TOWN OF SANDWICH
THE OLDEST TOWN ON CAPE COD
DEPARTMENT OF PUBLIC WORKS

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April 29, 2008

United States Environmental Protection Agency
Water Technical Unit
PO Box 8127
Boston, Massachusetts 02114

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street
Worcester, Massachusetts 01608

Subject: Annual Update - NPDES Phase II General Permit
Town of Sandwich Stormwater Management Plan: Year 5 Update

Dear U.S. EPA and MaDEP:

As required under the NPDES Stormwater General Permit, the Town of Sandwich hereby submits this annual update of the Town's the Stormwater Management Plan (SMP). The Year 5 Update marks the end of the 5-year permit term, started back in 2003. In anticipation of succeeding permits and to continue the Town's efforts to maintain and improve water quality in Sandwich, many of the goals established in the SMP are annual measures meant to extend beyond the five-year permit period. So, while many of the 5-year goals have already been met, the Town will continue to implement these programs each year.

Year 5 Update
The Town of Sandwich continues to be very proactive in the field of stormwater management and has successfully fulfilled many of its goals established in its Stormwater Management Plan over the 5-year period.

This Annual Update provides a look at major accomplishments, new programs and goals and the status of goals that have not been met as scheduled. Below is a summary of Year 5 implementation.

Major Fifth Year Accomplishments (Spring 2007 - Winter 2008)
Below is a list of some of the significant goals accomplished over the past year. Further details and illustrations of these accomplishments are show in the attached appendix.

Stormwater Mitigation of Mill Creek
Containing an effort that started back in 1990, the Town of Sandwich was recently awarded a State 319 grant to mitigate stormwater pollution entering Mill Creek, a

tributary of Sandwich Harbor. Shellfishing has been prohibited by the State at Sandwich Harbor since 1985 due to bacteriological contamination. Starting with illicit detection inspection in 1990 and continuing with Coastal Pollution Remediation (CPR) grants and now the 319 grant, the Town continues to actively mitigate stormwater impacts in the Town of Sandwich. While not a specific goal in the Town's SMP, nor required under the NPDES General Permit, the Town's continued efforts to mitigate stormwater impacts to Mill Creek show a long-term commitment to improve water quality in this creek, and ultimately in Sandwich Harbor.

In addition to the above work, Sandwich's Natural Resource Department is seeking funds to study and restore Brady's Island Marsh, which is connected to Mill Creek. The study will focus on identifying pollution sources impacting the marsh and methods to rehabilitate the marsh.

Public Works Fuel Depot – Fuel Spill Cleanup

The Department of Public Works installed a new Fuel Spill and Cleanup Containment Package at their fuel depot. This package includes all necessary equipment to capably handle minor fuel spills and complements other safety measures currently in place at the fuel depot.

Water Festivals

Under a program developed by Americorps Cape Cod and the Cape Cod Commission, the Town continued to participate in daylong Water Festivals at elementary schools to educate young students about stormwater impacts and active roles they can take to alleviate these impacts. The Town partakes in two events called "Hazmat Heroes" and "Great Grates". Educational information is also distributed at the Festival.

The Town has also written a letter supporting the Cape Cod Commission in their effort to obtain a grant to refurbish and upgrade many of the Water Festival activities.

Community Pride Day

The Town of Sandwich has proclaimed a Community Pride Day where residents participate in the cleanup of the Town. The DPW distributes equipment to assist in the cleanup of trash and identifies locations where residents can focus their efforts, such as at walking trails, roadsides, beaches, marshes and along shorelines. This event helps prevent trash from entering our valuable water bodies.

Stormwater Inspections and Monitoring

The Town continues to monitor erosion control at developments and inspect illicit connections throughout town as part of its SMP. The Town's enforcement of this program has effectively cleaned up many sites, minimizing impacts to the Town's drainage system.

Status of Goals for Year 5

Similar to the original table submitted for the NPDES General Permit, the attached table shows goals proposed for all Six Control Measures. This updated table reflects new goals and the status of Year 1 through 5 goals. The yellow highlighted cells represent

goals scheduled in each season of respective years. Words highlighted in red represent goals that have not yet been reached. New goals mentioned earlier have also been included in the table.

The attached appendix shows several of the actions performed by the Town to meet the Year 5 goals listed in the table.

Overall Status of 5-Year Permit Term

As can be seen in the attached table, almost all of the goals in the Town's SMP have been met over the 5-year permit period. It's important to note that several new goals where added to the Six Control Measures as the SMP evolved. The goals that were not achieved under the 5-year permit are shown below. In some instances, these goals will be accomplished in future years, as identified in the table. Note: Some of the goals overlap in the Six Control Measures.

Unmet Goals of Six Control Measures

5.1 Public Education & Outreach

1g. Web Site Information – Future Goal

The Town plans to upgrade it's web site which will provide an opportune time to incorporate the web site goals mentioned in the SMP, such as inserting educational aspects of the plan and soliciting input from the public.

1j. Educational Video – Will not be completed

Due to limited resources and staff at Americorps Cape Cod, an educational video will not be completed.

1k. Catch Basin Stencils – Future Goal

With assistance from Americorps Cape Cod, the Town will glue approximately 100 storm drain markers and distribute 500 door hangers in the environmentally sensitive Town Neck area of Sandwich.

5.2 Public Involvement and Participation

2h. Educational Video – Will not be completed

Due to limited resources and staff at Americorps Cape Cod, an educational video will not be completed.

5.4 Construction Stormwater Runoff Control

4e. Web Site Information – Future Goal

The Town plans to upgrade it's web site which will provide an opportune time to incorporate the web site goals mentioned in the SMP, such as inserting educational aspects of the plan and soliciting input from the public.

4g. Recommended BMP's – Future Goal

The Town requires developers to design drainage facilities using BMP's. The Town had anticipated the Cape Cod Commission obtaining a grant to create a list of "Cape Cod BMP's" to distribute to developers. Since the grant was not awarded, the Town will develop it's own brochure and list of BMP's.

4i. Erosion Control Guidelines – Future Goal
The Town will update it's current Erosion Control Guideline to reflect current BMP practices and design. This guideline will be available for developers and homeowners. The guideline will also complement enforcement letters for non-compliance.

5.5 Post Construction Stormwater Management
5f. Recommended BMP's – Future Goal
The Town requires developers to design drainage facilities using BMP's. The Town had anticipated the Cape Cod Commission obtaining a grant to create a list of "Cape Cod BMP's" to distribute to developers. Since the grant was not awarded, the Town will develop it's own brochure and list of BMP's.

5h. Erosion Control Guidelines – Future Goal
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Future Stormwater Management Plan & Permit
As mentioned above, the Town will accomplish the remaining goals of the SMP during the next permit and will continue implementing most of the SMP goals annually.

In light of the expected new permit due this year, the Town will adjust it's SMP goals as necessary to meet new compliance requirements. Several of the preliminary requirements for the draft permit listed in the EPA letter dated August 3, 2007 are goals that the Town of Sandwich has already implemented. The Town anticipates that it will be able to comply with the others as staffing and funding becomes available.

Conclusion
The Town of Sandwich's accomplishments over the past five years meet or exceed most of the scheduled goals. Additionally, new goals have been created to further enhance the Towns Stormwater Management Plan. We trust that these accomplishments will satisfy the Massachusetts Department of Environmental Protection and the United States Environmental Protection Agency requirements for the 5-year permit. Please contact Paul S. Tilton of the Department of Public Works if you have any questions or require further information regarding the Year 5 Annual Update.

Sincerely,

Paul S. Tilton, P.E.
DPW Director/Town Engineer

Attachments: Year 5 Update Materials