

Town of Windsor
Stormwater Management Plan



2005 Annual Report

December 30, 2005

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Executive Summary

In 2004, the Town of Windsor prepared a five-year Phase II Stormwater Management Plan as required by the Connecticut Department of Environmental Protection's General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems.

This plan includes several goals and actions to achieve cleaner stormwater in drainage systems, watercourses, waterbodies, and wetlands throughout the Town.

The General Permit requires the Town to submit annual reports, which demonstrate the plan progress, effectiveness, and upcoming goals and actions. These reports are also produced for residents for review and comment. The following information includes the Town's efforts to date on the plan and what the Town will accomplish throughout the life of the General Permit.

At the time of this report, the Town had contracted with a testing laboratory to sample and test water samples from six drainage outfall locations, representing industrial, commercial, and residential areas. These samples will be collected as required by the permit from areas spread over a geographic area to capture different sections of Town and different receiving watercourses, and wetlands. The laboratory will test the water samples to determine the concentrations of contaminants, collected by the stormwater as it travels across building roofs, vegetated areas, parking lots, and other areas prior to discharge into the outfall locations. The laboratory results will be submitted when they are received and evaluated and will be included in the appendix of this annual report.

2005 Annual Report

The Town of Windsor completed the preparation of the Stormwater Management Plan in May 2004. The Plan is available for public review at the Windsor Main Library, the Wilson Branch Library, the Town Clerk's Office in the Windsor Town Hall, on the internet at www.townofwindsorct.com, or arrangements can be made to receive a copy by contacting the Engineering Department at (860) 285-1861.

A public information meeting was conducted at the Conservation Commission meeting in January 2005. This meeting allowed the public to review and comment on the 2004 Annual Report.

As part of the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, the Town is required to develop and submit annual reports to demonstrate the progress of the Plan.

The first permit year (2004) for the Plan technically began in January of 2004 although the Plan was not formally submitted to CTDEP until July 2004. The first permit year ended on December 31, 2004. This report covers the period of January 1, 2005 through December 31, 2005.

The activities completed this year, include the following:

Catch basin marker installation

As part of the catch basin marker installation program, approximately 40 catch basins were marked with a placard, stating, "Drains to Waterways and the Long Island Sound, No Dumping!" These markers warn people that discharging harmful contaminants into a catch basin has a negative impact on the local waterways and the Long Island Sound. This year college interns were available to install the markers. This program will continue throughout the permit years.

Stormwater website

The Information Section of the Town's website, www.townofwindsorct.com/information.index.htm was used to provide information regarding the Town's efforts on stormwater management. This information can also be accessed through the introductory screen on the Town of Windsor's web page at www.townofwindsorct.com. The stormwater section includes the five-year Stormwater Management Plan, the presentation slides for the stormwater management plan that were used at the Conservation Commission meeting, and the 2004 Annual Report. As the plan progresses, additional stormwater related information will be added to this web page. The 2005 Annual Report will be made available through the web page.

Household hazardous waste collection day

The Town continued its coordination efforts for the Metropolitan District Commission's Household Hazardous Waste Collection Day on June 11, 2005. This collection allows residents to properly dispose of household hazardous wastes such as pool chemicals, wood preservatives, and disinfectants. This program is anticipated to remain throughout the life of the permit.

Community Clean-ups

The Town Environmental Planner conducted 2 community clean-ups, April 22, 2005 and October 8, 2005. The April clean-up was throughout Town and over 41/2 tons of trash was collected. In October, the Town participated in the Connecticut River clean-up and gathered over 1000 pounds of trash in 31/2 hours.

Public Education

The Town provided stormwater management information to Windsor residents through a variety of media outlets over the past year. A feature article with photos was published in the *Reminder Newspaper*, a free local publication distributed to all Windsor households. Feature articles and photos were also published in both the *Hartford Courant* and the *Windsor Journal* on the Earth Day and Riverfront community clean-up efforts. Promotional information on these events as well as other stormwater management educational information was broadcast on Windsor's Government Access Television Channel, WGTV.

In addition, the Town of Windsor publication, *There's a lot to do in Windsor* included public relations materials taken directly from EPA marketing resources including "When it rains it drains" ads, information for pool and outdoor hot tub owners regarding regulations for pool wastewater discharge and environmental education tips for residents regarding washing cars and watering lawns. This town magazine, published three times per year is mailed to every household and business in Windsor for a total distribution of 13,500.

Street sweeping

The Town continued its efforts to sweep Town-owned roadways and parking areas. All of the town roadways and parking areas were swept between the early spring and summer. This program will continue throughout the five-year stormwater plan.

Development reviews

Town staff reviews all proposed developments with respect to stormwater quality impacts. Town staff works with developers and engineers for each individual

project to determine the best management practices. This practice will also continue throughout the life of the plan.

Oil/water separators are now being required in new commercial and industrial parking areas for stormwater cleaning prior to discharge into detention basins or offsite stormwater systems.

Illicit Discharges

The Town identified and resolved two illicit discharges during the reporting period.

Outfall Mapping

The Town completed the mapping of all stormwater outfalls. Over two Summers, the Town hired college interns who mapped all the outfalls using GPS instrumentation. This data was transferred to the Town's GIS maps and included 561 outfalls. These outfall maps are available for review at Town Hall. In addition to the outfalls, all the Town's drainage system including catch basins, manholes, piping and other structures were mapped.

Water Testing

The Town was required by the permit to complete a minimum of six outfall water tests, which represent the overall nature of each respective land use type, including industrial, commercial, and residential land uses. Outfalls are stormwater discharges, typically pipes located at the end of a storm drainage system that allow stormwater to enter into a watercourse, waterbody, wetland etc.

The six outfall water testing locations were selected in an attempt to geographically cover the Town and subsequently cover different watersheds, watercourses, wetlands, etc. We visited several potential outfalls and selected the following locations due to their geographic location, accessibility, and the nature of the contributing watershed area:

Commercial Outfall Locations

1. 1075 Kennedy Road (Shopping Center with Stop & Shop)
2. 555 Day Hill Road (Day Hill Village Shoppes)

Industrial Outfall Locations

1. 800 Marshall Phelps Road (Industrial Park)
2. 615 Day Hill Road (Baran Institute of Technology)
3. 570 Hayden Station Road – Alternate test location (Industrial Park)

Residential Outfall Locations

1. Between 124 and 128 Harvest Lane
2. Between 21 and 27 Philip Henry Circle

Proposed 2006 Permit Year Activities

Several goals and actions are proposed, which will be completed during the third permit year (2006) of the Plan. The following measures are planned to be completed in 2006 with respect to the Minimum Control Measures:

Public Participation/Involvement

- Conduct a community cleanup
- Conduct a public information meeting
- Request involvement from a Town Organization(s)

Public Education and Outreach

- Develop educational brochures
- Develop an educational television campaign
- Continue catch basin markings

Illicit Discharge Detection and Elimination

- Continue household hazardous waste collection day
- Develop an illicit discharge ordinance (from 2005)
- Employee training

Pollution Prevention/Municipal Stormwater Practices

- Develop employee training materials
- Develop Best Management Practices
- Evaluate maintenance program effectiveness
- Employ Stormwater Pollution Prevention Plans for Town facilities
- Utilize the Information Management System
- Prepare a stormwater system maintenance plan and schedule

Construction Site Runoff Control

- Setup information management system
- Develop a sediment and erosion control ordinance (from 2005)

Post Construction Site Runoff Control

- Develop a list of recommended Best Management Practices
- Develop a post construction runoff control ordinance (from 2005)
- Continue staff training

- Publish a list of Best Management Practices

Water Testing, Evaluation, and Reporting

- Improved water quality testing (Commercial, Industrial, Residential)
- Evaluation Report