

**STORMWATER
MANAGEMENT PLAN
ANNUAL REPORT**

**TOWN OF SOUTHBURY
Southbury, Connecticut**

December 2010

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1 INTRODUCTION

On December 8, 1999, the U.S. Environmental Protection Agency (USEPA) promulgated Phase II of its National Pollution Discharge Elimination System (NPDES) storm water regulations. Phase I of the USEPA storm water program established regulations for storm water discharges from municipal separate storm sewer systems (MS4s) in municipalities with populations of 100,000 or greater, construction activities disturbing five or more acres of land, and ten categories of industrial facilities. The Phase II Final Rule expands the Phase I program by requiring smaller communities with MS4s in urbanized areas to implement programs and practices to control polluted storm water runoff through the use of NPDES permits.

Based on the 2000 census, the Town of Southbury is partially within the Bridgeport-Stamford urbanized area. As such, it falls under the Connecticut Department of Environmental Protection's (CT DEP) Phase II Stormwater Program.

Compliance with the MS4 permit is a two-part process. The first part (Part A – General Permit Registration) was the submission of a registration form including primarily administrative information and basic mapping which was submitted on March 26, 2004. The CT DEP issued the Town of Southbury a General Permit for Stormwater – Small Municipal Separate Storm Sewer Systems (#GSM000028) on April 12, 2004. A copy of GSM000028 is included as Appendix A. The second part of the process is the submission of a Stormwater Management Program Plan (SWMPP) which was received by the CT DEP on July 9, 2004. Although the Town of Southbury currently implements many of the elements of a successful Stormwater Management Program, to be fully compliant, the Town must implement additional measures. The SWMPP addresses how the Town will comply with the six minimum control measures required by the NPDES permit. These six minimum measures include:

- Public Education and Outreach
- Public Participation/Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Runoff Control
- Good Housekeeping/Pollution Prevention

As required by the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems, this sixth Annual Report outlines the town's compliance with said general permit, provides an assessment of the appropriateness of the identified best management practices and the Town's progress towards achieving the implementation of each minimum control measure, provides copies of all monitoring data which may have been collected and analyzed, summarizes storm water activities the Town plans to undertake during the next reporting cycle, and outlines any change in identified measurable goals, implementation dates, or other changes.

2. PUBLIC EDUCATION AND OUTREACH

Education Materials Prepared

The Town of Southbury is in the process of developing program specific material. However, the Town, in partnership with other governmental agencies, businesses, concerned citizens, and non-profit organizations such as the Pomperaug River Watershed Coalition, Southbury Land Trust, Audubon Connecticut, Flanders Nature Center and the Trust for Public Land, has developed or made available general information for public education and outreach efforts that include:

- Community Outreach efforts:
 - Boy Scout Troop 1607 placed markers on storm drains along Main Street South as part of an Eagle project.
 - In cooperation with the Pomperaug River Watershed Coalition the Town has recruited a student intern to assist in mapping stormwater inlet structures and outfalls in the non-urban areas of Southbury.
- Brochures on how to protect water resources such as:
 - The Pomperaug River Watershed Coalition, *Help Us Protect Your Water Resources*.
 - The Trust For Public Land, *Protecting The Source-Land Conservation And The Future Of America's Drinking Water*.
 - The "Speakers Bureau," Is Your Organization Looking For An Interesting Speaker?
 - The Pomperaug River Watershed Coalition, Mission Statement.
 - *Assessing the Vulnerability of Public-Supply Wells to Contamination from Urban, Agricultural, and Natural Sources* by U.S. Department of the Interior and U.S. Geological Survey
 - *River Voices, Effects of Stormwater Runoff from Development* by Robert Pitt, P.E., University of Alabama
 - *Lake Lillinonah, Watershed Awareness and Lake Preservation* by Friends of the Lake
 - The Importance of Streamside Buffers by Rivers Alliance of CT
 - What's in Your Yard by Atlantic States Rural Water and Wastewater Association for the Pomperaug River Watershed Coalition
- Newsletters to raise public awareness such as:
 - The Pomperaug River Watershed Coalition, Watershed News – *Keeping Our Water Pure and Plentiful*, Winter 2006, Summer 2006, Fall 2006,

Summer 2007, Fall 2007, Spring 2008, Summer 2008, Fall 2008, Winter 2008, Spring 2009, Summer 2009, Fall 2009 and Winter 2009, Fall and Winter 2010 editions.

- Southbury Land Trust, *Land Trust News*, Spring 2007, Fall 2007 and Fall 2009 and fall 2010 editions.
 - The Voice of Local Conservation Northwest Conservation District, *Fall 2005 and Fall 2007*
 - Lake Lillinonah Health Report Forum notice
 - *Friends of the Lake Newsletter*, 3rd and 4th Quarter of 2005
 - *Assessing the Vulnerability of Public-Supply Wells to Contamination from Urban, Agricultural, and Natural Sources* by U.S. Department of the Interior and U.S. Geological Survey
 - *River Voices, Effects of Stormwater Runoff from Development* by Robert Pitt, P.E., University of Alabama
 - *Connecticut Nemo Newsletter*, Spring 2005
 - *Lake Lillinonah, Watershed Awareness and Lake Preservation* by Friends of the Lake
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- “Speakers bureau” that can provide speakers to address civic and business groups on environmental topics that include:

Open Space: The Watershed Connection
Geology of the Pomperaug Valley
Backyard Stewardship
Fishing the Pomperaug
Renewable Energy
Organic Gardening
Maple Sugaring
Birds of the Watershed
Local Land Use Boards and the Preservation of the Environment.

Copies of selected educational materials are included in [Appendix B](#).

Additionally, The Audubon Center at Bent of the River staff are working closely with Regional School District teachers and administrators to fully integrate Bent programs with the school curriculum at different levels so that field experiences at the Bent can help build knowledge and competencies over a period of years.

The Audubon Center at Bent of the River includes Pomperaug River water quality assessment in a variety of its programs. Volunteers assist the Audubon Center in the development of these programs. Last year 31 school programs reaching approximately 850 students in grades 4-12, including 4 scout programs involving 65 children were held. The Girl Scouts worked on a badge called “Water, Water Everywhere” 5 adult sessions were conducted reaching 78 people and a week of summer camp related to water was conducted for 18 kids. All included the following programs:

- Audubon Day Camp participants conduct a weekly water quality biological assessment of the Pomperaug River from late June until early August.
- High school environmental science students conduct both chemical and biological water assessments each year in the Pomperaug River. The environmental science students complete their river study by discussing biological dilemmas written specifically for the Pomperaug River watershed.
- The home school program (“Getting to know the Pomperaug River Watershed”) features the watershed in a series of ten lessons.
- *The Kingfisher*, the joint newsletter of Lillinonah Audubon Society & Audubon Center at the Bent of the River, September, October, November 2005.

This year the Audubon Center at the Bent of the River reached 357 12 year olds from Region 15 schools with 5 hours of programs about the Pomperaug River. Approximately 350 10 year olds from the schools studied aquatic animals in the vernal pools for two hours. 75 children participated in summer camp all learning about the River. Additionally, 325 students from grade 7 at Region 14 schools had a day long program at their schools and 175 scouts learned about animals that live in or near the Pomperaug River.

Adult programs served 305 persons, in addition to 80 programs for hikes and 225 attending the River Festival in Map.

An Audubon Center at Bent of the River program educational series listing is included in Appendix C.

Education Materials Distributed

The brochures, newsletters, and “Speakers Bureau” information outlined in Section 2.1 have been distributed to citizens in Southbury and throughout the Pomperaug River watershed.

Workshops/Meetings Attended

Over the duration of the permit several workshops and meetings have been held to raise community awareness and involvement in the Town of Southbury’s Stormwater Management Program. In Addition, Town staff attend stormwater related workshops and seminars in order to stay current in their knowledge levels of stormwater technology and efforts. Meetings and seminars held and/or attended include:

- River Management Seminar- Pomperaug River Watershed Coalition – River Management Seminar for Municipal Officials - April 9, 2008
- Pomperaug River Watershed Coalition – River Management Seminar for Residents – June 2008
- Pomperaug River Watershed Coalition – Severe Drought Seminar December 2008
- CTDEP Session 2- June 2,2008
- Stormwater 101 July 23, 2008 USEPA webcast

- Tools and Guidance- Post Stormwater Program USEPA webcast- September 3, 2008
- Pictures, Points & Places Intro to GPS and GIS- Haddam, CT September 11-12 2008
- CTDEP segment 3, -Torrington, CT Soils and Their Relationship to Stormwater Management- October 29, 2008
- CTDEP Inland Wetlands Agent Forum February 2009;
- CTDEP workshop “Latest Trends in Industrial Stormwater Permitting” May 20, 2009;
- CTDEP Session 2 Training- Forestry Management Practices November 2009;
- UCONN CLEAR webinar “Forestry Fragmentation” November 2009;
- NE chapter International Erosion Control Association (IECA) 2009 conference, and Certified Professional in Erosion and Sediment Control Exam Review, October 2009;
- Pomperaug River Watershed Coalition presentation to the Southbury Planning Commission on the state of the water, July 2010
- CTDEP Watershed Management/Low Impact Development Projects in Connecticut , August, 2010 added to library
- After the Storm, co-produced by EPA and The Weather Channel, added to Library
- Pomperaug River Watershed Coalition Bulletin -Help our Coalition Protect A Precious Resource We all Share,
2010:
- Proposed Streamflow Regulations Naugatuck Valley Council of Elected Officials- January 13, 2010;
- Pomperaug River habitat presentation for Municipal Officials, January 13, 2010
- Connecticut Association of Wetland Scientists February 23, 2010;
- Connecticut Department of Environmental Protection Staff Forum Feb 26, 2010;
- CT ECO Overview: Viewing Connecticut's Environmental and Natural Resource Information Online March 2, 2010;
- Connecticut Department of Environmental Protection Training Program Session 2- Legal, Administrative and Resource Management Update- June 1, 2010.
- Connecticut Association of Conservation and Inland Wetlands Commissions Annual Meeting (11/13/10)- “Pesticides, Wetlands, and Watercourses”

Modifications to Plan

There are no modifications to the Public Education component of the Stormwater Management Plan under consideration at this time.

Activities Scheduled for Next Year

In addition to the Best Management Practices outlined for Year 5 of the program, the Town of Southbury will continue to formalize the partnership of governmental agencies, businesses, concerned citizens, and non-profit organizations such as the Pomperaug River Watershed Coalition, Southbury Land Trust, and Audubon Connecticut into the Town's Stormwater Committee.

Integration of outfall mapping information into the Town's GIS system has been completed.

The Town plans to assess the current condition and status of all detention and water quality basins currently located within the town and to determine future maintenance needs and schedules.

3. PUBLIC PARTICIPATION

Public Meetings Conducted

Through the partnership of governmental agencies, businesses, concerned citizens, and non-profit organizations, many public meetings have been held to increase public participation and awareness of the need to support and implement appropriate storm water control measures. Meetings held include:

- Stormwater Quality Manual Training – Middlebury Library – March 31, 2005
- Stormwater Quality Training Update and field time – Southbury Town Hall – August 31, 2005
- CT DOH Water Supply Meeting – Middlebury Town Hall – September 21, 2005
- Stormwater Management Meeting – Southbury Town Hall – September 13, 2005
- DEP Update Monday, USGS Research in the Pomperaug Watershed – Hartford – April 25, 2005
- The Incredible Shrinking Lawn – Woodbury Emergency Services Building – March 12, 2005
- ConnDot's Practices – Woodbury Town Hall – November 13, 2007
- Pomperaug River Watershed Coalition – River Management Seminar for Residents – June 2008

Copies of selected public meeting materials are included in Appendix D.

Presentations Given

Through the partnership of governmental agencies, businesses, concerned citizens, and non-profit organizations such as the Pomperaug River Watershed Coalition, Southbury Land Trust, Audubon Connecticut, and Flanders Nature Center numerous public forums have been held to increase public participation and awareness of the need to support and implement appropriate storm water control measures. These presentations included Town officials, civic groups, elected officials, school groups, local Scouting organizations, as well as the general public.

The Pomperaug River Watershed Coalition conducts an extensive outreach program and sponsors programs to reach residents, boards, commissions, scouts and school children. During 2009 a total of 49 programs were held reaching 1,429 citizens.

For the year 2010 the Pomperaug River Watershed Coalition excelled in its outreach program. They held 69 programs with 2065 citizens participating. Through their mass media outreach they feel they reached 283,295 citizens. The listing of presentations and programs given to or provided to various groups is included in Appendix E.

Notice Published

- Legal Notice in the Voices, Wednesday, December 29, 2010, informing the public that the Year 6 annual report will be available in the First Selectman's office for review and comment after January 1, 2011.

Copy of notice is included in Appendix F.

Feed Back

The public has been supportive of the efforts to maintain and improve the environmental quality in Southbury and the Pomperaug Watershed. One example of this support is the consistent financial support for the preservation of open space. Over the past six (6) years nearly one thousand three hundred and 10 (1,310) acres have been so preserved with local funding as open space or as conservation easements. During this reporting period several additional sites are being considered for preservation.

Web Site

The 2010 Stormwater Management Plan Annual Report is available on the Town of Southbury Web site (www.southbury-ct.org)

The posting of Stormwater Management Program Plans and information is now available at www.Southbury-ct.org. It should be noted that the Pomperaug River Watershed Coalition's research and watershed information can be accessed at www.pomperaug.org. Similarly, the Audubon (www.audubon.org), and Flanders Nature Center (www.flandersnaturecenter.org) have related information posted on their web sites.

Some initial education material has also been placed on the Town's web site.

Modifications to Plan

Although the Town of Southbury had removed the storm drain stenciling program from the Plan in 2004, after careful review and discussion with government officials and citizen groups, volunteer organizations have since expressed interest in participating in this best management practice (BMP). For this reason the program is being reinstated in the Plan as a strictly volunteer activity.

Activities Planned for Next Year

The Town will continue to work with the partnership of governmental agencies, businesses, concerned citizens and non-profit organizations such as the Pomperaug River Watershed Coalition, Southbury Land Trust, Audubon Connecticut, and Flanders Nature Center to sponsor and support cleanup projects and support the overall environmental goals of these organizations.

Since 1999, the Town of Southbury has contributed over \$ 245,000 to the Pomperaug River Watershed Coalition in support of its water quality improvement programs. This year another \$38,000 was added. During this same time the Town also contributed over \$1,218,000 in support of the Southbury Land Trust's and Trust For Public Land's efforts to preserve open space and farmland.

The Town will continue to enhance the stormwater management component of its website by posting more educational material and providing links to relevant sites.

4. ILLICIT DISCHARGE DETECTION/ELIMINATION

Illicit Discharge Investigation Activities

During 2004, the Town of Southbury developed the process and procedural protocols for logging in and responding to complaints associated with illicit discharges. The Town has incorporated procedures that include detection information received from the Southbury Inland Wetlands Enforcement Officer, the Pomperaug Heath District, and the Pomperaug River Watershed Coalition Volunteer Stream walk program. During the past year no water quality complaints have been reported.

The Town of Southbury, through its Water Pollution Control Authority, developed and approved (effective July 15, 2004) a Water Pollution Control Plan which outlines a variety of general management strategies to protect and manage the Town's land and water resources while controlling the impacts of wastewater discharges. These strategies include the systematic collection and review of data to monitor water quality and the performance of on-site septic disposal systems. In collaboration with the Watershed Coalition, water quality data has been collected during this report period. Data will be analyzed and used for benchmarking the Pomperaug River.

Illicit discharges will be recorded by the Highway Department in a log on a *Discharge Notice* as they are detected and reported. The log will be in a format that records the following information:

Location	Type	Date Identified	Identified By	Estimated Flow	Scheduled for Repair/Action

A copy of the Illicit Discharge Notice is included in Appendix G.

The log is kept in the Highway Department’s administrative offices located at 60 Peter Road, Southbury, Connecticut. The information can be accessed by the public during normal working hours Monday through Friday. The Departments clerical staff will be responsible to accept and record the general public’s written and telephone complaints of all potential illicit discharges so that appropriate field personnel can be assigned to inspect and verify its location, type, estimated flow, and priority for repair/action. The Highway Department’s clerical staff will also receive and record illicit discharge detection information received from the Southbury Inland Wetlands Enforcement Officer, the Pomperaug Heath District, and the Pomperaug River Watershed Coalition Volunteer Stream walk program.

One illicit discharge was reported or detected during this reporting period. This occurrence was referred to the Connecticut DEP and they determined that a leaking residential fuel oil tank was the problem. During outfall mapping activities, described in Section 4.3, Town personnel inspected each outfall for evidence of illicit discharges.

On August 18, 2010 the Southbury Fire Department received notice and responded to a complaint about the possibility of an oil spill at 1583 Southford Road. They found a number of 55 gallon oil drums filled with waste oil and oil filters with some spillage onto the ground around the barrels. They notified the Inland Wetland Agent and the CT Department of Environmental Protection Spill Response Unit, who both responded to the scene. The Spill Unit responder ordered the property owner to make next day arrangements for cleanup of the site, with which the property owner complied. In 2009 and 2010 CVS pharmacy’s across the State of Connecticut, including the one located in Southbury on Bullet Hill Road, illicitly dumped photo processing chemicals into the on-site sewer disposal system. The CTDEP recently initiated a consent order against the company for such practices. The pharmacy has since revised its chemical processing practices, but the potential adverse effects of the chemicals on the local ground water is unknown.

Illicit Discharge Removal Activities

Once an illicit discharge has been detected and logged, the Southbury Highway Department will be responsible for ensuring that an investigation is conducted by the appropriate agency. Working collaboratively with the Inland Wetlands Enforcement Officer, Pomperaug Health District staff, or other governmental agencies as needed, Highway Department clerical staff will record the actions taken to correct and/or eliminate said illicit discharges in a log entitled *IDDE Investigation Report*. The log will be in a format that records the following information:

Location	Type	Date Removed	Removed By	Cost

Data on the illicit discharge is not available at time this report was prepared. A copy of the *IDDE Investigation Report* is included in Appendix H.

Outfall Mapping Activities

The Town was unable to complete mapping of all storm water outfalls within the non-urbanized area during 2009. This work will be undertaken in 2010. The data acquired during this process will be added to the Town's GIS database.

Modifications to Plan

There are no modifications to the Illicit Discharge component of the Stormwater Management Plan under consideration at this time.

Activities Planned for Next Year

The Town will continue to work with the partnership of governmental agencies, businesses, concerned citizens and non-profit organizations such as the Pomperaug River Watershed Coalition, Southbury Land Trust, and Audubon Connecticut to develop programs to detect and eliminate illicit discharges.

The Southbury Highway Department will continue its efforts with the Pomperaug Health District and other Town agencies to develop and implement the process and procedures for logging and responding to complaints associated with illicit discharges.

The public has been informed of who to contact to report suspected illicit discharges and how to do so, in information provided on the Town of Southbury's website, official town guide, and other program promotional literature.

The Town will continue to map outfalls and identify illicit discharges. Efforts will continue to coordinate and integrate the SWMPP with other plans such as the Water Pollution Control Plan, Highway Garage SWPPP, and Recycling Center SWPPP with the Town's land use regulations and geographic information system (GIS).

Pertinent Town ordinances and regulations will be reviewed relative to illicit discharges. Draft ordinance language will be developed, as necessary, to comply with the MS4 general permit.

5. CONSTRUCTION SITE RUNOFF CONTROLS

Southbury's Inland Wetlands, Planning and Zoning staff coordinates plan review, inspection, and enforcement activities. The department will provide comprehensive

administration of the construction and post-construction storm water ordinances that will comply with the MS4 General Permit, including the Town of Southbury's Soil Erosion and Sediment Control Ordinance, effective 1995. A copy of Town of Southbury's Soil Erosion and Sediment Control Ordinance is included in Appendix I. On-site inspections are made throughout the construction process to ensure compliance with the Town of Southbury's Soil Erosion and Sediment Control Ordinance, which incorporates the MS4 and Erosion and Sediment Control Guidelines. Details regarding Southbury's construction site runoff control activities are presented in the sections below.

Construction Plans Reviewed

For the period July 1, 2008 to June 30, 2009 three (3) subdivision, two (2) commercial, and seven (7) residential plans were reviewed for compliance with the Town's Soil Erosion and Sediment Control Ordinance.

For the period July 1, 2008 to June 30, 2009 approximately eighty six (86) plan reviews were completed for both wetland applications and building permit applications for compliance with the Town's Soil Erosion and Sediment Control Ordinance.

Construction Activities Commenced

There were eight (8) single family dwellings and 1 commercial project that initiated construction activities during this reporting period.

Construction Sites Inspected

There were approximately one hundred and ten (110) site inspections conducted by the Southbury Land Use Inspector for the approved site plans, subdivisions, and ongoing projects. Sites were inspected with regards to conformance with the Erosion and Sediment Guidelines and approved plans as well as for release of erosion control bonds as projects are completed. Enforcement actions were taken when necessary and issues/concerns were addressed by the site contractors or developers.

Within its borders the town contains the shorelines of two lake impoundments of the Housatonic River; Lake Zoar and Lake Lillinonah. Land Use staff maintains close relationships with the staff of First Light Power Resources, the owners of the two lakes, in order to monitor the shorelines for illegal construction activity and compliance with good erosion control practices..

Modifications to Plans

The Town's land use regulations are continually reviewed relative to erosion and sedimentation control requirements for necessary changes to comply with the SWMPP.

The Land Use Department has upgraded the database upon which it relies to accurately track compliance inspections conducted by staff. Alterations include 1) the ability to store information in greater detail with regards each site inspection; 2) the ability to store more

specific information regarding property owners and site contractors who are responsible for maintaining site erosion control measures regarding site inspections; 3) the ability to track and sort data by future site inspection dates, and 4) the ability to attach gps enabled site photos into the GIS record for each parcel.

The town has taken steps to significantly upgrade its GIS system this year by upgrading its ARCVIEW software from version 9.2 to 10.3. The upgrade allows staff to complete more comprehensive analytical analysis of land use trends for the town. They have also upgraded the orthophoto layer from an aerial flyover of the town completed in 2007. This gives staff the benefit of utilizing recent land use information in its GIS resulting in better informed decision making ability.

Land use staff has expanded the potential of its GIS system by implementing methodology to attach links that refer to supporting documentation, such as digital photos, land use permits and correspondence, to individual properties. This greatly consolidates the various sources of information into one easy to view link to individual properties and thus providing easier and more complete synopsis of land use information.

Activities Planned for Next Year

Activities we intend to continue for the upcoming year include ongoing inspections and enforcement of current rules, as well as review of protocols including provisions for controlling construction wastes such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes at the construction site that may cause adverse impacts to water quality.

As stated above, construction site inspection activity is recorded in an electronic database located on town servers.

An example of a typical entry is included in Appendix K.

6. POST-CONSTRUCTION STORMWATER MANAGEMENT

The Town of Southbury Water Pollution Control Authority (WPCA) Aquifer Protection Committee adopted aquifer protection regulations for public water supply and well head protection areas for areas of the community that are in designated level A by CTDEP. These regulations were adopted with an effective date of August 20, 2007 and will provide additional authority over land use and storm water control in many parts of Southbury. The Zoning Commission on June 11, 2008 held a public hearing on and adopted the proposed level A protection areas. At the end of 2008, CTDEP proposed a second final level A well head protection area to the WPCA that was adopted by the Zoning Commission on April 18, 2009.

The Town's Land Use Department continues to provide the town with improved coordination over site plan review, inspection, and enforcement of the Inland Wetlands, Planning, and Zoning ordinances.

Structures Installed

During this reporting period, there were no (0) structural measures installed, including detention basins, water quality basins, gross particle separators, dry basins, and underground detention systems.

In the previous report the town reported that utilizing grants from USDA Natural Resources Conservation Service and Connecticut DEP, it undertook a project to stabilize approximately 220 feet of riverbank on the Pomperaug River. The completion of this work not only eliminated a major potential source of sediment from the river system but also enhanced the fish habitat along this section of the channel. Subsequent inspections of the restored area shows the structural portion of the project is well integrated into the landscape with no obvious imperfections, and the vegetation planted at the time of completion is well rooted and established.

Structures Inspected

All structural measures noted above were inspected during construction and after completion for compliance to the approved plans by the Southbury Land Use Inspector. Records of the approved plans and the inspections associated with the structures are on file in the Inland-wetlands agency office at 501 Main Street South, Southbury, Connecticut.

The Inland Wetland Agency staff track and monitor the long term maintenance of operational storm water best management practices by maintaining a database of these structures. Staff sends reminder notices 3 times per year to the entities responsible for providing the annual inspection and clean out of the structures. The responsible parties are required to submit proof that maintenance has been accomplished. The town tracks approximately 20 individual sites with their associated best management practices on an annual long term basis.

Modifications to Plan

Land Use agencies including the Planning Commission, the Zoning Commission, and the Inland Wetlands and Watercourses Agency review developmental applications with a particular emphasis upon water quality and the potential for implementing low impact development measures.

The Town's regulations and ordinances are reviewed for necessary changes to comply with the SWMPP.

Activities Planned For Next Year

The Town of Southbury has historically accepted responsibility for maintenance of stormwater detention facilities primarily associated with subdivisions in which the roadway is accepted into the town inventory of public roads. In an effort to better plan for the both short and long term maintenance needs of these structures, the town intends to inventory all storm water systems under its jurisdiction and to create specific and measureable schedules for each. This will create a process and method for more efficient allocation of town resources on a yearly basis, and allow for better budgeting of those resources

The Town will also continue to develop procedures for addressing post-construction BMPs for all residential and commercial projects. Town staff is working to strengthen maintenance agreements for both private and public storm water management facilities to ensure that maintenance activities take place in a timely manner over the life span of the measures.

Construction site inspection activity will be recorded in a log entitled *Structure Inspection Report*. The log will be in a format that records the following information:

Project	Site	Type Structure	Date Installed	Date Inspected

A copy of the *Structure Inspection Report* is included in Appendix K.

7. POLLUTION PREVENTION/GOOD HOUSEKEEPING

Employee Training Conducted

Training resources and materials have been identified and developed. A multi-faceted training program was initiated for appropriate Town of Southbury personnel. Training encompassing spill response, erosion and sediment control and good housekeeping practices will continue to be integrated with other topics and scheduled as the work load allows.

Street Sweeping

The Town currently sweeps all streets a minimum of once each year, beginning in the spring, to remove winter road sand and other debris. During the spring approximately 244 curb miles were swept. Approximately 2,720 tons of material was removed from Town streets during this process. The Town has developed and implemented procedures to record this information. Additionally, 150 curb miles of street were swept during the fall of 2010. Approximately 400 tons of materials were removed – mostly leaves, twigs, and other litter.

Based on samples of the Town’s stockpiled street sweepings taken in September 2006 and used to evaluate potential reuse and disposal options under the DEP street sweeping and catch basin cleanings policy, it was determined that the materials were acceptable for recycling and road reconstruction projects. The Town used a portion of this material in limited construction projects. The balance continues to be stockpiled for use in appropriate future projects.

Snow Removal

For the past ten (10) years, all raw salt used for mixing with sand for road application is immediately delivered to and stored in a separate salt bin that was designed and constructed for this purpose. The Town recently completed construction of a sand/salt mixture storage building that allows approximately 750 cubic yards of mixture to be stored under cover. All of the Highway Department's sand/salt mix is stored inside this storage building. This eliminates salt brine leaching from the mixture during inclement weather or erosion of the sand material into adjacent storm drain facilities. Raw salt or salt mixed with sand is no longer in contact with storm water.

Raw sand is stored in an adjacent stockpile and the stockpile is shaped and graded to minimize migration of materials towards storm drains. The paved area in front of the storage building is scraped clean with the front loading tractor after each storm event or whenever sand/salt mixture is moved. Additionally, the paved area at the Highway Department is swept monthly with one of the department's sweepers to further reduce the possibility of sediment reaching the storm drain system.

The Town's policy is to apply the minimum amount of sand/salt mixture to its roads during winter storms necessary to assure safe conditions for the traveling public. Each of its Highway Department employees is verbally informed of and/or reminded of this policy at the beginning of the snow removal season by the Highway Foreman. The Highway Foreman also monitors compliance with this policy by visually inspecting the plow work and amount of material applied by driving plow routes during each storm. The Town has begun equipping its plow vehicles with electronic ground speed spreader controls to automatically place sand at a predetermined rate and reduce any opportunity for human error. Two additional vehicles were equipped this year. When fully implemented, this program should significantly reduce the volume of sand that can potentially pollute the Town's waterways.

The Town does not load and transport snow from any of its streets for offsite disposal or utilize any other process during its snow removal operations that would lead to pollution entering its storm drainage system.

Catch Basin Cleaning

The Town of Southbury continued a catch basin cleaning program utilizing its vacuum type truck to better clean storm drainage catch basins, detention ponds, and other storm water structures.

During the course of 2009 and 2010 approximately 1,900 catch basins were cleaned using the Town's vacuum truck and approximately 1800 tons of material was removed thus preventing it from discharging to a water of the State.

Preventative Maintenance Activities

The Town of Southbury maintains Storm water Pollution Prevention Plans (SWPPP) for its Municipal Solid Waste Transfer Station and its Public Works Garage in accordance with the CT DEP industrial storm water general permit program. The Town also maintains a Spill Prevention, Control and Countermeasure (SPCC) Plan for the Public Works Garage in accordance with the federal oil pollution prevention regulations.

The Town is also in the process of upgrading the storm drainage system at the Public Works Garage to further treat runoff from the site and from the adjacent Middle School. The existing detention basin that receives these discharges was maintained and additional slope protection was added during 2008. Additional modifications that are proposed include a swirl-type gross particle separator upstream of the basin for pretreatment. This improvement which the Town anticipated would be completed in 2008 has been further postponed until 2011.

The Public Works Department completed development of a catch basin inventory. This inventory determined the quantity of existing catch basins located on each street and established the total number of basins the Town maintains. It also helped to identify catch basins requiring priority maintenance and cleaning. The inventory will also identify areas where new catch basins should be installed and/or upgraded (i.e., increased storage capacity, deeper sumps). In addition the Town is in the process of upgrading its GIS database and aerial photographs to indicate the location of all catch basins.

The Town maintains a number of open swales and ditches including many with sediment traps or pools located at pipe outlets. These will be inventoried next and a format for gathering and recording the frequency and amount of sediment removed will be developed.

Complaint Responses

The Highway Department maintains a list of complaints that it receives regarding road and highway maintenance concerns in the Department's administrative offices at 60 Peter Road in Southbury, Connecticut. The list of complaints is maintained by the clerical staff of the Department as they are received by telephone and/or written correspondence (the Town of Southbury does not have department wide email capability at this time). Telephone complaints that may be received by the First Selectmen's office are recorded on paper and transferred to the Highway Department. Written complaints received by the Selectman's office are transferred to the Highway Department with a copy of a letter written by the First Selectman (which is sent back to the complainant acknowledging receipt of the complaint), with a request for the Highway Department to respond and follow up.

The Highway Department discontinued use of the Advanced Storm water Information System (ASIST) program for inputting, analyzing, and maintaining complaint records. The limited number of complaints is better tracked on a simple spreadsheet.

Other than early spring requests for prompt sweeping of winter road sand, the Department received no calls regarding "good housekeeping" of its roadway facilities during this reporting period.

Spill Response Activities

As a result of implementing the SPCC Plan for the Highway Department Garage facility, the Town has established an Emergency Coordinators list and an Emergency Contact List. Town staff will be trained and equipped to address incidental oil or petroleum spills with on-site spill response resources. Department personnel will be able to utilize this training and resources to deal with incidental off-site spills as well. Significant spills will be handled by a designated Emergency Spill Response Contractor. Town staff did not participate in any spill response activities during this past reporting period because there were no spills.

Transfer Station

Managerial oversight of the Town's Transfer Station falls under the jurisdiction of the Public Works Department. All municipal residential waste flows through the Transfer Station before being hauled to the CRRA Mid-Connecticut Project Waste to Energy Facility in Hartford for disposal. The Town of Southbury commissioned the consulting firm of Fuss & O'Neill, Inc. to prepare a SWPPP for its Municipal Solid Waste Transfer Station. This plan has been incorporated into the Public Works operating procedures and policies and the recommendations and requirements discussed in the Plan will be completed in the coming year. Already accomplished are the following:

- Lined battery storage area to reduce possibility of leakage and/or spillage.
- Reduced potential erosion of slopes by wood chipping and placement of rip rap.
- Drainage swale on North side of property rip rapped and seeded for stabilization.
- Access roadway to the composting area was re-graded and stabilized with recycled asphalt millings to reduce erosion.

In addition to these measures, the Town completed replacing old dumpsters with covered dumpsters. The town also completed installing a new compactor with a covered hopper and walls where the bails are discharged. These improvements are anticipated to reduce storm water exposure.

Municipal Recycle Program

The Town continues to promote town-wide residential materials recycling. The Town has implemented a single stream form of recycling that should result in increased participation by residents. All materials are required to be recycled through the Town's Transfer Station. The Town will continue to employ good housekeeping practices at the Transfer Station.

Household Hazardous Waste Collection

In conjunction with other communities within the CNVCOG, the Town of Southbury participated in three household hazardous waste collections in neighboring communities.

The Household Hazardous Waste Collection Program has been successful in removing household hazardous materials from the town's waste stream since its inception in 1996. The program is overseen by the CNVCOG with participating communities sharing the

administrative and the hazardous materials disposal costs based on participation formula. The Town of Southbury paid approximately \$ 4,065 to dispose of household hazardous waste through this program for this reporting period.

Additionally Southbury, in conjunction with CNVCOG, participated in two regional events with the Connecticut Resources Recovery Authority (CRRA) to collect and recycle electronic equipment. All of the events included the Connecticut Department of Environmental Protection's Mercury Thermometer Exchange Program.

Hazardous Waste & Mercury Exchange Programs were conducted in Central Naugatuck Valley Region by COG on April 24, 2010(Watertown), July 24, 2010(Naugatuck) and October 2, 2010(Thomaston) in which the Town of Southbury participated. The Naugatuck event also included a prescription medicine disposal program.

Copies of the *2010 Household Hazardous Waste Collection Summary Reports* are included in Appendix L.

Municipal Facility Inspection

The Town performs routine inspections of all its facilities to identify maintenance and improvement requirements. These inspections are performed on an informal and unscheduled basis. They are not performed specifically to identify areas where the potential for storm water pollution can be reduced. A formal inspection program concentrating on areas where the Town can modify its practices to improve the quality of storm water runoff is being developed. Town facilities have been inspected. No significant problems have been found. A standardized inspection form is also being finalized and will provide for uniform documenting of results.

Modification to Plan

There are no modifications to the Pollution Prevention/Good Housekeeping component of the Stormwater Management Plan under consideration at this time.

Activities Planned Next Year

- Finish inventory of sediment traps/pools, and separator structures.
- Continue using vacuum type catch basin cleaner.
- Continue to document all pertinent maintenance/cleaning operations.
- Complete development of Training Program, conduct employee training.
- Identify structural, hydraulic or sediment storage deficiencies in storm water system and develop a priority list for addressing them.
- Continue locating and mapping outfalls and other components of storm water drainage system.
- Continue to maintain records of all complaints and actions taken.
- Follow up on any problems identified through discharge sampling program.
- Continue annual sampling program.

8 ANNUAL STORMWATER MONITORING

The General Permit requires annual storm water monitoring of at least two outfalls apiece from areas of primarily industrial development, commercial development and residential development, respectively, for a total of six (6) outfalls monitored. Monitoring parameters, procedures, and storm event criteria are described in the General Permit.

The Town has selected sampling outfalls based on the land use within the drainage area to each outfall, as well as practical considerations such as accessibility and location. A field sampling plan describing the sampling objectives, outfall locations, sampling parameters, and monitoring procedures for the 2010 annual monitoring event is included as Appendix M.

The Town collected the storm water samples for 2010 during storm events occurring on September 16, 2010. Analytical results for these samples are included in Appendix M.

APPENDIX A

General Permit for Storm water – Small Municipal Separate Storm Sewer
Systems (#GSM) – Town of Southbury
General Permit Industrial Activities (GS1001531) and (GS1001530) – Town of
Southbury

APPENDIX B

Education Materials

See note above regarding attachments

APPENDIX C

Audubon Center Bent Of River Educational Series Listing

See note above regarding attachments

APPENDIX D

Public Meetings Conducted

See note above regarding attachments

APPENDIX E

Presentation Listing

See note above regarding attachments

APPENDIX F

Public Notices

See note above regarding attachments

APPENDIX G

Illicit Discharge Notice

See note above regarding attachments

APPENDIX H

IDDE Investigation Report

See note above regarding attachments

APPENDIX I

Town of Southbury's Soil Erosion and Sedimentation Control Ordinance

See note above regarding attachments

APPENDIX J

Construction Site Inspection Report

See note above regarding attachments

APPENDIX K

Structure Inspection Report

See note above regarding attachments

APPENDIX L

Summary Reports – 2010 Household Hazardous Waste Collection Events

APPENDIX M

Annual Stormwater Monitoring – Field Sampling Plan

See note above regarding attachments