

TOWN OF WINDSOR
STORMWATER MANAGEMENT PLAN



2009 Annual Report

December 21, 2009

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1.0 EXECUTIVE SUMMARY

In 2004, the Town of Windsor prepared a five-year Phase II Stormwater Management Plan (SWMP) as required by the Connecticut Department of Environmental Protection's General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 General Permit). This document constitutes the Town's Annual Report for 2009 and summarizes the activities conducted to satisfy the permit requirements, modifications to the SWMP, and activities scheduled for the upcoming year, 2010.

2.0 PUBLIC EDUCATION AND OUTREACH

2.1 Catch Basin Markers

To date, more than 635 catch basin markers have been marked with a placard stating, "Drains to Waterways and the Long Island Sound, No Dumping!" These markers warn people that discharging harmful contaminants into a catch basin has a negative impact on the local wetlands and waterways as well as the Long Island Sound. Additionally, residents received an educational flyer explaining the purpose of the catch basin markers installed in their neighborhood.

2.2 Educational Materials Distributed

Copies of the SWMP are available for public review at the Windsor Main Library, the Wilson Branch Library, and the Town Clerk's Office. The Town's website also contains a stormwater page which includes links to a copy of the SWMP and annual reports. A variety of other media outlets were also used to provide stormwater management information to Windsor residents over the past year. Feature articles and photos were published in local newspapers on the Earth Day and Connecticut River community clean-up efforts. These newspapers include the *Hartford Courant*, *Windsor Journal*, and *Reminder News*. Promotional information on these events as well as other stormwater management educational information was also broadcast on Windsor's Government Access Television Channel, WGTV.

In addition, the Town of Windsor publication, *There's a lot to do in Windsor*, included public relations information for the catch basin marking program which included a request for volunteers to assist with the program. Additionally, other tips to residents regarding car washing and fertilizer

applications were included in the publication throughout the year. Household Hazardous Waste Day, Earth Day, and Connecticut River Clean-up programs were also publicized in the magazine to educate all citizens. Copies of these publications are included in Appendix A. This town magazine, published three times per year is mailed to every household and business in Windsor for a total distribution of 12,500.

2.3 Citizen Groups

Various local citizen groups and organizations have assisted the Town in developing partnerships with the public and increasing stormwater awareness. These groups include ING Community Service Volunteers and Four Seasons Landscaping (a local company). These groups continue to provide and/or have the capacity to provide public education resources on stormwater quality issues and continue to exist as support for future stormwater education programs in Windsor.

2.4 School Programs

This year a number of educational activities have been conducted with Windsor students. A recycling lesson was given to the sixth grade students at Sage Park Middle School and to third grade students at Oliver Ellsworth Elementary School by the Town Environmental Planner. Town staff has also partnered with three Environmental Science classes at Loomis Chaffee School as the students study waste reduction and recycling. The students are collecting data on the amount of waste produced both on the Loomis campus as well as in Windsor as a whole. The students have the task of studying the scientific, economic and personal benefits of recycling and how the Windsor community could go about reducing waste and increasing recyclables. They will be working as teams to develop proposals for how the information could best be presented to Windsor residents as a form of public education including video or web streaming formats.

Furthermore, Northwest Park continues to offer environmental education in classes for students, public programs, special events and also nature camp during the summer. Solar energy, winter ecology, cycle of life, plants and soils, pond study, geology of Connecticut, insects, mammals, vernal pools, birds of prey and the utilization of the STARLAB planetarium are some of the many programs offered. These programs focus on engaging the children and participants in hands on experiences to promote environmental stewardship.

2.5 Activities Scheduled for Next Year

Activities planned for next year include:

- Install additional catch basin markers throughout Town.
- Expand educational resources.
- Solicit assistance from various citizen groups to help with education and outreach.
- Continued participating in school programs.

3.0 PUBLIC PARTICIPATION

3.1 Community Clean-Ups

The Town Environmental Planner conducted two (2) community clean-ups in 2009. A total of ninety-seven (97) volunteers participated in the two clean-up events. The first event was conducted on April 17, 2009 and focused on collecting trash located along major roads throughout Town. Approximately 1.5 tons of trash was collected in the April 2009 event. The second clean-up was conducted on September 26, 2009 and focused on cleaning the banks of the Connecticut River. Approximately 500 pounds of trash was collected at the September 2009 event.

3.2 School Programs

Students in Windsor public schools are encouraged to volunteer in environmental activities over the summer vacation, in addition to after-school activities. Some of these ongoing programs include:

- Recycling programs
- Earth Day celebrations
- Community clean-up events
- Science fairs

The Loomis Chaffee student project described in Section 2.4 is an example of the type of programs conducted within the schools. Additionally, Sage Park Middle school students were encouraged to

participate in the April 2009 Earth Day clean-up event and students made up a significant portion of the volunteers for the event.

3.3 Stormwater Management Committee

In 2004 the Town established a Stormwater Management Committee to develop and implement the SWMP. Since that time, new members have joined the Committee. The Committee consists of the following Town employees:

- Thomas Lenehan, Town Engineer
- Victoria Houle, Project Engineer
- Cyd Groff, Environmental Planner
- Lauren Good, Assistant Town Planner
- Brian Funk, Public Works Director
- Enita Jubrey, Public Relations, Town Manager's Office
- Charles Petrillo, Director of Health Services
- Michael Pepe, Health Services

3.4 Public Meetings

The SWMP and Phase II Stormwater Program were presented at a Conservation Commission meeting in January 2005. This meeting allowed the public to review and comment on the SWMP. This year's annual report and previous annual reports are made available to the public on the Town's website.

3.5 Activities Planned for Next Year

Activities planned for next year include:

- Conduct community clean-up events in spring and fall.
- Recruit student volunteers and/or interested citizens to assist in the illicit discharge detection and elimination efforts within the Phase II regulated areas.

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION

4.1 Outfall Mapping

In 2005, the Town completed the mapping of all stormwater outfalls of 12” or greater throughout town. The outfall maps include information on over 550 outfalls. These outfall maps include:

- Type, material, and size of the conveyance, outfall or channelized flow; and
- The name of the watershed in which the discharge is located.

The maps are available for review at Town Hall in the Engineering Department.

4.2 Illicit Discharge Detection Ordinance

An Illicit Discharges and Connections Ordinance was adopted by Town Council on April 6, 2009 and became effective on April 20, 2009. The objectives of the ordinance are:

- To regulate the contribution of pollutants to the MS4 by stormwater discharges by any user.
- To prohibit illicit connection and discharges to the MS4.
- To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with the ordinance.

The Town is also in the process of developing and implementing a plan to detect and address future non-stormwater discharges, including illegal dumping, to the MS4. Initially, the Town will evaluate the possibility of combining dry weather screening with the existing mosquito-control program conducted throughout Town during the summer months.

4.3 Activities Planned for Next Year

Activities planned for next year include:

- Update outfall mapping to include new outfall locations.

- Develop and implement a plan to detect and address future non-stormwater discharges, including illegal dumping, to the MS4.
- Train employees to help them identify illicit discharges and properly report and address such discharges.

5.0 CONSTRUCTION SITE RUNOFF CONTROL

5.1 Erosion and Sediment Control Ordinance

An ordinance on Erosion and Sediment Control was adopted by Town Council and became effective on February 2, 2009. The objectives of this ordinance are to safeguard persons, protect property, and prevent damage to the environment in the Town of Windsor by guiding, regulating, and controlling the design, construction, use, and maintenance of any development or other activity that involves land disturbing activities of greater than 0.5-acre. The ordinance formalizes the previous Town staff review of erosion & sediment control measures by requiring an Erosion & Sediment Control Permit to be required for all sites disturbing greater than 0.5-acre. Approval of this permit must be received prior to the commencement of any land disturbing activity.

In addition to the Erosion & Sediment Control Ordinance, a Stormwater Manual was developed and became effective on February 4, 2009 to provide guidance on the requirements of an Erosion & Sediment Control Permit application as well as preferred appropriate erosion & sediment control measures and the design parameters for each type of erosion and sediment control measures.

5.2 Development Reviews

Approximately twenty-one (21) applications for new development or redevelopment projects town-wide were reviewed and approved in 2009. Twelve (12) of these applications were site plan revisions and reviewed by Town staff, the remaining nine (9) were reviewed by the Planning & Zoning Commission. Town staff reviews all proposed developments with respect to stormwater quality impacts. Erosion and sediment control plans are required to be submitted for all development applications greater than 0.5-acre. The Town's Zoning Regulations require the approval of an Erosion & Sediment Control Permit prior to the approval of the pending application. This practice will continue in following years.

5.3 Activities Planned for Next Year

Activities planned for next year include:

- Continue the review of development and redevelopment applications with respect to stormwater impacts and erosion and sediment control measures.

6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT

6.1 Stormwater Management Ordinance

An ordinance on Stormwater Management was adopted by Town Council and became effective on February 2, 2009. The objectives of this ordinance are to:

- Establish decision-making processes surrounding land development activities that protect the integrity of the watershed and preserve the health of water resources;
- Require that new development and redevelopment maintain the pre-development hydrologic response in their post-development state as nearly as practicable in order to reduce flooding, streambank erosion, non-point source pollution and increases in stream temperature, and to maintain the integrity of stream channels and aquatic habitats;
- Establish minimum post-development stormwater management standards and design criteria for the regulation and control of stormwater runoff quantity and quality;
- Establish design and application criteria for the construction and use of structural stormwater control facilities that can be used to meet the minimum post-development stormwater management standards;
- Encourage the use of non-structural stormwater management and stormwater best site design practices, such as the preservation of greenspace and other conservation areas, to the maximum extent practicable, coordinate site design plans, which include greenspace, with the Town's Open Space and Agricultural Preservation Plans;
- Establish provisions for the long-term responsibility for and maintenance of structural stormwater control facilities and non-structural stormwater management practices to ensure that they continue to function as designed, are maintained, and pose no threat to public safety; and

- Establish administrative procedures for the submission, review, approval and disapproval of stormwater management plans, for the inspection of approved active projects, and for long-term follow-up.

The ordinance formalizes the previous Town staff review of stormwater management by requiring a Stormwater Management Permit for all sites creating greater than 5,000 SF of impervious area or that involves other land development activities of 1.0 acre or more. Approval of this permit must be received prior to the commencement of any land disturbing activity. The main requirements of a Stormwater Management Permit are:

1. To demonstrate compliance with the established post-development performance criteria.
2. To execute an Inspection & Maintenance Agreement which identifies the person(s) responsible for inspection and maintenance as well as a schedule for routine inspection and maintenance to ensure proper function of all stormwater management facilities and/or practices. The Inspection and Maintenance Agreement must be recorded in the Land Records maintained by the Windsor Town Clerk.

Additionally, applicants required to obtain a Stormwater Management Permit are also required to conduct inspections of the post-development stormwater management systems throughout construction and to submit “as-built” plans of the system after final inspection by the Town Engineer.

The Town Stormwater Manual provides guidance on the requirements of a Stormwater Management Permit as well as the post-development stormwater management performance criteria applicable to all stormwater management plans.

6.2 Development Reviews

Approximately twenty-one (21) applications for new development or redevelopment projects town-wide were reviewed and approved in 2009. Twelve (12) of these applications were site plan revisions and reviewed by Town staff, the remaining nine (9) were reviewed by the Planning & Zoning Commission. Town staff reviews all proposed developments with respect to stormwater

quality impacts and proposed stormwater management. The Town's Zoning Regulations require the approval of a Stormwater Management Permit prior to the approval of the pending application. This practice will continue in following years.

6.3 Best Management Practices

The Town of Windsor currently utilizes guidance from the 2004 Connecticut Stormwater Quality Manual for evaluating and selecting both structural and non-structural stormwater management measures. The Town finalized a Stormwater Manual which includes the specifications and standards for post-construction stormwater management. It is the Town's intention to expand the Stormwater Manual to include a list of best management practices preferred by the Town for use by developers, citizens, and staff.

6.4 Activities Planned for Next Year

Activities planned for next year include:

- Continue the review of development and redevelopment applicants with respect to proposed post-construction stormwater management design.
- Expand the Town's Stormwater Manual to include Windsor-preferred best management practices.

7.0 POLLUTION PREVENTION/GOOD HOUSEKEEPING

7.1 Employee Training

Approximately thirty-five (35) Department of Public Works (DPW) staff (representing administrative and highway staff) received environmental-related training this year. The training included Chemical Hazard and Emergency Response and Right to Know training.

Stormwater training for DPW and other Town employees was conducted in December 2009. The training was conducted in conjunction with annual training required by the CT DEP's Industrial Stormwater Permit for the highway garage and parks garage. The training included education on goals and objectives of the Phase II program, pollution prevention for public works activities, waste

management, and good housekeeping. A copy of the training handouts and employee attendance log is included in Appendix B.

7.2 Street Sweeping

All Town-owned roadways and parking areas were swept at least once during this year. Visual inspections and historical knowledge of roadways are used to identify streets within Town that require sweeping more than once per year. In addition, the use of sand during snow and ice removal activities in the winter was significantly reduced. This resulted in reduced quantities of sand being swept up during spring street sweeping and will have an ongoing impact on the amount of material requiring removal during catch basin cleaning.

7.3 Catch Basin Cleaning

The Town continued its efforts to clean Town-owned catch basins. In 2009, approximately 1400 catch basins were cleaned. The Town's current catch basin cleaning schedule is designed so that each catch basin is cleaned at least once during a three-year period. A program is being developed by Public Works staff and the Health Department to evaluate catch basins and other stormwater structures that accumulate sediment at least once per year, including a provision to identify and prioritize those structures that may require cleaning more than once a year.

7.4 Preventative Maintenance

Routine preventative maintenance is performed at the highway garage on the Town's fleet of equipment and vehicles.

7.5 Windsor-Bloomfield Landfill

The Windsor-Bloomfield Landfill accepts household trash, recyclables, yard waste, waste motor oil, tires, appliances and bulky items such as furniture and mattresses. Over 13,000 tons of municipal solid waste was collected in 2009. Approximately 4,600 tons of demolition debris and 450 tons of scrap metal were collected. Over 1000 tons of leaves and brush were composted. Furthermore, the 2009 MDC Household Hazardous Waste Collection Day included the collection of acids,

aerosols, batteries (alkaline, lead-acid, lithium, and Ni-Cad), flammable liquids, fluorescent bulbs, mercury-containing items, pesticides, and PCB ballasts.

7.6 Activities Planned for Next Year

Activities planned for next year include:

- Continue providing environmental-related and stormwater management training to DPW and other Town staff.
- Continue sweeping Town-owned streets in spring after snowmelt.
- Continue cleaning catch basins.

8.0 STORMWATER QUALITY TESTING

The MS4 General Permit requires the Town to complete annual stormwater quality testing on six outfall locations which represent the overall nature of each respective land use type: industrial, commercial, and residential. Six outfall locations were selected in Windsor for stormwater quality testing in an attempt to cover different geographic locations, different watersheds, and different receiving waters.

The following locations have been sampled annually since 2004 and were sampled in 2009:

- 800 Marshall Phelps Road (Industrial)
- 615 Day Hill Road (Industrial)
- 1075 Kennedy Road (Commercial)
- 555 Day Hill Road (Commercial)
- 124/128 Harvest Lane (Residential)
- 21-27 Philip Henry Circle (Residential)

The stormwater monitoring reports for 2009 testing are included in Appendix C.

APPENDIX A

Educational Materials Distributed

Celebrating 29 years of serving children – now enrolling!

Windsor Discovery Center's Child Care Program serving children ages 3 months to 12 years.

- Infant/Toddler
- Preschool
- Before and After School Schedules
- NAEYC accredited / degreed staff
- 6:45 AM to 5:30 PM, 5:30 PM to 7:00 PM available
- Activities include: homework, art, computer, games, outdoor/gym play, talent show, Second Step curriculum
- Transportation to and from all public and private Windsor elementary schools and Sage Park Middle School.



August 3: Pick up your free ticket for our It's a **Wrap Up Party!** beginning today at the Windsor Public Library. See August 19 for details or call 285-1914.

August 8: Today, from 11:00 AM to 2:00 PM, the Wilson Branch Library will sponsor a field trip to the **Children's Museum**. We'll leave the library at 11:00 AM and there will be a 1:00 PM showing in the planetarium. Departure time from the museum will be 1:45 PM. The cost is \$10.00 per person. Children and adults are invited. \$10.00 per person. 247-8960 to register.

August 19: All summer we read books, magazines, comic books and even the sports pages, then got creative at Windsor Public Library. Now, It's a **Wrap Up Party!** where we celebrate by wrapping our library building in a giant mural created by the children and adults at the library, à la Christo the famous American environmental artist. We'll need lots of help and lots of tape. So join us from 6:00 PM to 8:00 PM and please bring a roll of gaffers tape. Then we'll make some ice cream sundaes, give out book prizes, and enjoy our creation. Rain date is August 21. Register beginning August 3. Free. 285-1914.

Monthly fee is inclusive of all school vacations, holidays, snow days, and professional days

July 23: Visit the **Open Mural Studio** at the Windsor Public Library today from 10:30 AM to 11:30 AM and add your drawing to our work in progress. Free. 285-1914.

July 24: Children ages 3 to 6 are welcome at the Windsor Public Library for a storytime about **Daring Dragons** today from 11:00 AM to 11:45 AM. There will be stories, activities and a sprinkle of whimsy. Free. 285-1914.

July 28: Come to the **Kids Talent Show** from 7:00 PM to 8:15 PM at Windsor Public Library to watch as our Windsor children ages 5 to 12 demonstrate their talent and creativity. The show includes performances selected by our judges at the Talent Show Tryouts on July 14. Free. 285-1914.

July 29: Book Pals continues today from Noon to 1:00 PM at Windsor Public Library. This is our final meeting and we'll be celebrating with ice cream and certificates. See June 24 for registration details. Free. 285-1914.

July 29: The **Children's Museum** will present some of the most interesting reptiles and amphibians at the Wilson Library today from 1:00 PM to 2:00 PM. Children and adults are invited to meet some of the world's most interesting animals. The Children's Museum provides rich learning experiences in science and nature for all ages. Free. 247-8960 to register.

July 30: Visit the **Open Mural Studio** at the Windsor Public Library today from 10:30 AM to 11:30 AM and add your drawing to our work in progress. Free. 285-1914.

August

August 3: Registration is ongoing for the **Tree House** program, a before and after school program available at each of the elementary schools in Windsor, that provides on-site care for your school age child. Fees vary according to schedule. 687-2000 ext. 237.

Storm Drain Marking. A Program to Benefit Long Island Sound

Storm Drains will be marked to say "Drains to Waterways and Long Island Sound, No Dumping." As part of continuing efforts to preserve and protect Long Island Sound, volunteers from local civic groups are needed to apply storm drain markers between June and September. This year the working area will be from Gloria St. east to Plymouth St. and south to Woody Brook Road. Volunteers apply markers as part of an overall effort to reduce non-point source pollution in Long Island Sound.

Do your part to improve water quality in Long Island Sound with these handy tips:

- * Clean up after your pets (it's a town ordinance).
- * Wash your car on your lawn.
- * Leave grass clippings on your lawn.
- * Prevent leaves and litter from entering the storm drain.
- * Dispose of motor oil, paints and other chemicals properly.
- * Use gravel and crushed stone for home improvements.
- * Include vegetated buffers in your landscaping plan.

If your group would like to participate in this community service project, contact the town's Environmental Planner at 285-1987.

Everyone

March 14: Get your garden ready for the spring at the Windsor Branch Library today from 10:30 AM to 11:30 AM. Back by popular demand, Gordon Kenneson our local gardening expert, will be on hand to give tips and answer questions about getting your yard ready for the spring and summer. Gordon is a veteran teacher in the Windsor Adult Education Program and has his own gardening show on WIN-TV. This program is sponsored by the Windsor Library Association and open to the general public. Free. 247-8960 to register.

March 14: Tonight is the 27th Annual "Beat the Clock Auction" fundraiser at the Congregation Beth Ahm, 362 Palisado Avenue (Rte. 159) in Windsor. This action packed evening features a variety of auctions including a door prize raffle, balloon auction, live auction, blind auction and the ever popular "beat the clock" auction. Giftware, celebrity memorabilia, certificates for restaurants, entertainment and hotels. Preview auction items beginning at 7:00 PM and auction begins at 7:30 PM. \$10.00 adults, \$5.00 under 12. 688-9989.

March 16: The Windsor Town Council will meet tonight from 7:30 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1800.

March 17: Diabetic Support Group meets today at the L.P. Wilson Community Center from 1:00 PM to 2:15 PM. Hear from a knowledgeable expert on diabetes and talk with others who are diabetic. Open to those with diabetes and their family members. Free. 285-1839.

March 17: Windsor's Caregiver's Support Group meets tonight at the L.P. Wilson Community Center from 6:00 PM to 7:30 PM. Participants have the chance to share information, learn from each other and hear speakers on a variety of topics. A light supper will be served. Free. Call 285-1839 to make a reservation.

March 17: St. Patrick's Day Concert of Folksongs and Tunes from Ireland will be held at the Windsor Historical Society from 7:00 PM to 8:00 PM. Celtic folk duo Bruce and Sandy Hedman of Tara's Thistle will perform and tell you about Irish culture in Windsor. \$6.00 adults, \$5.00 seniors and students, \$4.00 members. \$1.00 discounts to anyone wearing green. 688-3813 or windsorhistoricalsociety.org

March 17: Monthly meetings for the Windsor Junior Woman's Club are held at the L.P. Wilson Community Center every third Tuesday through May 26. Social time begins at 7:00 PM and is followed by the business meeting from 7:30 PM to 9:00 PM. Find out how you can become more involved in your community while having some fun and meeting new friends. Free. 219-9487.

March 17: The Windsor Board of Education will meet tonight from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 687-2000.

March 18: The Windsor Economic Development Commission will meet today from noon until adjournment in the Ludlow Room at Town Hall. Free. 285-1877.

March 18: Windsor Public Library hosts a four-part book discussion series, "**All in the Family,**" from 7:00 PM to 8:30 PM. Tonight's book is *When I Was Puerto Rican* by Esmeralda Santiago. Copies of the book are available at the library. Free. Call 285-1918 to register.

March 18: The First Church in Windsor will host a **drumming circle** from 7:00 PM to 8:00 PM in the church meetinghouse. Bring a drum if you have one as there are a limited number of drums available. For ages 10 to 110. No experience necessary. Free. 688-7229.

March 18: The Windsor Zoning Board of Appeals will meet today from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1960.

March 19: The Windsor High PTSA (Parent-Teacher-Student Association) will meet tonight from 7:00 PM to 8:30 PM in the Library/Media Center at Windsor High School. Membership applications will be available tonight as well. Get involved, share your concerns and ideas and find out what's happening. All are welcome; refreshments will be served. Free. 688-6725 or visit windsorct.org/whs/ptsa

Protect Our Streams & Wetlands by using organic or slow release fertilizers for your spring yard application. This prevents excess nitrates and phosphates from running into the water and causing algae blooms as well as other ecological problems.

Watch Out for Wildlife – Tips for Driving:

- Be particularly alert when driving in wildlife areas, e.g. fields and stream crossings
- Slow down and increase the distance between you and other cars
- Dawn and dusk are the peak times for wildlife movement and driver's visibility is lowest
- Be especially careful if you are on a motorcycle
- Think like an animal – be familiar with wildlife behavior – your car is not a natural predator and the animal does not know to get out of your way or how
- Don't litter! It attracts wildlife to the edge of the road increasing the possibility of collision
- If you see wildlife in or near the road, brake firmly and stop until the animal or group of animals have moved out of the roadway; do not try to drive through a group or get out of your car.

March 19: The Windsor Republican Town Committee will meet tonight from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 478-9894.

March 20: There's a Craft Night tonight for people with cognitive and or physical disabilities and their families from 6:00 PM to 8:00 PM at the 330 Windsor Avenue Community Center. Participants of all ages and abilities can spend the evening designing your very own craft to take home and show off. Light Refreshments and drinks will be provided. All participants must be accompanied by an adult. Please register in advance at the recreation center or at townofwindsorct.com. \$3.00 per person. 285-1990.

March 21: Don White is a working class family man from Lynn, Massachusetts and has emerged as a thoughtful songwriter. Come out to the **Northwest Park Coffeehouse** to hear Don from 7:30 PM to 10:00 PM tonight. Sponsored by the Friends of Northwest Park. You can purchase tickets online at northwestpark.org. \$15.00. 285-1886.

EVERYONE

May 7: An opening reception for an exhibition of work by visual artists, Kristina Newman Scott and Scott McKiniss entitled **Hackcent Paintings and The Rainbow Connection** will be held from 6:00 PM to 8:00 PM tonight at the Windsor Art Center. The Art Center is located on Mechanic Street in Windsor center. This exhibition will run through June 27. Free. windsorartcenter.org

May 8: The annual **Sheila Schmidt Fishing Tournament** will take place at Washington Park from 6:00 PM to 8:00 PM today. The Windsor Jaycees are stocking the pond with trout and are inviting families to come fish, have some dinner and enjoy springtime in Windsor. This event is named for Sheila Schmidt, Windsor's first Special Education teacher and lifelong advocate for children, The Jaycees will supply the fishing poles, bait and dinner (for people). Additional chaperones are welcome. Free. 298-8557.

May 9: The Windsor Garden Club's annual fundraiser, the "**Garden Mart,**" will be held today on the town green from 8:00 AM to noon. Hardy perennials will be available to the public for a small donation. Come find the perfect plant for your garden! Proceeds go toward the WGC scholarship that is given to a Windsor High School student each year. New members are welcome. Free. 708-3001 (pager).

May 9: All cats and dogs three months of age and older must be vaccinated against rabies. Today from 2:00 PM to 4:00 PM a **Rabies Vaccination Clinic** will be held at the L.P. Wilson Community Center. Written proof (not tags) of prior vaccination for rabies or a current dog license must be presented to qualify for a three year certificate. A one year certificate will be given to all others. Families with Connecticut state Medical Card (Medicaid) may present the card for one free vaccination. For everyone's safety, please ensure all dogs are leashed and all cats are in carriers. \$15.00 per animal, cash only please. 285-1824.

May 9: Moms and their children are invited to enjoy a special guided Mother's Day nature walk, **Naturally for Mom** at Northwest Park from 10:00 AM to 11:00 AM. All moms will receive a special Mother's Day gift. Juice and snacks are provided. Registration is needed for planning purposes. In the event of inclement weather, the program will be canceled. \$3.00 per person. Children age 2 and under are free. 285-1886. Activity number 2252.024

May 9: Mother's Day is tomorrow so make plans to attend the **Lion's Club Spring Arts and Crafts show** today from 8:00 AM to 4:00 PM on the Windsor Town Green. The green will be filled with arts and crafts booths of all kinds and food and beverages will be for sale. Exhibitors can call 688-5393 to reserve booth space. Free. 683-0340.

May 9: Come to Windsor Public Library today from 2:00 PM to 3:00 PM to hear Windsor author Fay Taylor talk about her recently published book, **Steel: A Memoir**. Her story begins during a long overdue weekend holiday in the Poconos that quickly turns tragic for young Fay Taylor and her husband Charley when she is thrown from a horse. The fall results in a broken back and severe spinal cord injuries. Her memoir takes readers through the tragedy and triumph in the life of a woman who suffered a traumatic spinal cord injury and had the strength to make a remarkable recovery. Copies of the book will be available for purchase and signing. Free. 285-1918 to register.

May 11: The **Windsor High School PTSA** will meet this evening from 7:00 PM to approximately 8:30 PM in the WHS School Library. The public is invited. Free. 687-2020.

May 11: Become a confident communicator at **Windsor Toastmasters**. Do you want to speak effectively in front of groups? Learn public speaking and leadership in our friendly and relaxed educational environment from

7:00 PM to 8:30 PM at the L.P. Wilson Community Center. 688-1192 or <http://windsor.freetoasthost.info/index.html>

May 12: The Windsor **Public Building Commission** will meet tonight from 7:00 PM until adjournment in the Ludlow Room at Town Hall. Free. 285-1870.

May 12: Windsor C.A.R.E.S. (Citizens Assisting Residents Everywhere by Sharing) meets today at the L.P. Wilson Community Center from 1:00 PM to 2:00 PM. Here's an opportunity to get involved in community service projects that benefit others such as making sandwiches for homeless people, adopting a family, preparing and serving a meal at a shelter and more. Volunteer for as little or as much as you can. Free. 285-1839.

May 12: Join us tonight at the L.P. Wilson Community Center from 7:15 PM to 9:30 PM for a **Free Demonstration of Egg Tempera Painting** by Laura Eden, sponsored by the Windsor Palette & Brush Club. Learn techniques of painting with this fast drying medium. All are welcome to watch this talented artist at work. Visit her website at www.laurajeden.com/index.htm. Refreshments will be served. Free. 688-1084.

May 12: The Windsor **Town Planning and Zoning Commission** will meet tonight from 7:00 PM to adjournment in the Council Chambers at Town Hall. Free. 285-1980.

Summer "Green" Tips

Here are some simple things you can do to improve the environment in Windsor and some that will improve every town along the Connecticut River.



- If you wash your car at home, wash it on your lawn instead of your driveway to filter out the soap before it goes into the catch basin in the street; use a non-chelating liquid without phosphates.
- Retire your car or at least give it a day off each week. Every gallon of gas produces 20 pounds of CO₂. Summer is a great time to walk.
- Plant new trees. Each tree removes an average of 13 pounds of carbon dioxide each year and converts it to oxygen.
- Buy organic food. The chemicals used in modern agriculture not only pollute the water, they require energy to produce. Some chemicals have also been linked to cancer and other health problems.
- Buy local! The food is fresher and you cut down on transportation and air pollution.
- Insect repellent: don't use scented colognes, shaving lotion, shampoo, or deodorant when going outdoors; use chamomile tea as a lotion; burn citronella candles or mosquito coils, install a bat house (call 285-1987 on how & where to do this).

May 30: Going to the movies can be so expensive! Instead, bring a blanket and pillow to Northwest Park for a special indoor viewing of a section of **The Planet Earth Series** from 7:00 PM to 9:00 PM. Bring the family, or your sweetie, for a special movie night out featuring images of the Earth as "you've never seen it before!" Recommended for ages 8 and above. Popcorn and refreshments will be available for sale. 285-1886.

May 31: The 4th annual "Walk for Chance" **Dog Walk, Fair and Show** will be hosted by the First Town 4-H Club at Northwest Park from 9:00 AM to 4:00 PM. Pledges will be collected to raise money for training and placement of service dogs. A 5K cross country race, 1-2 mile dog walk, entertainment, a silent auction plus much more is planned. For registration fees and more information visit dogwalk.org 688-2245.

June

June 1: Pick up your **Passport to Summer Fun** at the Windsor Chamber of Commerce Office located at 261 Broad Street and enjoy an array of casual dining in Windsor including Chinese, Japanese, Indian, Italian and American restaurants. Have fun dining out with family and friends while earning stamps towards prizes valued at more than \$1,500. 688-5165 or register online at windsorcc.org

June 1: The Windsor **Town Council** will meet tonight from 7:30 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1800.

June 2: Felicia Ortner, DEP Master Wildlife Conservationist, will present a slideshow and discuss the history, facts and myths about **Black Bears in Connecticut** today at the Windsor Public Library from 7:00 PM to 8:30 PM. Much of Connecticut's landscape is now forested and is suitable for black bears. The rapid increase in the bear population between the 1980s and early 2000s is expected to continue. As the bear population expands, interactions between humans and bears will increase. It is important that people learn to adapt to the presence of bears and take measures to avoid damage and problems. Learn what to do if you see a bear and how to avoid unnecessary conflicts that could be harmful to both the bear and you. Free. 285-1918 to register.

June 2: The Windsor **Inland, Wetlands and Watercourses Commission** will meet tonight from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1987.

June 2: The Windsor **Commission on Aging & Handicapped** will meet tonight from 7:00 PM until adjournment in the Ludlow Room at Town Hall. Free. 285-1992.

June 3: The **Noontime Concert Series** is today from 12:05 PM to 12:45 PM in the First Church meetinghouse, 75 Palisado Avenue, Windsor, CT. The third season concludes with "June is Bustin' Out All Over," featuring favorite Broadway tunes. Program is followed by coffee and "bring your own" lunch in the Parker Room. Handicap accessible. The noontime concert series will resume in September. Free, but donations accepted. Proceeds benefit the First Church Organ Capital Improvements Fund. 688-7229 or first.church.windsor@snet.net

June 3: The Windsor **Youth Commission** will meet tonight from 7:00 PM until adjournment in the Ludlow Room at Town Hall. Free. 298-9976.

June 4: It's **Classic Movie Night** at the Windsor Public Library and tonight it's *Born Yesterday*, starring Judy Holliday and William Holden. Old film classics are shown on the first Thursday of each month in the Windsor Public Library Meeting Room. Doors open at 6:30 PM, the films start at 7:00 PM and will conclude by 8:45 PM. Free. 285-1918.

June 4: The Windsor **Democratic Town Committee** will meet tonight from 7:30 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1957.

June 4: The Windsor Chamber of Commerce, First Town Downtown, Windsor Federal Savings and Windsor Businesses are offering specials, entertainment and events on the **First Thursday** of each month. Specials and activities are from 5:00 PM to 7:00 PM (or later). Enter at each location to win a \$50.00 Chamber Gift Certificate. Enjoy an early dinner at one of the restaurants and then head off to the shops for some great activities and bargains. 688-5165 or 683-8410 or visit windsorcc.org

June 5: The **Windsor Chamber of Commerce 60th Annual Dinner**, "Night at the Oscars" will be held at the Hartford Windsor Marriott from 6:00 PM to 10:00 PM. Who will win the Oscar for best citizen,

student entrepreneur of the year, Chamber member of the year, Business of the year and more! Officers and new board members will be installed. \$55.00. 688-5165 or visit online at windsorcc.org

June 6: Today is **Household Hazardous Waste Day** so open up the cabinets and search the garbage for all the household hazardous waste. Bring it to the MDC Water Pollution Control Facility at 1222 Poquonock Avenue from 8:00 AM to 1:00 PM. They will accept pesticides, lawn and pool chemicals, gas, kerosene, antifreeze, driveway sealer, cleaning products, fluorescent lights and mercury thermometers. Stuff you can't bring includes latex paint, car batteries, tires, propane gas tanks, asbestos, motor oil, explosives and garbage. If you can't get to the MDC today, call 285-1833 and we'll give you the dates for drop off dates in other communities. Free.

June 6: Spend the night at Northwest Park for a **Family Campout Under the Stars** beginning at 1:00 PM on Saturday through 9:00 AM Sunday, June 7. This overnight experience is filled with family fun activities, such as canoeing, hiking, geocaching, and a campfire with s'mores, all in honor of National Trails Day. We will provide dinner and a light breakfast. There are tents available on a first come, first served basis. \$15.00 (Windsor resident), \$20.00 (non-resident) individual. Activity number 2252.026. \$40.00 per family (Windsor resident), \$45.00 (non-resident). Activity number 2252.027. 285-1886.

June 8: Become a confident communicator at **Windsor Toastmasters**. Do you need to brush up your interviewing skills? Learn public speaking and leadership in our friendly and relaxed educational environment. We meet from 7:00 PM to 8:30 PM at L.P. Wilson Community Center. 688-1192 or <http://windsor.freetoasthost.info/index.html>

June 9: Windsor C.A.R.E.S. (Citizens Assisting Residents Everywhere by Sharing) meets today at the L.P. Wilson Community Center from 1:00 PM to 2:00 PM. Here's an opportunity to get involved in community service projects that benefit others such as making sandwiches for homeless people, adopting a family, preparing and serving a meal at a shelter and more. Volunteer for as little or as much as you can. Free. 285-1839.

April 13: The **Windsor Garden Club** meets tonight from 7:00 PM to 9:00 PM at the L.P. Wilson Community Center. Francis Revay, of Revay Garden Center in East Windsor, will give a presentation on container gardening. Francis will discuss and demonstrate planning and preparation of stunning annual combinations for your flower pots, window boxes, and gardens. New members and visitors are welcome. Free. 708-3001 (pager).

April 13 – 17: Be a **Green Colonial Child** during this vacation week through April 17 at the Windsor Historical Society by participating in a series of earth friendly activities including garden planting, historic bicycle rides and recycling challenges from 10:00 AM to 1:00 PM. Adults must accompany children at all times. \$10.00 per family, or \$5.00 adults, \$4.00 seniors, or \$3.00 for WHS members. 688-3813 or windsorhistoricalsociety.org

April 14: Windsor C.A.R.E.S. (Citizens Assisting Residents Everywhere by Sharing) meets today at the L.P. Wilson Community Center from 1:00 PM to 2:00 PM. Here's an opportunity to get involved in community service projects that benefit others such as making sandwiches for homeless people, adopting a family, preparing and serving a meal at a shelter and more. Volunteer for as little or as much as you can. Free. 285-1839.

April 14: The **Windsor Public Library** will show the film, *To Kill a Mockingbird* tonight from 7:00 PM to 9:00 PM. Join the book discussion on April 7, then come to a viewing of this classic film version starring Gregory Peck. Free. 285-1918.

April 14: Windsor Jaycees Meeting tonight from 7:00 PM to 9:00 PM at Windsor 75 Diner Restaurant at 35 Poquonock Ave. The Jaycees meet every second Tuesday of the month. See details about our club in the January 13 listing in this magazine. Contact us at president@windsorjaycees.com. If you are between the ages of 18 and 40 you are eligible to be a Jaycee. 683-0384 or windsorjaycees.com



April 14: Attend an **Oil Painting Demonstration by Linda Lilling** from 7:15 PM to 9:30 PM at the L.P. Wilson

Community Center, sponsored by the Windsor Palette & Brush Club. This award winning artist will do a still life in oils. Refreshments will be served. Free. 298-0743.

April 14: The **Windsor Board of Ethics** will meet tonight from 7:00 PM until adjournment in the Dr. Primus Room at Town Hall. Free. 285-1800.

April 14: The **Windsor Public Building Commission** will meet tonight from 7:00 PM until adjournment in the Ludlow Room at Town Hall. Free. 285-1870.

April 14: The **Windsor Town Planning and Zoning Commission** will meet tonight from 7:00 PM to adjournment in the Council Chambers at Town Hall. Free. 285-1980.

April 15: Windsor Chamber of Commerce Business After Hours will be hosted by Windsor Federal Savings located in North Central Square from 6:00 PM to 7:30 PM. Enjoy refreshments, a raffle and networking with other Chamber members. Free to Windsor Chamber and Metro Hartford Chamber members, \$5.00 for non-chamber members. 688-5165.

April 15: The First Church in Windsor will host a **drumming circle** from 7:00 PM to 8:00 PM in the church meetinghouse. Bring a drum if you have one as there are a limited number of drums available. For ages 10 to 110. No experience necessary! Free. 688-7229.

April 15: The **Windsor Zoning Board of Appeals** will meet today from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1960.

April 16: The **Windsor Republican Town Committee** will meet tonight from 7:00 PM until adjournment in the Council Chambers at Town Hall. Free. 478-9894.



April 17: Earth Day Clean up

is today. You can make a difference! Get your friends and relatives and feel good about doing something for your town by volunteering. We'll work in groups from noon to 4:00 PM. Gloves and refreshments provided. Free. Meet behind Town Hall at noon or call 285-1987 to sign up.

April 17: Don't miss **5-Alive**, an evening for people with cognitive and or physical disabilities and their families that will be filled with different activities to awaken all your senses. It will take place from 6:00 PM to 8:00 PM at the 330 Windsor Avenue Community Center. You'll partake in different stations that will include cooking, crafts, and games and every child goes home with a filled goodie bag. 5-Alive is guaranteed to be an off the wall good time. All participants must be accompanied by an adult. Please register in advance at the recreation center or at townofwindsorct.com. \$3.00 per person. 285-1990.

April 18: Enjoy the genre-bending acoustic music of the string band Rani Arbo & Daisy Mayhem from 7:30 PM to 10:00 PM tonight at the **Northwest Park Coffeehouse**, sponsored by the Friends of Northwest Park. You can purchase tickets on-line at northwestpark.org. \$17.00. 285-1886.

April 20: A Special Poetry Reading Program featuring members of the Windsor Library Poetry Writers Group will be presented from 7:00 PM to 8:30 PM. Local poets will share their poems and discuss the writing process. Light refreshments will be served. Free and open to the general public, call 285-1918 to register.

April 21: Diabetic Support Group meets today at the L.P. Wilson Community Center from 1:00 PM to 2:15 PM. Hear from a knowledgeable expert on diabetes and talk with others who are diabetic. Open to those with diabetes and their family members. Free. 285-1839.

April 21: Windsor's Caregiver's Support Group meets tonight at the L.P. Wilson Community Center from 6:00 PM to 7:30 PM. Participants have the chance to share information, learn from each other and hear speakers on a variety of topics. A light supper will be served. Free. Call 285-1839 to make a reservation.

April 21: Monthly meetings for the **Windsor Junior Woman's Club** are held at the L.P. Wilson Community Center every third Tuesday through May 19. Social time begins at 7:00 PM and is followed by the business meeting from 7:30 PM to 9:00 PM. Find out how you can become more involved in your community while having some fun and meeting new friends. Free. 219-9487.

EVERYONE

September 19: Slow down and enjoy a 10 mile **Historic Bike Tour of Poquonock** with Windsor Historical Society Educator, Julia Baldini, from 10:00 AM to noon. Tour will start and end at the Elm Grove Cemetery on Poquonock Avenue. Participants must wear comfortable clothing and a helmet and make reservations by September 18. \$6.00 adults, \$5.00 seniors and \$4.00 students and Windsor Historical Society members. 688-3813 or windsorhistoricalsociety.org

September 19: "Illusory Meeting Places", an exhibition celebrating a twenty-five year dialogue between two New England artists, Karen Dolmanisth and Kathryn Myers, opens with a 6:00 PM to 8:00 PM reception at the **Windsor Art Center**. Myers, Professor of Art at The University of Connecticut, will present selected works from 1984 through the present and Dolmanisth, who teaches at The University of Massachusetts, Amherst, will create a site-specific installation. From September 20 through November 1, the show, at 40 Mechanic Street in Windsor center, is open Thursdays 6:00 PM to 8:00 PM, Saturdays 10:00 AM to 4:00 PM and Sundays 11:00 AM to 4:00 PM. Free. 688-2528.

September 19: Howling Neighbors – **Coyotes:** Join Connecticut DEP wildlife biologist Paul Rego at Northwest Park tonight from 7:00 PM to 8:30 PM for a fascinating look at the coyote. Learn about the life history of these animals that are seen in Windsor. A walk to call coyotes at night is included. \$3.00 per person (Windsor residents) and \$5.00 (non-residents). Recommended for ages 8 and above. Registration required. 285-1886. Activity Number 2252.031

September 21: The **Windsor Town Council** will meet tonight from 7:30 PM until adjournment in the Council Chambers at Town Hall. Free. 285-1800.

September 22: The **Windsor Public Building Commission** will meet tonight from 7:00 PM until adjournment in the Ludlow Room at Town Hall. Free. 285-1870.

September 22: Windsor Community Television will hold its monthly meeting at the studio located at the L.P. Wilson Community Center from 7:00 PM to 8:00 PM. Free. 688-2626 or visit win-tv.org

Family Fun Evenings at the L.P. Wilson Community Center

The Youth Services Bureau will be offering their popular family events once a month this year! Enjoy games, crafts, music, bounce house and lots of fun for families! Plan on an affordable and fun evening out for the whole family at the L. P. Wilson Community Center monthly throughout the year. Admission includes treat bags and prizes. Food will also be available for sale at our "festival café." \$3.00 per person or \$8.00 per family each event, payable at the door. 860-285-1990.

September 25	6:00 PM to 8:30PM	Family Day
October 23	6:00 PM to 8:30PM	Night of 1001 Pumpkins
November 20	6:00 PM to 8:30PM	Hollywood Fest
December 18	6:00 PM to 8:30PM	Winter Magic

September 23: Local scholar Jack Brin will present a fascinating two-part program that combines great works of art with music. Part 1, **American Landscape Artists of the Nineteenth Century**, begins tonight from 7:00 PM to 8:30 PM at the Windsor Library. Jack is a retired music professor whose love of both art and music led him to combine the two into a DVD format that he uses as a backdrop for this lecture program. See October 28 listing for information on the second program. Free. 285-1918.

September 23: The **Wilson/Deerfield Advisory Committee** will meet tonight from 7:00 PM until adjournment in the Activity Room of the Community Center at 330 Windsor Avenue. Free. 285-1985.

September 23: Are you doing business in Windsor? Are you looking for a common sense approach to growing your business? Then the **Windsor Business Connection** is for you! Please join us at the Windsor 75 Restaurant at 35 Poquonock Avenue, Windsor from 7:30 AM to 8:30 AM on the second and fourth Wednesday of each month. Windsor Business Connection is a great way to meet other local business owners. The meetings will offer opportunities for sharing information about your business, as well as referrals and testimonials. Please bring your business cards and we'll provide the coffee! Free for Chamber members, Tobacco Valley Chamber members, Metro Hartford Chamber members and local businesses. For more information and to register, call 688-5165 or online at windsorcc.org

September 24: Share Group for Millbrook residents will meet in the Millbrook Village Community Room today from 10:30 AM to 11:30 AM. Guest speaker will be on a topic of interest. Light refreshments served. Free. 285-1842.

September 26: Join us for the **Northwest Park Country Fair** today from 10:00 AM to 4:00 PM. It is one of Windsor's most wonderful traditions! All day activities include youth and adult crafts, games, food and refreshments. Other activities include the famous boxed lunch auction, pony rides, hay rides, a colonial dress competition, bingo, musical entertainment, flower, kitchen and garden competitions, a pumpkin chucking contest, the famous egg drop and much more. Volunteers are always needed and greatly appreciated. If you'd like to help, call 798-2183. Rain date is September 27, 2009 from noon to 4:00 PM. \$2.00 per person. 285-1886.

September 26: Don't miss the **Safety Fair** held as part of the Northwest Park Country Fair today at Northwest Park from 10:00 AM to 4:00 PM. Sponsored by the Windsor Early Childhood Council, the Windsor Health Department and Windsor Police Department, the fair will feature hands on activities, face painting, door prizes and much more. Bike and multi-sport helmets of all sizes will be available for \$10.00.

September 26: Today from 9:00 AM to 12:30 PM, join with residents along the Connecticut River from Vermont, Massachusetts, and Connecticut to make a positive difference in the health of the River at **Connecticut River Cleanup Day**. We'll meet in the rear parking lot at Town Hall at 8:45AM to carpool to locations. Gloves and bags will be provided for clean up. Beverages and snacks will be available. 285-1987 to sign up!

September 26: Take a step back in time at **Colonial Days** held at the Windsor Historical Society from 10:00 AM to 4:00 PM. Speak with a cooper, blacksmith, coppersmith, potter and see how food was cooked by colonists long ago. Free. 688-3813 or windsorhistoricalsociety.org

APPENDIX B

Stormwater Training Materials

Presentation to

Windsor Department of Public Works

ANNUAL STORMWATER TRAINING

Phase I and Phase II

December 2009



ANNUAL STORMWATER TRAINING

Victoria Houle
Project Engineer
Town of Windsor
275 Broad Street
Windsor, CT 06095



Annual Stormwater Training

US Environmental Protection Agency

- Phase I Stormwater Program - 1990
 - Designed to regulate discharges from municipalities with populations greater than 100,000 (Boston, Worcester, and Stamford, CT)
 - Construction sites greater than 5 acres
 - Stormwater discharges "Associated with Industrial Activities" (40 CFR 122.26)
- Phase II Stormwater Program - 1999
 - Targets small communities "urbanized areas"
 - Goal is to reduce the discharge of pollutants to the "maximum extent practicable"
 - Storm water plans must be in place by March 10, 2003
 - Plans must be fully implemented by March 10, 2005

Phase I Stormwater Program

CT DEP "General Permit for the Discharge of Stormwater Associated with Industrial Activity"

- Standard Industrial Classification Code
- Outdoor Material Storage

Windsor:

- Public Works Facility (99 Day Hill Rd)
- Parks Garage (69 Mechanic Street)
- Windsor-Bloomfield Landfill

Stormwater Pollution Prevention Plan

Pollution Prevention Team

- Designated personnel
- Contact information in SWPPP
- Responsible for:
 - Implementing
 - Maintaining
 - Revising the Plan



Stormwater Pollution Prevention Plan

Pollution Prevention Team

- Public Works Facility
 - Brian Funk
 - Wayne Radke
- Parks Garage
 - Brian Funk
 - Wayne Radke



Stormwater Pollution Prevention Plan

Description of Potential Pollutant Sources

- Activities and materials at the site
- Site Map
 - *Drainage Areas - Areas on-site that discharge to a common point or along a continuous line*
- Inventory of Exposed Materials
- List of Spills and Leaks (5+ gallons)
- Monitoring Program

Stormwater Pollution Prevention Plan

Potential Pollutant Sources

- Loading/Unloading Areas
- Roof Areas
- Outdoor Storage
 - Dumpsters
 - Aboveground Storage Tanks
- Outdoor Manufacturing or Processing
- Dust or Particulates
- On-site Waste Management Practices
- Vehicle Washing/Rinsing

Stormwater Pollution Prevention Plan

Public Works Facility

- Loading/Unloading Areas
 - Vehicle maintenance area (anti-freeze, detergents, cleaners, lubricants, waste oil, paints, mineral spirits)
 - Storage area (fertilizers, pesticides, cleaners, etc.)
 - Fueling area
 - Sand/Salt storage shed
- Outdoor Storage
 - Scrap metal, 2,500-gallon AST, tires, metal, solid waste
- Outdoor Manufacturing or Processing/Dust or Particulates
 - Salt and sand
 - Unpaved areas in dry weather

Stormwater Pollution Prevention Plan

Parks Garage

- Loading/Unloading Areas
 - Main building (gasoline, lubricants, paint, fertilizers, pesticides, heating fuels ASTs, de-icing chemicals)
 - Storage shed (de-icing chemicals, wood, metal)
- Outdoor Storage
 - Bleachers, picnic tables, topsoil, processed stone, wood chips, concrete, curbing, bricks, stone, sand)
- Outdoor Manufacturing or Processing/Dust or Particulates
 - Screening machine

Stormwater Pollution Prevention Plan

Pollution Prevention

- Good Housekeeping
- Sediment and Erosion Control
- Preventative Maintenance
- Spill Prevention / Response Procedures
- Employee Training
- Management of Runoff
- Inspections



Stormwater Pollution Prevention Plan

Good Housekeeping

- Promptly remove and REMEDIATE spills
- Maintain clean and dry FLOORS
- DO NOT store materials, containers, or equipment in pathways and walkways
- MINIMIZE outdoor storage/PROTECT materials
- CAPTURE WASTEWATER and prevent water from entering the stormwater system
- Properly DISPOSE of wastes
- PROHIBIT vehicle maintenance or washing outside with chemicals!!!!



Stormwater Pollution Prevention Plan

Good Housekeeping (continued)

- LIQUID wastes
 - Store indoors
 - Secondary containment:
 - Largest chemical container or
 - 10% of the total volume of ALL containers, whichever is LARGER
 - Store AWAY from floor drains and doorways

Stormwater Pollution Prevention Plan

Preventative Maintenance

- Routine Maintenance
 - Equipment maintenance in accordance with Manufacturer's Specifications
 - Stormwater drainage system
- Visual Inspections
 - Potential Pollutant Areas
 - Hazardous waste containers, ASTs, storage areas
 - Stormwater drainage system
 - E&S control measures



Stormwater Pollution Prevention Plan

Spill Response Procedures

- Spill Prevention ,Control and Countermeasure Plan
 - Spill response procedures
 - Spill response equipment and supplies
 - Spill notification requirements
 - Inspections of oil storage areas
 - Fixed storage
 - Mobile Storage
 - Oil-in-Use



Stormwater Pollution Prevention Plan

Spills

- DOCUMENT significant spills or leaks

" a list of spills and leaks of five gallons or more of toxic or hazardous substances as defined in Section 22a-430-4..."

Stormwater Pollution Prevention Plan

Sediment and Erosion Control

- Topography
- Land Disturbance Areas
- Erosion Controls
 - Structural
 - Vegetative
 - Stabilization Best Management Practices (BMPs)

Stormwater Pollution Prevention Plan

Management of Runoff

- Used to divert, infiltrate, reuse, contain, or otherwise reduce pollutants in discharges
- Runoff management practices
- Structural controls
 - Oil/particle separators
 - Infiltration/sedimentation basins
 - Retention/detention basins
 - Sumped catch basins
 - Grass swales

Stormwater Pollution Prevention Plan

Plan Implementation

- Update/revise SWPPP as necessary
- Employee Training
- Monitoring
- Inspections (Bi-Annual)
- Bi-Annual Comprehensive Site Compliance Evaluation

Stormwater Pollution Prevention Plan

Revisions to the SWPPP

- There is a change at the site which has an effect on the potential to cause pollution of the waters of the state
- The actions required by the Plan fail to ensure or adequately protect against pollution of the waters of the state
- The commissioner requests modifications of the Plan

Stormwater Pollution Prevention Plan

Employee Training

- All employees whose activities could impact the quality of stormwater runoff from the site
- Annual training
- Include objectives of the General Permit and the SWPPP
 - Oil handling and spill response procedures
 - Good housekeeping practices
 - Stormwater system maintenance
 - Inspection and monitoring requirements



Stormwater Pollution Prevention Plan

Monitoring

- Annual stormwater monitoring
 - Total oil and grease
 - pH
 - Chemical Oxygen Demand
 - Total Suspended Solids
 - Total Phosphorus
 - Total Kjeldahl Nitrogen
 - Total Copper
 - Total Zinc
 - Total Lead
 - Aquatic Toxicity
- Submit results in a Discharge Monitoring Report (DMR) to the DEP
- Representative outfalls
 - Public Works Facility (2 outfalls)
 - Parks Garage (1 outfall)

Stormwater Pollution Prevention Plan

How to sample

- Rainfall event > 0.1 inch
- Rainfall event occurs at least 72 hours AFTER previous rainfall event greater than 0.1 inch



Stormwater Pollution Prevention Plan

How to Sample (continued)

- Wear latex gloves
- Place an open container outside to collect rainwater and measure rain pH
- Collect stormwater runoff grab sample
 - Within 30 minutes of start of runoff*****
- Completely fill containers
 - Holding underneath outfall or using a clean scoop
 - Collect a sample free of sediment

Stormwater Pollution Prevention Plan

How to Sample (continued)

- Write the sampler name, sample number, sample location, date, and time on sample containers
- PLACE SAMPLES IN COOLER with ice or ice packs such that the sample temperature remains between 32°F and 40°F
- Complete a Chain-of-Custody for samples being submitted for laboratory analytical
- Samples MUST be analyzed within 7 days*



Stormwater Pollution Prevention Plan

Bi-Annual Comprehensive Site Compliance Evaluation

- Confirm the accuracy of potential pollution sources
- Determine the effectiveness of the Plan
- Assess compliance with terms and conditions of the General Permit
- Maintain record for at least five years



Stormwater Pollution Prevention Plan

Bi-Annual Comprehensive Site Compliance Evaluation

Public Works Facility

- Garage Area**
 - Chemical Storage/Use Area
 - Potential Discharge Outside
- Storage Shed**
 - Look for Sediment Run-off
 - Look for Sand/Salt Run-off
 - Make sure inactive piles are covered
- Fueling Area**
 - Check area and hose connections for evidence of leaks
- Emergency Generator Tank**
 - Check area and hose connections for evidence of leaks
- Catch Basins**
 - Should be clean and free of debris
- Stormwater Outfalls**
- General Yard Cleanliness**
- Evidence of Leaks or Spills**

Stormwater Pollution Prevention Plan

Bi-Annual Comprehensive Site Compliance Evaluation

Parks Garage

- Garage Area**
 - Chemical Storage/Use Area
 - Potential Discharge Outside
- Storage Shed**
 - Look for Sediment Run-off
- Stockpiles**
 - Look for Sediment Run-off
- Erosion Controls**
 - Silt Fence/Hay Bales
 - Needed in Other Areas
- Stormwater Outfall**
- General Yard Cleanliness**
- Evidence of Leaks or Spills**

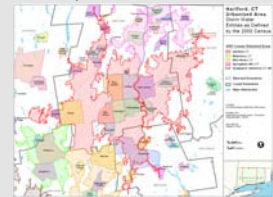
Phase I Stormwater Program

QUESTIONS?



Phase II Stormwater Program

- EPA has identified approximately 105 Connecticut Communities for Phase II Permitting
- Municipal Separate Storm Sewer Systems (MS4) in "Urbanized Areas" (based on 2000 Census)



Phase II Stormwater Program

What does Phase II require?

- Each community must develop and implement a stormwater management plan
- The stormwater management plan includes six (6) minimum control measures:
 - *Public Education and Outreach*
 - *Public Involvement/Participation*
 - *Illicit Discharge Detection and Elimination (regulated area only)*
 - *Construction Site Runoff Control*
 - *Post-Construction Runoff Control*
 - *Pollution Prevention / Good Housekeeping for Municipal Operations*

Phase II Stormwater Program

Public Education & Outreach

- Requires a program to educate the public about stormwater quality and pollution prevention
- Take advantage of existing community meetings, school programs, environmental organizations, and citizen's groups
- Priority subwatersheds/regulated areas should be targeted
- Certain sources of pollution should be targeted
- Coordinate with local and state agencies
- Organize a local committee



Phase II Stormwater Program

Public Education & Outreach in Windsor

- Catch Basin Markers stating "Drains to Waterways and the Long Island Sound" have been installed on more than 635 catch basins
- Stormwater page on the Town's website
- Earth Day events
- Articles in the *Hartford Courant*, *Windsor Journal*, *Reminder News*, and *There's a lot to do in Windsor*
- School programs –
 - *Recycling lessons given at Sage Park Middle School and Oliver Ellsworth Elementary School*
 - *Loomis Chaffee study on waste reduction and recycling*
- Northwest Park - environmental education classes, programs, and special events



Phase II Stormwater Program

Public Participation / Involvement

- Encourage public participation in pollution prevention tasks to improve program success
- A number of community resources are available that can help with program implementation
 - *Scouting*
 - *Citizen's groups*
 - *Environmental groups*
- Form a local committee to organize, oversee, and complete program tasks
 - *Adopt a stream*
 - *Volunteer water quality monitoring*
 - *Storm drain stenciling*
 - *Community river cleanups*
 - *Inventory Outfalls*



Phase II Stormwater Program

Public Participation / Involvement in Windsor

- Community clean-ups (97 volunteers this year!)
 - *April 2009 – 1.5 tons of trash collected*
 - *September 2009 – 500 pounds of trash collected*
- School Programs
 - *Recycling programs*
 - *Earth Day Celebrations*
 - *Science fairs*
- Stormwater Management Committee
- Publication of annual reports on the Town's website



Phase II Stormwater Program

Illicit Discharge Detection and Elimination

- An illicit discharge is any non-stormwater discharge to an MS4, with some exceptions
- Examples of illicit discharges:
 - *Sanitary wastewater*
 - *Car wash wastewater*
 - *Improper car fluid disposal*
 - *Improper disposal of household toxics*
- Develop a storm sewer map
- Adopt an ordinance/regulation banning illicit discharges
- Implement a plan to identify and remove illicit discharges



Phase II Stormwater Program

Illicit Discharge Detection and Elimination in Windsor

- Outfall Mapping
 - All stormwater outfalls of 12" or greater
 - Includes type, material and size of conveyance
 - Name of watershed in which the discharge is located
- Illicit Discharges and Connections Ordinance adopted in April 2009



Phase II Stormwater Program

Construction Site Runoff Control

- Existing municipal regulations may need modifications
- Requirements for contractors to control construction materials that may cause adverse impacts to water quality
- Procedures for site plan review which incorporates consideration of potential water quality impacts
- Procedures for receipt and consideration of information submitted by the public
- Procedures for site inspection and enforcement of control measures

Phase II Stormwater Program

Construction Site Runoff Control in Windsor

- Erosion and Sediment Control Ordinance adopted in January 2009
- Regulates land disturbing activities of greater than 0.5-acre
 - Single family residential uses are exempt in most cases
- Requires an Erosion & Sediment Control Permit
 - Engineering received 13 applications in 2009



Phase II Stormwater Program

Post-Construction Runoff Control

- Existing regulations may need modifications to address:
 - Performance standards
 - Maintenance requirements
 - Enforcement
- Develop and implement stormwater BMPs
- Ensure long-term operation and maintenance BMPs

Phase II Stormwater Program

Post-Construction Runoff Control in Windsor

- Stormwater Management Ordinance adopted in January 2009
- Regulates land disturbing activities:
 - Sites creating greater than 5,000 SF of impervious area
 - Land disturbing activities of greater than 1.0-acre
 - Single family residential uses are exempt in most cases
- Requires a Stormwater Management Permit
 - Engineering received 6 applications in 2009
 - Requires an Inspection & Maintenance Agreement on Land Records
 - Requires "as-built" drawings



Phase II Stormwater Program

Pollution Prevention / Good Housekeeping

- Develop and implement a municipal operation and maintenance program for the storm sewer system and municipal facilities such as DPW yards, schools, and recreation facilities
- Programs developed or modified to address
 - Catch basin maintenance
 - Street sweeping
 - Spill prevention and response guidelines
 - Record keeping
- Implement an employee training program



Phase II Stormwater Program

Pollution Prevention / Good Housekeeping in Windsor

- Employee training
- Annual street sweeping
- Catch Basin Cleaning
- Preventative maintenance of town vehicles and equipment



Phase II Stormwater Program

Stormwater Quality Testing

- 800 Marshall Phelps Road (Industrial)
- 615 Day Hill Road (Industrial)
- 1075 Kennedy Road (Commercial)
- 555 Day Hill Road (Commercial)
- 124/128 Harvest Lane (Residential)
- 21-27 Philip Henry Circle (Residential)

Phase II Stormwater Program

Annual Report

- Due by Jan 1st of each year
- Information that must be included:
 - *Self assessment review of compliance with permit conditions*
 - *Assessment of the appropriateness of the selected BMPs*
 - *Assessment of the progress toward achieving the measurable goals*
 - *Summary of results of any information that has been collected and analyzed*
 - *Discussion of activities for the next reporting cycle*
 - *Changes in identified BMPs or measurable goals*

Phase II Stormwater Program

QUESTIONS?



Presentation to

Windsor Department of Public Works

Spill Prevention Control & Countermeasures Plan Annual Training

Environmental Protection Agency (EPA)
Title 40, Code of Federal Regulations, Part 112
(40 CFR 112)

December 2009

Spill Prevention Control & Countermeasures Plan

The intent of the REGULATIONS is to protect the environment



Spill Prevention Control & Countermeasures Plan

Non-transportation related facility is subject to the SPCC regulations if:

Aggregate aboveground capacity > 1,320 gallons (excluding bulk storage containers/oil filled equipment < 55 gallons)



Spill Prevention Control & Countermeasures Plan

If the facility could reasonably be EXPECTED TO DISCHARGE OIL into or upon the navigable waters or adjoining shorelines of the United States



Spill Prevention Control & Countermeasures Plan

Know Your EMERGENCY CONTACT LIST

EMERGENCY PERSONNEL

- Primary Coordinator
- Brain Funk
- Alternate Coordinator
- Wayne Radke
- Emergency Cleanup Contractors
- *United Industrial Services*



Spill Prevention Control & Countermeasures Plan

- CTDEP – Oil & Chemical Emergency Response
- National Response Center
- Environmental Protection Agency (Emergency)
- Environmental Protection Agency (Region I)
- State Emergency Response Commission (SERC)
- CT State Police
- Local Emergency Planning Commission (LEPC)
- Fire, Police, EMS - 911



Spill Prevention Control & Countermeasures Plan

OIL STORAGE can include

- No. 2 Heating Oil Aboveground Storage Tank (AST)
- Diesel and Gasoline Fuel AST
- Used Oil Drum
- Maintenance Garage: Vehicle Fluids
- Oil/Water Separator
- Fryolator at McDonalds



Spill Prevention Control & Countermeasures Plan

OIL IN USE EQUIPMENT can include

- Transformers
- Hydraulic Lifts
- Any equipment that is used onsite that is not DOT register



Spill Prevention Control & Countermeasures Plan

TRANSFER OPERATIONS

- Strictly SUPERVISE product transfer from delivery trucks
- Delivery and pick-up vendors:
Must COMPLY with Department of Transportation (DOT) requirements
 - *Site personnel involved with loading operations*
 - *Also trained to comply with DOT*
- LOCK tank fill pipes when not in use



Spill Prevention Control & Countermeasures Plan

TRANSFER OPERATIONS

- Instruct delivery truck drivers to COORDINATE with facility personnel before transferring oil products
- Take care to PREVENT accidental spillage
- Maintain spill response materials
- COVER nearby downgradient catch basins
- ALERT vehicles entering the facility, as appropriate: loading/unloading operation



Spill Prevention Control & Countermeasures Plan

SITE SECURITY

- ON-SITE PRESENCE of facility personnel
- DOORS locked during non-working hours
- Building maintains fire and security alarms
- Nighttime security lighting



Spill Prevention Control & Countermeasures Plan

SPILL RESPONSE

- Discovering personnel:
- Determine source
- Attempt, without risk of injury, to stop the discharge by closing valves, etc.
- Use on-site spill response equipment
- Stop pedestrian and vehicular traffic
- Contact Emergency Coordinators



Spill Prevention Control & Countermeasures Plan

SPILL RESPONSE (continued)

- Emergency Coordinators
- ASSESS the discharge
- Determine if the secondary containment system is ADEQUATE
- Determine and initiate COURSE OF ACTION



Spill Prevention Control & Countermeasures Plan

INCIDENTAL

- MANAGEABLE by facility personnel with on-site spill response resources
- IMMEDIATELY absorbed or otherwise controlled at the time of the release
- Emergency Coordinator
- Instruct facility personnel to respond to the discharge



Spill Prevention Control & Countermeasures Plan

NON-INCIDENTAL

- Emergency Coordinators
 - *CONTACT Emergency Spill Response Contractor*



EPA



Spill Prevention Control & Countermeasures Plan

- DISPOSE spill response related waste
 - (e.g., absorbents, personal protective equipment, etc.)
 - In accordance with State and Federal laws



Spill Prevention Control & Countermeasures Plan

SPILL RESPONSE EQUIPMENT

- Absorbents (Speedy-Dri, Sand)
- Fire Extinguishers
- Brooms
- Personal Protective Equipment



EPA

Spill Prevention Control & Countermeasures Plan

SPILL NOTIFICATION AND REPORTING

- Emergency Coordinators
- Notify CTDEP:
 - *ANY outdoor spill or indoor spill that may release to the environment (soil, surface water, or groundwater)*
 - *Regardless of quantity*
 - *Also, poses a potential threat to human health or the environment*



Spill Prevention Control & Countermeasures Plan



STATE OF CONNECTICUT
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, Connecticut 06106-5127

Bureau of Waste Management
Oil and Chemical Spill Response Division

REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR RELEASE

1. When did the incident occur? date: / / time:
2. Where did the incident occur?



Spill Prevention Control & Countermeasures Plan

National Response Center (NRC)

- Discharges of oil to waters of the US
 - Cause a film, sheen, deposition or violate applicable water quality standards
- EPA
- 1,000 gallons of oil
 - *Navigable waters*
 - *Single spill event*
 - 42 gallons of oil
 - *Two spill events*
 - *Within twelve-month period*



Spill Prevention Control & Countermeasures Plan

After contacting NRC or EPA:
Submit written report
Within sixty days
To EPA and CTDEP



Spill Prevention Control & Countermeasures Plan

REVIEW SPCC PLAN

- Once every five (5) years
- Assessment of new technology
- Amended within six months
- Document



Spill Prevention Control & Countermeasures Plan

Should the EPA require and amendment to the SPCC Plan:

- EPA will notify the facility
- Within 30 days, FACILITY MAY SUBMIT written information, views, and arguments on the proposed amendment
- After consideration, EPA WILL NOTIFY the facility that an amendment is required or will rescind the notice



Spill Prevention Control & Countermeasures Plan

Should the EPA require and amendment to the SPCC Plan (continued):

- Facility must:
 - *IMPLEMENT amendment as soon as possible but not later than six months*
 - *DOCUMENT the EPA proposed amendment within 30 days in SPCC Plan*



Spill Prevention Control & Countermeasures Plan

CHANGE TO FACILITY

- Design, construction, operations, or maintenance
- Materially affects potential for oil discharge
- Facility must amend SPCC Plan
 - *Within six months*
- Facility must implement the amendment as soon as possible
 - *Not later than six months*



Spill Prevention Control & Countermeasures Plan

TRAINING

- Personnel involved in oil handling activities
- Proper operation and maintenance of equipment to prevent discharge of oil
- On-the-job training and an annual review of SPCC Plan
- General facility activity, oil storage and transfer, emergency response equipment, and emergency response procedures



Spill Prevention Control & Countermeasures Plan

TRAINING (continued)

- Discharge prevention briefings
- Once per year
- Understanding of SPCC Plan
- Highlight past discharges or failures, malfunctioning components, and developed precautionary measures
- Attendance records



Spill Prevention Control & Countermeasures Plan

INSPECTIONS

- Emergency Response Coordinator / other designated personnel
- Monthly inspections - oil storage areas / spill response equipment
- Seams, gaskets, piping, pumps, valves, rivets, and bolts
- Leaks, deterioration, and damage



Spill Prevention Control & Countermeasures Plan

INSPECTIONS (continued)

- Completed on a regular basis during normal facility operations
- Informal visual inspections -- filling of storage tanks.
- Signed by the inspector
- Maintained on file for three years
- Signed by the appropriate supervisor



Spill Prevention Control & Countermeasures Plan

INTEGRITY TESTING

Aboveground bulk storage containers

- According to Industry Standards
 - *STI SPOO1 (less than 5,000 gallons)*
- Visual inspections on a regular basis
- When material repairs are made



Spill Prevention Control & Countermeasures Plan

INTEGRITY TESTING (continued)

Oil In Use

- **NOT SUBJECT** to the integrity testing requirements
- Containers that do not store oil, but merely use oil
- e.g., oil-filled electrical equipment, operating equipment such as hydraulic equipment with oil reservoirs, off-road equipment and vehicles



Spill Prevention Control & Countermeasures Plan

INTEGRITY TESTING (continued)

- Combine visual inspection with another technique:
- Hydrostatic testing, radiographic testing, ultrasonic testing, acoustic emissions testing, or other system of non-destructive shell testing following industry standards
- Maintain documentation of integrity testing



Spill Prevention Control & Countermeasures Plan

OIL PIPING

- Periodic testing (e.g., pressure testing)
- “As needed” basis
- Buried oil piping
 - *Integrity and leak testing*
 - *At the time of installation, modification, construction, relocation, or replacement*



Spill Prevention Control & Countermeasures Plan

RECORD KEEPING

- Inspection and test records
- Signed by the inspector and/or tester
- Maintained on file for a minimum of three years



Spill Prevention Control & Countermeasures Plan

QUESTIONS?





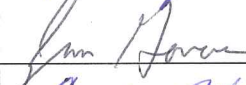

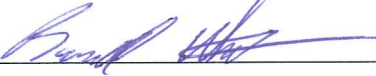
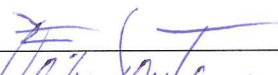
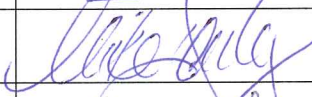



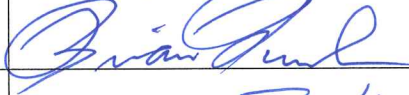
**TOWN OF WINDSOR DEPARTMENT OF PUBLIC WORKS
ANNUAL STORMWATER POLLUTION PREVENTION TRAINING
EPA PHASE I AND PHASE II PROGRAMS
TRAINING SIGN-OFF SHEET**

I have received Stormwater Pollution Prevention training. I understand the information and objectives of both the Stormwater Pollution Prevention Plan for the Town Department of Public Works Facility and the Parks Garage. I also received training on the objectives and status of the Town's Stormwater Pollution Prevention Plan as a MS4 community.

Name (Printed)	Signature	Date
Michael Giacomazzi	<i>Michael Giacomazzi</i>	12-15-09
Chris Bennett	<i>Chris Bennett</i>	12-15-09
MATTHEWS RYAN	<i>Matthews Ryan</i>	2009 12 15
Chris BARICKO	<i>Chris Baricko</i>	12-15-09
Peter O'Brien	<i>Peter O'Brien</i>	12-15-09
SHANTZ GRAY 12/15	<i>Shantz Gray</i>	12-15-09
Row Lewis	<i>Row Lewis</i>	12-15-09
Gene Guliano	<i>Gene Guliano</i>	12/15/09
Bob Dinallo	<i>Bob Dinallo</i>	12/15/09
Ted MARKHAM	<i>Ted Markham</i>	"
Peter A. Nicchetti	<i>Peter A. Nicchetti</i>	12/15/09
Bob Walker	<i>Bob Walker</i>	" "
Joe Costa	<i>Joe Costa</i>	" "
R. May of	<i>R. May of</i>	
Ricky D. Parolo	<i>Ricky D. Parolo</i>	12-15-09
Stanley Sirtora	<i>Stanley Sirtora</i>	12-15-09
David Brill	<i>David Brill</i>	12/15/09


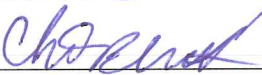


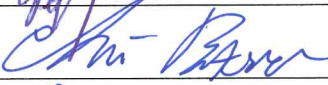

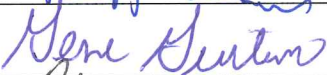
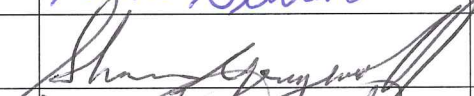
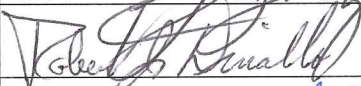

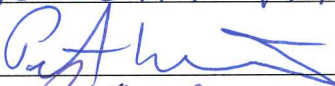
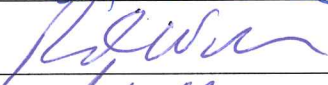

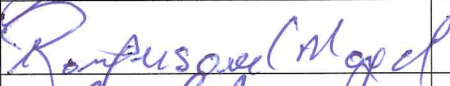
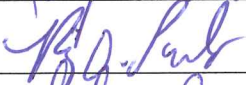


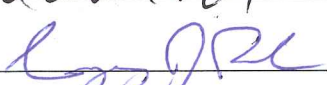
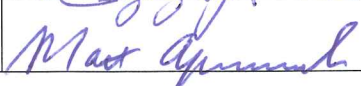
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ANNUAL STORMWATER POLLUTION PREVENTION TRAINING
EPA PHASE I AND PHASE II PROGRAMS
TRAINING SIGN-OFF SHEET**

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Name (Printed)	Signature	Date
Gary Paul		12-15-09
MATT APANOVITCH		12-15-09
Jim Gouven		12-15-09
Carl Mauldin		12-15-09
Russell White		12-15-09
Felco (Szeowski)		12-15-09
Mike Kelly		12-15-09
TERESA GALONSKI		12-15-09
FRED COTE		12-15-09
Michael Owen		12-15-09
Brian Finkle		12-15-09
Jay A. Hill	WAYNE RADKE	

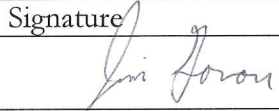



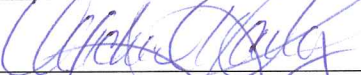


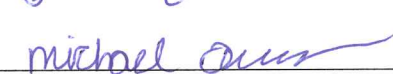
**TOWN OF WINDSOR DEPARTMENT OF PUBLIC WORKS
SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN
TRAINING SIGN-OFF SHEET**

I have received Spill Prevention, Control & Countermeasure Plan training. I understand the information and objectives of this Plan. The training included precautionary measures to prevent oil discharges.

Name (Printed)	Signature	Date
Michael Giacomazzi		12-15-09
Chris Bennett		12-15-09
MATTHEWS, Ryan L		20091215
Peter O'Brien		12-15-09
Chris Baricko		12-15-09
Ron Lewis		12-15-09
Gene Giuliano		12/15/09
SHAWNE GRAYWOLF		12/15/09
Bob Dinallo		12/15/09
Ted Marchese		12
Peter Nicoletti		12/15/09
Bob Walker		12-15
Jae Lister		12-15
R. Mangano		12/15/09
Ricky D. Parob		12-15-09
Stanley Sikora		12-15-09
David Bryll		12/15/09
Greg Paul		12-15-09
MATT Aponovitch		12-15-09

**TOWN OF WINDSOR DEPARTMENT OF PUBLIC WORKS
 SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN
 TRAINING SIGN-OFF SHEET**

I have received Spill Prevention, Control & Countermeasure Plan training. I understand the information and objectives of this Plan. The training included precautionary measures to prevent oil discharges.

Name (Printed)	Signature	Date
Jim Goudie		12-15-09
Cory Mauldin		12-15-09
Russell White		12-15-09
Fred Olszewski		12/15/09
Wichner Alley		12-15-09
TERESA GALINSKI		12-15-09
FRED COTE		12-15-09
Michael Owen		12-15-09

APPENDIX C

2009 Stormwater Monitoring Reports



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Windsor</u>
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>
Contact Person: <u>Cyd Groff</u> Title: <u>Environmental Planner</u> Phone: <u>860-285-1987</u>
Permit Registration #GSM <u>200401195</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
#1 – 1075 Kennedy Rd.

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Farmington River

Time of Start of Discharge: Approximately 9am

Date/Time Collected: 06/09/09 10:53 am Water Temperature: 17.0degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	5.35 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	3.42 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	59.0 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	16 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	30.7 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	6.5 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.04 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.27 mg/l	Phoenix Environmental Labs
TKN	E 351.1	0.77 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.26 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	1230 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Tom Lenehan, Town Engineer

Signature: Date: 7/15/09



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Windsor</u>
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>
Contact Person: <u>Cyd Groff</u> Title: <u>Environmental Planner</u> Phone: <u>860-285-1987</u>
Permit Registration # <u>GSM</u> <u>200401195</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
#2 - 124/128 Harvest Lane

Please circle the appropriate area description: Industrial, Commercial, or **Residential**

Receiving Water (name, basin): Farmington River

Date/Time Collected: 06/09/09 10:11 am Water Temperature: 17.3degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	6.36 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	3.35 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	18.6 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	1.6 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	20 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	9.78 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	12 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.13 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.49 mg/l	Phoenix Environmental Labs
TKN	E 351.1	1.2 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.16 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	1920 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Tom Lenehan, Town Engineer

Signature: Date: 7/15/09



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Windsor</u>
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>
Contact Person: <u>Cyd Groff</u> Title: <u>Environmental Planner</u> Phone: <u>860-285-1987</u>
Permit Registration # <u>GSM</u> <u>200401195</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
#3 - 615 Day Hill Rd

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Mill Brook

Date/Time Collected: 06/09/09 9:59 am Water Temperature: 16.1degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	5.67 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	6.36 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	58.0 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	61 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	32.0 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	46 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.32 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.66 mg/l	Phoenix Environmental Labs
TKN	E 351.1	2.1 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.44 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	1780 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

I certify that the data reported on this document were prepared under my direction or supervision in accordance with the MS4 General Permit. The information submitted is, to the best of my knowledge and belief, true, accurate and complete.

Authorized Official: Tom Lenehan, Town Engineer

Signature: Date: 7/19/09



General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Windsor</u>	
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>	
Contact Person: <u>Cyd Groff</u>	Title: <u>Environmental Planner</u> Phone: <u>860-285-1987</u>
Permit Registration # <u>GSM</u> <u>200401195</u>	

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
#4 - 555 Day Hill Rd.

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Mill Brook

Date/Time Collected: 06/09/09 9:47 am Water Temperature: 19.6degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

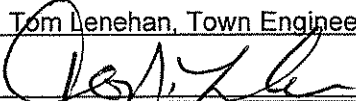
MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	6.69 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	14.6 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	100 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	52 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	9.71 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	10 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.21 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.44 mg/l	Phoenix Environmental Labs
TKN	E 351.1	1.4 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.29 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	200 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Tom Lenehan, Town Engineer

Signature:  Date: 7/19/09



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town:	Town of Windsor		
Mailing Address:	275 Broad Street, Windsor, CT 06095		
Contact Person:	Cyd Groff	Title:	Environmental Planner Phone: 860-285-1987
Permit Registration #GSM	200401195		

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
 #5 – 800 Marshall Phelps

Please circle the appropriate area description: Industrial, Commercial, or Residential

Receiving Water (name, basin): Mill Brook

Date/Time Collected: 06/09/09 9:37 am Water Temperature: 19.3degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	3.9 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	2.24 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	53.1 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	41 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	8.46 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	6.5 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.05 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.54 mg/l	Phoenix Environmental Labs
TKN	E 351.1	1.1 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.28 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	250 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Tom Lenehan, Town Engineer

Signature: Date: 7/19/09



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Windsor

Mailing Address: 275 Broad Street, Windsor, CT 06095

Contact Person: Cyd Groff Title: Environmental Planner Phone: 860-285-1987

Permit Registration #GSM 200401195

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
#6 - 21/27 Philip Henry Circle

Please circle the appropriate area description: Industrial, Commercial, or **Residential**

Receiving Water (name, basin): Decker's Brook/Connecticut River

Date/Time Collected: 06/09/09 11:36 am Water Temperature: 16.0degC

Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions

Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs

Date of Previous Storm Event: 5/30/09

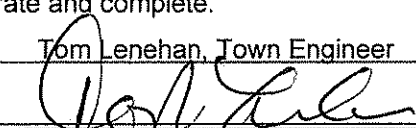
MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	5.98 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	10.3 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	66.1 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	34 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	9.05 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	16 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.08 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.29 mg/l	Phoenix Environmental Labs
TKN	E 351.1	0.93 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.39 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	11200 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Tom Lenehan, Town Engineer

Signature:  Date: 7/19/09



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: <u>Town of Windsor</u>
Mailing Address: <u>275 Broad Street, Windsor, CT 06095</u>
Contact Person: <u>Cyd Groff</u> Title: <u>Environmental Planner</u> Phone: <u>860-285-1987</u>
Permit Registration #GSM <u>200401195</u>

SAMPLING INFORMATION


Discharge Location (Lat/Long or other description): <u>EXTRA A – Bart's on Palisado Avenue</u>
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): <u>Farmington River</u>

Date/Time Collected: 06/09/09 11:10 am Water Temperature: 17.6degC
 Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions
 Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs
 Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	5.70 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	4.15 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	18.8 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	20 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	7.99 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	17 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.07 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.2 mg/l	Phoenix Environmental Labs
TKN	E 351.1	0.87 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.18 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	5480 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: <u>Tom Lenehan, Town Engineer</u>	
Signature: 	Date: <u>7/19/09</u>



**General Permit for the Discharge of Stormwater from Small
Municipal Separate Storm Sewer Systems**

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Windsor
 Mailing Address: 275 Broad Street, Windsor, CT 06095
 Contact Person: Cyd Groff Title: Environmental Planner Phone: 860-285-1987
 Permit Registration # GSM 200401195

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): _____
EXTRA B – Rainbow Road at East Granby Road
 Please circle the appropriate area description: Industrial, Commercial, or Residential
 Receiving Water (name, basin): _____

Date/Time Collected: 06/09/09 10:27 am Water Temperature: 17.6degC
 Person Collecting Sample: Delores St.Louis, TurnKey Compliance Solutions
 Storm Magnitude (inches): 0.38 inches Storm Duration (hours): 4 hrs
 Date of Previous Storm Event: 5/30/09

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	pH Probe	6.48 s.u.	Measurement Taken in Field
Rain pH	pH Probe	5.13 s.u.	Measurement Taken in Field
Hardness	S 2340 B	4.8 mg/l	Phoenix Environmental Labs
Conductivity	SM 2510 B	29.6 umhos/cm	Phoenix Environmental Labs
Oil & Grease	EPA 1664	<1.4 mg/l	Phoenix Environmental Labs
COD	SM 5220 D	32 mg/l	Phoenix Environmental Labs
Turbidity	E 180.1	13.8 NTU	Phoenix Environmental Labs
TSS	SM 2540 D	61 mg/l	Phoenix Environmental Labs
TP	E 365.2	0.07 mg/l	Phoenix Environmental Labs
Ammonia	S 4500 NH3	0.36 mg/l	Phoenix Environmental Labs
TKN	E 351.1	1.1 mg/l	Phoenix Environmental Labs
NO ₃ +NO ₂	E 353.2	0.24 mg/l	Phoenix Environmental Labs
E. coli	SM 9222 G	2480 /100 mls	Phoenix Environmental Labs

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Tom Lenehan, Town Engineer
 Signature: Date: 7/19/09