



April 28, 2016

Glenda Velez - CIP  
U.S. Environmental Protection Agency - Region 1  
5 Post Office Square – OEP06-01  
Boston, MA 02109-3912

Fred Civian  
Massachusetts Department of Environmental Protection  
One Winter Street - 5th Floor  
Boston, MA 02108

**Subject: Annual Update - NPDES Phase II General Permit  
Town of Sandwich Stormwater Management Plan: Year 13 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 this 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 13 accomplishments are listed below and shown in the attached tables.

**Year 13 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 13-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 13 implementation.

**Significant Accomplishments (Spring 2015 - Winter 2016)**

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

Stormwater Mapping

In anticipation of new requirements expected to be part of the NPDES Stormwater General Permit reissuance, the Town's Engineering Department has continued 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. Construction was completed and the BMPs are now actively treating runoff.

#### 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>.

#### 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, Popponeset Bay State DEP Pilot Intra-municipal Work Group and 3 Bays Initiative.

#### **Status of Goals for Year 13**

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 13 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 13 goals listed in the table.

#### **Overall Status of 13-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 list of BMP's.

##### 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.

##### *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**

The Town is reviewing the recently issued 2016 MS4 permit. The Town's SMP will be updated as necessary to comply with the new permit requirements.

**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. Jensen, P.E.  
Assistant Town Engineer

Encl.

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	PERMIT YEAR 13 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
<b>5.1: Public Education &amp; Outreach</b>																														
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
<b>5.2: Public Involvement &amp; Participation</b>																														
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
<b>5.3: Illicit Discharge Detection &amp; Elimination</b>																														
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.



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	PERMIT YEAR 13 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 05	Summer 05	Fall 05	Winter 05-06	Spring 07	Summer 07	Fall 07	Winter 07-08									Goals	Comments		
<b>5.4: Const. Stormwater Runoff Control</b>																																
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.
<b>5.5: Post-Construction Stormwater Management</b>																																
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.
<b>5.6: Pollution Prevention &amp; Good Housekeeping in Municipal Operations</b>																																
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.



# **APPENDIX**

## **YEAR 13 UPDATE**

- Drainage Catchment Area Mapping
- Sandwich Public Library Bioretention Construction Plan and Photos
- Household Hazardous Waste 2016 Collection Brochure
- Hazardous Materials Program Flyers
- Town of Sandwich DPW Pay-As-You-Throw Brochure
- Sandwich DPW How to Recycle Flyer



TOWN OF SANDWICH  
ENGINEERING DEPT.

Drain Mapping  
Catchment Areas











10/23/2015



10/23/2015

UPPER  
CAPE 2016 SCHEDULE

April  
16

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

June  
18

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

August  
20

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

Oct.  
15

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.

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



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

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

\*\*\*\*\*ECRWSS\*\*\*\*  
LOCAL  
POSTAL CUSTOMER

HHW Collections are funded by the Towns of Bourne, Sandwich, Mashpee and Falmouth, and Barnstable County's Cape Cod Cooperative Extension. Photos by Christopher Harding Photography.

too  
**TOXIC** to  
**TRASH**



HOUSEHOLD HAZARDOUS WASTE  
2016 COLLECTION SCHEDULE

**BOURNE, SANDWICH, FALMOUTH,  
MASHPEE, JOINT BASE CAPE COD**

\*Small Business disposal accepted. See inside panel for info



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 and obtain pricing, contact Kalliope Egloff #508-375-6699.



## BRING THESE ITEMS TO YOUR COLLECTION



### PAINTS, POLISHES & STAINS **\*NO LATEX\***

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



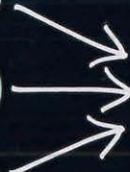
### AUTO FLUIDS

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.



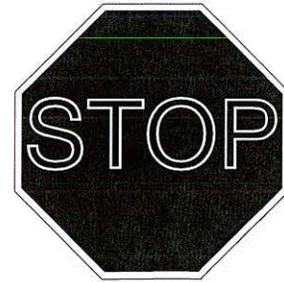
(508) 375-6699

## ***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**

Cape Cod Cooperative Extension  
Deeds and Probate Building  
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 CO2 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

- COMMINGLED COMPACTORS -

**MATERIAL**    **WHAT TO RECYCLE**    **HOW TO PREPARE**    **DO NOT INCLUDE**

**METAL**



- Steel/tin and metal food cans
- Aluminum pie plates and trays
- Deposit and non-deposit beverage cans

*Deposit cans may also be donated at the Sandwich Little League shed*  
 Recycle **DO NOT INCLUDE** items in the light-iron pile

- Rinse clean
- Labels OK

- Aerosol cans
- Paint cans
- Coat hangers
- Cookware

**GLASS**



- Clear and colored beverage containers
- Food and sauce jars

*Deposit bottles may also be donated at the Sandwich Little League shed*

- Rinse clean
- Collar, neck rings & labels OK
- Caps & lids OK

- Broken glass/auto glass
- Mirrors
- Ceramics: plates, cookware
- Drinking glasses
- Light bulbs
- Windows

**PLASTIC**



- All number 1 thru 7 recyclable rigid plastic containers
- Milk, water, soda, juice bottles
- Shampoo, conditioner bottles
- Laundry, bleach, fabric softener bottles
- Waxy gable cartons: Milk and Juice

- Rinse clean, caps OK



- Plastic bags: recycled in waste receptacles located in front of each compactor
- Styrofoam packaging of ANY KIND
- Chemical and motor oil containers
- Water/Garden Hose

- FIBER COMPACTORS -

**CARDBOARD**



- All cardboard must be recycled and will not be allowed in the trash-trailer except as noted in **DO NOT INCLUDE**

*Complete list on back of brochure*

- Break down, flatten or fold

- Contaminated boxes
- Food soiled and frozen food boxes example: pizza and Chinese take out

**PAPER**



- Newspapers
- Magazines, catalogs
- Junk mail, envelopes: tearable
- Books
- Paper bags
- Phone books
- Office and computer paper
- Boxboard: cereal, cracker - remove plastic liners

*Complete list on back of brochure*

- Place in paper grocery bags

- Food soiled as noted above
- Paper towels
- Tissues
- Diapers
- Boxboard plastic liners: recycled in waste receptacles located in front of each recycling compactor.

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.

