



April 29, 2015

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U.S. Environmental Protection Agency - Region 1  
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Boston, MA 02109-3912

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**Subject: Annual Update - NPDES Phase II General Permit  
Town of Sandwich Stormwater Management Plan: Year 12 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 Stormwater Management Plan (SMP). This report is a continuation of the original 5-year permit issued for the Town of Sandwich. During the twelfth year, the Town continued many efforts implemented in the initial permit and strove to meet goals that were planned but not met within the first five years. An update of Year 12 accomplishments are listed below and shown in the attached tables.

**Year 12 Update**

The Town of Sandwich continues to be very proactive in the field of stormwater management and has successfully fulfilled nearly all of its goals established in its Stormwater Management Plan over the 12-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 12 implementation.

**Significant Accomplishments (Spring 2014 - Winter 2015)**

Below is a list of some of the significant goals accomplished over the past year. Further details and illustrations of these accomplishments are shown in the attached appendix.

Stormwater Mapping

In anticipation of new requirements expected to be part of the NPDES Stormwater General Permit reissuance, the Town's Engineering Department has begun efforts to refine and improve mapping of catchment and subcatchment areas. This work is being incorporated into the Town's Geographic Information System and will help future stormwater mitigation planning.

#### Stormwater Mitigation of Mill Creek

The Town of Sandwich has continued efforts to implement BMP retrofits to mitigate stormwater pollution entering Mill Creek, a tributary of Sandwich Harbor. Shellfishing had 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 a recent 319 grant, the Town continues to actively mitigate stormwater impacts in the Town of Sandwich. The Town's efforts to abate pollution, including stormwater mitigation, have resulted in the recent reopening of the shellfish beds by the Division of Marine Fisheries and successful shellfish harvests. This past year, the Town has worked to integrate advanced stormwater mitigation measures into improvement projects. An example of this is the Library parking lot reconstruction project. There, bioretention systems have been incorporated into the new layout. Currently, construction is ongoing.

#### Comprehensive Water Resources Management Plan Development

The Town of Sandwich has continued Comprehensive Water Resources Management Planning to address water resource issues across Town, including stormwater management. In addition to stormwater, the work will assess and develop solutions for wastewater and other potential pollution sources. The Town's consultant has completed the draft of the first phase of this work, the Needs Assessment: <http://www.graphtechservices.com/ccw/CWRMPreport.pdf>.

#### Environmental Exposition at Sandwich High School

Town staff attends an Environmental Expo at Sandwich High School each year to view projects completed by the senior class. Staff assists students throughout their project period by providing mapping and stormwater information related to their local projects.

#### Household Hazardous Products Collection

The Town collaborates annually with four other neighboring communities to provide opportunities for residents to properly dispose of household hazardous products. This reduces the amount of hazardous material released to the environment, including water resources.

#### Municipal Solid Waste Disposal Enhancements

Town recently implemented a Pay-As-You-Throw program at the Solid Waste Transfer Station. This program requires users to pay for each bag of general trash disposed of. This, together with improvements to the recycling center has reduced the Town's municipal solid waste stream and increased recycling. The Department of Public Works also distributed compost bins for home composting and aired "Home Composting - Turning Your Spoils to Soil" on local TV (a MassDEP DVD). The Town gave away recycling and compost bins at this event.

#### Community Pride Day

The Town of Sandwich continues the annual 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 and water bodies.

#### Stormwater Management Plan on Display

The Stormwater Management Plan is on display on the Town's web site for public viewing. Additionally, the Town's GIS allows the public to pinpoint specific stormwater problems and relay this information via e-mail to the Department of Public Works. The e-mail shows a map and ID number of the drainage facility so the DPW can quickly respond to any drainage issues. This process also allows accurate record keeping by the DPW.

#### Water Quality Groups

The Town of Sandwich is proactive in matters related to water quality in Sandwich and on Cape Cod. The Town has many public officials and volunteers actively involved with water quality committees including but not limited to the Sandwich Water Quality Advisory Board, Mass Estuaries Program, Popponesset Bay State DEP Pilot Intra-municipal Work Group and 3 Bays Initiative.

#### **Status of Goals for Year 12**

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 12 goals. The yellow highlighted cells represent goals scheduled and met in each season of respective years. 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 12 goals listed in the table.

#### **Overall Status of 12-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 permit period. It's important to note that several new goals were added to the Six Control Measures as the SMP evolved. Goals that were not achieved are shown below. In all 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

##### *5.4 Construction Stormwater Runoff Control*

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 has begun to develop its own brochure and list of BMP's. This work is underway and is anticipated to be completed in the next permit year.

4i. Erosion Control Guidelines – Future Goal

The Town has begun to update its 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. This work is underway and is anticipated to be completed in the next permit year.

*5.5 Post Construction Stormwater Management*

5f. Recommended BMP's – Future Goal. See Unmet Goal 5.2, 4g above.

5h. Erosion Control Guidelines – Future Goal. See Unmet Goal 5.2, 4.i above.

**Future Stormwater Management Plan & Permit**

As mentioned above, the Town plans to complete the remaining goals of the SMP during the next permit and will continue implementing most of the SMP goals annually.

The Town will add to its SMP goals as necessary to meet compliance requirements of new permits issued by EPA and DEP. Several of the preliminary requirements for the new 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 permit period meet or exceed nearly all of the scheduled goals. Additionally, new goals have been created to further enhance the Town's 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 this permit. Please contact Sam Jensen of the Sandwich Engineering Department if you have any questions or require further information regarding this Annual Update.

Sincerely,



Samuel J.P. Jensen, P.E.  
Assistant Town Engineer

Encl.

United States Environmental Protection Agency  
April 29, 2015

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cc: G. Dunham, Town Manager  
P. Tilton, DPW Director, Town Engineer



| BMP ID #                                       | PERMIT YEAR ONE |           |         |              | PERMIT YEAR TWO |           |         |              | PERMIT YEAR THREE |           |         |              | PERMIT YEAR FOUR |           |         |              | PERMIT YEAR FIVE |           |         |              | PERMIT YEAR 6 ACHIEVEMENTS | PERMIT YEAR 7 ACHIEVEMENTS | PERMIT YEAR 8 ACHIEVEMENTS | PERMIT YEAR 9 ACHIEVEMENTS | PERMIT YEAR 10 ACHIEVEMENTS | PERMIT YEAR 11 ACHIEVEMENTS | PERMIT YEAR 12 ACHIEVEMENTS | STATUS                                     |                                                                                                   |  |
|------------------------------------------------|-----------------|-----------|---------|--------------|-----------------|-----------|---------|--------------|-------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|------------------|-----------|---------|--------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------|--|
|                                                | Spring 03       | Summer 03 | Fall 03 | Winter 03-04 | Spring 04       | Summer 04 | Fall 04 | Winter 04-05 | Spring 05         | Summer 05 | Fall 05 | Winter 05-06 | Spring 06        | Summer 06 | Fall 06 | Winter 06-07 | Spring 07        | Summer 07 | Fall 07 | Winter 07-08 |                            |                            |                            |                            |                             |                             |                             | Goals                                      | Comments                                                                                          |  |
| 5.1: Public Education & Outreach               |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             |                                            |                                                                                                   |  |
| 1a                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Current Educational Brochures              | Brochures available at Town buildings and distributed at Stormwater events. Earth Day Events.     |  |
| 1b                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Development Review                         | Continue to enforce stormwater and erosion regulations during development review.                 |  |
| 1c                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Public Display of Stormwater Mgmt Plan     | Displayed on Town web site and at Public Library.                                                 |  |
| 1d                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Public Meeting                             | Held Public Meeting. Updated Board of Selectmen on SMP - BoS endorsed continuation.               |  |
| 1e                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Proposed Educational Brochure              | Continue to distribute brochures and educational information.                                     |  |
| 1f                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Outfall & Catch Basin ID & Mapping         | GIS Drainage Layer is complete. Continue drainage updates.                                        |  |
| 1g                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Web Site Information                       | SMP is displayed on web site. Future Stormwater information to be displayed on web.               |  |
| 1h                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educational Festival                       | Participated in Water Festivals at Elementary Schools w/ County and AmeriCorps.                   |  |
| 1i                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educate DPW Employees                      | Educated DPW employees about disposal and containment of hazardous wastes                         |  |
| 1j                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educational Video                          | AmeriCorps Cape Cod w/ Stormwater video in Sandwich complete                                      |  |
| 1k                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Catch Basin Stencils                       | Placing approx 100 CB markers & 500 door hangers in Town Neck area during summer.                 |  |
| 1l                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Stormwater Posters                         | Displayed 4 stormwater posters in several Town offices.                                           |  |
| 1m                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Student Involvement                        | Assisted Environmental Science Classes at High School.                                            |  |
| 1n                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Stormwater Committee                       | Project Storm team continues to meet to discuss stormwater and implement Phase II Regs            |  |
| 1o                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Environmental Expo Review Team             | Member of Environmental Expo Review Team for Sandwich High School                                 |  |
| 5.2: Public Involvement & Participation        |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             |                                            |                                                                                                   |  |
| 2a                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Development Review                         | Continue to enforce stormwater and erosion regulations during development review.                 |  |
| 2b                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Public Meeting                             | Held Public Meeting. Updated Board of Selectmen on SMP - BoS endorsed continuation.               |  |
| 2c                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Public Display of Stormwater Mgmt Plan     | Displayed on Town web site and at Public Library.                                                 |  |
| 2d                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Proposed Educational Brochure              | Continue to distribute brochures and educational information.                                     |  |
| 2e                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Illicit Discharge Identification           | Continued inspection of potential illicit connections.                                            |  |
| 2f                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Outfall & Catch Basin ID & Mapping         | W/ AmeriCorps, identified over 2,500 CB's and outfalls w/ GPS. Report is available. GIS complete. |  |
| 2g                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Water Monitoring Program                   | Health Dept performs annual sampling.                                                             |  |
| 2h                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educational Video                          | AmeriCorps Cape Cod w/ Stormwater video in Sandwich complete                                      |  |
| 2i                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educational Festival                       | Participated in Water Festivals at Elementary Schools w/ County and AmeriCorps.                   |  |
| 2j                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Student Involvement                        | Taught class, interacted w/ students on projects & involved them with data collection.            |  |
| 2k                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Stormwater Committee                       | Formed Cape-wide group w/ CCC to develop & distribute educational info related to stormwater      |  |
| 5.3: Illicit Discharge Detection & Elimination |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             |                                            |                                                                                                   |  |
| 3a                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Household Hazardous Waste Program          | Continue to distribute info and schedule household hazardous waste collection days w/ County.     |  |
| 3b                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Sandwich Village Stormwater Assessment     | Cont'd using Town funds/grants to mitigate stormwater. Completed construction of 319 grant.       |  |
| 3c                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Illicit Discharge & Dumping Identification | Continued inspections of illicit discharges. Inspected and issued notices to sump pump owners.    |  |
| 3d                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Catch Basin Cleaning                       | Continue to clean & monitor CB conditions. GIS drainage layer complete.                           |  |
| 3e                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Outfall & Catch Basin ID & Mapping         | W/ AmeriCorps, identified over 2,500 CB's and outfalls w/ GPS. Report is available. GIS complete. |  |
| 3f                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Educational Information                    | Displayed posters & distributed brochures to public & developers. Earth Day Activities.           |  |
| 3g                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Allowable Non-Stormwater Discharges        | Will continue to search for non-stormwater discharges that may be significant polluters.          |  |
| 3h                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Town Bylaw - Illegal Disposal              | Town By-law includes illegal disposal law and fines. Will continue to update regs as necessary    |  |
| 3i                                             |                 |           |         |              |                 |           |         |              |                   |           |         |              |                  |           |         |              |                  |           |         |              |                            |                            |                            |                            |                             |                             |                             | Water Sampling                             | Town continues sampling to monitor water quality improvements and to use for stormwater grants.   |  |

Note: Many of the BMP's above will continue beyond the initial 5-year permit period.  
= Goals completed in the season & year shown above. Words in Red = goals not accomplished under the five year permit.



Massachusetts Department of Environmental Protection

Bureau of Resource Protection - Watershed Management

**BRP WM 08A** NPDES Stormwater General Permit Notice of Intent

for Discharges from Small Municipal Separate Stormwater Sewer Systems (MS4's)

F. Storm Water Management Program TIME FRAMES

Transmittal Number: W035665

Facility ID (if known): \_\_\_\_\_

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| BMP ID #                                                              | PERMIT YEAR ONE | PERMIT YEAR TWO | PERMIT YEAR THREE | PERMIT YEAR FOUR | PERMIT YEAR FIVE | PERMIT YEAR 6 ACHIEVEMENTS | PERMIT YEAR 7 ACHIEVEMENTS | PERMIT YEAR 8 ACHIEVEMENTS | PERMIT YEAR 9 ACHIEVEMENTS | PERMIT YEAR 10 ACHIEVEMENTS | PERMIT YEAR 11 ACHIEVEMENTS | PERMIT YEAR 12 ACHIEVEMENTS | STATUS    |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   |                                                                                               |                                                                                              |  |
|-----------------------------------------------------------------------|-----------------|-----------------|-------------------|------------------|------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------|-----------|---------|--------------|-----------|-----------|---------|--------------|--|--|-------|----------|-----------------------------------------|---------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--|
|                                                                       | Spring 03       | Summer 03       | Fall 03           | Winter 03-04     | Spring 04        | Summer 04                  | Fall 04                    | Winter 04-05               | Spring 05                  | Summer 05                   | Fall 05                     | Winter 05-06                | Spring 06 | Summer 06 | Fall 06 | Winter 06-07 | Spring 07 | Summer 07 | Fall 07 | Winter 07-08 |  |  | Goals | Comments |                                         |                                                                                                   |                                                                                               |                                                                                              |  |
| 5.4: Const. Stormwater Runoff Control                                 |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   |                                                                                               |                                                                                              |  |
| 4a                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Town Bylaw - Driveway Regulation        | Continue to enforce driveway regulations to minimize stormwater impacts.                          |                                                                                               |                                                                                              |  |
| 4b                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Existing Laws & Regulations             | Continue to enforce stormwater and erosion regulations and will evaluate need for updates.        |                                                                                               |                                                                                              |  |
| 4c                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Educational Info & Public Participation | Distributed & displayed educational information. Earth Day Activities. Water & Sewer article.     |                                                                                               |                                                                                              |  |
| 4d                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Development Review                      | Continue to enforce stormwater and erosion regulations during development review.                 |                                                                                               |                                                                                              |  |
| 4e                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Consideration of Public Information     | Public notifies DPW of drainage issues via GIS. Town will solicit input on SMP and from web site. |                                                                                               |                                                                                              |  |
| 4f                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Site Inspections                        | Town officials continue to inspect & enforce regulations related to stormwater & erosion control. |                                                                                               |                                                                                              |  |
| 4g                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Recommended BMP's                       | Required BMP's thru development review. Town will complete BMP List for developers..              |                                                                                               |                                                                                              |  |
| 4h                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Zoning Bylaw - Erosion Control          | Erosion control law in place and being enforced by site visits. Update as necessary.              |                                                                                               |                                                                                              |  |
| 4i                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Erosion Control Guidelines              | Will include with recommended BMP List for distribution. Old version is being updated.            |                                                                                               |                                                                                              |  |
| 4j                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Subdivision Rules & Regulations         | Made changes to stormwater regs in the Subdivision Rules & Regulations. Update as necessary.      |                                                                                               |                                                                                              |  |
| 4k                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Water Sampling                          | Health Department/County sample water quality annually. DPW sampled Mill Creek for 319 Grant.     |                                                                                               |                                                                                              |  |
| 4l                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          | Stormwater Posters                      | Displayed 4 Stormwater posters in Town buildings.                                                 |                                                                                               |                                                                                              |  |
| 5.5: Post-Construction Stormwater Management                          |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   |                                                                                               |                                                                                              |  |
| 5a                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Growth Incentive Zones - Stormwater Plans                                                         | Working with CCC on Growth Centers and Local Comprehensive Plan to address these issues.      |                                                                                              |  |
| 5b                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Existing Laws and Regulations                                                                     | Continue to enforce stormwater and erosion regulations and will evaluate need for updates.    |                                                                                              |  |
| 5c                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Educational Info & Public Participation                                                           | Distributed & displayed educational information. Earth Day Activities. Water & Sewer article. |                                                                                              |  |
| 5d                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Development Review                                                                                | Continue to enforce stormwater and erosion regulations during development review.             |                                                                                              |  |
| 5e                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Catch Basin Cleaning                                                                              | Continue to clean & monitor CB conditions. Will include Maintenance Plan on GIS.              |                                                                                              |  |
| 5f                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Recommended BMP's                                                                                 | Required BMP's thru development review. Town will complete BMP List for developers.           |                                                                                              |  |
| 5g                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Zoning Bylaw - Erosion Control                                                                    | Erosion control law in place and being enforced by site visits. Will update w/ BMP focus      |                                                                                              |  |
| 5h                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Erosion Control Guidelines                                                                        | Will include with recommended BMP List for distribution. Old version is being updated.        |                                                                                              |  |
| 5i                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Subdivision Rules & Regulations                                                                   | Made changes to stormwater regs in the Subdivision Rules & Regulations. Update as necessary.  |                                                                                              |  |
| 5j                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Water Sampling                                                                                    | Health Department and County continue to sample water quality and report to DPW.              |                                                                                              |  |
| 5k                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         | Stormwater Posters                                                                                | Displayed 4 Stormwater posters in Town buildings.                                             |                                                                                              |  |
|                                                                       |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | Taught class, interacted w/ students on projects & involved them with data collection.        |                                                                                              |  |
| 5.6: Pollution Prevention & Good Housekeeping in Municipal Operations |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   |                                                                                               |                                                                                              |  |
| 6a                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | Stormwater Mitigation w/ BMP's                                                                | Cont'd using Town funds/grants to mitigate stormwater. Completed construction of 319 Grant   |  |
| 6b                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | Pollution Control & Mitigation Measures                                                       | Installed fuel spill cleanup kit. Will continue pollution control at DPW and Town buildings. |  |
| 6c                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | BMP Projects on Town-Owned Land                                                               | Will continue to implement BMP's at townwide projects.                                       |  |
| 6d                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | DPW: On-Site Stormwater Containment                                                           | DPW inspects Transfer Station drainage facilities quarterly and entire site annually.        |  |
| 6e                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | DPW Environmental Audit - EPA Program                                                         | Constructed Salt Shed and Interior washing area in DPW Garage.                               |  |
| 6f                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | DPW Maintenance Program                                                                       | DPW uses GIS to assist w/ catch basin maintenance records                                    |  |
| 6g                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | DPW Training                                                                                  | Employees are trained about stormwater impacts. DPW attends stormwater seminars              |  |
| 6h                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | Tree Planting Program                                                                         | Town has completed a Tree Inventory and Management Plan for Sandwich Village.                |  |
| 6i                                                                    |                 |                 |                   |                  |                  |                            |                            |                            |                            |                             |                             |                             |           |           |         |              |           |           |         |              |  |  |       |          |                                         |                                                                                                   | DPW Brochures                                                                                 | DEP and other agency brochures/FAQ are made available to employees/public. On web.           |  |

Note: Many of the BMP's above will continue beyond the initial 5-year permit period.

= Goals completed in the season & year shown above. Words in Red = goals not accomplished under the five year permit.



Massachusetts Department of Environmental Protection  
Bureau of Resource Protection - Watershed Management  
**BRP WM 08A NPDES Stormwater General Permit Notice of Intent**  
for Discharges from Small Municipal Separate Stormwater Sewer Systems (MS4's)  
F. Storm Water Management Program TIME FRAMES

Transmittal Number: W035665

Facility ID (if known): \_\_\_\_\_

Page: 3 of 3[illegible]

Note: Many of the BMP's above will continue beyond the initial 5-year permit period.

# **APPENDIX**

## **YEAR 12 UPDATE**

- School Presentation Materials
- Sandwich Public Library Bioretention Construction Plan
- Cape Cod Cooperative Extension Hazardous Waste Disposal Campaign
- Household Hazardous Waste 2015 Collection Brochure
- Hazardous Materials Program Flyers
- Town of Sandwich DPW Pay-As-You-Throw Brochure
- Sandwich DPW How to Recycle Flyer

**From:** [Tilton, Paul](#)  
**To:** [Jensen, Samuel](#)  
**Subject:** Oak Ridge 3R Presentation  
**Date:** Wednesday, June 25, 2014 11:41:58 AM  
**Attachments:** [Oak Ridge Recycling Bin.pdf](#)

---

Sam,

On Friday, June 25, 2014, the Sandwich DPW presented the 3 R's (Reduce, Reuse and Recycle) to 100 5<sup>th</sup> grade students at the Oak Ridge School. The presentation included a discussion of the environmental benefits of the 3 R's. The students were awarded a certificate for their recycling efforts at school and were further encouraged to recycle at home with the incentive of a free recycling bin (see attached).

Paul S. Tilton, PE  
DPW Director/Town Engineer  
Sandwich Department of Public Works  
500 Route 130  
Sandwich, MA 02563

[ptilton@townofsandwich.net](mailto:ptilton@townofsandwich.net)  
Office: 508-833-8002  
Cell: 774-313-8624  
Fax: 508-833-8011

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



500 ROUTE 130, SANDWICH, MA 02563

DIRECTOR & TOWN ENGINEER 508.833.8002 • FAX 508.833.8011  
ASSISTANT TOWN ENGINEER 508.833.8000 • FAX 508.833.8005  
TREE WARDEN 508.833.8003 • FAX 508.833.8011  
EMAIL: dpw@townofsandwich.net

**Dear Oak Ridge School Recycler,**

Thank you for recycling at the Oak Ridge School. Your commitment to recycling not only helps the environment but also saves money for the Town of Sandwich.

By signing your name below, you are committing to recycle at home as well.

---

Print Name

---

Sign Name

To assist you with your recycling efforts at home, the Sandwich Department of Public Works is offering you one (1) free recycling bin. Please bring this form with you to the following address to pick up your recycling bin:

Sandwich DPW

500 Route 130 (go to DPW office in green building – not the Transfer Station)

Sandwich, MA 02563

Thank you,

Sandwich DPW



**From:** [Tilton, Paul](#)  
**To:** [Jensen, Samuel](#)  
**Subject:** FW: thank you  
**Date:** Wednesday, June 25, 2014 12:20:29 PM  
**Attachments:** [recycle pres 1 6- 14.jpg](#)  
[recycle pres 2 6- 14.jpg](#)

---

FYI....

-----Original Message-----

From: akelly@sandwich.k12.ma.us [<mailto:akelly@sandwich.k12.ma.us>]  
Sent: Monday, June 23, 2014 10:15 AM  
To: Tilton, Paul; phurley@sandwich.k12.ma.us  
Cc: rcatten-shaffer@sandwich.k12.ma.us; cschofield@sandwich.k12.ma.us  
Subject: thank you

Thank you, Paul. The students and teachers learned so much and....our principal, Patrice Hurley, would like you to present to our whole school sometime next year and...the 5th grade teachers are asking if you would be willing to give them a presentation about composting early next fall. It turns out that composting is in the new science standards for 5th grade. All this must mean you were an effective speaker. Please don't think of this as "a can of worms" (referencing your jar of worms for composting). Think of this as a way of educating our future leaders. thanks again, Ann

-----  
Please be advised that the Attorney General has ruled that communication via electronic mail in the public domain is not confidential and is considered a matter of public record.

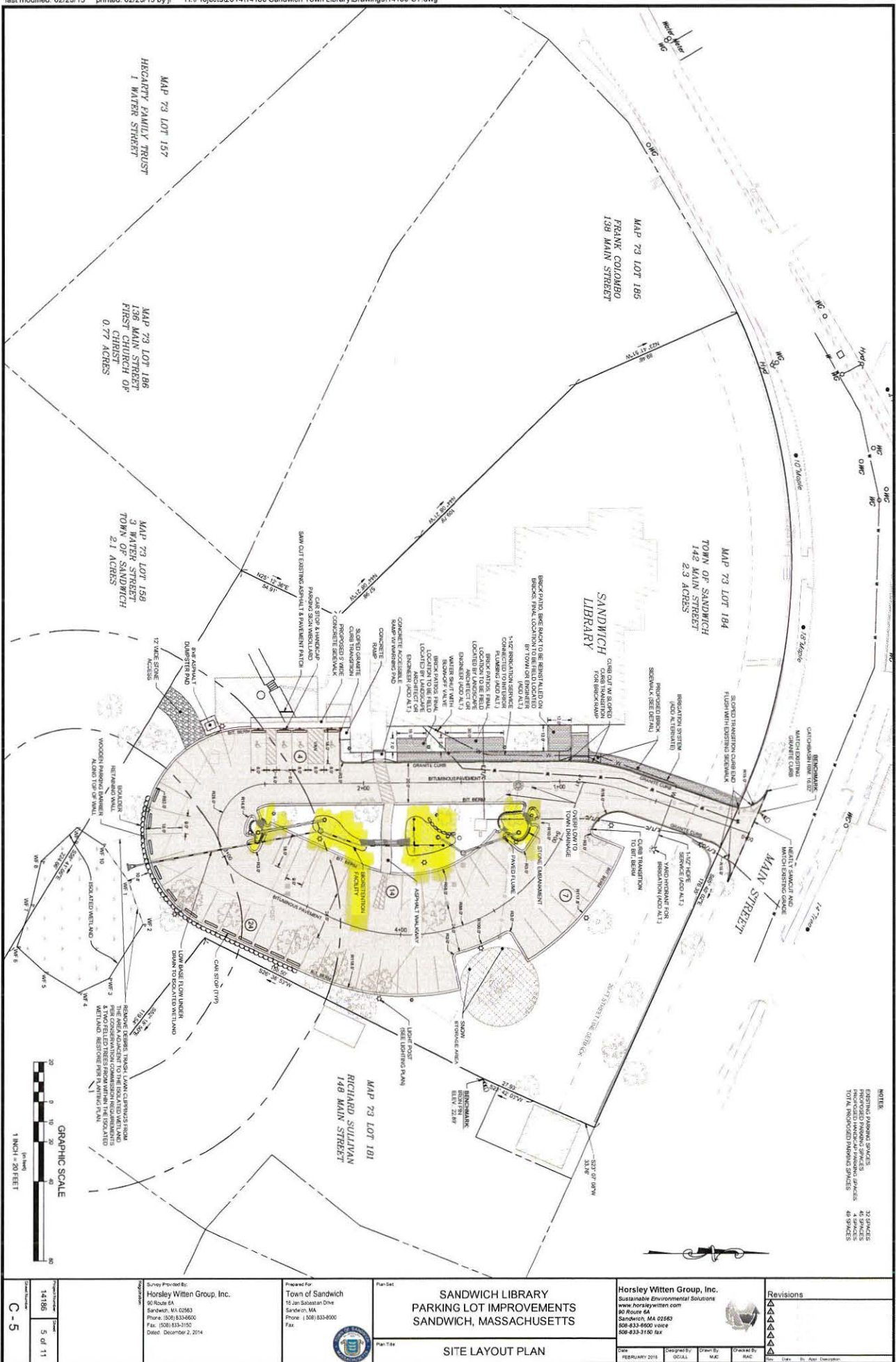
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This email has been scanned by the Symantec Email Security.cloud service.  
For more information please visit <http://www.symanteccloud.com>

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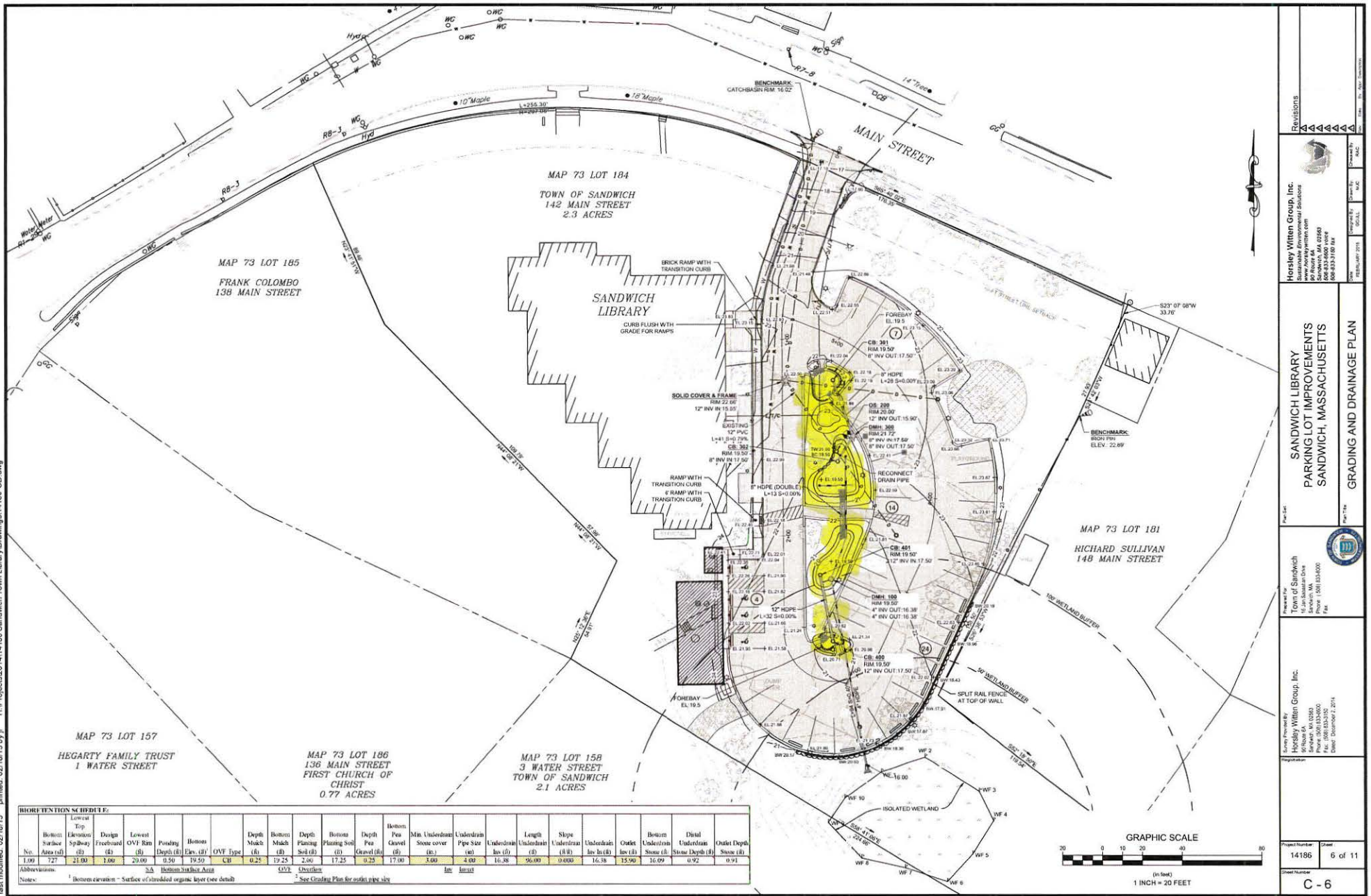






|       |         |     |                                                                                     |                                                                                                                                           |                                                                  |                                                                         |                                                                                       |                     |
|-------|---------|-----|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------|
| 14186 | 5 of 11 | C-5 |  | Survey Provided By:                                                                                                                       | Town of Sandwich                                                 | Plan Set:                                                               |  | Revisions           |
|       |         |     |                                                                                     | Horsley Witten Group, Inc.<br>90 Route 1A<br>Sandwich, MA 02563<br>Phone: (508) 833-4600<br>Fax: (508) 833-3150<br>Date: December 2, 2014 | 141 Main Street<br>Sandwich, MA<br>Phone: (508) 833-4000<br>Fax: | SANDWICH LIBRARY<br>PARKING LOT IMPROVEMENTS<br>SANDWICH, MASSACHUSETTS |                                                                                       |                     |
|       |         |     |                                                                                     | Prepared For:                                                                                                                             |                                                                  | Plan Title:                                                             | DATE: FEBRUARY 2016                                                                   |                     |
|       |         |     |                                                                                     |                                                                                                                                           |                                                                  |                                                                         | DESIGNED BY: GJAL                                                                     | CREATED BY: MAC     |
|       |         |     |                                                                                     |                                                                                                                                           |                                                                  |                                                                         | CHANGED BY: RAC                                                                       | DATE: 30 April 2016 |

last modified: 02/18/15 printed: 02/18/15 by: jf H:\Projects\2014\14186 Sandwich Town Library\Drawings\14186-SD.dwg



Revisions

| No. | Description       | By | Date     |
|-----|-------------------|----|----------|
| 1   | ISSUED FOR PERMIT | JF | 02/18/15 |

Project Information

**SANDWICH LIBRARY**  
PARKING LOT IMPROVEMENTS  
SANDWICH, MASSACHUSETTS

Project Number: 14186  
Sheet: 6 of 11

Client Information

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
400 Washington Street  
Sandwich, MA 02563  
Phone: 508.533.6000  
Fax: 508.533.7100

Permit Information

Permitted For: Town of Sandwich  
Project: Sandwich Library  
Project Number: 14186  
Project Location: Sandwich, MA  
Project Date: December 2, 2014

Scale

1 INCH = 20 FEET





## CAPE COD COOPERATIVE EXTENSION

Deeds and Probate Building  
3195 Main Street · PO Box 367  
Barnstable, MA 02630-0367  
(508) 375-6690 tel · (508) 362-4518 fax  
[www.capecodextension.org](http://www.capecodextension.org)

FOR IMMEDIATE RELEASE

Date: March 16, 2014

Contact: Michael Maguire

Extension Educator

(508) 375-6699

[mmaguire@barnstablecounty.org](mailto:mmaguire@barnstablecounty.org)

### **Love Your Local Water: Cape Cod Cooperative Extension Unveils Hazardous Waste Disposal Campaign**

*Barnstable, MA-* Barnstable County's Cape Cod Cooperative Extension, the arm of county government responsible for outreach and programs related to hazardous waste and water quality on the Cape, today unveils the rebranding of its hallmark Household Hazardous Waste Collections program. The new branding campaign is focused on bringing renewed awareness to the variety of public services and initiatives focused on diverting household hazardous waste from entering Cape Cod's waters. Protecting the Cape's groundwater is critically important because it is the Cape's only source of drinking water.

With the Extension's Hazardous Waste & Water Quality Department entering its third decade collaborating with Cape Cod towns to provide free household hazardous collections throughout the County, the Extension's Deputy Director Mike Maguire recognizes it is vital to shine a new light on the success of the current collections program as well as communicate the Department's full range of hazardous collection capabilities in order to address the County's evolving needs in waste management.

Mike Maguire states, "As we continue to safeguard and protect Cape Cod's natural resources, the rebrand and enhanced communications will showcase our commitment to preserving our waters, in particular our drinking water, with convenient, effective, and measurable public programs".

**The rebrand efforts, including an updated logo and marketing materials, reflects the current success and broadened scope of the Extension's Hazardous Waste & Water Quality Department's capabilities in assisting County residents and businesses in identifying and disposing of household waste that is too toxic to put in the trash.** Safe disposal of other products such as unwanted medications, mercury products, marine flares, and needles/syringes (sharps) will also be highlighted. The ultimate goal of these programs is to prevent hazardous products from contaminating our ponds, lakes, rivers, streams, marshes, beaches, and drinking water.

With the tagline, "Love Your Local Water. It's A Cape Cod Thing." and a communication campaign showcasing simple tips on properly disposing of everyday household hazardous products that are too toxic to put in the trash, the Extension will show citizens how simple behaviors make a real difference in preventing pollutants from entering Cape Cod waters.

-More-

"I regularly talk to residents, visitors, and business owners who all take great pride in our beautiful waters and understand how fragile the environment is here. If you live on the Cape or just come to visit, you understand how valuable having clean water is here. We don't need to tell people to save our waters; we need to show them how to save our waters, through practical steps that anyone can take in their day-to-day lives. This empowering, colorful, and fresh campaign will identify how Cape Codders love to protect our local waters by following simple tips with clear benefits".

The new communication materials and updated Household Hazardous Waste Collections schedule will be rolled out in the coming months.

###

SAVE  
THE  
DATE

## 2015 SCHEDULE

BOURNE, SANDWICH, FALMOUTH,  
MASHPEE, AIR STATION CAPE COD

April  
18

9am to 1pm  
Sandwich High School  
365 Quaker Meetinghouse Rd.

June  
20

9am to 1pm  
Falmouth High School  
874 Gifford St., off Brick Kiln Rd.

August  
15

9am to 1pm  
Mashpee High School,  
500 Old Barnstable Rd., off Rt 151

Oct.  
17

9am to 1pm  
Peebles Elementary School  
70 Trowbridge Rd.,  
off Bourne Rotary

Questions?

Visit the Hazardous Materials Program at  
[www.capecodextension.org](http://www.capecodextension.org)

"Love your local water. It's a Cape Cod Thing." is  
a campaign of Cape Cod Cooperative Extension's  
Hazardous Waste & Water Quality Department.

LOVE YOUR LOCAL WATER.  
IT'S A CAPE COD THING.



Cape Cod Cooperative Extension  
P.O. Box 367  
Barnstable, MA 02630-0367  
[www.capecodextension.org](http://www.capecodextension.org)  
508-375-6699

# too TOXIC to TRASH



## HOUSEHOLD HAZARDOUS WASTE 2015 COLLECTION SCHEDULE

  
BOURNE, SANDWICH, FALMOUTH,  
MASHPEE, AIR STATION CAPE COD

**COVANTA**  
ENERGY  
for a cleaner world

HHW Collections are funded by  
the Towns of Bourne, Sandwich,  
Mashpee and Falmouth; Covanta  
SEMASS; and Barnstable County's  
Cape Cod Cooperative Extension.

ECRWSS  
POSTAL CUSTOMER

PSRST STD  
U.S. POSTAGE  
PAID  
LEOMINSTER, MA  
PERMIT NO. 17



LOVE YOUR LOCAL WATER.  
IT'S A CAPE COD THING.



# SIMPLE & FREE



LOVE YOUR LOCAL WATER.  
IT'S A CAPE COD THING.



PROTECT WHAT WE LOVE ABOUT THE CAPE.  
IT ALL STARTS WITH **YOU!**

Household hazardous waste (HHW) collections protect what we love about Cape Cod, especially our precious local drinking water. Most chemicals are too toxic to throw away in regular trash or dump down the drain, so FREE collections are being held to take that waste off your hands and keep it out of our water supply.

Are you a small business? Do you use chemicals? To make your state required disposal arrangements, contact Mike Maguire at #508-375-6699.

## BRING THESE ITEMS TO YOUR COLLECTION



### PAINTS, POLISHES & STAINS

Alkyd-Based Paint & Stain • Marine Paints & Sealers • Metal & Furniture Polish • Oil-Based Paint & Stain  
Paint Thinner & Remover • Solvent-Based Wood Finish • Wood Preservatives • Auto Paint (no latex)



### YARD CHEMICALS

Driveway Sealer with Solvent • Fertilizers with Weed Killer • Rodent Poison • Weed Killer  
Insecticides • Pesticides



### CLEANERS & CHEMICALS

Pool Cleaners & Chemicals Solvents • Photo & Hobby Chemicals • Oven Cleaner • Drain Cleaner  
Spot Remover • Acids • Degreasers • Disinfectants



### AUTO FLUIDS

Car Cleaner with Solvent • Brake & Power Steering Fluid • Bug & Tar Remover • Camp Fuel  
Radiator Flush • Car Polish • Gasoline

For items not listed here visit [www.capecodextension.org](http://www.capecodextension.org) for disposal instruction.

# WANTED! MERCURY

It is important to keep mercury out of our environment and water supply. To dispose of household mercury containing products, such as **thermometers, thermostats or barometers**, bring these items to your local HHW collection. If you come across larger amounts of mercury in your home please contact the Barnstable County Hazardous Waste team at #508-375-6699.



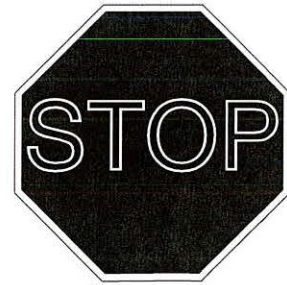
(508) 375-6699

## ***Disposing of Hazardous Paints, Stains and Wood Finishes***

### **How can I identify hazardous materials?**

#### **Look for these words on the label:**

- Clean up with paint thinner or mineral spirits.
- Combustible
- Oil
- Alkyd
- Alkyd Resin
- Petroleum Distillates
- Mineral Spirits
- Linseed Oil
- Hydrocarbons
- Solvent-based
- Lacquer
- Thinner
- Lead
- Chromium
- Two-part Paint
- Car or Boat Paint
- Swimming Pool Paint



### **How do I dispose of these materials?**

**Solid in can:** Throw away in household trash.

**Recycle:** Most towns accept *usable* oil and alkyd paints, stains and wood finishes from town residents at the Recycling Center from May through October. Good paint is available at no cost.

**Evaporate:** Small quantities—less than two inches in the bottom of a can—may be disposed of by allowing the liquid to evaporate. Move the container to a sheltered, outdoor area away from children and pets; remove the lid and allow liquid to dry. Once the liquid evaporates, recycle the *open* can or discard in the trash.

**Use Up Or Share:** Leftover paint can be used as a prime coat or to paint items where matching colors is not a concern. Or ask neighbors, friends, theater groups, recreation departments or service organizations if they can use your paint, stain or wood finishes.

**Full or partially full cans:** Take to household hazardous products collection.

**Recycle Empty Cans:** Leave the lid off the can to dry the remaining paint residue, then recycle the open can and lid with metal cans at your town's recycling center. Recycle empty aerosol cans at your town's recycling center.

6/05



Barnstable County

**HAZARDOUS MATERIALS PROGRAM**

In cooperation with the University of Massachusetts Extension

800-319-2783

508-375-6699

Cape Cod Cooperative Extension  
Deeds and Probate Building  
Barnstable, MA 02630-0367  
508-375-6690  
[www.capecodextension.org](http://www.capecodextension.org)

## ***Disposing of Non-hazardous Paints, Stains and Wood Finishes***

### **How can I identify non-hazardous materials?**

**Look for these words on the label:**

- Clean up with soap and water.
- Latex
- Water-based
- Ethylene Glycol
- Vinyl Emulsion
- Acrylic
- Acrylic Emulsion
- Glycol
- Poly Vinyl Alcohol



### **How do I dispose of these materials?**

**Absorb:** Large quantities of latex or acrylic paint, stains and wood finishes—more than two inches in the bottom of a can—may be absorbed with clay-based kitty litter. Pour kitty litter into a box or container, then pour the paint into the container and stir. Add kitty litter until you can't stir anymore. Put the *container with the absorbed paint* into your household trash. Recycle open, dry paint cans.

**Evaporate:** Small quantities—less than two inches in the bottom of a can—may be disposed of by allowing the liquid to evaporate. Move the container to a sheltered, outdoor area away from children and pets; remove the lid and allow liquid to dry. Once the liquid evaporates, recycle the *open* can or discard in the trash. Up to two inches in the bottom of an oil-based paint can may also be disposed of in this manner.

**Recycle Empty Cans:** Leave the lid off the can to dry the remaining paint residue, then recycle the open can and lid with metal cans at your town's recycling center. Recycle empty aerosol cans at your town's recycling center.

6/05



Barnstable County

**HAZARDOUS MATERIALS PROGRAM**

In cooperation with the University of Massachusetts Extension

**800-319-2783**

**508-375-6699**

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Barnstable, MA 02630-0367  
508-375-6690  
[www.capecodextension.org](http://www.capecodextension.org)

## Who wins with PAYT?

Everyone wins from the environmental and cost saving benefits. Residents who recycle to control their trash will have lower costs. PAYT is good public policy.

## What is Dual Stream Recycling?

Dual stream is a system in which recyclables are collected in two streams. One stream is fiber (paper, cardboard) and the other is standard recyclables (glass, plastic, cans). Using only two streams of recyclables reduces the need to separate all materials brought to the Transfer Station.



## Is there a limit to the amount of material I can recycle?

No. The Town encourages residents to recycle as much as they can. The more you recycle, the fewer bags you need to purchase and the more money you save. Consequently, the more residents recycle the less the Town of Sandwich pays to have their trash incinerated.

## What is recyclable in Sandwich?

Sandwich residents may recycle a lot more than many realize. Recycling facilities now accept more types of materials and can sort them more effectively.

## What types of material can be recycled?

- Newspaper and magazines with inserts
- Paperback books
- Office paper - staples, spirals, paper clips **do not** have to be removed.
- Colored paper
- Shredded paper in closed clear plastic or paper bags
- Junk mail, with windows
- Phone books
- Cereal boxes, paper towel tubes
- Pasta and cracker boxes
- Cardboard (unless it has food stains)
- Steel and tin cans
- Aluminum cans, pie plates, trays, foil
- Glass, containers
- All plastics marked #1-#7,



For further questions or information, please contact the Town of Sandwich DPW at 508-833-8002, or view the website at [Sandwichmass.org](http://Sandwichmass.org) – Public Works – Transfer Station – General Information



# SAVE MONEY & REDUCE TRASH

## NOW IS THE TIME FOR PAY-AS-YOU-THROW (PAYT) IN SANDWICH

Prepared by the Sandwich DPW with assistance from MassDEP



Printed on recycled paper

## What is Pay-As-You-Throw?

Pay-As-You-Throw (PAYT) is a system much like electricity, gas or telephone under which the user pays a basic amount that covers fixed costs and then a user fee for the amount used.

## How does PAYT work?

You buy blue, Town approved bags at stores where you usually shop. You put your trash in those bags and bring them to the Transfer Station to dispose of as you currently do with your trash.

## Why would PAYT be good for Sandwich?

It would be fairer. Right now, every household, regardless of size, pays the same fee. Under PAYT, people who generate less trash would pay less by using fewer bags. It would remind people to recycle more, lowering the amount of trash thrown away and reducing the Town's trash disposal costs.

## Why not continue to charge every household the same trash fee?

The present system is not fair. A lot of people, who are serious about recycling, are saying that they don't want to pay for the trash that other people throw away.

## Is PAYT easy and convenient?

Yes. Residents will be able to buy bags at local stores where they shop. It's just that the bags will be different. They will be blue with the town logo printed on them.

## What about large families?

If large families buy more than smaller families, they will have more to throw away and will have to buy more trash bags. The PAYT program will give them a chance and a new incentive to lower their costs by recycling everything they can. The present flat fee system doesn't offer any choice or incentive to recycle. In PAYT towns, residents have reduced their trash tonnage by 25%-40% by recycling more, composting more, donating more and buying more wisely.

## How will PAYT reduce Town Disposal Fees and User Costs?

Without PAYT, the annual cost of trash disposal per household will significantly increase. Currently, the solid waste budget is supplemented by the tax base. If you and most of the households in Sandwich actively recycle all you can, you will use less bags and the total cost of disposal will go down. We cannot control the cost of disposal per ton but, as a town, we can control the total tons that are sent to the incinerator, and that will lower our costs as a community.

## How does PAYT help the environment?

As residents recycle more, less trash would go to Semass/Covanta Energy for incineration. Incineration of plastics and other recyclable material, contributes to global warming by adding CO<sub>2</sub> to the atmosphere. By increasing recycling, we would save on raw materials, natural resources and energy consumption and reduce the amount of greenhouse gas.

## What will not change with the PAYT?

- Household Hazardous Waste Days
- Christmas Tree recycling
- Yard Waste Drop off
- Compost processing

## How much are PAYT bags and where can I buy them?

There are three sizes of bags available, a 30 gallon (barrel size) at a cost of \$1.20, a 15 gallon (kitchen size) at a cost of \$0.60 and 8 gallon (office size) at a cost of \$0.25 (all costs subject to change). Bags are available at the following locations in Sandwich. Additional retailers may be added at a later date.

- Anchor Ace Hardware (Cotuit Rd)
- Aubuchon Hardware (Cotuit Rd)
- Aubuchon Hardware (Merchants Square)
- Meetinghouse Liquors (Cotuit Rd)
- Merchant Square Liquors (Merchant Sq)
- Mobil - Forestdale (Rt 130)
- Rt 6A Convenience Store (E. Sandwich)
- Sandwich Car Wash (Rt 130)
- Sandwich Food Mart & Deli (corner of Rt 130 & Cotuit Rd)
- Sandwich Mart & Spirits (Rt 6A)
- Stop & Shop (Merchant Square)
- Stop & Shop (QMH Rd)
- Tedeschi Food Shops (Rt 6A)



# How to Recycle in Sandwich

|                           | MATERIAL                                                                                                | WHAT TO RECYCLE                                                                                                                                                                                                                                                                                                                         | HOW TO PREPARE                                                                                                                                             | DO NOT INCLUDE                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - COMMINGLED COMPACTORS - | <b>METAL</b><br>       | <ul style="list-style-type: none"> <li>Steel/tin and metal food cans</li> <li>Aluminum pie plates and trays</li> <li>Deposit and non-deposit beverage cans</li> </ul> <p><i>Deposit cans may also be donated at the Sandwich Little League shed</i></p> <p>Recycle <b><u>DO NOT INCLUDE</u></b> items in the light-iron pile</p>        | <ul style="list-style-type: none"> <li>Rinse clean</li> <li>Labels OK</li> </ul>                                                                           | <ul style="list-style-type: none"> <li>Aerosol cans</li> <li>Paint cans</li> <li>Coat hangers</li> <li>Cookware</li> </ul>                                                                                                                         |
|                           | <b>GLASS</b><br>       | <ul style="list-style-type: none"> <li>Clear and colored beverage containers</li> <li>Food and sauce jars</li> </ul> <p><i>Deposit bottles may also be donated at the Sandwich Little League shed</i></p>                                                                                                                               | <ul style="list-style-type: none"> <li>Rinse clean</li> <li>Collar, neck rings &amp; labels OK</li> <li>Caps &amp; lids OK</li> </ul>                      | <ul style="list-style-type: none"> <li>Broken glass/auto glass</li> <li>Mirrors</li> <li>Ceramics: plates, cookware</li> <li>Drinking glasses</li> <li>Light bulbs</li> <li>Windows</li> </ul>                                                     |
|                           | <b>PLASTIC</b><br>    | <ul style="list-style-type: none"> <li>All number 1 thru 7 recyclable rigid plastic containers</li> <li>Milk, water, soda, juice bottles</li> <li>Shampoo, conditioner bottles</li> <li>Laundry, bleach, fabric softener bottles</li> <li>Waxy gable cartons: Milk and Juice</li> </ul>                                                 | <ul style="list-style-type: none"> <li>Rinse clean, caps OK</li> </ul>  | <ul style="list-style-type: none"> <li>Plastic bags: recycled in waste receptacles located in front of each compactor</li> <li>Styrofoam packaging of ANY KIND</li> <li>Chemical and motor oil containers</li> <li>Water/Garden Hose</li> </ul>    |
| - FIBER COMPACTORS -      | <b>CARDBOARD</b><br> | <ul style="list-style-type: none"> <li>All cardboard must be recycled and will not be allowed in the trash-trailer except as noted in <b><u>DO NOT INCLUDE</u></b></li> </ul> <p><i>Complete list on back of brochure</i></p>                                                                                                           | <ul style="list-style-type: none"> <li>Break down, flatten or fold</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>Contaminated boxes</li> <li>Food soiled and frozen food boxes example: pizza and Chinese take out</li> </ul>                                                                                                |
|                           | <b>PAPER</b><br>     | <ul style="list-style-type: none"> <li>Newspapers</li> <li>Magazines, catalogs</li> <li>Junk mail, envelopes: tearable</li> <li>Books</li> <li>Paper bags</li> <li>Phone books</li> <li>Office and computer paper</li> <li>Boxboard: cereal, cracker - remove plastic liners</li> </ul> <p><i>Complete list on back of brochure</i></p> | <ul style="list-style-type: none"> <li>Place in paper grocery bags</li> </ul>                                                                              | <ul style="list-style-type: none"> <li>Food soiled as noted above</li> <li>Paper towels</li> <li>Tissues</li> <li>Diapers</li> <li>Boxboard plastic liners: recycled in waste receptacles located in front of each recycling compactor.</li> </ul> |

Paper (Fiber) is recycled in first or second designated compactor from left to right. Commingled metal, glass and plastic is recycled in third or fourth designated compactors from left to right. Only one Fiber and one Commingled compactor is open at a time. Limited recycling and Transfer station stickers may be obtained at the Town Hall Annex, 145 Main Street, across from the Sandwich Library. If unsure where a specific item should be recycled, please ask an attendant.

# How to Recycle Fiber (Paper) in Sandwich

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## WHAT FIBER TO RECYCLE

Booklets  
Books: soft cover  
Boxes: for office supplies, like paper clips  
Boxes: cereal, cracker, pasta, shoe, etc  
Boxes: with plastic window  
Brochures: including glossy  
Calendars: wall type  
Cardboard: corrugated and paperboard  
Catalogs  
Clasp envelopes  
Colored paper  
Construction and kraft paper  
Cover and card stock, index cards  
Envelopes: with plastic windows or labels  
File folders  
Flyers  
Glossy paper  
Greeting cards  
Lottery tickets  
Mail  
Magazines  
Mat board: used in picture framing  
Math paper: graph and ledger, etc.  
Newspapers: with or without inserts  
Newsprint  
Office and copy paper  
Packing paper  
Paper: lined and white  
Paper: fax  
Paper bags: brown and white  
Paper bags: with handles  
Paper towel and toilet paper tubes  
Phone books  
Photocopies  
Post-it notes  
Receipts  
Shredded paper: in paper bags  
Spiral notebooks  
Writing tablets

## DO NOT INCLUDE

Candy wrappers  
Carbon paper  
Disposable diapers  
Envelopes with bubble wrap  
Food-soiled paper and cardboard  
Label backings  
Paper cups or plates  
Paper towels, napkins, tissues  
Photographs  
Take-out food containers: Chinese, etc.  
Tyvek® mailing envelopes  
Waxed paper and cardboard  
Waxy gable cartons: Milk and Orange Juice

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Metal spiral notebooks, paper clips, plastic envelope windows, self-stick labels and staples are allowed to be recycled with the items listed above

Items containing personal information should be shredded and recycled in paper bags

# REDUCE, REUSE & RECYCLE



## TOWN OF SANDWICH DEPARTMENT OF PUBLIC WORKS

In an effort to encourage the 3 R's (Reduce, Reuse and Recycle) and minimize solid waste, below is a list of web sites from organizations providing opportunities for residents to donate and/or find free, usable items. Some charities will pick up items at homes and certain donations may be tax deductible.

