

# 2004 Narrative Summary of Stormwater Management Town of Redding, Connecticut

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## **2004 Narrative Summary of Stormwater Management Town of Redding, Connecticut**

This narrative provides comprehensive documentation of stormwater management activity conducted by the Town of Redding from January 1, 2004 to December 31, 2004, as required by the General Permit Registration for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4). It is available for public comment and submitted to the Connecticut Department of Materials Management and Compliance. Along with other summaries and annual reports, it shall be relied upon to define appropriate best management practices (BMPs); designate person(s) and job titles responsible for each BMP; define a time line for implementation of each BMP; and define measureable goals for each BMP.

Stormwater management summaries and annual reports will be utilized by the Town of Redding to develop, implement, and enforce a stormwater management plan designed to reduce the discharge of pollutants from the Small MS4 to the maximum extent practicable (MEP), to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. The Town of Redding shall prepare a Stormwater Management Plan to be completed and with all Minimum Control Measures implemented by January 8, 2009.

For each Minimum Control Measure (MCM), this narrative summary inventories and accounts for stormwater BMPs of the Town of Redding, Connecticut from January 1, 2004 to December 31, 2004. BMPs are subsumed under the following six MCMs: public education and outreach on stormwater impacts; public involvement and participation; illicit discharge detection and elimination; construction site stormwater runoff control; post-construction stormwater management in new and redevelopment; and pollution prevention/good housekeeping for municipal operations.

The narrative summary includes the following parts: a table of contents; a brief physical description of the Town; a description of active departments and individuals participating in the Town's stormwater management; a list of the MCMs with supporting BMPs; a glossary of abbreviations; references; and the Town Selectman's signature of endorsement.

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## I.

### Physical Description

The Town of Redding, Connecticut is 32.2 square miles with an estimated population of 8650 for the year 2006. As of October 2006, the approximate town and state open space and park acreage - 2600 acres; land trust acreage - 1001 acres; and watershed property - 2839 acres; comprised a total sum of 6440 acres of undeveloped land. The entire Town has an approximate total acreage of 19,663. Thus, open space, park, land trust, and watershed property comprise 33% of the Town's total area. When applied as a benchmark to calculate impervious to pervious surfaces, this percentage provides a correspondence between Redding's physical landscape and stormwater management.

## II.

### Departments and Individuals

The Board of Selectman (**BS**) works to preserve open space and conservation of natural resources through national, regional, and local participation with governmental agencies and the Town's departments. As with the other Town departments and individuals, their stormwater-associated activities will be identified in various best management practices subsumed under the minimum control measures.

The First Selectman (**FS**) represents the Town and Board of Selectman concerning environmental issues both within the Town and with multiple government agencies expressing an interest in regional stormwater issues.

The Office of the Assessor (**OA**) monitors the updating of the Geographic Information System (GIS) for the Town's land use applications.

The Planning Commission (**PC**) is responsible for regulating private sector subdivisions, articulating the overall plan for future development of the town through the Town Plan of Conservation and Development and reviewing proposals for land use by Redding's other governmental agencies. Where appropriate, the Commission may schedule a site walk of an applicant's property to get a first-hand understanding of the impact of the proposed subdivision plan on the property at issue. In making decisions on applications involving land requiring special precautions, the Commission evaluates whether the subdivision proposal will result in adverse impact to health, safety, natural resources, natural environment and indigenous character of the land.

The Conservation Commission (**CC**) was established in 1964 and in 1973 the Commission was authorized to promulgate regulations protecting inland wetlands and watercourses. To protect that valuable resource, the Inland Wetlands and Watercourses

Regulations require certain activities in and around wetlands and watercourses receive a license prior to the initiation of those activities.

The Water Pollution Control Commission (**WPCC**) took the first steps in a major expansion of the sewage treatment plant in Georgetown. It approved detailed engineering plans from Georgetown Land Development Company for an expansion of the facility to increase the capacity from 75,000 to 245,000 gallons per day. The Commission's primary concern in processing sewage is to ensure that no pollutants enter the Norwalk River through any fault of the treatment plant.

The Zoning Commission (**ZC**) approves site plan applications and reviews soil erosion and sediment control issues, as well as other environmental issues involving land use.

The Zoning & Wetlands Officer (**ZEO/WO**) reviews all zoning applications, and issues all zoning permits for conforming uses and serves as an advisor to the Zoning & Conservation Commissions and the Zoning Board of Appeals. The position also serves as the Wetland Officer for the Conservation Commission. Soil erosion and sediment control violations are issued by this officer.

The Health Department (**HD**) conducts environmental permitting, distributes educational material, and inspects properties that overlap with stormwater management activity.

The Park and Recreation Department (**PRD**) provides recreational opportunities for community members of all ages. The Park & Recreation Department maintains the Community Center fields, as well as the RES & JRMS school athletic fields.

The Transfer Station and Recycling Center (**TSRC**) provides recycling services encompassing such materials as batteries, bulbs, oil, antifreeze, etc; thereby, assisting in the prevention of stormwater contamination.

The Highway Department (**HID**) maintains the Town road system and associated drainage systems.

The Facilities Coordinator (**FC**) maintains the Town's government buildings and their surrounding acreage.

The Animal Control Officer (**ACO**) protects against domestic and wild animal issues.

### III.

#### Minimum Control Measures and Best Management Practices

##### MCM 1

##### **Public education and outreach on stormwater impacts.**

**BMP 1:** HD coordinated the annual Household Hazardous Waste Day in Danbury with total Redding car count of participants equaling 86.

**BMP 2:** HD distributed horse stable manure management packets.

**BMP 3:** TSRC notified public of sorting and processing recyclables for drop-off via Redding Pilot newspaper and town brochures.

**BMP 4:** FS prompts contribution and publication of Redding Annual Report 2003-2004.

**BMP 5:** FS provides Town office tour for 4<sup>th</sup> grade Redding elementary school and displays a recycling information table.

**BMP 6:** FS speaks at Redding elementary school and describes recycling activities.

##### MCM 2

##### **Public involvement/Participation.**

**BMP 1:** CC, ZC, and PC hold public hearings on land use applications which may involve stormwater management issues.

**BMP 2:** FS promoted the annual Norwalk River clean-up in cooperation with non-profit volunteers and neighboring municipalities.

**BMP 2:** FS announced that the Nature Conservancy's Saugatuck River Watershed Partnership received a \$25,000 grant from the National Oceanic and Atmospheric Administration and American Rivers Partnership. The Redding Land Trust and Yale University students will start an environmental assessment of the Poliak Pond property on Umpawaug Road in West Redding.

**BMP 3:** FS supports Housatonic Resources Recovery Authority (HRRA) membership.

**BMP 4:** FS meets in Wilton with representatives from the Norwalk River Watershed Initiative to discuss formation of the Saugatuck River Watershed Initiative.

**BMP 5:** FS initiates project work plans for the Gilbert & Bennett Brook Restoration where a natural riparian buffer and streamside park will be created along with the replacement of a failed stormwater catch basin and culvert.

### MCM 3

#### Illicit discharge detection and elimination.

**BMP 1:** HD issued the following permits: 71 septic repair, 28 new septic systems, permits, 66 oil tank removals, 383 septic pumping; and conducted 6 pool inspections, and 1 landfill water test with 4 sampling sites.

**BMP 2:** CC issued 54 permits for wetland activities and no denials. In addition 6 Notice of Violations and no Cease and Desist Orders were issued.

**BMP 3:** HD oversees stormwater testing for the HID General Permit for CT DEP Discharge of Stormwater Associated with Industrial Activity.

**BMP 4:** HD inspected category III and IV food service restaurants which must have an external grease trap in line to capture all grease discharged from the kitchen plumbing. Frequent restaurant grease trap inspections are made by the HD to assure they are being pumped, maintained, and serviced properly.

**BMP 5:** TSRC collected 1.4 tons of batteries, .35 tons of fluorescent bulbs, 3,450 gallons of oil, and 0 gallons of anti-freeze.

**BMP 6:** WPCC approved a Phase III expansion of Georgetown waste water treatment plant from 75,000 gallons per day to 245,000 gallons per day.

**BMP 7:** TSRC collected the following recyclables free of charge: glass, cans, plastics, magazines, waste oil & antifreeze, oil filters, fluorescent bulbs. Chargeable items included garbage, demolition materials, bulky waste, large appliances, and tires. Leaves and brush were dropped off during business hours, drop off for residents was free and commercial haulers were charged a fee.

**BMP 8:** ZEO/WO used a Town GIS mapping system for wetland identification and conducted inspection with a digital camera.

**BMP 9:** ACO enforces “No Dogs on Beach” sign at Topstone Park during summer seasons and enforces no dogs on Community Center fields.

### MCM 4

#### Construction site stormwater runoff control.

**BMP 1:** ZEO/WO conducted weekly inspections at Joel Barlow High School (35.5 acre construction site), along with multiple inspections with Donna Seresin from the CT DEP.

**BMP 2:** ZEO/WO issued 3 Cease & Desist Orders. ZEO/WO issued 214 zoning permits.

**BMP 3:** PC approved no subdivision applications and denied 1.

**BMP 4:** PZ regulated development with “Subdivision Regulations”, adopted February 4, 1957; revised November 25, 1980; and effective December 8, 1980. “Section 4.5 - Storm Runoff and Erosion Control” requires every subdivision application to have planned control of storm water runoff and “Section 4.6 – Open Space Reservation” states that open space reservations may be required in any subdivision and up to ten percent (10%) of any subdivision tract may be open space.

**BMP 5:** CC ensures wetland protection with “Inland Wetlands and Watercourse Regulations”, effective October 20, 1999. Section 8.3(c) “Detailed Parameters” requires review of increased erosion problems resulting from changes in grades, ground cover, or

drainage features. “Section 10 – Enforcement” states that the Commission or an authorized agent shall inspect and investigate violations.

**BMP 6:** ZC relies upon “Zoning Regulations”, adopted May 1950, effective June 1950, and revised February 1, 1986. Sections “5.2 – Site Plans, Nonresidential Uses”, “5.3 – Environmental Protection Standards”, “5.4 – Erosion and Sediment Control”, “5.5 – Land Clearing and Regrading”, and “5.14 – Farms, Produce Stands, Animal Operations” include provisions for stormwater management and “Section 6 – Administration and Enforcement” protects against violations.

**BMP 7:** ZC relies upon “Section 5.13.7 – Special Residential Complex – Open Space” to minimize the area of paved surfaces within the Village Residential and Neighborhood Business Zones.

**BMP 8:** ZEO/WOC requires an “Inter-Department Check-off Sheet for Zoning Permits” The application must be signed by authorized agents of all Commissions and Departments prior to the issuance of a Zoning Permit and states that owner/applicant is responsible for compliance with all Town regulations.

**BMP 9:** ZEO/WO distributes application form for site plan approval with copies of Town Regulations requiring erosion and sediment control measures.

**BMP 10:** ZEO/WO requires that all single family dwellings permitted for construction submit a certified A-2 survey showing the location of any wetlands or watercourses on site, the location of septic area/sewage disposal system; and the location of any required drainage structures such as drywells, level spreaders, infiltration galleries, etc.

## **MCM 5**

### **Post-construction stormwater management in developments.**

**BMP 1:** In fiscal year 2003-2004, BS announced the award of a \$1,168,733 state grant for open space acquisition and \$3,000 America the Beautiful Grant to inventory large, unique, and historic trees.

**BMP 2:** ZEO/WO requires an “Inter-Department Check-off Sheet for Zoning Permits” The application must be signed by authorized agents of all Commissions and Departments prior to the issuance of a Zoning Permit and states that owner/applicant is responsible for compliance with all Town regulations.

**BMP 3:** ZEO/WO requires that all single family dwellings permitted for construction submit a certified A-2 survey showing the location of any wetlands or watercourses on site, the location of septic area/sewage disposal system; and the location of any required drainage structures such as drywells, level spreaders, infiltration galleries, etc.

**BMP 4:** OA reports that approximately .6 new acres of state land and 16 new acres of Redding Land Trust were acquired.

**BMP 5:** HID stormwater improvements included paving of 3.88 miles of roadway, chip sealing of 5.87 miles of roadway, nova chip sealing of .69 miles of roadway, and installation of 600 feet of 18 inch pipe, 200 feet of 15 inch pipe, and 2 sumps with lids (36 inch size).

**BMP 6:** HID monitors conservation easements for stormwater maintenance.

## MCM 6

### **Pollution prevention/good housekeeping for municipal operations.**

**BMP 1:** ZEO/WO was member of Connecticut Zoning Enforcement Officers and attended bimonthly informational seminars. ZEO/WO attended Workshop for Inland Wetlands held by the Connecticut Association of Conservation, attended Review of Soil Erosion and Sediment Control sponsored by the Certified Professional Erosion and Sediment Control program in New York, and attended Soil Erosion Seminar at the University of Connecticut Continuing Education. ZEO/WO used a Town GIS mapping system for wetland identification and conducted inspections with a digital camera.

**BMP 2:** CC participated in the Northeast Utilities transition station project location discussion by attending information meetings and performing site inspections of the proposed locations.

**BMP 3:** FS approves contracting Land-Tech Consultants to assist CC in Northeast transition station project location.

**BMP 3:** PRD contracted field maintenance to Stecks Landscaping for mowing and Premier Turf for aeration, fertilization, and herbicide applications.

**BMP 4:** PRD practices minimal grass cutting at Topstone Park, primarily the side of the entry road and beach path.

**BMP 5:** PRD stores gasoline in safety containers and personnel use funnels when pouring gasoline. Employees are trained to pour gasoline away from water or stormwater drains. Litter is picked up on the grounds by user groups. PRD personnel monitor field for litter at least weekly.

**BMP 6:** PRD provides garbage cans and polices Topstone Park daily for litter and geese droppings during the summer season.

**BMP 7:** In the 2003-2004 fiscal year, HID reconstructed 2.5 miles of road with new drainage and asphalt.

**BMP 8:** FS was Redding Garden Club member and participated in educational events.

**BMP 9:** FS attended the Connecticut Conference of Municipalities Convention and reviewed stormwater contractor kiosks.

**BMP 10:** FC allocated 200 pounds of calcium chloride for town facility sidewalks and 2 yards of salt/sand mix from the HID were used for driveways and lot. FC also swept all applied snow/ice material from facility walks and drives at the end of the winter season. This material was then delivered to HID for recycling/reuse.

**BMP 11:** FC uses 2 'slop' sinks with specialized floor basins for in-house cleaning at the Community Center.

**BMP 12:** FC maintains a Material Safety Data Sheet booklet at each town building (Community Center, Town Hall, police station, highway department, old townhouse, and annex building).

**BMP 13:** FC allocates 20 gallons of water-based paint for seasonal building painting.

**BMP 14:** FC sends all grass clippings, leaves, bulbs, cardboard, batteries, paint cans, plastics, and excess mulch to TSRC.

**BMP 15:** FC uses 'Speedy-Dry' absorbent material to clean-up any spills.

**BMP 16:** FC conducts daily trash and litter inspection of facilities.

**BMP 17:** FC mixes gasoline for mowers in a shed and uses plastic containers with attached funnels.

**BMP 18:** FC specifically hires seasonal workers for hand removal of weeds, in lieu of applying herbicides.

**BMP 19:** FC provides employee training with a signature form requiring agreement to participate for instruction and comply with training requirements. Training includes best management practices involving mulching, weeding, mowing, trimming, cleaning, and painting.

**BMP 20:** HID provides blood-borne pathogen training and equips road crews with blood-borne kits including gloves, goggles, gowns, and surgical gloves to assist in removal of roadkill and other waste found on highways.

**BMP 21:** HID mixes and loads road salt inside a salt barn and utilizes a 1:7 ratio of salt to sand for winter road maintenance. A wash rack is also used to clean vehicles and equipment.

**BMP 22:** HID sweeps pavement and reclaims the winter salt/sand mix from the highways at the end of the snow season.

**BMP 23:** HID conducts annual cleaning of catch basins.

**BMP 24:** HID recycles fuel with a 250 gallon concrete tank and anti-freeze with a 55 gallon container.

**BMP 25:** HID applies no herbicides.

**BMP 26:** HID utilizes a Reed Screen-All to recycle road debris.

## IV.

### Glossary of Abbreviations

ACO	Animal Control Officer
BMP	Best Management Practice
BS	Board of Selectman
CC	Conservation Commission
FC	Facilities Coordinator
FS	First Selectman
GIS	Geographic Information Systems
HD	Health Department
HID	Highway Department
HRRA	Housatonic Resources Recovery Authority
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
OA	Office of Assessor
PC	Planning Commission
PRD	Park and Recreation Department
TMDL	Total Maximum Daily Load
TSRC	Transfer Station & Recycling Center
WPCC	Water Pollution Control Commission
ZC	Zoning Commission
ZEO/WO	Zoning and Wetlands Enforcement Officer

## V.

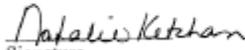
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- \_\_\_\_\_. October 18. Land Use Coordinator. Jo-an Brooks. Redding, CT. Interview.
- \_\_\_\_\_. October 19. Health Officer. Doug Hartline. Redding, CT. Interview.
- \_\_\_\_\_. October 19. Director of Parks and Recreation Department. Rob Blick. Redding, CT. Interview.
- \_\_\_\_\_. October 20. Facilities Coordinator. William Roman. Redding, CT. Interview.
- \_\_\_\_\_. October 20. Operations Manager - Transfer Station and Recycling Center. Thomas Newsome. Redding, CT. Interview.
- \_\_\_\_\_. October 20. Assessor. Melinda Fonda. Redding, CT. Interview.
- \_\_\_\_\_. October 27. First Selectman. Natalie Ketcham. Redding, CT. Interview.
- \_\_\_\_\_. October 31. Facilities Coordinator. William Roman. Redding, CT. Interview.
- \_\_\_\_\_. November 1. ex-Water Pollution Control Commission Chairman. George Konow. Redding, CT. Interview.
- \_\_\_\_\_. November 1. Water Pollution Control Commission member. John Campbell. Redding, CT. Interview.
- \_\_\_\_\_. November 1. Animal Control Officer. Mike DeLuca. Redding, CT. Interview.
- \_\_\_\_\_. November 6. Highway Superintendent. Bruce Sanford. Redding, CT. Interview.

**VI.**

**Signature of Endorsement**

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

  
Signature

  
Date

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