B0 | 2/6/2019 | | | | | | | | | |
| E4DAE | 2/6/2019 | | | | | | | | | |
| 303CB | 2/11/2019 | | | | | | | | | |
| E6D17 | 2/11/2019 | ND | ND | 347 | 0.48 | 2 | ND | 40 | | |
| 6C55E | 2/11/2019 | | | | | | | | | |
| 402E9 | 2/11/2019 | ND | ND | 125 | 0.4 | 0 | ND | 39 | | |
| 3D640 | 2/11/2019 | ND | ND | 615 | 0.03 | 3 | ND | 41 | | |
| 8D731 | 2/11/2019 | | | | | | | | | |
| B4CAE | 2/11/2019 | ND | ND | 579 | 0.16 | 2,420 | ND | 37 | | Refer to Section 3.4. Follow-up completed, pet waste documentation distributed. |
| BE112 | 2/11/2019 | ND | ND | 273 | 0.02 | 108 | ND | 43 | | |
| E4C0A | 2/11/2019 | | | | | | | | | |
| 94880 | 2/11/2019 | ND | ND | 448 | 0.25 | 0 | ND | 38 | | |
| 54C08 | 2/11/2019 | | | | | | | | | |
| CDFC1 | 2/11/2019 | | | | | | | | | |
| B7DDD | 2/11/2019 | ND | ND | 277 | 0.33 | 138 | ND | 42 | | |
| 0BD07 | 2/11/2019 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|--|
| 178DA | 2/11/2019 | ND | ND | 164 | 0.2 | 0 | ND | 42 | | |
| 7601D | 2/11/2019 | | | | | | | | | |
| 6F2E7 | 2/11/2019 | ND | ND | 455 | 0.26 | 58 | ND | 42 | | |
| D418A | 3/2/2020 | ND | ND | 239 | 0.12 | 461 | ND | 54 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |
| 1867B | 3/2/2020 | | | | | | | | | |
| 9305A | 3/2/2020 | | | | | | | | | |
| DD95F | 3/2/2020 | | | | | | | | | |
| 53B20 | 3/2/2020 | | | | | | | | | |
| 27D7E | 3/2/2020 | | | | | | | | | |
| 4D4AB | 3/2/2020 | | | | | | | | | |
| B6255 | 3/2/2020 | | | | | | | | | |
| DA027 | 3/2/2020 | | | | | | | | | |
| BB64D | 3/2/2020 | | | | | | | | | |
| F6CE2 | 3/2/2020 | | | | | | | | | |
| 69443 | 3/2/2020 | | | | | | | | | |
| E9FD1 | 3/2/2020 | | | | | | | | | |
| A1B6E | 3/2/2020 | | | | | | | | | |
| 117D3 | 3/2/2020 | | | | | | | | | |
| 06910 | 3/2/2020 | | | | | | | | | |
| 5DC24 | 3/2/2020 | | | | | | | | | |
| 2C25D | 3/2/2020 | | | | | | | | | |
| 3DBD3 | 3/2/2020 | ND | ND | 489 | 0.23 | 0 | 0.04 | 50 | | |
| BEF44 | 3/2/2020 | ND | ND | 330 | 0.16 | 0 | 0.03 | 51 | | |
| 10FBB | 3/3/2020 | ND | ND | 380 | 0.19 | 5 | ND | 55 | | |
| E1DB4 | 3/3/2020 | ND | ND | 323 | 0.16 | 0 | ND | 53 | | |
| E9BC2 | 3/3/2020 | ND | ND | 300 | 0.15 | 2 | ND | 55 | | |
| C12B4 | 3/3/2020 | | | | | | | | | |
| BDEC5 | 3/3/2020 | | | | | | | | | |
| 7118A | 3/3/2020 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------------|-------------------------------|-----------------|------------------|-----------------------|------------------|--|----------------------|---------------------|----------------------------|---|
| B3469 | 3/3/2020 | | | | | | | | | |
| 41BD0 | 3/3/2020 | | | | | | | | | |
| 8E597 | 3/3/2020 | | | | | | | | | |
| 65969 | 3/3/2020 | | | | | | | | | |
| 44813 | 3/3/2020 | | | | | | | | | |
| F9168 | 3/3/2020 | | | | | | | | | |
| 4F29E | 3/3/2020 | | | | | | | | | |
| 7A916 | 3/3/2020 | | | | | | | | | |
| 2803F | 3/3/2020 | | | | | | | | | |
| B064E | 3/3/2020 | | | | | | | | | |
| 511B4 | 3/3/2020 | | | | | | | | | |
| 92130 | 3/3/2020 | | | | | | | | | |
| B5C19 | 3/3/2020 | | | | | | | | | |
| BCDCC | 3/3/2020 | | | | | | | | | |
| 73EB3 | 3/3/2020 | | | | | | | | | |
| FF291 | 3/3/2020 | | | | | | | | | |
| DF965 | 3/3/2020 | | | | | | | | | |
| E20F8 | 3/3/2020 | | | | | | | | | |
| CD637 | 3/3/2020 | | | | | | | | | |
| 6A2A8 | 3/3/2020 | | | | | | | | | |
| BF03C | 3/3/2020 | | | | | | | | | |
| 7BA0D | 3/3/2020 | | | | | | | | | |
| CF066 | 3/3/2020 | | | | | | | | | |
| 8CF7C | 3/3/2020 | | | | | | | | | |
| 7A916 | 3/3/2020 | | | | | | | | | |
| 70CD8 | 3/3/2020 | | | | | | | | | |
| 70866 | 3/3/2020 | | | | | | | | | |
| 27552 | 3/4/2020 | ND | ND | 205 | 0.10 | 0 | ND | 56 | | |
| 83947 | 3/4/2020 | ND | ND | 200 | 0.10 | 14 | 0.03 | 56 | | |
| E4B28 | 3/4/2020 | ND | ND | 323 | 0.16 | 7 | ND | 55 | | |
| 3F918 | 3/4/2020 | ND | ND | 324 | 0.16 | 142 | 0.04 | 55 | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|--------------------------------------|
| D88B5 | 3/4/2020 | | | | | | | | | |
| 38752 | 3/4/2020 | | | | | | | | | |
| D5D1B | 3/4/2020 | | | | | | | | | |
| C7DC0 | 3/4/2020 | | | | | | | | | |
| 48AE9 | 3/4/2020 | | | | | | | | | |
| C915B | 3/4/2020 | | | | | | | | | |
| 5F52A | 3/4/2020 | | | | | | | | | |
| B1293 | 3/4/2020 | | | | | | | | | |
| E0770 | 3/4/2020 | | | | | | | | | |
| DC13B | 3/4/2020 | | | | | | | | | |
| F4FD3 | 3/5/2020 | ND | ND | 292 | 0.15 | 10 | ND | 53 | | |
| 48980 | 3/5/2020 | ND | ND | 340 | 0.17 | 8 | 0.02 | 56 | | |
| 15336 | 3/5/2020 | ND | ND | 304 | 0.15 | 75 | ND | 53 | | |
| 191AF | 3/5/2020 | ND | ND | 360 | 0.18 | 8 | 0.02 | 53 | | |
| F55CE | 3/5/2020 | ND | ND | 329 | 0.17 | 45 | ND | 51 | | |
| C913F | 3/5/2020 | ND | ND | 143 | 0.07 | 0 | ND | 58 | | |
| E2A57 | 3/5/2020 | | | | | | | | | |
| C00F2 | 3/5/2020 | | | | | | | | | |
| FF06F | 3/5/2020 | | | | | | | | | |
| 3DB28 | 3/5/2020 | | | | | | | | | |
| 8BF2B | 3/5/2020 | | | | | | | | | |
| 9A381 | 3/5/2020 | | | | | | | | | |
| B302B | 3/5/2020 | | | | | | | | | |
| 6327E | 3/5/2020 | | | | | | | | | |
| 3FE10 | 3/5/2020 | | | | | | | | | |
| 0AB5B | 3/5/2020 | | | | | | | | | |
| 3C5F5 | 3/5/2020 | | | | | | | | | |
| DC856 | 3/5/2020 | | | | | | | | | |
| 20D1E | 3/5/2020 | | | | | | | | | |
| 0944F | 3/6/2020 | | | | | 0 | ND | | | |
| 22659 | 3/6/2020 | | | | | 0 | ND | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------------|-------------------------------|-----------------|------------------|-----------------------|------------------|--|----------------------|---------------------|----------------------------|---|
| 51A30 | 3/10/2020 | ND | ND | 266 | 0.13 | 0 | ND | 52 | | |
| 1F02A | 3/10/2020 | ND | ND | 296 | 0.15 | 84 | 0.05 | 54 | | |
| B9460 | 3/10/2020 | ND | ND | 384 | 0.19 | 307 | ND | 51 | | |
| C615C | 3/10/2020 | ND | ND | 107 | 0.05 | 4 | ND | 49 | | |
| E89CE | 3/10/2020 | ND | ND | 585 | 0.28 | 0 | ND | 60 | | |
| C6AA2 | 3/10/2020 | ND | ND | 321 | 0.07 | 0 | ND | 54 | | |
| 7CCF1 | 3/10/2020 | | | | | | | | | |
| 3BD84 | 3/10/2020 | | | | | | | | | |
| 86F95 | 3/10/2020 | | | | | | | | | |
| A1482 | 3/10/2020 | | | | | | | | | |
| 3CE19 | 3/10/2020 | | | | | | | | | |
| 94C20 | 3/10/2020 | | | | | | | | | |
| 4267C | 3/10/2020 | | | | | | | | | |
| AECCE | 3/10/2020 | | | | | | | | | |
| C7016 | 3/10/2020 | | | | | | | | | |
| BB519 | 3/10/2020 | | | | | | | | | |
| 92B81 | 3/10/2020 | | | | | | | | | |
| 30E2F | 3/10/2020 | | | | | | | | | |
| 1E487 | 3/10/2020 | | | | | | | | | |
| 8D365 | 3/10/2020 | | | | | | | | | |
| 16F61 | 3/10/2020 | | | | | | | | | |
| 5536D | 3/10/2020 | | | | | | | | | |
| 13F39 | 3/10/2020 | | | | | | | | | |
| F8B73 | 3/10/2020 | | | | | | | | | |
| 8A298 | 3/10/2020 | | | | | | | | | |
| 83280 | 3/11/2020 | ND | ND | 361 | 0.10 | 0 | ND | 57 | | |
| DODD5 | 3/11/2020 | ND | ND | 1,466 | 0.73 | 0 | ND | 50 | | |
| C8BB4 | 3/11/2020 | ND | ND | 458 | 0.23 | 1 | ND | 50 | | |
| 7B4E3 | 3/11/2020 | | | | | | | | | |
| E1684 | 3/11/2020 | | | | | | | | | |
| FBCCD | 3/11/2020 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|--|
| 49DD4 | 3/11/2020 | | | | | | | | | |
| C2916 | 3/11/2020 | | | | | | | | | |
| 70D2A | 3/11/2020 | | | | | | | | | |
| C5CE7 | 3/11/2020 | | | | | | | | | |
| CA623 | 3/11/2020 | | | | | | | | | |
| A3B27 | 3/11/2020 | | | | | | | | | |
| 43819 | 3/11/2020 | | | | | | | | | |
| C80D4 | 3/11/2020 | | | | | | | | | |
| 28EA8 | 3/11/2020 | | | | | | | | | |
| 905A5 | 3/11/2020 | | | | | | | | | |
| 011C9 | 3/11/2020 | | | | | | | | | |
| 5F788 | 3/11/2020 | | | | | | | | | |
| AC49C | 3/11/2020 | | | | | | | | | |
| 20959 | 3/11/2020 | | | | | | | | | |
| A7A3C | 3/11/2020 | | | | | | | | | |
| D6001 | 3/11/2020 | | | | | | | | | |
| 993FE | 3/11/2020 | | | | | | | | | |
| A650A | 3/11/2020 | | | | | | | | | |
| A5500 | 3/11/2020 | | | | | | | | | |
| 3D22F | 3/11/2020 | | | | | | | | | |
| CE053 | 3/11/2020 | | | | | | | | | |
| 63F68 | 3/11/2020 | | | | | | | | | |
| 8CF5D | 3/11/2020 | | | | | | | | | |
| 26C66 | 3/11/2020 | | | | | | | | | |
| 614F0 | 3/11/2020 | | | | | | | | | |
| FF45B | 3/12/2020 | ND | ND | 438 | 0.22 | 0 | 0.02 | 42 | | |
| B3CFE | 3/12/2020 | ND | ND | 422 | 0.21 | 1986 | ND | 49 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |
| 0E7AB | 3/12/2020 | ND | ND | 397 | 0.20 | 0 | ND | 47 | | |
| C8BAC | 3/12/2020 | ND | ND | 423 | 0.21 | 276 | 0.03 | 48 | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|--------------------------------------|
| FD697 | 3/12/2020 | | | | | | | | | |
| 47D29 | 3/12/2020 | | | | | | | | | |
| 7958C | 3/12/2020 | | | | | | | | | |
| 37933 | 3/12/2020 | | | | | | | | | |
| 7EF7A | 3/12/2020 | | | | | | | | | |
| 0DDDD | 3/12/2020 | | | | | | | | | |
| A7590 | 3/12/2020 | | | | | | | | | |
| F1DB4 | 3/12/2020 | | | | | | | | | |
| 509DB | 3/12/2020 | | | | | | | | | |
| F8227 | 3/12/2020 | | | | | | | | | |
| 398CB | 3/12/2020 | | | | | | | | | |
| EC4A2 | 3/12/2020 | | | | | | | | | |
| 1E841 | 3/12/2020 | | | | | | | | | |
| F2CBD | 3/12/2020 | | | | | | | | | |
| 3B20B | 3/12/2020 | | | | | | | | | |
| 5745C | 3/12/2020 | | | | | | | | | |
| ABD25 | 3/12/2020 | | | | | | | | | |
| DDE88 | 3/12/2020 | | | | | | | | | |
| D2B9C | 3/12/2020 | | | | | | | | | |
| 60083 | 3/12/2020 | | | | | | | | | |
| D893C | 3/12/2020 | | | | | | | | | |
| 3F4EA | 3/12/2020 | | | | | | | | | |
| A8020 | 3/12/2020 | | | | | | | | | |
| 77E3A | 3/12/2020 | | | | | | | | | |
| A3CB8 | 3/12/2020 | | | | | | | | | |
| 2CB70 | 3/18/2020 | ND | ND | 110 | 0.06 | 0 | 0.14 | 51 | | |
| A6BD2 | 3/18/2020 | ND | ND | 336 | 0.17 | 0 | ND | 55 | | |
| 04635 | 3/18/2020 | ND | ND | 307 | 0.15 | 0 | ND | 57 | | |
| C7CBA | 3/18/2020 | | | | | | | | | |
| 50497 | 3/18/2020 | | | | | | | | | |
| 8C28D | 3/18/2020 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|--|
| 8CB1D | 3/18/2020 | | | | | | | | | |
| 3C81F | 3/18/2020 | | | | | | | | | |
| 48046 | 3/18/2020 | | | | | | | | | |
| 83F76 | 3/18/2020 | | | | | | | | | |
| 008DC | 3/18/2020 | | | | | | | | | |
| EB333 | 3/18/2020 | | | | | | | | | |
| 0E1BB | 3/18/2020 | | | | | | | | | |
| F9825 | 3/18/2020 | | | | | | | | | |
| E4CF8 | 3/18/2020 | | | | | | | | | |
| 909A8 | 3/18/2020 | | | | | | | | | |
| 5685F | 3/18/2020 | | | | | | | | | |
| 336AF | 3/18/2020 | | | | | | | | | |
| 20959 | 3/18/2020 | | | | | | | | | |
| 08A7F | 3/18/2020 | | | | | | | | | |
| 38316 | 3/18/2020 | | | | | | | | | |
| 87935 | 3/18/2020 | | | | | | | | | |
| 37EF8 | 3/18/2020 | | | | | | | | | |
| 3901F | 3/18/2020 | | | | | | | | | |
| 806F0 | 3/18/2020 | | | | | | | | | |
| 9077F | 3/18/2020 | | | | | | | | | |
| E38B5 | 3/18/2020 | | | | | | | | | |
| 2A19B | 3/18/2020 | | | | | | | | | |
| 86B8C | 3/18/2020 | | | | | | | | | |
| 1A2F2 | 3/19/2020 | ND | ND | 195 | 0.10 | 6 | NP | 47 | | |
| 5CE70 | 3/19/2020 | ND | ND | 437 | 0.22 | 23 | NP | 48 | | |
| 34938 | 3/19/2020 | ND | ND | 270 | 0.14 | 44 | NP | 49 | | |
| A511A | 3/19/2020 | ND | ND | 308 | 0.22 | 238 | NP | 48 | | |
| 558A8 | 3/19/2020 | ND | ND | 215 | 0.11 | 157 | NP | 49 | | |
| 9772E | 3/19/2020 | ND | ND | 264 | 0.13 | 2420 | NP | 48 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|--|
| 3032B | 3/19/2020 | ND | ND | 345 | 0.17 | 0 | NP | 48 | | |
| 6FF03 | 3/19/2020 | | | | | | | | | |
| BE944 | 3/19/2020 | | | | | | | | | |
| 22C64 | 3/19/2020 | | | | | | | | | |
| 72683 | 3/19/2020 | | | | | | | | | |
| 2D0A9 | 3/20/2020 | ND | ND | 1,733 | 0.87 | 3 | NP | 51 | | |
| FC63C | 3/20/2020 | ND | ND | 197 | 0.10 | 261 | NP | 50 | | |
| 9DD37 | 3/20/2020 | ND | ND | 408 | 0.21 | 0 | NP | 51 | | |
| 4A6BF | 3/20/2020 | ND | ND | 307 | 0.14 | 1733 | NP | 53 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |
| DACEB | 3/20/2020 | ND | ND | 350 | 0.18 | 276 | NP | 55 | | |
| A7723 | 3/20/2020 | | | | | | | | | |
| 60707 | 3/20/2020 | | | | | | | | | |
| EB371 | 3/20/2020 | | | | | | | | | |
| BB6DB | 3/20/2020 | | | | | | | | | |
| 8E309 | 3/20/2020 | | | | | | | | | |
| 9FA5C | 3/20/2020 | | | | | | | | | |
| 9ECDE | 3/20/2020 | | | | | | | | | |
| 725E9 | 3/20/2020 | | | | | | | | | |
| 129BD | 3/20/2020 | | | | | | | | | |
| BBE12 | 3/20/2020 | | | | | | | | | |
| 81B06 | 3/20/2020 | | | | | | | | | |
| B1C30 | 3/20/2020 | | | | | | | | | |
| 97A16 | 3/20/2020 | | | | | | | | | |
| D58DB | 3/20/2020 | | | | | | | | | |
| 2182F | 3/20/2020 | | | | | | | | | |
| 562EA | 3/20/2020 | | | | | | | | | |
| 79E96 | 3/20/2020 | | | | | | | | | |
| ACD96 | 3/20/2020 | | | | | | | | | |
| D7468 | 3/20/2020 | | | | | | | | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity µS/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp °F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|--------------------|---------------|------------------------------------|-------------------|---------------|----------------------|--|
| 0D17D | 3/20/2020 | | | | | | | | | |
| 63747 | 3/20/2020 | | | | | | | | | |
| 67D33 | 3/20/2020 | | | | | | | | | |
| 7E729 | 3/20/2020 | | | | | | | | | |
| 777B0 | 3/20/2020 | | | | | | | | | |
| F2781 | 3/20/2020 | | | | | | | | | |
| 5628F | 3/20/2020 | | | | | | | | | |
| CA828 | 3/20/2020 | | | | | | | | | |
| F98C7 | 3/20/2020 | | | | | | | | | |
| 18E45 | 3/20/2020 | | | | | | | | | |
| 4B4E2 | 3/20/2020 | | | | | | | | | |
| 5EE35 | 3/20/2020 | | | | | | | | | |
| 72EE0 | 3/23/2020 | ND | ND | 341 | 0.17 | 2,420 | NP | 43 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |
| COFFC | 3/23/2020 | ND | ND | 141 | 0.07 | 31 | NP | 44 | | |
| E463F | 3/23/2020 | ND | ND | 287 | 0.14 | 2 | NP | 44 | | |
| B4CAE | 3/23/2020 | ND | ND | 271 | 0.14 | 276 | NP | 44 | | |
| 22CF5 | 3/23/2020 | ND | ND | 322 | 0.16 | 89 | NP | 48 | | |
| D7CF4 | 3/23/2020 | ND | ND | 299 | 0.15 | 1,046 | NP | 44 | | Refer to Section 3.4, apparent one-time event that was not duplicated. |
| 1CD22 | 3/23/2020 | | | | | | | | | |
| 0D11A | 3/23/2020 | | | | | | | | | |
| 5EBB6 | 3/23/2020 | | | | | | | | | |
| BF569 | 3/23/2020 | | | | | | | | | |
| E7496 | 3/23/2020 | | | | | | | | | |
| Interconnections | | | | | | | | | | |
| I-1 | 03/23/2021 | ND | ND | 127 | 0.09 | 0 | ND | 44 | | |
| I-2 | 03/23/2021 | ND | ND | 202 | 0.11 | 14 | ND | 45 | | |
| I-3 | 03/23/2021 | ND | ND | 199 | 0.16 | 1 | ND | 46 | | |
| I-4 | 03/23/2021 | ND | ND | 300 | 0.13 | 1 | 0.04 | 48 | | |

| Outfall / Interconnection ID | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | Pollutant of concern | If required, follow-up actions taken |
|------------------------------|-------------------------|--------------|---------------|-------------------------|---------------|------------------------------------|-------------------|-------------------------|----------------------|--------------------------------------|
| I-5 | 03/23/2021 | ND | ND | 222 | 0.15 | 2 | 0.03 | 43 | | |
| I-6 | 03/23/2021 | ND | ND | 197 | 0.17 | 6 | 0.06 | 45 | | |
| I-7 | 03/23/2021 | ND | ND | 313 | 0.11 | 6 | 0.04 | 46 | | |

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 | Screening / sample date | Ammonia mg/L | Chlorine mg/L | Conductivity μ S/cm | Salinity, ppt | E. coli or enterococcus, col/100mL | Surfactants, mg/L | Water Temp $^{\circ}$ F | 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.

| Outfall ID | Receiving Water | System Vulnerability Factors |
|------------|--|------------------------------|
| 22CF5 | Pequonnock River | None |
| E7496 | Pequonnock River | None |
| C0FFC | Means Brook | None |
| D7CF4 | Copper Mill Brook | None |
| E463F | Copper Mill Brook | None |
| B4CAE | Pequonnock River | None |
| D418A | Unnamed Tributary to Great Hollow Lake | None |
| B3CFE | Beardsley Brook | None |
| 9772E | Unnamed Tributary to Far Mill River | None |

| | | |
|-------|--|------|
| 4A6BF | Unnamed Tributary to Tributary J to Pequonnock River | None |
|-------|--|------|

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

Note: Previous investigations reported in prior annual reports are in gray shaded rows. Where new information has been added to previously investigated outfalls, new information added in green.

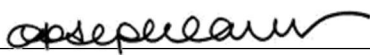
| Discharge location | Investigation description | Mitigation or enforcement action | Estimated volume of flow removed |
|--------------------|--|----------------------------------|----------------------------------|
| 22CF5 | <p>Suspected animal waste. Retesting on 03/23/2020, and the sample collected was less than the E. coli threshold. No evidence or reports of septic system failure.</p> <p>No flow was observed at outfall on a follow-up visit on 03/18/2021</p> | Pet waste educational brochure | |
| E7496 | <p>This outfall was visited again on 03/23/2020, and there was no flow. We returned on June 1, 2020, and took samples from three catch basins. None of the sampled catch basins exceeded the threshold for E. coli, and no ammonia or chlorine was detected in any of the samples. Catch Basin #1 did sample above the 0.25 mg/L threshold for surfactant at 0.34 mg/L. Surfactant is typically associated with detergents. Given the consistent lack of ammonia and chlorine in these samples, we do not believe that this is related to any sewer type input, but believe the source to be either vehicle washing, or surface washing. There was no clear indication of either occurring at the time of our visit. On June 9, 2020, we sampled three additional catch basins, CB #1, the catch basin on the north side of the cul-de-sac (CB #7), and across the street from CB#1 (CB #8). Surfactant did not trip the threshold at CB-1 or CB-7, but a level of 0.93 mg/L was identified at CB #8. Our field staff reported seeing a sheen on the water in the catch basin, and noted an orange discoloration of the water. There was an odor similar to cucumbers. Disturbance of the orange sheen on the water showed that there was no recombination. This is consistent with iron oxidizing bacteria, which also produce surfactant. The bacteria, though unsightly, is not harmful and naturally occurring.</p> <p>No flow was observed at outfall on a follow-up visit on 03/12/2021.</p> | Not an illicit discharge | |
| C0FFC | <p>This outfall was resampled on 03/23/2020, and was below the threshold for E. coli, so it appears as if the issue was one-time only, likely due to animal waste.</p> <p>No flow was observed at outfall on a follow-up visit on 03/12/2021.</p> | Pet waste educational brochure | |
| D7CF4 | <p>This outfall was resampled on 03/23/2020, and the outfall was over the E. coli threshold. Three catch basins were sampled.</p> <p>CB #5 exceeded the E coli threshold at 613 col/100mL, though ammonia and chlorine thresholds were not exceeded, likely ruling out sewage inputs. The most likely source is animal waste.</p> <p>On June 9, 2020, we two intermediate catch basins for E. coli. None of the samples came close the E. coli threshold, therefore it appears as if the issue was one-time only, likely due to animal waste.</p> | Pet waste educational brochure | |

| | | |
|-------|--|--------------------------------|
| | A second follow-up visit on 03/12/2021 revealed that neither basin was flowing. | |
| E463F | <p>This outfall was resampled on 03/23/2020, and was below the threshold for E. coli, so it appears as if the issue was one-time only, likely due to animal waste.</p> <p>No flow was observed at outfall on a follow-up visit on 03/12/2021.</p> | Pet waste educational brochure |
| B4CAE | <p>This outfall was resampled on 03/23/2020, and was below the threshold for E. coli, so it appears as if the issue was one-time only, likely due to animal waste.</p> <p>No flow was observed at outfall on a follow-up visit on 03/12/2021.</p> | Pet waste educational brochure |
| D418A | <p>This outfall initially exceeded the E. coli threshold at 461 col/mL. It was visited on 03/05/2021 and again on 03/12/2021, on both visits, there was no discharge found on either of the two upstream catch basins contributing to the outfall. Therefore, this appears to have been a one-time issue, and the source of the issue is unknown, as subsequent visits have not shown any flow during a particularly wet time of year.</p> | None |
| B3CFE | <p>This outfall initially exceeded the E. coli threshold at 1,986 col/mL. Three catch basins were evaluated on 03/05/2021. Flow was sampled in two catch basins: one on the north side of the cul-de-sac, and a second on the north side of Countryside Drive just west of Curtis Lane. The catch basin on the east side of Curtis Lane just north of Countryside Drive was not flowing. The E. coli results for the two catch basins that were flowing tested at E. coli levels of 0 col/100mL and 3 col/100mL, well below the threshold. Therefore, this appears to have been a one-time issue, and the source of the issue is unknown, as subsequent visits have not shown any flow during a particularly wet time of year.</p> | None |
| 9772E | <p>This outfall initially exceeded the E. coli threshold at 2,420 col/mL. At the time of the follow-up visit, the two upstream catch basins on each leg contributing to the system were observed during dry weather on 03/05/2021. The western leg was flowing at the time of the visit, and was sampled, showing only 2 col/100mL, well below the threshold. The east leg was not flowing. Therefore, this appears to have been a one-time issue, and the source of the issue is unknown, as subsequent visits have not shown any flow during a particularly wet time of year.</p> | None |
| 4A6BF | <p>This outfall initially exceeded the E. coli threshold at 1,733 col/mL. At the time of the follow-up visit, three catch basins were sampled: The catch basin on the west side of the roadway near the walkway to #38 (CB BF-2), the catch basin on the west side of the roadway in front of #32 (CB BF-3), and the catch basin on the west side of the roadway in front of #26 (CB BF-5). These basins are the next three closest inlets to the outfall. CB BF-2 and CB BF-3 were sampled on 03/05/2021, while CB BF-5 was not flowing. CB BF-2, CB BF-3, and CB BF-5 were sampled again on 03/12/2021, when all three were flowing. All of the samples came back below the E. coli threshold. Therefore, this appears to have been a one-time issue, and the source of the issue is unknown, as subsequent visits have not shown any flow during a particularly wet time of year.</p> | None |

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| 72EE0 | <p>This outfall initially exceeded the E. coli threshold at 2,420 col/mL. At the time of the follow-up visit, the three catch basins closest to the outfall were observed during dry weather on 03/12/2021. The catch basins sampled include the catch basin on the east side of the roadway across from Zenko Farm (CB E0-1), the catch basin on the east side of the roadway just north of 150 Bagburn Hill Road (CB E0-5), and the catch basin on the east side of the roadway just north of 124 Bagburn Hill Road (CB E0-9). All three were flowing, but only CB E0-5 registered for E. coli, with a count of 40 col/100 mL, well below the threshold. Therefore, this appears to have been a one-time issue, and the source of the issue is unknown, as subsequent visits have not shown any flow during a particularly wet time of year.</p> | None |
| Richmond Drive Interconnect | <p>CTDOT indicated that their testing indicated elevated levels of bacteria at the catch basin where Richmond Drive ties into Route 110. The Town sampled a catch basin on the east side of Richmond Dr., immediately north of 6 Richmond, and another on the east side immediately north of 14 Richmond Dr., which both tested well above the threshold at 2,420 col/mL and 1,986 col/mL, respectively. A field inspection revealed a discharge pipe coming from a residence at 23 Richmond, directly into the roadway. A neighboring house has a sump pump overflow discharge toward the catch basin. Both will be sampled in wet weather when the outfalls are active.</p> | Investigation in progress. |

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: Ken Kellogg First Selectman | Print name: Joseph Canas, PE, LEED AP, CFM Tighe & Bond |
| Signature / Date: | Signature / Date:  03/31/2023 |