

DRAFT

2011 STORMWATER ANNUAL REPORT

**TOWN OF REDDING, CONNECTICUT
REGISTRATION NO. GSM000085**

December 1, 2011

MMI #3052-04-4

Prepared for:

Town of Redding
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1.0 INTRODUCTION

This report has been prepared by Milone & MacBroom, Inc. (MMI) for the Town of Redding (the Town) as the required Annual Report described in Section 6(i)(2) of the General Permit for the Discharge of Stormwater from Municipal Separate Storm Sewer Systems (the Permit). The Town developed a Stormwater Management Plan in association with its registration under this Permit. This report is intended to address stormwater-related activities performed within the Town during the 2011 calendar year.

2.0 STORMWATER SAMPLING

Stormwater samples were collected at six locations in the Town on October 19, 2011. Results of these analyses are presented in Appendix A. The Town has submitted sampling results and annual reports for the previous permit years (2006-2010).

3.0 MINIMUM CONTROL MEASURES

For this 2011 Annual Report, the current status of each minimum control measure has been reviewed. The Town conducts daily activities that include several existing Best Management Practices (BMPs) and the development of proposed and future BMPs for implementation. The minimum control measures and the current schedule for each are listed below. In addition, the current status of the specific BMP is also included.

BMP #1: PUBLIC EDUCATION AND OUTREACH

A. Educate citizens about the impacts of stormwater on waterways.

1. The Town Zoning Office has developed and maintains a stormwater information webpage. The site includes the submitted Stormwater Management Plan and links to local watershed groups and is updated periodically.
2. The Town's webpage includes links to the Stormwater Annual Reports, 2007 Stormwater Management Plan, the Norwalk River Watershed Association, the Conservation Districts of Connecticut, and the Nature Conservancy Saugatuck Forest Lands Project. The Norwalk River Watershed Association webpage includes reference information regarding watershed protection through maintenance of septic systems and responsible yard care in addition to watershed events that involve the public.
3. The Town's transfer station staff notify residents of available recycling programs via the Redding Pilot and brochures.
4. An illicit/illegal connection fact sheet has been developed and is available at the Town Hall.
5. Stormwater fact sheets developed by the First Selectman are on display at the Town Hall.
6. The United States Environmental Protection Agency (EPA) handout "Pollution Prevention/Good Housekeeping Minimum Control Measures" is made available to the public at the Town Hall. The handout includes

information on pollution prevention and good housekeeping measures that can be implemented by all the residents of Redding.

7. Copies of the pamphlet "Caring for Your Septic System" published through the Connecticut NEMO program have been made available to the public for free at the Town Hall.

B. Educate municipal officials and land use commissions on proper stormwater management.

1. The Zoning Office will coordinate a NEMO or Southwest Conservation District presentation for Town staff and land use commissions in 2012.

BMP #2: PUBLIC INVOLVEMENT AND PARTICIPATION

A. Develop public involvement and participation program.

1. The First Selectman is responsible for continued involvement in the Landscape Stewardship Advisory Committee.
2. The First Selectman is responsible for continued participation in the Saugatuck River Watershed Partnership.
3. The Health Department coordinates with the Housatonic Resources Recovery Authority to participate in the annual Household Hazardous Waste collection program.
4. Waste oil and oil filters are collected at the transfer station.

5. The First Selectman organizes participation in the annual Norwalk River Watershed Make a Difference day and spring river cleanups.

B. Comply with FOI requirements.

1. Land use commissions hold public hearings on land use applications for new development and redevelopment.
2. A draft copy of this annual report will be placed in the Zoning Department at the Town Hall on or before December 6, 2011 for public review. A legal notice will be published in the Redding Pilot inviting public review and comment.

BMP #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

A. Develop and implement ongoing illicit discharge detection program.

1. In 2009, a map of all outfalls greater than 15" in urbanized areas was completed and is maintained in the Zoning Office.
2. In 2009, a map of all outfalls greater than 15" in the entire Town was completed and is maintained in the Zoning Office.
3. In 2009, a map of all outfalls greater than 12" in urbanized areas was completed and is maintained in the Zoning Office.
4. In 2010, townwide GIS mapping with outfalls was developed and is maintained on the Town website – www.townofreddingct.org.

5. The Health Department is coordinating with Aquarion to ensure continued execution of watershed inspections to identify illicit discharges.
6. The Health Department performs annual inspections of restaurants with external grease traps.
7. The Town typically relies on resident complaints to identify questionable discharges from outfalls or illegal dumping. A reporting form is available on the Town website – www.townofreddingct.org, or in the Zoning Office.

B. Prohibit nonstormwater discharges to storm sewers.

1. The Zoning Department, Health Department, and First Selectman intend to develop an ordinance prohibiting illicit discharges in 2012. This ordinance will specifically prohibit nonstormwater discharges to the storm drainage system in compliance with Section 8-12 of the Connecticut General Statutes, which allows fines to be imposed for noncompliance.

C. Manage waste collection to prevent/minimize illegal dumping.

1. The Transfer Station Manager continues to collect nickel cadmium batteries, car batteries, appliances, demolition debris, scrap tires, fluorescent bulbs, waste oil, and antifreeze at the transfer station.
2. The Transfer Station Manager continues to collect recyclable glass, cans, newspapers, and cardboard at the transfer station.
3. The Transfer Station Manager continues the program to recycle/collect household electronics items.

BMP #4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

A. Review land use regulations.

1. In 2006, the Zoning Office completed its review of zoning regulations for erosion and sediment control for construction phase stormwater management elements.
2. In 2006, the Land Use Office completed its review of subdivision regulations for construction phase stormwater management elements.
3. In 2006, the Land Use Office completed its review of wetland regulations for construction phase stormwater management elements.

B. Review development project for proper erosion and sediment control management.

1. The Land Use Office and Zoning Enforcement Officer are actively reviewing all land use and site plan applications for consistency with 2002 Connecticut Guidelines for Erosion and Sedimentation Control BMPs.
2. The Zoning Enforcement Officer periodically observes construction sites to evaluate effectiveness of erosion and sediment controls.
3. The Land Use Office and Zoning Enforcement Officer refer all applications in the Saugatuck River watershed to Aquarion for review.
4. The Zoning Regulations expressly require construction site operators to monitor sediment and erosion controls, control discarded wastes, concrete truck washout, litter, chemicals, and sanitary wastes.

C. Develop program to notify contractors of DEEP stormwater permits.

1. The Land Use Office and Zoning Enforcement Office have revised land use application forms to require stormwater management controls. The application forms will be further revised to specifically notify contractors of the need to obtain state stormwater permits in 2012.

D. Track and act on, as needed, information provided by the public relating to construction site maintenance in Town.

1. Construction-related complaints from the public are recorded and kept in the street file for the violating property in the zoning office.
2. An inspection program for construction sites against which complaints are logged has been developed and executed by the Zoning Enforcement Officer. Inspections take place on a regular basis during construction on major projects.

BMP #5: POSTCONSTRUCTION STORMWATER MANAGEMENT

A. Review land use regulations to promote low impact development techniques for development and redevelopment projects as appropriate.

1. The Land Use Office and Zoning Enforcement Office have assessed BMPs and evaluated applicability for the Town based on geology and topography of the Town.
2. The Land Use Office and Zoning Enforcement Office have reviewed zoning regulations for postconstruction stormwater management practices including low impact development.

3. The Land Use Office and Zoning Enforcement Office have reviewed subdivision regulations for postconstruction stormwater management practices including low impact development.
4. The Land Use Office and Zoning Enforcement Office have developed Town standards for stormwater management that incorporate water quality BMPs.
5. The Land Use Office and Zoning Enforcement Office have revised zoning and subdivision regulations to reference design standards developed in goal 5.A-4.
6. All plans approved by land use commissions are required to be in conformance with the standards of the 2002 Sediment and Erosion Control Guidelines.
7. Wherever possible, the Town encourages low impact standards (reduction of impervious coverage, stormwater detention, 80% TSS removal, etc.).
8. The Conservation Commission has adopted a regulatory buffer for all activities within 100 feet of wetlands, 150 feet of watercourses, and 500 feet of a vernal pool as these are believed to have the potential to impact resources.
9. The Redding Land Trust overseas approximately 1,600 acres of open space properties in gifts or in conservation easements. Preserved properties range from a few acres to large tracts of 100 acres or more. In 2011, the Redding Land Trust was awarded prestigious accreditation status by the Land Trust Alliance Commission, which indicates that the

Redding Land Trust meets stringent national quality standards for protecting its open space lands and easements forever. The accreditation seal means that the Land Trust has undergone an extensive, external review of its governance and management policies on its properties - 126 owned outright and 54 held in easement - and becomes one of only three such land trust in Connecticut and 130 nationally to have achieved this distinction.

B. Develop a mechanism to ensure long-term operation and maintenance of BMPs.

1. The Highway Department is in the process of developing guidelines for the maintenance of stormwater structures and systems that are not owned by the Town.
2. The Highway Department is in the process of developing a list of Town-owned detention and retention basins in Town.
3. The Highway Department is in the process of developing an inspection program for Town-owned detention/retention structures (i.e., inspect 25% each year).
4. The Town currently requires applicants to provide a stormwater operation and maintenance plan with all new developments.

BMP #6: POLLUTION PREVENTION AND GOOD HOUSEKEEPING

A. Develop training/education program for municipal employees.

1. The Highway Department has reviewed and updated the stormwater pollution prevention plan for the public works garage in conjunction with the renewal of their Industrial Stormwater Permit. Goals for 2012 include the implementation of recommendations outlined in the SWPPP.
2. The Transfer Station Manager has developed a stormwater management plan for the transfer station in conjunction with its Industrial Stormwater Permit. Goals for 2012 include the implementation of recommendations outlined in the SWPPP.
3. The WPCA has reviewed and updated the stormwater pollution prevention plan for the wastewater treatment plant in conjunction with its Industrial Stormwater Permit. Goals for 2012 include the implementation of recommendations outlined in the SWPPP.
4. The Highway Department organizes and documents annual training of Public Works and Highway Department employees.
5. The First Selectman has identified public resources such as from the DEEP that would provide public education on stormwater management for municipal employees.

B. Optimize maintenance of Town-owned drainage facilities.

1. The Highway Department is in the process of reviewing the existing street sweeping program and identifying streets to be swept more than once per year. Current practice is to sweep streets based on citizen requests.
2. The Highway Department documents annual catch basin inspection and cleaning. However, due to limited Town resources, it is not feasible to perform annual maintenance on all catch basins within the Town.
3. The Highway Department trains employees in proper handling of catch basin sediments and wastes.

C. Continue the existing program for prioritizing maintenance of storm drainage infrastructure.

1. The Town provides funding as necessary to perform maintenance and emergency repairs on the storm drainage infrastructure.
2. The Town continues to use "Ice B'Gone" instead of road sand to reduce ice on roads.

3052-04-4-d111-rpt

APPENDIX A
Results of Stormwater Sampling



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Beeholm _____
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 8:15 am _____ Water Temperature: 13.6
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	6.9	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	32 mg/L	Aqua Environmental Lab
Conductivity	120.1	122 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	6.8 mg/L	Aqua Environmental Lab
COD	410.4	8.0 mg/L	Aqua Environmental Lab
Turbidity	180.1	0.8 ntu	Aqua Environmental Lab
TSS	160.2	2.5 mg/L	Aqua Environmental Lab
TP	365.2t	0.03 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	0.47 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	<0.5 mg/L	Aqua Environmental Lab
E. coli	SM9222D	236 cfu	Aqua Environmental Lab

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: Natalie Ketcham
Signature: Natalie Ketcham Date: Dec 1, 2011



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): W Redding Post Office _____
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 8:55 am _____ Water Temperature: 12.8 _____
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011 _____

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	7.3	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	14 mg/L	Aqua Environmental Lab
Conductivity	120.1	39 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	<1 mg/L	Aqua Environmental Lab
COD	410.4	57.5 mg/L	Aqua Environmental Lab
Turbidity	180.1	32.3 ntu	Aqua Environmental Lab
TSS	160.2	15.3 mg/L	Aqua Environmental Lab
TP	365.2t	0.06 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	1.16 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	<0.5 mg/L	Aqua Environmental Lab
E. coli	SM9222D	517 cfu	Aqua Environmental Lab

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Natalie Ketcham
Signature: Natalie Ketcham Date: Dec 1, 2011



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): John Todd Way _____
Please circle the appropriate area description: Industrial, Commercial, or Residential _____
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 9:08 am _____ Water Temperature: 12.6 _____
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011 _____

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	7.5	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	2 mg/L	Aqua Environmental Lab
Conductivity	120.1	21 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	<1 mg/L	Aqua Environmental Lab
COD	410.4	13.5 mg/L	Aqua Environmental Lab
Turbidity	180.1	17.2 ntu	Aqua Environmental Lab
TSS	160.2	10 mg/L	Aqua Environmental Lab
TP	365.2t	0.20 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	0.68 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	<0.5 mg/L	Aqua Environmental Lab
E. coli	SM9222D	2,419 cfu	Aqua Environmental Lab

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: <u>Natalie Ketcham</u>	
Signature: <u>Natalie Ketcham</u>	Date: <u>Dec 1, 2011</u>



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Cricklewood _____
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 7:40 am _____ Water Temperature: 13.2 _____
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011 _____

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	7.3	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	73 mg/L	Aqua Environmental Lab
Conductivity	120.1	277 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	<1.0 mg/L	Aqua Environmental Lab
COD	410.4	51.5 mg/L	Aqua Environmental Lab
Turbidity	180.1	6.9 ntu	Aqua Environmental Lab
TSS	160.2	38.3 mg/L	Aqua Environmental Lab
TP	365.2t	0.23 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	1.01 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	0.67 mg/L	Aqua Environmental Lab
E. coli	SM9222D	205 cfu	Aqua Environmental Lab

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Authorized Official: Natalie Ketcham
Signature: Natalie Ketcham Date: Dec 1, 2011



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Georgetown _____
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 8:30 am _____ Water Temperature: 14.4 _____
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011 _____

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	7.4	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	8 mg/L	Aqua Environmental Lab
Conductivity	120.1	38 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	<1 mg/L	Aqua Environmental Lab
COD	410.4	20.5 mg/L	Aqua Environmental Lab
Turbidity	180.1	7.0 ntu	Aqua Environmental Lab
TSS	160.2	10 mg/L	Aqua Environmental Lab
TP	365.2t	0.18 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	0.93 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	<0.5 mg/L	Aqua Environmental Lab
E. coli	SM9222D	345 cfu	Aqua Environmental Lab

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official: Natalie Ketcham
Signature: Natalie Ketcham Date: Dec 1, 2011



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

Stormwater Monitoring Report Form

PERMITTEE INFORMATION

Town: Town of Redding _____
Mailing Address: PO Box 1028 _____
Contact Person R Flanagan _____ Title: _____ Phone: _____
Permit Registration #GSM _____

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): Deer Hill _____
Please circle the appropriate area description: Industrial, Commercial, or Residential
Receiving Water (name, basin): _____
Time of Start of Discharge: _____
Date/Time Collected: 10/19/2011 8:00 am _____ Water Temperature: 13.8 _____
Person Collecting Sample: Thomas Braun _____
Storm Magnitude (inches): 0.66 _____ Storm Duration (hours): 4.5 _____
Date of Previous Storm Event: 10/16/2011 _____

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	4500 HB	7.1	Aqua Environmental Lab
Rain pH	4500 HB	6.5	Aqua Environmental Lab
Hardness	200.7	34 mg/L	Aqua Environmental Lab
Conductivity	120.1	239 uS/cm	Aqua Environmental Lab
Oil & Grease	413.2	1.6 mg/L	Aqua Environmental Lab
COD	410.4	94.5 mg/L	Aqua Environmental Lab
Turbidity	180.1	30.0 ntu	Aqua Environmental Lab
TSS	160.2	68 mg/L	Aqua Environmental Lab
TP	365.2t	0.33 mg/L	Aqua Environmental Lab
Ammonia	350.2	<0.2 mg/L	Aqua Environmental Lab
TKN	351.3	2.81 mg/L	Aqua Environmental Lab
NO ₃ +NO ₂	300.0	<0.5 mg/L	Aqua Environmental Lab
E. coli	SM9222D	687 cfu	Aqua Environmental Lab

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: Natalie Ketcham
Signature: Natalie Ketcham Date: Dec 1, 2011