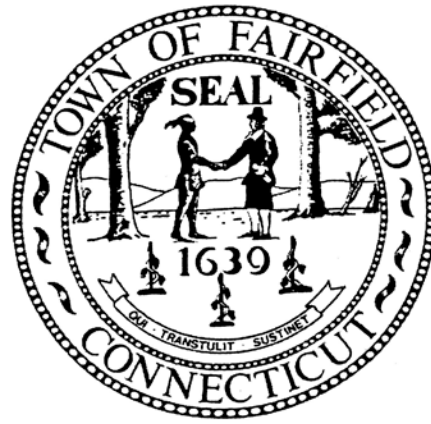


TOWN OF FAIRFIELD

CONNECTICUT



STORMWATER MANAGEMENT PLAN

March 2017

This plan is based on a template created by Western Connecticut Council of Governments staff and staff from UConn Center for Land use Education and Research (CLEAR). Additional information was added/revised by Town of Fairfield Engineering Department.

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Introduction

This Stormwater Management Plan (SMP) was developed by the Town of Fairfield 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/chart of [Town's] impaired waterbodies.

Area Subject to the Plan

The measures identified in this SMP will be applied throughout the boundaries of the Town of Fairfield 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 committee led by the Public Works Department and including representatives from Engineering, inland wetlands and watercourses agency (Conservation), and Town Planning and Zoning (TPZ) was assembled to coordinate the development and implementation of the SMP. Annual Reporting

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.

Description of Municipality

The operator of the MS4 is the Town of Fairfield. The Town of Fairfield is a public entity located in the county of Fairfield, State of Connecticut. The Town of Fairfield covers an area of approximately 30 square miles, located in Southwestern Connecticut.

The Connecticut Department of Transportation (DOT) operates an MS4 on state highways located in the Town of Fairfield. This system is regulated under the CT DOT's MS4 permit. Implementation of the BMPs identified in this plan will be discussed and coordinated in necessary, between Fairfield and CT DOT.

Impaired Waters

In preparing the SMP, the CT DEEP's Water Quality Standards were reviewed in order 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.

Permit Registration- Watershed information Chart

The six required elements of the plan are listed. Complete list of BMPs are listed at the end of the SMR (report).

(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 Fairfield'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

Fairfield Engineering will 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.

Fairfield will maintain their own or link to UConn NEMO's comprehensive online library of stormwater educational material. The Town of Fairfield website, www.fairfieldct.org will reference or link directly to this web-based library and promote the availability of these and other materials. The Town has brochures that are distributed during Earth Day Fair and other events. Materials are also available at the Engineering Department. Some or all of this material will be made available at the Fairfield Library. Engineering Department has a SWPPP and site plan checklist that is provided for projects greater than 1 acre. For smaller projects, a short discussion on E&S and stormwater are provided and materials offered.

Additional targeted outreach efforts will be completed by the Engineering, Health, Conservation and Solid Waste/Recycling Departments to educate Permit application holders, K-12 school children, Scout Program, Developers and interested public members on particular aspects of stormwater management.

Fairfield Engineering typically coordinates with several Departments (listed above) 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

Fairfield Engineering with assistance of Health and Conservation Departments will distribute information on common sources of phosphorus, 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 phosphorus, nitrogen, bacteria, and mercury impairments that exist in Fairfield. Town also hosts 1 or 2 Hazardous Material Collection Days for items containing Mercury and other metals, materials/compounds.

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

Public outreach and education schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Implement public education program	Eng	July 1, 2018 and continue until permit expires	See chart P. 8.
Address education/outreach for pollutants of concern	Eng	July 1, 2018 and continue until permit expires	
Haz. Waste collection	Eng	ongoing	300 Brochures
Brochures/info	Eng	ongoing	

(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

Fairfield Engineering will publish a public notice on its Town Website, www.fairfieldct.org and if funding allows in the local newspaper, *Fairfield Citizen* and/or *Minuteman*. 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, www.fairfieldct.org and in the Engineering Dept. at Sullivan Independence Hall. 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 See chart for Other BMPs...	Eng.	July 1, 2017 and continue until permit expires	See chart P.8

Control measures 1 and 2

(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 Fairfield'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

The Town of Fairfield will develop a written IDDE plan to detect, locate and eliminate illicit discharges (to the maximum extent practicable) from the MS4 within Fairfield's priority areas. The IDDE plan will provide enforceable legal authority to eliminate illicit discharges, assign responsibilities, and continue its 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

Fairfield Engineering will continue its database of all stormwater discharges from a pipe or outfall located within and owned or operated by the municipality. This database will attempt to include private outfalls and DOT connections into Fairfield's system. Each entry should include:

- a. Type, material, size, and location (latitude and longitude, GIS or address) of conveyance, channelized flow or outfall.(e.g. 24" concrete pipe);
- b. the name of water body or watercourse in database or watershed on the map. Include waterbody 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 map will identify which watershed. Optional goal for database: name and water body ID of the nearest named waterbody to which the outfall eventually discharges; as shown on map or in GIS.
- d. the name of the watershed on the map. Include the subregional drainage basin number (available from CT ECO at www.cteco.uconn.edu) in which the discharge is located;
- e. date/year of most recent inspection of the outfall, the condition, and any indicators of potential non-stormwater discharges as of most recent inspection; or other unusual conditions.

The database will be available in the Engineering Department and referenced in the annual report.

Optional goal: include exported database into excel format for annual reports.

Many of the Engineering Department's records are in hard copy format. Progression to convert to excel or GIS database is ongoing.

3.3 Develop citizen reporting program

Fairfield has established a system to allow for citizen reporting of suspected illicit discharges into the stormwater system, called Q alert. The system will include an email address, contact info and phone number for submitting a complaint, comment or concern depending on degree of condition. Fairfield will affirmatively investigate and take appropriate action to eliminate any illicit discharges for each complaint. Various Fairfield Departments (Fire, Conservation, Eng., Health, Sewer) 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 referenced or listed in the annual report.

3.4 Establish legal authority to prohibit illicit discharges

Fairfield will establish [or update] any necessary and enforceable legal actions by statute, ordinance, rules and regulations, permit, easement, contract, order or any other means, to eliminate illicit discharges. The Town's actions/authority, will to the maximum extent practical:

- 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 for necessary restoration;
- 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

Fairfield (Engineering, Fire, Health) will continue to keep a record of illicit discharge abatement activities and/or complaints including location address (optional: latitude and longitude), description, date(s) and result of inspection, sampling data (if applicable), action(s) taken, date of removal or repair and responsible party, if applicable.

In addition, Fairfield WPCF 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. It is the Town's goal to include details about potential mitigating measures and dates of implementation, if possible.

This information is typically recorded by the Fairfield Water Pollution Control Facility. Inventory will attempt to:

- 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 or referenced in Annual Reports.

3.6 Address IDDE in areas with pollutants of concern

Fairfield will identify which areas in town are most likely to contribute nitrogen, phosphorus, and bacteria to the MS4. This assessment will consider: historic on-site sanitary system failures, proximity to bacterial impaired waters, low infiltrative soils, and shallow groundwater. Any areas determined to have a high potential for septic system failure will be reported to the Fairfield Health Department for corrective action.

3.7 Detailed MS4 infrastructure mapping

Fairfield Engineering will continue to revise/update its detailed map of the MS4 or GIS system to include:

- Components of the MS4 within priority areas:
 - Outfalls & receiving waters;
 - Pipes and most drainage structures. (open channel conveyances; cb, mh in GIS)
 - Interconnections with other MS4s and other storm sewer systems; wherever possible.
 - Municipally-owned stormwater treatment structures (e.g. detention ponds, recharge systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other systems) within GIS system; the optimal goal is to locate larger private structures as well.
 - Catchment delineations for each outfall (within GIS system);
 - Impaired water bodies identified by name and use impairment as defined by the most recent integrated water quality report;
 - Municipal sanitary sewer system

Fairfield Engineering will update the map as new information becomes available and will reference 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	E	July 1, 2018	See Chart P. 15
Develop list and maps of all MS4 stormwater outfalls in priority areas	E	July 1, 2019	
Develop citizen reporting program	First Sel.	July 1, 2018	
Establish legal authority to prohibit illicit discharges	C, H, E	July 1, 2018	
Develop record keeping system for IDDE tracking	WPCF,C,H,E,Fire	July 1, 2017	
Address IDDE in areas with pollutants of concern	E,C,H	July 1, 2017	
Detailed MS4 infrastructure mapping	E	July 1, 2020	
Complete list and maps of all MS4 stormwater outfalls throughout municipality	E	July 1, 2022	
Other BMPs are listed in the chart P. 15.			

E=Engineering, T=TPZ, C=Conservation, H=Health

(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 Fairfield, this is determined by reviewing site plan and building permit

Goal:

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

applications and general public complaints.

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

Fairfield TPZ will revise its land use 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 Town Planning and Zoning and/or Conservation and Engineering ;
- c. Town Employees are 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 Fairfield's MS4. Inspections shall be conducted, where allowed, to inventory the number of privately-owned drainage units/structures, 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 Fairfield shall provide and comply with their long term maintenance plan and schedule to ensure the performance and pollutant removal efficiency of privately-owned drainage structures, units, detention ponds and other stormwater basins that discharge to or receive discharge from Fairfield's MS4 including short-term and long-term inspection and maintenance measures to be implemented by the private owner; and
- e. The Town will control through the maximum extent practical, through interagency cooperation or inter-jurisdictional agreements, the contribution of pollutants between the permittee's MS4 and MS4s owned or operated by others. Location of original Source will determine responsibility if agreement can't be reached.

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

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

Continue current procedures-Town utilizes code enforcement meetings, building permit approvals, bonding and cooperation between departments including shared manpower for plan review and construction.

4.3 Review site plans for stormwater quality concerns

Engineering*/Zoning/Conservation 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. The Town will conduct site inspections to confirm installation, and whenever deemed necessary the maintenance, operation, and repair of construction and post construction control measures and take enforcement action. TPZ and Conservation hold bonds until project is completed. For specific cases, Conservation may hold maintenance bonds.

4.4 Conduct site inspections

Any Town Department can 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. Routine and public complaint system inspections will be performed by the town. As mentioned previously, bonds are held until project is completed.

4.5 Implement procedure to allow public comment on site development

Fairfield's procedure for public involvement in proposed and ongoing development and land disturbance activities is as follows: Public hearings for project applications and bond releases for new projects. (Conservation/TPZ). Q alert-Public complaint system.

EXAMPLE "INFORMATION SUBMITTED BY THE PUBLIC IS FORWARDED TO THE PUBLIC WORKS DEPARTMENT WITHIN THE TOWN FOR CONSIDERATION. INFORMATION RELATED TO CONSTRUCTION SITE RUNOFF IS FORWARDED TO THE ZONING ENFORCEMENT OFFICER AND DIRECTOR OF PUBLIC WORKS/ENGINEERING."

4.6 Implement procedure to notify developers about DEEP construction stormwater permit

Fairfield Engineering will continue to 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 Fairfield MS4. Engineering will also require a copy of the Storm Water Pollution Prevention Plan (SWPPP) before permit is issued. The procedure to notify developers of the construction general permit is as follows:

EXAMPLE: FAIRFIELD WILL INFORM DEVELOPERS (WORKING WITH THE MUNICIPALITY) THAT THEY HAVE A POTENTIAL OBLIGATION TO OBTAIN AUTHORIZATION UNDER THE DEEP'S GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS ASSOCIATED WITH CONSTRUCTION ACTIVITIES ("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 RESULTS IN A POINT SOURCE DISCHARGE TO THE SURFACE WATERS OF THE STATE DIRECTLY OR THROUGH THE PERMITTEE'S MS4. THE NOTIFICATION SHALL INCLUDE A PROVISION INFORMING THE DEVELOPER/

CONTRACTOR OF THEIR OBLIGATION TO PROVIDE A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN-SWPPP (REQUIRED BY THE CONSTRUCTION GENERAL PERMIT) TO THE TOWN/PERMITTEE BEFORE PERMIT IS ISSUED.

THE CONTRACTOR IS REQUIRED AT ALL TIMES TO CONDUCT HIS OPERATIONS IN CONFORMITY WITH ALL FEDERAL AND STATE PERMIT REQUIREMENTS CONCERNING WATER, AIR, NOISE POLLUTION AND THE DISPOSAL OF CONTAMINATED, OR HAZARDOUS MATERIALS.

Construction site stormwater management schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Implement, upgrade and enforce land use regs to meet MS4 permit requirements	T,E	July 1, 2019	See Chart P. 15
Develop/implement plan for interdepartmental coordination in site plan review and approval	T	July 1, 2017	
Review site plans for stormwater quality concerns	E, C, T	July 1, 2017	
Conduct site inspections	E, C, T	July 1, 2017	
Implement procedure to allow public comment on site development	C, T	July 1, 2017	
Implement procedure to notify developers about DEEP construction stormwater permit	E, T, C	July 1, 2017	
Other BMPs are listed in Chart P 15.			

E=Engineering, T=TPZ, C=Conservation, H=Health

Control Measures 3 and 4

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

This minimum control measure outlines Fairfield’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

Zoning will update its existing legal authority by ordinance, bylaw, regulation, standard condition of approval, or other means 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 TPZ Subdivision/Zoning 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 approved ROW or pay a fee to fund a DCIA retrofit.

In developing this legal authority, Fairfield 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, Best Management Practices 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. Typically through Conservation Department/IWA.
- 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, wherever possible.
- d. Seek to avoid or prevent hydromodification of streams and other water bodies caused by development, including roads, highways, and bridges, typically through Conservation Department/IWA.

- e. Implement standards or procedures 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. Limit disturbance areas, wherever possible.

In addition, Fairfield 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

Conservation with cooperation of Zoning/DPW will develop a maintenance plan for retention / detention ponds and stormwater treatment structures (DPW/Eng) 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. (Assumes IWPA will be approved).

5.3 Directly Connected Impervious Area (DCIA) mapping

Fairfield 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, (for LIS) 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, Fairfield 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	T	July 1, 2021	See chart P. 26
Enforce LID/runoff reduction requirements for development and redevelopment projects	T, E, C	July 1, 2021	

Implement long-term maintenance plan for stormwater basins and treatment structures	C, E	July 1, 2019
Complete DCIA mapping	E, MetroCOG	July 1, 2020
Address post-construction issues in areas with pollutants of concern	E, C, T	July 1, 2019
Other BMPs are listed in Chart P. 26.		

E=Engineering, T=TPZ, C=Conservation, H=Health

(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.

Fairfield DPW/Engineering 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

Fairfield DPW will continue its MS4 training program for town DPW employees to increase awareness of water quality issues. Engineering/WPCF does its own training in house. Training will include:

- Standard operating procedures consistent with the MS4 general permit and Phase 1 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.

These trainings may also include regional or statewide trainings coordinated by UConn CLEAR or others.

Scott Bartlett and George Kacegowicz are responsible for DPW training.

William Hurley is responsible for Engineering, John Bodie/Bill Norton for WPCF training.

6.2 Implement MS4 property and operations maintenance

Town owned or -operated properties, parks, and other facilities that are owned, operated, or otherwise the legal responsibility of Fairfield will be maintained so as to minimize the discharge of pollutants to its MS4. Such maintenance will include, but not be limited to:

(i) Parks and open space

Fairfield 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).

DPW will establish practices for the proper disposal of grass clippings and leaves at Town-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

Fairfield Conservation/DPW 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, Fairfield will, implement targeted management efforts such as public education and enforcement (e.g. increased patrol for violators).

In Town-owned recreational areas where dog walking is allowed, Conservation has installed educational signage, pet waste baggies, and disposal receptacles (or require carry-out).

Conservation will document its efforts and it will be referenced in its annual reports. Fairfield should consider including information regarding the scope and extent of its education, compliance, and enforcement efforts through patrol reporting and optionally including the number of violations pursued and fines levied or other enforcement taken.

(iii) Waterfowl management

DPW, Conservation and Recreation will identify lands where waterfowl congregate and feeding by the public occurs.

To raise awareness regarding the water quality impacts, Fairfield may 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.

DPW/Conservation 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) Fairfield Buildings and facilities (schools under the jurisdiction of the Town, municipal offices, police and fire stations, pools, parking garages and other Town-owned or operated buildings or utilities)

The Town of Fairfield (through each department with potential assistance from DPW) 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

Fairfield DPW, BOE, Fire and Police will

- establish procedures for the storage of Town-owned or -operated vehicles;
- require vehicles with fluid leaks to be stored indoors or in contained areas until repaired;
- evaluate fueling areas owned by The Town and used by Town owned or -operated vehicles and if possible, in the future to 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

DPW 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 the Town or its contractors. Town typically performs annual leaf collection.

6.3 Implement coordination with interconnected MS4s

Fairfield Engineering 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. Adjoining Municipal and DOT representation meet seasonally at regional utility meeting and can communicate issues at this or other scheduled meetings.

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

Town of Fairfield will continue to 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. Typically covered under Phase 1 stormwater permit requirements for industrial activities.

6.5 Evaluate additional measures for discharges to impaired waters

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

On [TOWN]-owned or -operated lands, DPW 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 Town -owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), Fairfield Health Dept. will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. 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 Town-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 the disconnect DCIA

Fairfield Engineering/MetroCOG 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, Town/MetroCOG 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, Fairfield's goal will be to reduce 1% of its total DCIA acreage per year to the maximum extent possible. Engineering will provide updates on this goal in its annual report. Engineering/MetroCOG will also incorporate all DCIA disconnections which occurred in the town since July 1, 2012 towards meeting this goal.

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

Fairfield Engineering/DPW will continue its 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

Fairfield Engineering 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). Fairfield will include or reference 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 Develop and implement street sweeping program

Fairfield DPW will continue its program to provide for regular inspection and maintenance of Town-owned or -operated streets, parking areas and other MS4 infrastructure.

Fairfield DPW 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 DPW to have increased pollutant potential based on the presence of active construction activity or other potential pollutant sources. Engineering/DPW 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 the Town. 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, DPW will either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping and/or cleaning plan/summary for those areas by June 30, 2018 and submit such plan/summary with its year one Annual Report. For new and redeveloped municipal parking lots, DPW/Engineering will evaluate options for reducing stormwater runoff to surface waters and/or the storm sewer system by the installing pervious pavements and/or other measures to promote sheet flow of stormwater.

- a. DPW 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. Fairfield DPW's plan has always exceeded requirements. DPW will document or create certification of its operations. Optional goal: to include 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. DPW will also include documentation of any alternate sweeping plan for rural uncurbed streets and any runoff reduction measures implemented.

6.10 Develop and implement catch basin cleaning program

DPW, Engineering and/or its contractor 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, DPW /Engineering will optimize routine cleaning frequencies for particular structures or catchment areas as follows to maintain acceptable sediment removal efficiencies:

- a. Town or its Contractor shall inspect all Town 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 Town-owned catch basins located near impaired waters and construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). DPW 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, DPW/Engineering will document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the maximum extent practicable, abate contributing sources. Engineering/DPW will describe any actions taken in its Annual Report.
- e. Fairfield 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. DPW or its Contractor will keep a log of catch basins cleaned or inspected via location and date or by “street/snow route”.
- f. DPW/Engineering will report or certify 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

DPW 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, DPW 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

DPW 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).

DPW 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.

DPW 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.

DPW 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.

DPW 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, DPW will document/summarize 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.

6.12 Interconnected MS4s

DPW 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 will be conducted regarding operation and maintenance procedures utilized in the respective systems.

6.13 Sources contributing pollutants to the MS4

DPW 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 permit issued pursuant to Sections 22a-430 or 22a-430b of the Connecticut General Statutes.

6.14 Additional measures for discharges to impaired waters (with or without a TMDL)

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

On Town-owned or -operated lands, DPW 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. Annual Reports 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 Town-owned or -operated lands with a high potential to contribute bacteria (such as dog parks, parks with open water, sites with failing septic systems), DPW will develop, fund, implement, and prioritize a retrofit or source management program to correct the problem(s) within a specific timeframe. Annual Reports 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 Town-owned or -operated lands, Town will prohibit the feeding of geese or waterfowl and implement a program to manage geese and waterfowl populations. Annual Reports will discuss the actions taken to implement this program.

Pollution prevention/ good housekeeping schedule

BMP	Lead department / individual	Month / year of implementation	Measurable goal
Develop/implement formal employee training program	D	July 1, 2017	See Chart P. 26
Implement MS4 property and operations maintenance	E, D	July 1, 2017	
Implement coordination with interconnected MS4s	E, D	July 1, 2017	
Develop/implement program to control other sources of pollutants to MS4	E, D	July 1, 2017	
Evaluate additional measures for discharges to impaired waters	E, C	July 1, 2017	
Track projects the disconnect DCIA	E, T, C	July 1, 2017	
Develop/implement infrastructure repair/rehab program	E, D	July 1, 2017	
Develop/implement plan to identify/prioritize retrofit projects	E, D	July 1, 2020	
Develop/implement street sweeping program	D	July 1, 2017	
Develop/implement catch basin cleaning program	D, E	July 1, 2017	
Develop/implement snow management practices	D	July 1, 2017	
Other BMPs are listed in Chart P. 26			

D=DPW, E=Engineering, T=TPZ, C=Conservation, H=Health

Control Measures 5 and 6

Outfall Monitoring

Town of Fairfield will monitor and investigate all MS4 outfalls that discharge to impaired waterbodies by the end of the permit term. Using the outfall inventory developed under the IDDE minimum control measure, Town will identify which outfalls discharge to impaired waters and screen them for the specific impairments.

Once half of all outfalls discharging to impaired waterbodies have been screened, the 6 outfalls contributing the highest level of pollutants will be identified and screened on an annual basis.

Based on the screening results, Engineering/Health/DPW will investigate the drainage areas of outfalls that are contributing to the impairment. The investigations may consider land use or development patterns, business or commercial activities, industrial activities, DCIA, natural contributors, MS4 maintenance issues, residential activities, or anything else potentially contributing to the source of the impairment.

Based on results of the drainage area investigations, Engineering/Conservation/Health Dept. will implement measures to address sources of the impairments including the specific impaired waters provisions described within the permit control measures.

Plan Amendments

Engineering will amend the SMP whenever:

- (1) there is a significant 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.”

_____	_____	_____
Chief Elected Official/ Principal Executive Officer	Title	Date

_____	_____	_____
Principal plan preparer	Title	Date

Stormwater Management Plan Engineering Certification

"I hereby certify that I am a qualified professional engineer, as defined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems. I am making this certification in connection with a registration under such general permit, submitted to the Commissioner by the Town of Fairfield for an activity located at or within the Town of Fairfield. 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)(9)(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, based on my review of all information described in Section 3(b)(9)(A) of such general permit and on the standard of care for such projects, that I have made an affirmative determination in accordance with Section 3(b)(9)(B) of this general permit. I understand that this certification is part of a registration submitted in accordance with Section 22a-430b of Connecticut General Statutes and is subject to the requirements and responsibilities for a qualified professional in such statute. I also understand that knowingly making any false statement 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."

Name

Title

Company

Date