TOWN OF WESTBROOK

CONNECTICUT

STORMWATER MANAGEMENT PLAN

July 2017

This plan is based on a template originally created by Western Connecticut Council of Governments staff and modified for statewide use by staff from UConn Center for Land use Education and Research (CLEAR).

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Introduction

This Stormwater Management Plan (SMP) was developed by the Town of Westbrook to protect water quality and reduce the discharge of pollutants from the municipality's storm sewer system to the maximum extent practicable (MEP). This SMP addresses the requirements established by the CT Department of Energy and Environmental Protection's (DEEP) General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). This permit is the local enforcement mechanism of the U.S. Environmental Protection Agency's (EPA) National Pollutant Discharge Elimination System (NPDES) Stormwater Phase II Rule.

SMP Structure

The plan outlines a program of best management practices (BMPs), measurable goals, responsible individuals or departments, and implementation schedules for the following six minimum control measures:

(1) Public education and outreach
(2) Public involvement and participation
(3) Illicit discharge detection and elimination
(4) Construction site stormwater runoff control
(5) Post-construction stormwater management in new development and redevelopment
(6) Pollution prevention/good housekeeping

Appendices to this plan include the CT DEEP General Permit for the Discharge of Stormwater from Small MS4s and a map of Westbrook's impaired waterbodies.

Area Subject to the Plan

The measures identified in this SMP will be applied within the Urbanized Areas, as defined by the 2010 United States Census, throughout the boundaries of the Town of Westbrook except as otherwise noted and be consistent with the MS4 General Permit requirements. Stormwater discharge from municipally-owned maintenance garages, salt sheds and other facilities subject to the DEEP Industrial Stormwater General Permit will continue to be regulated under the conditions of that permit.

SMP Development

A stormwater "Team" led by the Public Works Department and including representatives from planning, inland wetlands and watercourses agency (IWWC) , public health, water pollution control commission(WPCC), and zoning enforcement was assembled to coordinate the development and implementation of the SMP. The SMP's implementation will be tracked and documented in Annual Reports summarizing stormwater management activities carried out by the town and its partners. These reports will be submitted to DEEP on an annual basis no later than April 1 of the following year, as required by the MS4 General Permit.

Description of Municipality

The operator of the MS4 is the Town of Westbrook. The Town of Westbrook is a public entity located in the county of Middlesex, State of Connecticut. The Town of Westbrook covers an area of approximately 21.4 square miles, located in Southeastern Connecticut as shown in Attachment B.
The Connecticut Department of Transportation (DOT) operates an MS4 on state highways located in the Town of Westbrook. This system is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be coordinated between Westbrook and CT DOT.

Impaired Waters

In preparing the SMP, the CT DEEP's Water Quality Standards were reviewed to determine the Surface Water Quality Classifications for each watercourse in town. Certain BMP's address the watersheds containing watercourses designated as "impaired" by the CT DEEP. Table 1 summarizes the water bodies within or that run

through the municipality that are listed on the 2014 List of Connecticut Water Bodies not meeting water quality standards and are designated as "impaired". A total maximum daily load (TMDL) analysis has been set for nitrogen for Long Island Sound and contributing watersheds; and a Northeast Regional Mercury TMDL has been set for all CT inland waters. As such, waterbodies beyond what are listed in Table 1 are not classified as impaired under the 2014 State of CT Integrated Water Quality Report. However, these waterbodies and all MS4 General Permit regulated waterbodies located in Westbrook are subject to these Statewide requirements, where applicable.

TABLE 1
Westbrook Impaired Waterbodies

Waterbody ID	Water Segment Description	Water Segment Area/Length	Impaired Use	Pollutant	Cause/Potential Source
LIS CB Inner – Patchogue and Menunketesuck Rivers – CT-C1_001	Inner Estuary, Patchogue and Menunketesuck Rivers from mouths at Grove Beach Point, US to saltwater limits just above I95 Crossing and at I95 crossing respectively, Westbrook	0.182 mi^2	Shellfish	Fecal coliform	None Stated
LIS CB Shore – Westbrook Harbor (East) – CT-C2_001	Central portion of LIS from Fiske Lane to Old Saltworks Road (includes Middle Beach), out approximately 1000 ft offshore, Westbrook	0.244 mi^2	Shellfish	Fecal coliform	None stated
LIS CB Shore – Westbrook Harbor (West) – CT-C2_002	Central portion of LIS from Portside Dr. near Patchogue River outlet to Fiske Ln., including Westbrook Town Beach, out approx. 1000 ft. offshore, Westbrook	0.231 mi^2	Shellfish	Fecal coliform	None stated

LIS CB Shore – Clinton Beach CT-C2_003	Central portion of LIS from Kelsey Point to Grove Beach Point area (to Portside Dr., including Patchogue River outlet) out approx. 1000 ft. offshore Westbrook/ Clinton	0.516 mi^2	Shellfish	Fecal Coliform	None Stated
LIS CB Midshore – Westbrook Harbor	Central portions of LIS from approximately 1000 ft offshore (Westbrook Harbor) out to 50 ft contour and basin boundary separating Eastern/Central	2.692 mi^2	Shellfish	Fecal Coliform	None stated
LIS EB Midshore - Westbrook	Eastern portion of LIS from approximately 1000 ft offshore Old Kelsey Point (outer Westbrook Harbor), out to 50 ft contour.	7.407 mi^2	Shellfish	Fecal Coliform	Industrial and municipal stormwater discharges, landfills, illicit discharges, remediation sites, groundwater contamination, onsite treatment systems, combined sewer overflow.

Based on the DEEP Surface Water Quality Classifications, Patchogue River and Menunketesuck River are identified as the surface waters that should take the highest priority in Westbrook's efforts to address stormwater impacts. This was taken into consideration as the BMPs were developed.

(1) Public Education and Outreach

This minimum control measure outlines a program to communicate common sources of stormwater pollution and the impacts of polluted stormwater to the public. This will be done through distributing educational materials to the community and conducting outreach activities. The following BMPs and implementation schedule serve as Westbrook's MS4 Public Education Program.

Goals:

- Raise public awareness that polluted stormwater runoff is the most significant source of water quality problems;
- Motivate residents to use Best Management Practices (BMPs) that reduce polluted stormwater runoff; and
- Reduce polluted stormwater runoff in town as a result of increased awareness and utilization of BMPs.

1.1 Implement public education program

Westbrook will collect and distribute stormwater educational materials that, at a minimum, address the impacts of the following on water quality: pet waste, impervious cover, application of fertilizers, pesticides, and herbicides, and illicit discharges and improper disposal of wastes into the MS4.

WESTBROOK will maintain their own online library of stormwater educational material. The Westbrook website (http://westbrookct.us/stormwater.php) will link directly to this web-based library and promote the availability of these materials through the quarterly publication "Westbrook Events" mailed to all town residents. Westbrook will also provide materials in a printed format to be on display in public locations within Westbrook Town Hall, Town Garage and public library.

Additional targeted outreach efforts may be completed by the "Team" to educate groups such as K-12 students, agricultural operators, commercial businesses, developers, and homeowners] on particular aspects of stormwater management, as practicable.

Westbrook will coordinate across departments to ensure that all required topics listed in this plan are covered and tracked on an annual basis.

1.2 Address education and outreach for pollutants of concern

Westbrook will continue to distribute information that educates residents and business owners about pollutant sources and stormwater pollutant reduction methods. Based on a review of waterbody impairments present in the Town, Westbrook will distribute information on common sources of nitrogen, bacteria, and mercury pollution and how to prevent or reduce the amount reaching the MS4 and discharging into waterways.

The table below shows additional topics to be covered to address the nitrogen, bacteria, and mercury impairments that exist in Westbrook. Note that while Westbrook waterbodies provided in Table 2 are listed as impaired for

bacteria, additional nitrogen and mercury impairments may require consideration based on the TMDL Analysis that has been set for nitrogen for Long Island Sound and contributing watersheds, and a Northeast Regional Mercury TMDL has been set for all CT inland waters.

Nitrogen	Bacteria	Mercury
Septic systems	Septic systems	Thermometers
Fertilizer use	Sanitary cross connections	Thermostats
Grass clippings and leaves management	Waterfowl	Fluorescent lights
Discharge of sediment (to which Nitrogen binds) from Construction sites	Pet waste	Button cell batteries
Other erosive surfaces	Manure piles associated with livestock and horses	Thermometers

Public outreach and education schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Implement public education program	SWM "Team"	July 1, 2017; ongoing	Maintain existing library of stormwater educational materials and expand library by incorporating or developing new content for future use and distribution based on identified waterbody impairments.
Address Education/outreach for pollutants of concern	SWM "Team"	July 1, 2018; ongoing	Establish webpage/target individual groups to address pollutants of concern (i.e. bacteria, pet waste, lawn care, fertilizers, pesticides, mercury, improper waste disposal, impervious coverage, and illicit discharges).

(2) Public Involvement and Participation

This minimum control measure identifies the process for public involvement and participation in the town's stormwater management efforts.

Goals:

- Involve the community in planning and implementing the town's stormwater management activities.
- Provide a minimum 30 day notice to the public for this plan and annual reports.

2.1 Comply with public notice requirements for the Stormwater Management Plan and Annual Reports

Westbrook will publish a public notice on its website (http://westbrookct.us/stormwater.php), and in a newspaper. The notice will provide a contact name, phone number, address, and email to whom the public can send comments. Additionally, this plan and the Annual Reports will be publicly accessible on the web [http://westbrookct.us/stormwater.php] and at the Westbrook Town Garage. The public notice will allow for a 30-day comment period, at a minimum.

Public involvement and participation schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Comply with public notice requirements for the SMP and Annual Reports	DPW	July 1, 2017; annually	Post notice of availability for public review and comment in newspaper/webpage. Accept comments from the public for a 30-day period. Make final report(s) available on webpage and at town offices

(3) Illicit Discharge Detection and Elimination

This minimum control measure outlines a program to detect and eliminate current illicit discharges to the MS4 and prevent further illicit discharges in the future. All activities for this measure will be completed in Westbrook's priority areas (urbanized area, catchment areas with directly connected impervious area (DCIA) > 11%, and outfalls that discharge to impaired waters).

Goal:

Find the source of any illicit discharges; eliminate those illicit discharges; and ensure ongoing screening and tracking to prevent and eliminate future illicit discharges.

3.1 Develop written IDDE plan

Westbrook will develop a written IDDE plan to detect, locate and eliminate illicit discharges (to the maximum extent practicable) from the MS4 within Westbrook's priority areas. The IDDE plan will provide enforceable legal authority to eliminate illicit discharges, assign responsibilities, and develop a citizen reporting program. The plan will also outline the outfall screening and IDDE protocols consistent with Appendix B of the MS4 General Permit to identify, prioritize, and investigate MS4 catchments for suspected illicit discharge of pollutants. Also, the IDDE plan will outline follow-up screening and illicit discharge prevention procedures.

3.2 Develop list and map of all MS4 outfalls and interconnections in priority areas

Westbrook has developed a database of stormwater discharges from a pipe or conduit located within and owned or operated by the municipality and all interconnections with other MS4s, and updates this database periodically. The Town continues to map known public and institutional storm sewers and outfalls as they are installed or modified.

The Town will evaluate the existing storm sewer outfall maps to verify consistency with the updated MS4 General Permit requirements and fill in data gaps, as necessary. The following database parameters will be evaluated, and the status of evaluations and updates will be included in annual reports:

a. Type, material, size, shape and location (identified with a latitude and longitude) of conveyance, outfall or channelized flow (e.g. 24" concrete pipe);
b. the name, water body ID and Surface Water Quality Classification of the immediate surface waterbody or wetland to which the stormwater runoff discharges;
c. if the outfall does not discharge directly to a named waterbody, the name and water body ID of the nearest named waterbody to which the outfall eventually discharges;
d. the name of the watershed, including the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located;
e. date of most recent inspection of the outfall, the condition, and any indicators of potential non-stormwater discharges as of most recent inspection;

3.3Develop citizen reporting program

Westbrook will establish a system to allow for citizen reporting of suspected illicit discharges into the stormwater system. The system will include an email address and phone number for submitting a report. Westbrook will affirmatively investigate and eliminate any illicit discharges for which a time and location of discharge are provided. Westbrook will promptly inspect the reported outfall or manhole and proceed according to the requirements of the written IDDE program. All citizen reports and responses will be included in Westbrook's annual report.

3.4 Establish legal authority to prohibit illicit discharges

Westbrook will establish the necessary and enforceable legal authority by ordinance to eliminate illicit discharges. The authority will:

a. prohibit illicit discharges to its storm sewer system and require removal of such discharges consistent with the deadlines outlined in the MS4 general; and
b. authorize the investigation of suspected illicit discharges and elimination of illicit discharge, including from properties not owned or controlled by the MS4 that discharge to the MS4
c. control the discharge of spills and prohibit the dumping or disposal of materials including, but not limited to, residential, industrial and commercial wastes, trash, used motor vehicle fluids, pesticides, fertilizers, food preparation waste, leaf litter, grass clippings, and animal wastes into its MS4; and
d. authorize appropriate enforcement procedures and actions;
e. authorize fines or penalties and/or recoup costs incurred by the permittee from anyone creating an illicit discharge or spilling or dumping.

3.5 Develop record keeping system for IDDE tracking

Westbrook will keep a record of illicit discharge abatement activities including location (including latitude and longitude or address), description, date(s) of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party.

In addition, Westbrook will develop and maintain an SSO inventory that records the location, date and time of occurrence, estimated volume of discharge, a description of known or suspected cause, and details about mitigating measures including dates of implementation.

This inventory will also:

- include all known SSOs to their MS4 in the past 5 years (July 1, 2012 – June 30, 2017);
- continue to be updated to track future SSOs; and
- be included in Annual Reports.

3.6 Address IDDE in areas with pollutants of concern

Westbrook will prioritize MS4 outfall discharges (during development of the written IDDE Plan) to waters for which nitrogen, phosphorus, and/or bacteria are identified as a pollutant of concern.

3.7 Detailed MS4 infrastructure mapping

Westbrook will review and revise, as necessary, a detailed map of the MS4 to include:

- Components of the MS4 within priority areas:
  - Outfalls & receiving waters;
  - Pipes; open channel conveyances; catch basins; manholes;
  - Interconnections with other MS4s and other storm sewer systems;
  - Municipally-owned stormwater treatment structures (e.g. detention & retention ponds, infiltration systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other systems);
  - Catchment delineations for each outfall;
  - Impaired water bodies identified by name and use impairment as defined by the most recent integrated water quality report;
  - Municipal sanitary sewer system (if available);
  - Municipal combined sewer system (if applicable).

Westbrook will update the map as new information becomes available and will report on the progress of the development of this map in the annual report.

Illicit discharge detection and elimination schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Develop written IDDE program	DPW/Planning/Zoning/ IWWC/WPCC/Health	July 1, 2018 implement annually until the permit expires.	The Town will develop and implement a written IDDE program, following the guidelines and IDDE protocol listed in Appendix B of the MS4 General Permit.
Develop list and maps of all MS4 stormwater outfalls in priority areas	DPW and Planning	July 1, 2019; update annually until the permit expires.	Evaluate existing Town stormwater mapping process for consistency with updated MS4 regulations, and update data collection process as needed. Maintain and update map(s) and spreadsheet(s) of public and institutional storm sewers and outfalls in the Town.
Develop citizen reporting program	DPW/Planning/Zoning IWWC/WPCC/Health	July 1, 2018, implement annually until the permit expires.	Evaluate citizen compliant reporting process and record documentation of receipt of citizen complaints pertaining to illicit discharges.
Establish legal authority to prohibit illicit discharges	DPW/Planning/Zoning IWWC/WPCC/Health	July 1, 2018	Incorporate legal authority to prohibit illicit discharges into written IDDE program.
Develop record keeping system for IDDE tracking	DPW/Planning/Zoning IWWC/WPCC/Health	July 1, 2017, implement annually until the permit expires.	Develop documentation and implement procedures to track IDDE abatement activities.

Address IDDE in areas with pollutants of concern	WPCC/Health	July 1, 2018	Incorporate prioritization strategy for pollutants of concern during development of written IDDE plan.
Detailed MS4 infrastructure mapping	DPW & Planning	July 1, 2020	Update existing information
Complete inventory of all SSO discharges from the previous 5 years	DPW & Planning	July 1, 2017	Develop inventory of locations where SSOs have discharged to the MS4 within the previous 5 years in accordance with Appendix B requirements.

(4) Construction Site Stormwater Runoff Control

This minimum control measure outlines procedures for minimizing polluted stormwater runoff from activities that disturb one or more acres of land. In Westbrook, this is determined on a site by site basis OR collectively as part of a larger plan, depending on the scope of the project.

Goal:

Minimize polluted stormwater runoff from construction sites and prevent it from carrying sediment into waterways via MS4 infrastructure.

4.1 Implement, upgrade and enforce land use regulations to meet requirements of MS4 general permit

The Town of Westbrook will review and revise, if necessary, applicable ordinances and/or regulations to establish the legal authority to control stormwater runoff from construction sites by requiring:

a. developers, construction site operators, or contractors maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended, the Connecticut Stormwater Quality Manual, and all stormwater discharge permits issued by the DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b;
b. the implementation of additional measures to protect/improve water quality (in addition to the above requirements) as deemed necessary by Westbrook;
c. Westbrook is authorized to carry out all inspection, surveillance and monitoring procedures necessary to determine compliance with municipal regulations, ordinances or programs or institutional requirements related to the management of Westbrook's MS4. Inspections shall be conducted, where allowed, to inventory the number of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive drainage from the permittee's MS4;
d. the owner of a site seeking development approval from Westbrook shall provide and comply with a long term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned retention ponds, detention ponds and other stormwater basins that discharge to or receive discharge from Westbrook's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
e. Westbrook will control, through interagency or inter-jurisdictional agreements, the contribution of pollutants between the permittee's MS4 and MS4s owned or operated by others.
f. adherence to Aquifer Protection Area regulations as required under CGS section 22a-354a through 22a-354bb.

4.2 Develop and implement plan for interdepartmental coordination of site plan review and approval

Westbrook's plan to coordinate the functions of all the departments and boards involved in the review, permitting, or approval of land disturbance projects is as follows:

Interdepartmental software which allows all applications to be reviewed concurrently by affected departments, and allows departments to track status of application with regard to other approvals and comments. Applications will not be approved until/unless all staff have reviewed proposed project.

4.3 Review site plans for stormwater quality concerns

Westbrook will conduct site plan reviews that incorporate consideration of stormwater controls or management practices to prevent or minimize impacts to water quality on sites with soil disturbance of one acre or more. Westbrook will also conduct site inspections to assess the adequacy of the installation, maintenance, operation, and repair of construction and post construction control measures and take enforcement action when necessary.

4.4 Conduct site inspections

Westbrook will perform construction site inspections and take enforcement actions if necessary to ensure the adequacy of the installation, maintenance, operation, and repair of all construction and post-construction runoff control measures.

4.5 Implement procedure to allow public comment on site development

Westbrook's procedure for public involvement in proposed and ongoing development and land disturbance activities is as follows:

Westbrook will update land use regulations to require a public hearing on any application with a land disturbance of greater than one acre for the purpose of soliciting public comment.

4.6 Implement procedure to notify developers about DEEP construction stormwater permit

Westbrook will notify developers and contractors of their potential obligation to obtain authorization under DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities (construction general permit) if their project disturbs more than 1 acre of land and results in a point source discharge to Connecticut surface waters directly or through the Westbrook MS4. Westbrook will also require a copy of the Storm Water Pollution Control Plan be made available to the town on request. The procedure to notify developers of the construction general permit is as follows:

Westbrook will inform developers working with the municipality that they have a potential obligation to obtain authorization for their land development project under the CT DEEP's Construction General Permit. If their development or redevelopment project disturbs one or more acres of land, either individually or collectively, as part of a larger common plan, and result in a point source discharge to the surface waters of the State directly through the permittee's MS4. Westbrook will accomplish this by reviewing and refining current processes used to notify contractors, site developers, and operators working within the Town of Construction General Permit related requirements.

Construction site stormwater management schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Implement, upgrade and enforce land use regulations to meet MS4 permit requirements	Planning/Zoning	July 1, 2019, implement annually until the permit expires.	The Town will continue to require developers, construction site operators, or contractors maintain consistency with the 2002 Guidelines for Soil Erosion and Sedimentation Control, as amended, the CT Stormwater Quality Manual, and all stormwater discharge permits issued by DEEP within the municipal or institutional boundary pursuant to CGS 22a-430 and 22a-430b.
Develop/implement plan for interdepartmental coordination in site plan review and approval	SWM "Team"	July 1, 2017, implement annually until the permit expires.	Continue interdepartmental coordination for site plan review and approval process.
Review site plans for stormwater quality concerns	Planning/Zoning IWWC/Health	July 1, 2017, implement annually until the permit expires.	Develop written, reportable procedure for site plan review and enforcement
Conduct site inspections	Planning/Zoning IWWC	July 1, 2017, implement annually until the permit expires.	Review and revise, if required, methods to verify applicable construction projects are compliant with municipal and MS4 General Permit requirements through inspection; review and revise, if necessary,

			inspection documentation and recordkeeping methods.
Implement procedure to allow public comment on site development	Planning/Zoning IWWC	July 1, 2017, implement annually until the permit expires.	Review and refine, if necessary, procedures to collect, review, and record citizen comment on land disturbance activities.
Implement procedure to notify developers about DEEP construction stormwater permit	Planning/Zoning IWWC	July 1, 2017, implement annually until the permit expires.	Review and refine, if necessary, the process designed to notify developers or contractors of potential obligations to obtain CT DEEP Construction General Permit coverage.

(5) Post-construction Stormwater Management in New Development or Redevelopment

This minimum control measure outlines Westbrook's program to address stormwater runoff from new or re-development projects that disturb one or more acres of land.

Goal:

Mitigate the long-term impacts of new and re-development projects on water quality through proper use of low impact development and runoff reduction practices.

5.1 Update legal authority and guidelines regarding LID and runoff reduction in site development planning

Westbrook will update existing legal authority by regulation, to require, to the MEP, developers and contractors seeking the town's approval to consider the use of low impact development (LID) and runoff reduction site planning and development practices that meet or exceed those LID and runoff reduction practices in the CT Stormwater Quality Manual prior to other stormwater management practices allowed in Westbrook's land use regulations, guidance or construction project requirements.

This legal authority will include the following standards:

1) for redevelopment of sites that are currently developed with Directly Connected Impervious Area (DCIA) of forty percent or more, the project must retain on-site half the water quality volume for the site, or
2) for new development and redevelopment of sites with less than forty percent DCIA, retain the water quality volume for the site, or
3) if those retention standards cannot be met, the developer will be required to provide a report indicating why the standard could not be met and a mitigation project on another property or pay a fee to fund a DCIA retrofit.

In developing this legal authority, Westbrook will consider the following watershed protection elements to manage the impacts of stormwater on receiving waters:

a. Minimize the amount of impervious surfaces (roads, parking lots, roofs, etc.) within each municipality by minimizing the creation, extension, and widening of parking lots, roads, and associated development and encourage the use of Low Impact Development or green infrastructure practices.
b. Preserve, protect, create and restore ecologically sensitive areas that provide water quality benefits and serve critical watershed functions. These areas may include, but are not limited to; riparian corridors, headwaters, floodplains and wetlands.
c. Implement stormwater management practices that prevent or reduce thermal impacts to streams, including requiring vegetated buffers along waterways, and disconnecting discharges to surface waters from impervious surfaces such as parking lots.
d. Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges.
e. Implement standards to protect trees, and other vegetation with important evapotranspirative qualities.
f. Implement policies to protect native soils, prevent topsoil stripping, and prevent compaction of soils.

g. Coordinate with state or local health officials to ensure no interference with performance of on-site septic systems.
h. Limit turf areas.

In addition, Westbrook will review its current regulations - site planning requirements, zoning regulations, street design regulations, and infrastructure specifications with minimum size criteria for impervious cover (roads, parking lots, etc.) to identify and, where appropriate, reduce or eliminate existing regulatory barriers to implementation of LID and runoff reduction practices to the MEP.

5.2 Implement long-term maintenance plan for stormwater basins and treatment structures

Westbrook will develop a maintenance plan for retention / detention ponds and stormwater treatment structures that it owns or over which it holds an easement or other authority and that are located in the town's priority areas to ensure their long-term effectiveness. This plan will require an annual inspection of those retention / detention ponds and stormwater treatment structures and removal of accumulated sediment and pollutants in excess of 50% design capacity.

5.3 Directly Connected Impervious Area (DCIA) mapping

Westbrook will follow guidance provided by DEEP and UConn CLEAR to calculate the Directly Connected Impervious Area (DCIA) that contributes stormwater runoff to each of its MS4 outfalls. Progress on this task will be documented in each Annual Report until completion.

5.4 Address post-construction issues in areas with pollutants of concern

For areas contributing to waters where **Nitrogen, Phosphorus** or **Bacteria** is a Stormwater Pollutant of Concern and erosion or sedimentation problems are found during the annual inspections conducted under the long-term maintenance plan described in BMP 5.2, Westbrook will prioritize those areas for the DCIA retrofit program under minimum control measure 6 – Pollution Prevention/Good Housekeeping.

Post-construction stormwater management schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Establish or update legal authority and guidelines regarding LID and runoff reduction in site development planning	Planning/Zoning	July 1, 2021, implement annually until the permit expires.	Review and update existing procedures to be compliant with MS4 General Permit requirements. Update procedures as necessary.
Enforce LID/runoff reduction requirements for development and redevelopment projects	Planning/Zoning	July 1, 2019, implement annually until the permit expires.	Require developers and/or construction site operators of development/redevelopment projects located within the MS4 to implement runoff reduction/LID measures

			required by the MS4 General Permit.
Implement long-term maintenance plan for stormwater basins and treatment structures	DPW/Zoning/IWWC	July 1, 2019, implement annually until the permit expires.	Develop and implement a long-term maintenance plan for retention/detention ponds and other stormwater treatment structures, as applicable.
Complete DCIA mapping	DPW/Planning/Zoning	July 1, 2020, implement annually until the permit expires.	Calculate the DCIA that contributes stormwater runoff to each MS4 outfall, update calculations as DCIA is added or removed within the Town.
Address post-construction issues in areas with pollutants of concern	SWM "Team"	July 1, 2020; implement annually until the permit expires.	Evaluate outfall screening results and/or observations recorded during maintenance activities. Prioritize and correct identified problems to be consistent with Retrofit plan under BMP 6-8.

(6) Pollution Prevention / Good Housekeeping

This minimum control measure outlines a program to mitigate the impact of town operations and maintenance on town owned and/or operated properties and the MS4 itself to water quality.

Goal:

Prevent or reduce pollutant runoff as a result of municipal operations.

Westbrook will implement an operations and maintenance program to prevent or reduce pollutant runoff from town facilities and protect water quality.

6.1 Develop and implement formal employee training program

Westbrook will continue its MS4 training program for town employees to increase awareness of water quality issues. Training will include:

- Standard operating procedures consistent with the MS4 general permit;
- General goals and objectives of this Stormwater Management Plan;
- Identification and reporting of illicit discharges and improper disposal; and
- Spill response protocols and responsibilities.

6.2 Implement MS4 property and operations maintenance

Buildings and facilities under the jurisdiction of the Town, including schools, town offices, police and fire stations, pools, parking garages and other permittee-owned or operated buildings or utilities, will be operated and maintained to minimize the discharge of pollutants to the MS4. In order to implement this Permit requirement, the Town will evaluate the use, storage, and disposal of both petroleum and non-petroleum products; ensure, through employee training, that those responsible for handling these products know proper procedures for handling, storage, and disposal; ensure that Spill Prevention Plans are in place, where required, and coordinate with the fire department as necessary; develop management procedures for dumpsters and other waste management equipment; sweep parking lots and keep areas surrounding the facilities clean to minimize runoff of pollutants; and verify that interior building floor drains are not connected to the MS4.

(i) Parks and open space

Westbrook will optimize the application of fertilizers by municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance. Optimization practices considered may include:

- conducting soil testing and analysis to determine soil phosphorus levels,
- the reduction or elimination of fertilizers,
- reduction of fertilizer usage by adhering to the manufacturers' instructions,
- use of alternative fertilizers forms (i.e. products with reduced, slow-releasing, or insoluble phosphorus compositions),
- proper storage and application practices (i.e. avoid impervious surfaces),
- application schedule (i.e. appropriate season or month) and timing (i.e. coordinated with climatic conditions to minimize runoff potential);
- standard operating practices for the handling, storage, application, and disposal of pesticides and herbicides in compliance with applicable state and federal laws;
- evaluating reduced mowing frequencies and use of alternative landscaping materials like drought resistant and native plantings;
- establish procedures for management of trash containers at parks (scheduled cleanings; sufficient number).

Westbrook will establish practices for the proper disposal of grass clippings and leaves at WESTBROOK-owned lands. Clippings shall be composted or otherwise appropriately disposed. Clippings will not enter the MS4 system or waters of the state.

(ii) Pet waste management

Westbrook will identify locations where inappropriate pet waste management practices are immediately apparent and pose a threat to receiving water quality due to proximity and potential for direct conveyance of waste to its storm system and waters. In such areas, Westbrook will implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators).

In Westbrook-owned recreational areas where dog walking is allowed, Westbrook will install educational signage, pet waste baggies, and disposal receptacles (or require carry-out).

Westbrook will document its efforts in its annual reports. Westbrook should consider including information regarding the scope and extent of its education, compliance, and enforcement efforts (including the number of violations pursued and fines levied or other enforcement taken).

(iii) Waterfowl management

Westbrook will identify lands where waterfowl congregate and feeding by the public occurs.

To raise awareness regarding the water quality impacts, Westbrook will install signage or use other targeted techniques to educate the public about the detrimental impacts of feeding waterfowl (including the resulting feces deposition) and discourage such feeding practices.

Westbrook will also implement practices that discourage the undesirable congregation of waterfowl in these areas, or otherwise isolate the direct drainage from these areas away from its storm system and waters.

(iv) Westbrook Buildings and facilities (schools under the jurisdiction of Westbrook, town offices, police and fire stations, pools, parking garages and other Westbrook-owned or operated buildings or utilities)

Westbrook will:

- evaluate the use, storage, and disposal of both petroleum and non-petroleum products and ensure, through employee training, that those responsible for handling these products know proper procedures;
- ensure that Spill Prevention Plans are in place, if applicable, and coordinate with the fire department as necessary;
- develop management procedures for dumpsters and other waste management equipment;
- sweep parking lots and keep areas surrounding the facilities clean to minimize runoff of pollutants;
- ensure that all interior building floor drains are not connected to the MS4 and are appropriately permitted.

(v) Vehicles and Equipment

Westbrook will

- establish procedures for the storage of Westbrook-owned or -operated vehicles;
- require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;
- evaluate fueling areas owned by Westbrook and used by Westbrook-owned or -operated vehicles and if possible, place fueling areas under cover in order to minimize exposure;
- establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters;
- ensure any interior floor drains are appropriately permitted.

(vi) Leaf Management

Westbrook will establish and implement procedures to minimize or prevent the deposition of leaves in catch basins, streets, parking lots, driveways, sidewalks or other paved surfaces that discharge to the MS4. Such procedures shall also apply to leaves collected by Westbrook.

6.3 Implement coordination with interconnected MS4s

Westbrook will coordinate with operators of interconnected MS4s (such as neighboring municipalities, institutions and DOT) regarding the contribution of potential pollutants from the storm sewer systems, contributing land use areas and stormwater control measures in the respective MS4s. This same coordination shall be conducted regarding operation and maintenance procedures utilized in the respective systems.

6.4 Develop and implement a program to control other sources of pollutants to the MS4

Westbrook will develop and implement a program to control the contribution of pollutants to its MS4 from commercial, industrial, municipal, institutional or other facilities, not otherwise authorized by a CT DEEP stormwater permit.

6.5 Evaluate additional measures for discharges to impaired waters

(i) For waters for which **Nitrogen** is a Stormwater Pollutant of Concern:

On Westbrook-owned or -operated lands, Westbrook will implement a turf management practices and procedures policy which includes, but is not limited to, procedures for proper fertilizer application and the planting of native plant materials to lessen the amount of turf area requiring mowing and the application of chemicals. Each Annual Report will discuss the actions taken to implement this policy with an estimate of fertilizer and turf reduction.

(ii) For waters for which **Bacteria** is a Stormwater Pollutant of Concern:

On Westbrook-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), Westbrook will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) to the maximum extent practicable. Each Annual Report will identify problem areas for which a retrofit or source management program were developed, the location of the closest outfall monitored in accordance with Section 6(*i*), the cost of such retrofit or program, and the anticipated pollutant reduction. On Westbrook-owned or -operated lands, prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Each Annual Report will discuss the actions taken to implement this program.

6.6 Track projects to disconnect DCIA

Westbrook will annually track the total acreage of Directly Connected Impervious Area (DCIA) that is disconnected from the MS4 as a result of redevelopment or retrofit projects within the town. For each retrofit/redevelopment project, Westbrook will document the amount of existing DCIA that is disconnected. The total amount of disconnected DCIA will be reported each year in the Annual Report. Starting on July 1, 2021, Westbrook's goal will be to reduce 1% of its total DCIA acreage per year to the maximum extent possible. Westbrook will provide updates on this goal in its annual report.

6.7 Develop and implement an infrastructure repair, rehabilitation and retrofit program

Westbrook will continue a program to identify MS4 structures to repair, rehabilitate, or upgrade to reduce or eliminate the discharge of pollutants into water bodies. This program will be responsive to new information on outfalls discharging pollutants, impaired waters, inspections, or observations made during outfall mapping under the IDDE section of this plan.

6.8 Develop and implement plan to identify and prioritize retrofit projects

Westbrook will develop a Retrofit Project Plan to identify and prioritize potential DCIA disconnection projects. Prioritization will be based on several factors, including whether the project lies within one of the MS4 priority areas (urbanized area, DCIA > 11%, discharge to impaired waters). Westbrook will include in its annual report for the third year of the permit (2020-2021) its identification and prioritization process, a rationale for the selection of projects to be implemented, and the total acres of DCIA to be disconnected upon implementation. The implementation of projects in this plan will begin by June 30, 2022.

6.9 Implement street sweeping program

Westbrook will implement a program to provide for regular inspection and maintenance of WESTBROOK-owned or -operated streets, parking areas and other MS4 infrastructure.

Westbrook will establish and implement procedures for sweeping town-owned or operated streets and parking lots. All streets and parking lots within the MS4 Priority Areas will be inspected, swept and/or cleaned (as necessary) at least once per year in the spring following the cessation of winter maintenance activities (i.e. sanding, deicing, etc.). The procedures shall also include more frequent inspections, cleaning and/or sweeping of targeted areas determined by Westbrook to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. Westbrook will identify such potential pollutant sources based upon surface inspections, catch basin cleaning or inspection results, land use, winter road deicing and/or sand application, impaired or TMDL waters or other relevant factors as determined by Westbrook. If wet dust suppression is conducted, the use of water will be minimized such that a discharge of excess water to surface waters and/or the storm sewer system does not occur.

For streets and parking lots outside the MS4 Priority Areas, including any rural uncurbed streets and parking lots with no catch basins, Westbrook will either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping and/or cleaning plan for those areas by June 30, 2018 and submit such plan with its year one Annual Report. For new and redeveloped municipal parking lots, Westbrook will evaluate options for reducing stormwater runoff to surface waters and/or the storm sewer system by installing pervious pavements and/or other measures to promote sheet flow of stormwater.

a. Westbrook will ensure the proper disposal of street sweepings in accordance with DEEP policies, guidance and regulations. Sweepings shall not be discharged back into the storm drain system and/or surface waters.

b. Westbrook will document results of its sweeping program in its annual reports including: a summary of inspection results, curb miles swept, dates of cleaning, volume or mass of material collected, and method(s) of reuse or disposal. Westbrook will also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

6.10 Implement catch basin cleaning program

Westbrook will conduct routine cleaning of all catch basins and track catch basin inspection observations. Utilizing information compiled through its inventory of catch basins, operational staff and public complaints, Westbrook will optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

a. Inspect all Westbrook-owned catch basins within MS4 Priority Areas at least once by June 30, 2020. Catch basins outside the MS4 Priority Areas shall be inspected by June 30, 2022.
b. Prioritize inspection and maintenance for Westbrook-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Westbrook will clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
c. Establish a schedule such that the frequency of routine cleaning will ensure that no catch basin at any time will be more than fifty (50) percent full. A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
d. If a catch basin sump is more than fifty (50) percent full during two consecutive routine inspections/cleaning events, Westbrook will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. Westbrook will describe any actions taken in its Annual Report.
e. Westbrook will detail its plan for optimizing catch basin cleaning, inspection plans, and its schedule for gathering information to develop the optimization plan in its first annual report. Documentation shall include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. Westbrook will keep a log of catch basins cleaned or inspected.
f. Westbrook will report in each Annual Report the total number of catch basins, number inspected, number cleaned, the total volume or mass of material removed from all catch basins and, if practicable, the volume or mass of material removed from each catch basin draining to water quality limited waters.

6.11 Develop and implement snow management practices

(i) Deicing Material Management

Westbrook will develop and implement standard operating practices for the use, handling, storage, application, and disposal of deicing products such as salt and sand to minimize exposure to stormwater; consider means to minimize the use and optimize the application of chloride-based or other salts or deicing product (while maintaining public safety) and consider opportunities for use of alternative materials; for any exterior containers of liquid deicing materials installed after July 1, 2017, Westbrook will provide secondary containment of at least 110% of the largest container or 10% of the total volume of all containers, whichever is larger, without overflow from the containment area.

(ii) Snow and Ice Control Practices

Westbrook will implement and refine its standard operating practices regarding its snow and ice control to minimize the discharge of sand, anti-icing or de-icing chemicals and other pollutants (while maintaining public safety).

Westbrook will establish goals for the optimization of sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g. zero-velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals.

Westbrook will maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals.

Westbrook will ensure the proper training for deicing applications for municipal employees, institutional staff, or private contractors on lands and easements for which it is responsible for maintenance.

Westbrook will manage and dispose of snow accumulations in accordance with DEEP's Best Management Practices for Disposal of Snow Accumulations from Roadways and Parking Lots, revised 2/4/11 and as amended (see link at: www.ct.gov/deep/stormwater).

In its Annual Report, Westbrook will document results of its snow removal program including, at a minimum: the type of staff training conducted on application methods and equipment, type(s) of deicing materials used; lane-miles treated; total amount of each deicing material used; type(s) of deicing equipment used; any changes in deicing practices (and the reasons for the change); and snow disposal methods.

Pollution prevention/ good housekeeping schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Develop/implement formal employee training program	DPW	July 1, 2017, implement annually until the permit expires.	Continue providing on-the-job instruction to new and existing employees related to stormwater management.
			Identify pollutants of concern on municipal properties and develop a strategy to evaluate and address proper use, storage, and disposal.
	DPW	July 1, 2017, implement annually until the permit expires.	Provide on-the-job training to verify that employees understand and implement proper use, storage, and disposal procedures. Evaluate the need for Spill Prevention Plans and develop, if applicable.
Implement MS4 property and operations maintenance			Develop and implement procedures for waste management equipment, including dumpsters, and plans to sweep parking lots and facility adjacent areas to minimize runoff of pollutants.

			Verify interior building floor drains are not connected to the MS4.
Implement coordination with interconnected MS4s	DPW & DOT	July 1, 2017, implement annually until the permit expires.	Identify and coordinate with operators of interconnected MS4s (CTDOT, municipalities, institutions, as applicable) to identify and reduce contribution of pollutants to the MS4.
Develop/implement program to control other sources of pollutants to MS4	DPW	July 1, 2017, implement annually until the permit expires.	Conduct annual review of the list of stormwater general permit registrants and identify non-permitted locations that may be contributing pollutants based on screening and monitoring results.
Evaluate additional measures for discharges to impaired waters	SWM "Team"	July 1, 2017, implement annually until permit expires.	Bacteria Specific: Develop, fund (as available), implement, and prioritize a retrofit or source management program to correct problem(s) within a specific timeframe. Prohibit feeding of geese/waterfowl on Town owned lands and implement a program to manage geese/waterfowl populations
Track projects to disconnect DCIA	DPW/Planning and Zoning	July 1, 2017, implement annually until permit expires.	Develop and implement a procedure to track DCIA annually.
Develop/implement infrastructure repair/rehab program	DPW	July 1, 2017, implement annually until permit expires.	Review and refine (if necessary) infrastructure repair/rehab program to be consistent with MS4 General Permit requirements.
Develop/implement plan to identify/prioritize retrofit projects	DPW/Planning/ Zoning/Health	July 1, 2020, implement annually until permit expires.	Review total DCIA; identify and prioritize suitable retrofit projects
Develop/implement street sweeping program	DPW	July 1, 2017, implement annually until permit expires.	Implement street sweeping and municipal parking lots sweeping within MS4 at least once

			per year during the spring; areas with DCIA >11% or discharging to impaired waters at least once per year during the spring. Conduct street sweeping for areas outside the MS4 with DCIA >11% or discharging to impaired waters. Document street sweeping results, including dates of sweeping, curb miles swept, volume of material collected, and method of reuse or disposal.
Develop/implement catch basin cleaning program	DPW	July 1, 2017, implement annually until permit expires.	Update catch basin cleaning program to document current procedures, and results tabulation for annual reporting in accordance with permit requirements
Develop/implement snow management practices	DPW	July 1, 2017, implement annually until permit expires.	Review and refine snow and ice management practices; update program as necessary to provide annual report documentation

Outfall Monitoring

This section provides an overview of work pertaining to monitoring related to outfall screening, inventory and mapping discharges to impaired waters, follow-up investigations where illicit discharges were identified, and annual monitoring of priority outfalls, as described in Section 6(i) of the MS4 General Permit. A description of the screening process is provided below, and summarized in Table 7-1.

Impaired Waters Outfall Investigations

The Town will use their existing outfall inventory, which will be updated throughout the term of the Permit, to identify outfalls that discharge to impaired waters. Outfalls discharging to impaired waters will be screened for the stormwater pollutants of concern. Screening data obtained from outfalls previously screened under the 2004 MS4 General Permit may be used by the Town for the current screening process. At least 50% of outfalls discharging to impaired waters must be screened by June 30, 2020. A screening process will be described in the Town's writtenIDDE Plan, and progress will be documented in the Annual Report.

Phosphorous and Nitrogen Screening

For waterbodies where phosphorous or nitrogen is listed as an impairment, the Town can collect a stormwater sample during outfall discharge, provided the discharge occurs at least 48 hours after the previous rainfall event and is not composed of snow or ice melt. Grab samples must be collected within the first 6 hours of stormwater discharge from the outfall. Outfalls discharging to phosphorous and/or nitrogen impaired waterbodies must be screened once during the Permit term.

Outfall Screening Thresholds for Phosphorus and Nitrogen

Pollutant of Concern	Threshold
Phosphorus	>0.3 mg/l
Nitrogen	>2.5 mg/l

Bacteria Screening

Where bacteria is listed as an impairment, the Town can collect a stormwater sample during outfall discharge, provided the discharge occurs at least 48 hours after the previous rainfall event and is not composed of snow or ice melt. Grab samples must be collected within the first 6 hours of stormwater discharge from the outfall. Additional investigation may be required if analytical results exceed thresholds presented in the table below; however, follow-up may not be required if the Town can demonstrate that elevated bacteria levels are resultant of wildlife or other natural sources, excluding pet waste and waterfowl.

OUTFALL SCREENING THRESHOLDS FOR BACTERIA

Bacteria	Threshold
E.coli (freshwater)	>235 col/100 mL for swimming areas
E.coli (freshwater)	>410 col/100 mL
Total coliform (freshwater)	>500 col/100 mL
Enterococci (saltwater)	>104 col/100 mL for swimming areas
Enterococci (saltwater)	>500 col/100 mL
Fecal coliform (saltwater)	>31 col/100 ml for Class SA and >260 col/100 ml for Class SB

Other Pollutants of Concern Screening

Pollutants other than bacteria have not been identified as impairments to waters that receive MS4 discharges from the Town. This section will be updated to reflect additional monitoring requirements should additional impairments be identified in MS4 receiving waters.

Outfall Monitoring

Outfall screening for at least 50% of the outfalls discharging to impaired waters will be completed by the end of the third year of the Permit. All outfalls shall be screened by the 2022. When at least 50% of the outfalls have been screened, the Town will select the six largest pollutant contributors and sample from those outfalls annually for the remainder of the Permit term.

Follow-Up Investigations

If the results of the outfall screenings indicate that an outfall may be exceeding thresholds defined in the MS4 General Permit, the Town will perform follow-up investigations to identify factors contributing to polluted stormwater runoff within each Problem catchment. Investigations shall commence no later than June 30, 2019. Progress and/or results of the follow-up investigations will be reported in the Annual Report.

Catchment Investigations

The Town will evaluate catchments where identified problem outfalls are located to identify potential contributing causes that could influence pollutant contribution to the suspect outfall(s).

Control Measures

BMPs focusing on the pollutant(s) of concern for the outfall(s) will be implemented and developed from the MCMs described in this SMP.

Prioritized Outfall Monitoring

Information obtained from the investigations will be used to identify and/or revise the six outfalls that will be monitored annually.

Impaired Waters Discharge Mapping

Discharges to impaired waters will be inventoried and mapped by June 30, 2019.

BMP	Lead Department/individual	Month/Year of Implementation	Measurable Goal
Outfall Screening	DPW	July 1, 2018, implement annually until the permit expires.	Establish screening procedures consistent with Monitoring Requirements for Pollutants of Concern. Initiate screening within one year of Permit effective date; complete screening of at least 50% of outfalls by 2020. Completion of all outfall screenings by 2022.
Inventory and mapping of discharges to impaired waters	DPW	July 1, 2019	Inventory and map outfalls discharging to impaired waters.
Follow-up investigations of drainage areas	DPW	July 1, 2019, implement annually until the permit expires.	Evaluate outfalls to determine potential contribution to impairments. If a potential contribution is identified; perform catchment investigations, implement BMPs related to the pollutant of concern; and use information to prioritize outfalls for further monitoring.
Annual monitoring of priority outfalls	DPW	July 1, 2020, implement annually until the permit expires.	Identify six largest contributors of pollutants of concern and implement annual monitoring of those outfalls. Revise the list if new information becomes available.

Plan Amendments

Westbrook will amend the SMP whenever:

(1) there is a change which has the potential to cause pollution of the waters of the state; or

(2) the actions required by the Plan fail to prevent pollution of the waters of the state or fail to otherwise comply with any other provision of this general permit; or

(3) the Commissioner requests modification of the Plan.

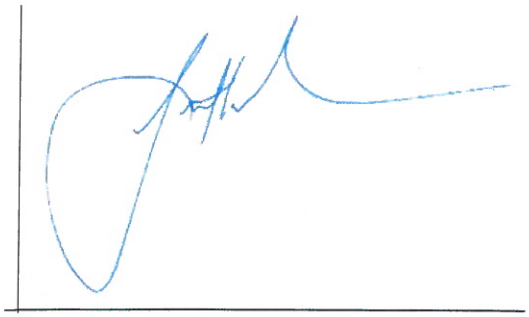
Stormwater Management Plan Signatures

"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."

Joel B. Sethup	First Selectman	3/31/17
Chief Elected Official/ Principal Executive Officer	Title	Date
Janelle Bonn	Project Scientist	March 30, 2017
Principal plan preparer	Title	Date

Stormwater Management Plan Engineering Certification

I hereby certify that I am making this certification in connection with a registration under the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, submitted to the Commissioner by NOEL BISHOP for an activity located at or within Town of Westbrook and that all terms and conditions of the general permit are being met for all discharges which have been created, initiated or maintained and such activity is eligible for authorization under such permit. I further certify that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I certify that I have personally examined and am familiar with the information that provides the basis for this certification, including but not limited to all information described in Section 3(b)(8)(A) of such general permit, and I certify, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining such information, that the information upon which this certification is based is true, accurate and complete to the best of my knowledge and belief. I certify that I have made an affirmative determination in accordance with Section 3(b)(8)(B) of this general permit. I understand that the registration filed in connection with such general permit is submitted in accordance with and shall comply with the requirements of Section 22a-430b of Connecticut General Statutes, as amended by Public Act 12-172. I also understand that knowingly making any false statement made in the submitted information and in this certification may be punishable as a criminal offense, including the possibility of fine and imprisonment, under section 53a-157b of the Connecticut General Statutes and any other applicable law.



Scott Medeiros, P.E.

Name

Project Manager

Title

Woodard & Curran

Company

3/30/2017

Date