

# **Town of Oxford**

## **GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)**

# **2015**

## **Annual Report**

### **Permit No. GSM000008**

**December 15, 2015**  
**NYE PROJECT # 2009-005**



**NAFIS & YOUNG**

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## **Introduction**

The Town of Oxford submits the following 2015 Annual Report updating the status and compliance with the Town's Stormwater Management Plan. This report meets the State of Connecticut Department of Energy & Environmental Protection (CTDEEP) requirements as outlined in the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4), section (i) Reporting and Record Keeping Requirements.

Any individuals that wish to comment on this annual report or the Town of Oxford's Stormwater Management Plan may contact Mr. Lawrence Secor at Nafis & Young Engineers, Inc at (203) 484-2148 or by email at [larry.secor@nafisandyoung.com](mailto:larry.secor@nafisandyoung.com).

## TABLE OF CONTENTS

Introduction.....	i
1.0 History .....	1
2.0 Compliance .....	2
Section 1: Public Education and Outreach .....	2
Section 3: Illicit Discharge Detection and Elimination .....	5
Section 4: Construction Site Stormwater Runoff Control .....	6
Section 5: Post Construction Site Runoff Control .....	9
Section 6: Pollution Prevention / Good Housekeeping .....	9
3.0 Monitoring Data.....	10
4.0 Summary of Planned Stormwater Activities During the Next Reporting Cycle ...	10
5.0 Changes In Any Identified Measurable Goals or Implementation Dates .....	11

## APPENDICES

Appendix I: STORMWATER MONITORING REPORTS

Appendix II: STORMWATER BMPS, OUTREACH EXAMPLES and REPORTS

## 1.0 History

The Town of Oxford began working on a stormwater plan during the winter of 2002/2003 to meet a projected implementation date of April 2003. The Town worked with Nafis & Young Engineers, Inc. (NYE) in developing and writing this plan. The Town completed a draft plan after receiving a final copy of the CTDEEP general permit requirements on January 9, 2004. The "State of Connecticut Department of Transportation Draft Stormwater Management Plan" was used as an outline for the Town's plan.

In 2004 the written plan was then given to the appropriate personnel within the Town of Oxford's Conservation Commission/ Inland Wetlands Agency, Planning & Zoning Commission and Public Works, the town posted a legal notice in both the Town Hall and the Public Library to inform the public that a copy of the plan was available in the Town Library for review by residents. The town did not receive any comments from the public.

In early 2005 the final draft of the plan was completed and is now available at the both the Town Hall and Public Library. In 2005 the Council of Governments of the Central Naugatuck Valley (COGNAV) arranged with TeleMedia Cable to air an EPA video on local public access television entitled "*After the Rain*" on two nights in December. A brochure created in conjunction with the Oxford Conservation Commission/Inland Wetlands Agency that details the importance of storm water quality and the impact on the environment was distributed at the Town Hall and the Town Library. The Town also posted a poster in the Public Works garage and Town Hall to promote public awareness best management practices of storm water management during construction.

NYE has conducted eleven (11) annual stormwater sampling events starting in the summer of 2004. Samples of six representative outfalls, two industrial, two commercial and two residential were taken on July 23, 2004, June 28, 2005, August 15, 2006, May 16, 2007, April 28, 2008, September 11, 2009, November 04, 2010, May 04, 2011, July 18, 2012, August 13, 2013 and June 19, 2014. No monitoring was performed to date in 2015 but the next compliant rainfall event will be collected as weather permits.

The Town purchased a handheld GPS/PDA system for mapping its stormwater outfalls and the required software to manage the collected data. This equipment and software was partially funded through a CTDEEP grant with the COGNAV. The Town Engineer's department is currently mapping the town outfalls and will turn over to the GPS/PDA and software to the Town's Public Works Department for future use and maintenance in the near future. A map of the town's outfalls (mapped to date) is posted in the Conservation Commission/Inland Wetlands Agency Office.

The Town's Inland Wetland Secretary initiated the storm drain-marking program with the initial labels being provided by the CTDEEP Office of Long Island Sound Programs. The town intends to move forward with volunteers assisting in labeling all the remaining catch basins. Two articles appeared in the local Waterbury Republican American Newspaper (November 16, 2006) and the Voices Newspaper (November 22, 2006)

discussing this storm drain-marking program. Approximately 20% of the Town's catch basins have been marked.

The Town is actively involved in the CTDEEP Aquifer Protection Area (APA) program. In 2009 the Town adopted its APA regulations and in 2010 updated the regulations.

In 2011, the Town re-registered the Public Works Garage and Transfer Station for the revised CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity. The Town has since performed the required stormwater outfall sampling in the most recent permit cycle October 1, 2011 through September 30, 2016. According to the laboratory analysis results for four consecutive biannual outfall samples all the General Permit benchmarks were achieved for all of the test parameters in 2013. The sampling is now complete until the next cycle starts on October 1, 2016.

The Town of Oxford participated in the "Household Hazardous Waste Collection Central Naugatuck Valley Planning Region" three collections April 25, 2015, July 25, 2015 and October 3, 2015. Two Hundred Twenty Five (225) Oxford households participated in these collections that disposed of 1,890 gallons of household hazardous wastes and paints. This was approximately a 72% increase over the Oxford household amounts disposed of in 2014.

From July 1, 2014 through June 30, 2015 the Town of Oxford recycled approximately 125 tons of scrap metal, 342 tons of commingled wastes (bottles/cans/paper), 5,194 gallons of waste oil, 240 tons of tires and 78,965 tons of electronics in 2014-2015.

At this time, the town is awaiting any comments from the DEP concerning the Town's Draft Stormwater Management Plan. This annual report is based upon the draft plan comments by the DEP will be reflected in subsequent annual reports.

## **2.0 Compliance**

Many of the Town's goals for the ninth year of this permit were to continue to build a foundation for further implementation of the Stormwater Management Plan. The Town's commission's such as Planning and Zoning and Inland Wetland enforcement inspections is already following many procedures. Construction plan reviews have included reviewing stormwater management and erosion controls and the town will continue these procedures while looking at ways to improve their effectiveness. A large share of the effort was directed towards the education of Town officials and employees with regards to their role within the General Permit. The Best Management Practices (BMPs) chosen by the Town are addressed below:

### **Section 1: Public Education and Outreach**

#### **1. Brochures / Fact Sheets**

**Goal:** Display and Distribute Brochures

The finished brochure was distributed at a Conservation Commission /Inland Wetlands Agency meeting in early 2005. It was approved for publication and was distributed at the Town Hall and the Library. It continues to be available to the public.

## 2. Alternative Information Sources

**Goal:** Develop web site, display poster for Town, and Public Service Announcement (PSA) for local television

The web site is active and information is posted. The poster has been displayed at the Town Hall and the Public Works Garage. In December of 2005, the local cable company aired an EPA video entitled *After the Rain* on two nights.

In 2011 two USEPA brochures were included in the report's appendices "Make your home The Solution to Stormwater Pollution!, A Homeowners Guide to Healthy Habits for Clean Water" and "After the Storm, A Citizen's Guide to Understanding Stormwater". These were posted on the Town's website as included in the 2011 Annual report.

## 3. Library of Educational Materials

**Goal:** Make information available to town employees and the community

A library of educational materials is being developed and maintained at the CTDOT headquarters. As these materials are made available to the various towns in the state, materials will be procured for the various town departments as a reference for stormwater management issues.

Information on Internet websites (USEPA, CTDEEP) has also been used for reference and ideas.

## 4. Storm Drain / Marking Stenciling

**Goal:** The Town applied to CTDEEP for the drain-marking kit and received some labels for this purpose. The storm drain marking was started in 2006. Brochures were distributed to the local street residences as the labeling occurred on their respective streets.

Since 2006 approximately 20% of the catch basins were marked. This program has ceased due to lack of resources and will be reviewed in 2016 under the re-issuance of the new General Permit.

## 5. Watercourse Signage

**Goal:** Determine what watercourses and how best to expand CTDOT tributary signage program

The CTDOT already maintains signage for certain watercourses within the Town. Officials from the Town are currently looking for areas within the Town to expand this program.

## Section 2: Public Involvement / Participation

### 1. Presentation of Draft SWMP

**Goal:** SWMP

The final SWMP was completed in February 2005 and was made available to certain officials within the Town. It was also made available for review by the public after the posting of a public notice in the local newspaper.

This plan was updated in early 2009. The Town assigned Commissions (Conservation/Inland Wetlands and Planning & Zoning Commission) as well as the Public Works Department have taken ownership of their respective parts of the Plans and are implementing them as required.

### 2. Public Information Meetings

**Goal:** Brochures distributed

A brochure has been created and distributed by the Conservation Commission/Inland Wetlands Agency and is available at the Town Hall and Public Library.

### 3. Storm Drain / Marking Stenciling

**Goal:** The Town implemented this program in late 2006 and is still working toward lining up volunteers and funding to continue this program. Due to a lack of resources/volunteers the process has slowed. It will be pushed again in 2016.

### 4. Lake and Watershed Associations / Authorities

**Goal:** Identify all local watershed Associations / Authorities and meet with representatives of all local groups

Associations have been contacted and discussions continue on how to best involve the resources of these groups.

### **Section 3: Illicit Discharge Detection and Elimination**

#### **1. Town Policy Regarding Non-Stormwater Discharges**

**Goal:** Implement Policy

The town's Board of Selectmen passed an Illicit Discharge and Connection Stormwater Ordinance in 2008 and assigned responsibility for enforcement to the Town's Planning & Zoning Commission.

In 2014 the Town checked catch basins and outfall mapping on seventeen (17) roads and checked twenty-six (26) outfalls for illicit discharges. No illicit discharges were observed during this round of inspections. The town will revisit this program in 2016 and perform some more inspections as required under the General Permit.

#### **2. Storm Sewer Map(s)**

**Goal:** Mapping outfalls

The Town, using its Global Positioning System (GPS), PDA and associated software mapped all outfalls 15" or greater in the "urbanized" areas of the Town in 2005.

In 2006 through 2007 outfalls 15" or greater the mapping has expanded and will be continued until all outfalls are mapped town wide.

In 2014 the outfall mapping was revised based on the illicit discharge inspections.

#### **3. Illicit Discharge and Elimination Program**

**Goal:** Continue sampling of six selected outfalls. Start sampling outfalls for ecoli to determine TMDL contribution from other outfalls.

Working with NYE, the Town selected six outfalls (two residential, two industrial, and two commercial) to be sampled and tested. These six outfalls were not sampled during the 2015 season and will be sampled on the next compliant rainfall event.

The Town did not sample any additional outfalls for ecoli to determine TMDL in 2015 but will review again in 2016.

#### **4. Future Illicit Discharge Detection and Elimination**

**Goal:** Address and enforce future non-stormwater discharges



The Town reviews each outfall during the mapping process and collects data on the condition of the stormwater discharges as observed. This information is being reviewed and the Town will investigate any suspect reports of illicit discharges.

The Town has written an Illicit Discharge Detection and Elimination Manual for distribution and training purposes. The Town will continue to inspect outfalls for illicit discharges in 2016.

#### **Section 4: Construction Site Stormwater Runoff Control**

##### **1. Requirements and Guidelines for Erosion and Sediment Controls**

**Goal:** Implement and enforce the ordinance.

In 2008 the Town's Board of Selectmen passed a "Stormwater Management Ordinance" and assigned responsibility for enforcement to the Town's Planning & Zoning Commission, its agents and the Town Engineer.

The Town has stepped up both its initial review of any new or purposed construction projects and continues enforcement inspections of active projects to ensure erosion and sediment controls are in accordance with all local, state and federal regulations.

##### **2. Procedures for Notifying Construction Site Developers and Operators of Requirements for Registration**

**Goal:** Implement Town forms and makes the proper registration a condition of agency approvals for sites exceeding the 1- acre threshold

The Town continues to comply with all requirements of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities.

##### **3. Requirements for Construction Site Operators to Implement Appropriate Erosion and Sediment Control Best Management Practices**

**Goal:** Continue requirements for construction site operators to implement appropriate erosion and sediment control best management practices

Planning & Zoning and Inland Wetland Agency enforcement inspections continue to ensure that all applicable regulations concerning the use of erosion and sediment control measures are followed.

Site inspection and enforcement of control measures are utilized on all of the Town's projects. Under the new ordinance there are three levels of Town enforcement. Initially the inspector issues a "Notice of Inspection" for

corrections to any deficiencies. This is followed with a “Notice of Deficiency” with set time requirements for correction of any issues. This may be used up to two times. Sites which continue to be noncompliant are issued a “Cease and Desist Order” with penalty and must stop work and bring the site into compliance before proceeding.

4. Requirements for Construction Site Operators to Control Waste at the Site

**Goal:** Continue requirements for construction site operators to control waste at the site

Planning & Zoning and Inland Wetland Agency enforcement inspections currently ensure that all applicable regulations concerning waste control are followed.

5. Procedures for Site Plan Review

**Goal:** Continue site plan review procedures

The Town Engineer reviews all site plans for conformance to the Town’s, state and federal requirements relating to construction site runoff control.

6. Future Illicit Discharge Detection and Elimination

**Goal:** Detect and address future non-stormwater discharges

The Town during the mapping process reviews each outfall and collects data on the condition of the stormwater discharges as observed. This information is being reviewed and the Town will investigate any suspect reports of illicit discharges.

7. Requirements and Guidelines for Erosion and Sediment Controls

**Goal:** To protect the town’s surface water resources during construction activities greater than 1 acre in size.

The Town has stepped up both its initial review of any new or purposed construction projects and continues enforcement inspections of active projects to ensure erosion and sediment controls are in accordance with all local, state and federal regulations.

8. Procedures for Notifying Construction Site Developers and Operators of Requirements for Registration

**Goal:** Implement registration requirements for all projects exceeding the 1-acre threshold

The Town currently complies with all requirements of the General Permit for the Discharge of Stormwater and Dewatering Wastewaters Associated with Construction Activities.

9. Requirements for Construction Site Operators to Implement Appropriate Erosion and Sediment Control Best Management Practices

**Goal:** Continue requirements for construction site operators to implement appropriate erosion and sediment control best management practices

Planning & Zoning and Inland Wetland Agency enforcement inspections currently ensure that all applicable regulations concerning the use of erosion and sediment control measures are followed.

10. Requirements for Construction Site Operators to Control Waste at the Site

**Goal:** Continue requirements for construction site operators to control waste at the site

Planning & Zoning and Inland Wetland Agency enforcement inspections currently ensure that all applicable regulations concerning waste control are followed.

11. Procedures for Site Plan Review

**Goal:** Continue site plan review procedures

The Town Engineer reviews all site plans for conformance to the Town's, state and federal requirements relating to construction site runoff control.

12. Procedures for Receipt and Consideration of Information Submitted by the Public

**Goal:** Continue procedures for receipt and consideration of information submitted by the public.

Information submitted by the public is forwarded to the appropriate Town department for consideration.

13. Procedures for Site Inspection and Enforcement of Control Measures

**Goal:** Continue site inspection and enforcement of control measures

Site inspection and enforcement of control measures are utilized on all of the Town's projects.

## **Section 5: Post Construction Site Runoff Control**

### **1. Requirements for Structural and Non-Structural BMPs**

**Goal:** Continue implementation of BMPs including projects with greater than or equal to 1- acre in disturbance area

The Town Engineer currently reviews plans to evaluate stormwater discharges and the methods that may be used for the treatment of stormwater before it reaches an outlet.

### **2. Procedures for Addressing Post Construction Runoff from Construction and Reconstruction Projects**

**Goal:** Continue procedures for addressing post construction runoff from construction and reconstruction projects with greater than or equal to 1-acre in disturbance area

An internal memorandum issued to all Town departments requires stormwater management BMPs for all projects.

### **3. Ensuring Long Term Operation and Maintenance of Best Management Practices**

**Goal:** Continue operation and maintenance of BMPs

The Public Works Department is responsible for the long-term operation and maintenance of the Town's facilities.

## **Section 6: Pollution Prevention / Good Housekeeping**

### **1. Operation and Maintenance Program**

**Goal:** Implement operation and maintenance requirements

The Town is continuing to identify the specifics of the training, record keeping, internal reporting, and maintenance that will be required as part of operation and maintenance plan related to stormwater management.

### **2. Employee Training Program**

**Goal:** Develop employee-training curriculum

The Town's Public Works Department completed an annual training requirement in April 2012.

### **3. Street Sweeping Program**

**Goal:** Implement street sweeping requirements.

The Public Works Department swept 100% of its roadways, approximately 120 miles, parking lots and facilities during 2015.

4. Catch Basin Maintenance Program

**Goal:** Implement catch basin maintenance requirements

The Town cleaned one thousand (1000) or thirty-eight percent (38%) of the Town's two thousand six hundred (2,600) catch basins in 2015. The Town's Public Works Department also continued using a comprehensive spreadsheet for tracking this information.

The Town installed two (2) new catch basins on Maple Tree Hill and repaired twenty (20) catch basins town wide in 2015.

5. Preventative Maintenance Program

**Goal:** Implement preventative maintenance requirements

The Town conducts inspections as a part of new construction /reconstruction projects to identify existing drainage facilities that may be in need of repair or inadequate.

**3.0 Monitoring Data**

The town's PWG/Transfer station met its benchmarks after four semiannual sampling events and is no longer required to take samples until the General Permit is reissued in October 2016

**4.0 Summary of Planned Stormwater Activities During the Next Reporting Cycle**

Continued growth within the Town is being undertaken with an eye towards improving stormwater management. Developers who are working in areas where the existing stormwater infrastructure is not able to meet the needs of their planned construction are required to install or upgrade the stormwater infrastructure as part of their development.

The Public Works Department will continue its Preventative Maintenance Program. The Public Works Department and the Town Engineer will continue to map of the remainder of the Town's outfalls. The implemented ordinances and any changes in the re-issued General Permit will be review by the appropriate Town's Commission.

Continued training will be performed within the appropriate Town Departments and Commissions.

## **5.0 Changes In Any Identified Measurable Goals or Implementation Dates**

The Town will continue to work towards meeting all of the deadlines as specified in the updated Stormwater Management Plan. Any delays in meeting the requirements of the plan will be identified and fixed within the constraints of the workloads of the various Town Departments and the Town budget.

I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

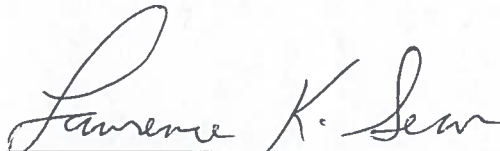
  
\_\_\_\_\_  
Signature of CEO/PEO or designee

Date: 017/04/2016

George R. Temple  
Name of CEO/PEO or designee

First Selectman  
Title

Prepared By:  
Nafis and Young Engineers, Inc.

  
\_\_\_\_\_  
Signature of Preparer

Date: 12/15/2015

Lawrence K. Secor, CHMM  
Name of Preparer

Senior Environmental Project Manager  
Title

**APPENDIX I**

**STORMWATER MONITORING REPORTS**



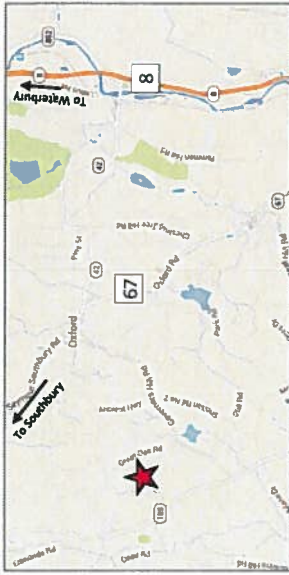
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**APPENDIX II**

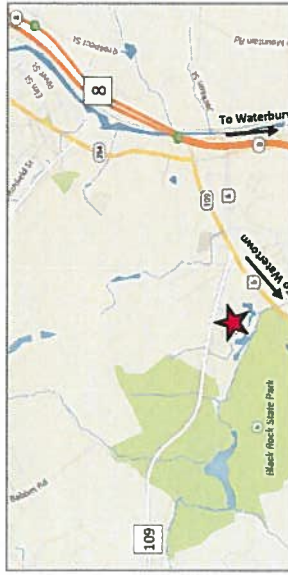
**STORMWATER BMPS,  
OUTREACH EXAMPLES and REPORTS**

## Locations

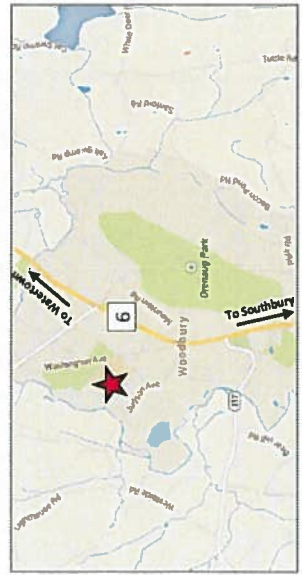
**Saturday, April 25, 2015**  
 Quaker Farms School  
 30 Great Oak Road, Oxford



**Saturday, July 25, 2015**  
 Thomaston High School  
 185 Branch Road, Thomaston



**Saturday, October 3, 2015**  
 Woodbury Middle School  
 67 Washington Avenue, Woodbury



## NAUGATUCK VALLEY COUNCIL of GOVERNMENTS

- ✓ Upon entering the parking lot, a volunteer will request your identification and ask you to open the trunk of your vehicle in order to identify the type of waste you have.
- ✓ You will be given a questionnaire requesting your name and address.
- ✓ While at the drop-off site, please stay in your vehicle at all times.
- ✓ You will then be directed to the collection area.
- ✓ The collection begins at 8:00 A.M. sharp and moves quickly.
- ✓ Being the first in line at 7:30 A.M. only ensures that you will wait an additional 30 minutes.

*No more than 50 gallons or pounds of waste per vehicle without prior approval. Contact NVCOG by Monday before the collection date if you think you might exceed this limit.*

*Commercial waste may be collected for a fee at an HHW event only by prior arrangement one week in advance.*

### Contact NVCOG for Details:

**Phone:** (203) 757-0535  
**E-Mail:** [hhw@cogcnv.org](mailto:hhw@cogcnv.org)  
**Website:** [www.nvcogct.org](http://www.nvcogct.org)

## Household Hazardous Waste Collection Days



**2015**



**Saturday, April 25, 2015**

Quaker Farms School, Oxford

**Saturday, July 25, 2015**

Thomaston High School, Thomaston

**Saturday, October 3, 2015**

Woodbury Middle School, Woodbury

**Hours of Operation:**  
 8am to 2pm

### For Residents of:

Beacon Falls, Bethlehem, Middlebury,  
 Naugatuck, Oxford, Southbury, Thomaston,  
 Waterbury, Watertown, and Woodbury

Collections are sponsored by the towns listed above and administered by the Naugatuck Valley Council of Governments

**There is NO CHARGE for this service.**  
 Proof of residency required  
 Drivers license preferred

## What is Household Hazardous Waste ?

Any waste produced in the home that is poisonous, flammable, explosive, reactive, or corrosive is considered household hazardous waste (**Note: Explosives are never accepted at HHW Collections**). If not properly disposed of, these wastes can be harmful to human health and the environment.

Do not pour these wastes down the drain, dump them "out back," or throw them in the trash.



For more information, contact your local recycling coordinator at:

Beacon Falls	(203) 729-6978
Bethlehem	(203) 266-7677
Middlebury	(203) 577-4170
Naugatuck	(203) 720-7071
Oxford	(203) 888-7716
Southbury	(203) 262-0622
Thomaston	(860) 283-4030
Waterbury	(203) 574-6857
Watertown	(860) 945-5240
Woodbury	(203) 263-3633

## What to Bring

### General Household:

- Paint
- Alkaline batteries
- Drain & oven cleaners
- Mercury thermometers
- Wood cleaners, polishes, & waxes
- Metal Polishes
- Floor, upholstery, and rug cleaners
- Disinfectants
- Aerosols
- Bathroom cleaners
- Bug spray



### Garage/Workshop:

- Fluorescent bulbs
- Wood stains, varnishes, & sealants
- Paint thinner, stripper, & other solvents
- Lacquer & lacquer thinner
- Fungicides & wood treating chemicals
- Automotive cleaners & fluids
- Grease & rust solvents

### Garden/Pool:

- Insecticides
- Poisons
- Pool chemicals



## What NOT to Bring

*No more than 50 gallons or pounds of waste per vehicle without prior approval. Contact NVCOG by Monday before the collection date if you think you might exceed this limit.*

- No** Car Batteries (Check with your town recycling center.)
- No** Motor oil (Check with your town recycling center.)
- No** Empty containers of any kind
- No** Explosives
- No** Propane tanks
- No** Medical or biological waste
- No** Commercial or industrial waste
- No** PCB's
- No** Asbestos
- No** Medications
- No** Tires
- No** Smoke detectors
- No** Air conditioners
- No** Household Appliances
- No** Electronics

**CAR AND MATERIAL TOTALS - NVCOG 2015 HHW EVENTS**

Town	OXFORD-APRIL				THOMASTON-JUNE			WOODBURY-OCTOBER			
	HHW Cars	Paint Cars	Total Cars	HHW Gal/ Lbs	HHW	Paint	Total	HHW	Paint	Total	HHW Gal/ Lbs
Beacon Falls	27	8	35	225	4	1	5	3	1	4	55
Bethlehem	10	1	11	115	20	2	22	25	8	33	335
Middlebury	26	6	32	225	15	12	27	13	7	20	200
Naugatuck	28	9	37	345	20	4	24	12	3	15	115
Oxford	142	41	183	1480	6	2	8	30	4	34	305
Southbury	28	1	29	285	18	4	22	66	4	70	725
Thomaston	9	0	9	110	176	78	254	8	2	10	115
Waterbury	14	3	17	135	47	15	62	21	5	26	240
Watertown	20	6	26	350	52	21	73	30	5	35	365
Woodbury	29	5	34	275	26	5	31	129	48	177	1280
<b>Totals:</b>	<b>333</b>	<b>80</b>	<b>413</b>	<b>3545</b>	<b>384</b>	<b>144</b>	<b>528</b>	<b>337</b>	<b>87</b>	<b>424</b>	<b>3735</b>