

Town of Madison, Connecticut



2016 Annual Report

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

Permit No. GSM000051

January 1, 2017

Submitted to:

State of Connecticut
Department of Energy and Environmental Protection
Water Permitting and Enforcement Division
Bureau of Materials Management and Compliance Assurance
79 Elm Street
Hartford, Connecticut 06106-5127

Prepared by:

Town of Madison
Engineering Department
Town Offices Building
8 Campus Drive
Madison, Connecticut 06443-2563

Town of Madison, Connecticut
2016 Annual Report
General Permit for the Discharge of Stormwater from Small Municipal
Separate Storm Sewer Systems

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Section 1.0 Introduction

The U.S. Environmental Protection Agency published the National Pollutant Discharge Elimination System - Regulations for Revision of the Water Pollution Control Program Addressing Storm Water Discharges on December 8, 1999 as required by Section 402(p) of the Clean Water Act. These regulations are commonly referred to as the National Pollution Discharge Elimination System (NPDES) Phase II Program.

The NPDES Phase II Program is administered in Connecticut by the Connecticut Department of Energy and Environmental Protection (CTDEEP) through its General Permit for the Discharge of Stormwater from Small Municipal Storm Sewer Systems (MS4 General Permit).

In compliance with the requirements of the MS4 General Permit, the Town of Madison has prepared a Stormwater Management Plan for the purpose of establishing, implementing, and enforcing a stormwater management program that will to the maximum extent practicable, reduce the discharge of pollutants from the Towns roadways, parking areas, and other facilities, and activities such as roadway maintenance, parks and open space maintenance, building maintenance, fleet maintenance, new construction and land disturbances, and stormwater system maintenance, in order to protect surface and ground water resources and water quality, and to satisfy the applicable requirements of the MS4 General Permit.

The Stormwater Management Plan outlines a program of best management practices (BMPs), a timeline for their implementation, and measureable goals for the following six minimum control measures:

- Public education and outreach
- Public involvement / participation
- Illicit discharge detection and elimination
- Construction site stormwater runoff control
- Post-construction stormwater management
- Pollution prevention/good housekeeping

The plan also includes stormwater monitoring requirements intended to evaluate the effectiveness of these implemented control measures and requirements for revising those measures determined to not be effective in meeting the water quality goals of the plan.

As required by the MS4 General Permit, this Annual Report has been prepared to 1) outline the Town of Madisons compliance efforts, 2) document the Towns progress in achieving the implementation of the required minimum control measures identified in the Stormwater Management Plan, 3) provide copies of stormwater monitoring report forms for the reporting year, and 4) summarize planned activities related to the stormwater management program for the coming calendar year.

Section 2.0 Compliance

Public Education and Outreach

Information regarding the proper disposal of medicines was posted to the Towns Health Department website.

The Town began a complete revision of its Town Stormwater Management Plan in anticipation of meeting the requirements of the MS4 General Permit revisions to become effective in July of 2017.

The Town began the creation of an Engineering Department website that will provide basic information on stormwater management and pollution prevention. Electronic copies of the Stormwater Pollution Prevention Plans for the Towns Department of Public Works Garage and Brush and Leaf Disposal Facility will be made available on the site. It is anticipated that an electronic copy of the revised Town Stormwater Management Plan will also be made available on the site.

Public Involvement / Participation

An electronics recycling event was held on October 1, 2016 at the Jeffery Elementary School.

A Town-wide “Green Up-Clean Up Day” has been planned for a Saturday in April 2017 coinciding with Earth Day.

A public reporting function was added to the Towns website allowing the public to report stormwater drainage and general public works issues and concerns to the appropriate Town departments.

Illicit Discharge Detection and Elimination

The Town retained BETA Group, Inc. to map catch basin structures and stormwater system outfalls. Approximately 2,750 catch basin structures have been identified, their geographic positions have been mapped and the data has been incorporated in the Towns Geographic Information System. In addition, BETA Group has completed the mapping of stormwater system outfalls in the Neck River (5106) priority drainage basin.

Maps depicting the location of catch basin structures and stormwater system outfalls and their local drainage basins have also been created.

The Town obtained and reviewed various examples of illicit discharge detection and elimination regulations or ordinances of other Connecticut municipalities and discussed the creation of an ordinance specific to the Town of Madison with Town Counsel, Gail I. Kelly, Esq. of Berchem, Moses & Devlin, P.C.

Construction Site Stormwater Runoff Control

The Towns Land Use and Engineering departments continued their plan review, field inspection, and enforcement process and procedures for private and municipal land use applications for activities that disturb the land surface and have the potential to cause pollution of stormwater runoff.

Post Construction Stormwater Management

The Engineering Department prepared draft Stormwater Management Regulations to be incorporated into the Towns land use regulations.

Pollution Prevention / Good Housekeeping

Approximately 125 miles of Town maintained roads were swept and approximately 300 catch basin structures were cleaned as part of the Towns annual street sweeping and catch basin structure cleaning program.

Street sweeping was performed by Town Highway Department personnel and catch basin structures were cleaned by Wethersfield Sweeping Service contracted by the Town.

Stormwater Pollution Prevention Plan training for the Towns Highway Department employees was conducted on December 19, 2016. The training included an overview of the importance of stormwater management and the requirements of the plans including pollution prevention and good housekeeping practices.

The training was conducted by Ted Stevens, P.E., LEP of Stevens Engineering & Environmental Services, LLC.

The Towns Engineering Department completed the design of modifications of the Towns leaf recycling and composting facility in order to provide a better compost product and increase public awareness of the facility and its general use.

Section 3.0 Summary of Annual Stormwater Monitoring

Stormwater sampling was conducted by Ted Stevens, P.E., LEP of Stevens Engineering & Environmental Services, LLC.

Stormwater Monitoring Report Forms were submitted to the Department of Energy and Environmental Protection as required by the MS4 General Permit.

Copies of the Stormwater Monitoring Report Forms for calendar year 2016 are included herein at Appendix A.

Section 4.0 Summary of Planned Activities

Planned activities for calendar year 2017 include:

- Completion of the revisions to the Town Stormwater Management Plan
- With the assistance of Town Counsel, finalize a draft Illicit Discharge Detection and Elimination Ordinance and begin the Board of Selectmen ordinance review and approval process including notification of the public and holding a public hearing regarding the ordinance.
- Review and revise the Towns land use regulations as may be required to insure that they include the requirements of the revised MS4 General Permit and are coordinated with the permit.
- At the start of Fiscal Year 2017, continue the professional service contracts for stormwater monitoring and stormwater system outfall mapping.



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

Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>Mungertown Road</u>	
Please check the appropriate area description: <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Neck River, 5107-00</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 15:12</u>	Water Temperature: <u>54 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.33 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	2.2 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	15 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	15 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	6.4 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	ND < 1.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.17 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	579.4 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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

Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

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Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>Laurel Crest Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Toms Creek, 5000-14</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 16:10</u>	Water Temperature: <u>52 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	5.95 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	62 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	70 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	610 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	14 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	19 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	2.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	1.2 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	17 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.14 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	1986.3 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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

Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

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Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>Curry Cross Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Hammonasset River, 5106-00</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 16:20</u>	Water Temperature: <u>53 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.33 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	5.5 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	14 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	80 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	47 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	68 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.18 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.4 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.11 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	193.5 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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Authorized Official:	<u>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

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Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>646 Boston Post Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Tuxis Brook, 5000-16</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 15:40</u>	Water Temperature: <u>54 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	5.82 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	42 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	32 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	35 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	7.9 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	11 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.14 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	217.2 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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

Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>68 Neck Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Neck River, 5000-18</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 15:26</u>	Water Temperature: <u>53 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	13 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	35 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	74 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	160 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	96 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.27 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.8 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.33 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	>2419 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>646 Boston Post Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Long Island Sound, 5000-14</u>	
Time of Start of Discharge: <u>14:20</u>	
Date/Time Collected: <u>12/17/15, 16:00</u>	Water Temperature: <u>53 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.76 inches</u>	Storm Duration (hours): <u>3 hours</u>
Date of Previous Storm Event: <u>12/14/15</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.12 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.42 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	7.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	11 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	78 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	13 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	58 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	0.57 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.28 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	8.7 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.14 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9222 B	435.2 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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>Michael J. Ott, Director of Public Works & Town Engineer</u>
	(Print Name)
Signature: _____	Date: _____



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 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

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Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Engr. Services</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>Mungertown Road</u>	
Please check the appropriate area description: <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Neck River, 5107-00</u>	
Time of Start of Discharge: <u>11:20</u>	
Date/Time Collected: <u>12/15/16, 12:30</u>	Water Temperature: <u>55 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.82 inches</u>	Storm Duration (hours): <u>3.5 hours</u>
Date of Previous Storm Event: <u>10/24/16</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	5.78 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	4.7 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	23 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	69 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	4.8 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	10 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	1.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	ND < 1.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.33 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	7701 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____



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

Stormwater Monitoring Report Form

Please send completed form to: STORMWATER GROUP
 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u> Title: <u>Director of Engr. Services</u>
Phone:	<u>(203) 245-5612</u> Permit Registration # <u>GSM: 000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description):	<u>Laurel Crest Road</u>		
Please check the appropriate area description:	<input type="checkbox"/> Industrial	<input type="checkbox"/> Commercial	<input checked="" type="checkbox"/> Residential
Receiving Water (name, basin):	<u>Toms Creek, 5000-14</u>		
Time of Start of Discharge:	<u>11:20</u>		
Date/Time Collected:	<u>11/15/16, 13:10</u>	Water Temperature:	<u>54 deg. F</u>
Person Collecting Sample:	<u>Ted Stevens, Stevens Engineering & Environmental Services</u>		
Storm Magnitude (inches):	<u>0.82 inches</u>	Storm Duration (hours):	<u>3.5 hours</u>
Date of Previous Storm Event:	<u>11/15/16</u>		

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	5.84 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	50 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	230 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	200 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	4.4 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	14 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.94 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.2 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.86 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	450 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____



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

Stormwater Monitoring Report Form

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 BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Engr. Services</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>Curry Cross Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Hammonasset River, 5106-00</u>	
Time of Start of Discharge: <u>11:20</u>	
Date/Time Collected: <u>11/15/16, 13:20</u>	Water Temperature: <u>54 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.82 inches</u>	Storm Duration (hours): <u>3.5 hours</u>
Date of Previous Storm Event: <u>10/24/16</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	3.74 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	14.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	160 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	130 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	32 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	36 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	0.25 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.70 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	2.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.43 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	>24196 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____



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

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 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Public Works</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>646 Boston Post Road</u>		
Please check the appropriate area description: <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Residential		
Receiving Water (name, basin): <u>Tuxis Brook, 5000-16</u>		
Time of Start of Discharge: <u>11:20</u>		
Date/Time Collected:	<u>11/15/16, 12:50</u>	Water Temperature: <u>55 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>		
Storm Magnitude (inches):	<u>0.82 inches</u>	Storm Duration (hours): <u>3.5 hours</u>
Date of Previous Storm Event: <u>10/24/16</u>		

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.33 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	21 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	160 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	66 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	27 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	26 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	ND < 0.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.27 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.6 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.60 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	638 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

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>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____



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

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BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Engr. Services</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>68 Neck Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Neck River, 5000-18</u>	
Time of Start of Discharge: <u>11:20</u>	
Date/Time Collected: <u>11/15/16, 12:40</u>	Water Temperature: <u>55 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.82 inches</u>	Storm Duration (hours): <u>3.5 hours</u>
Date of Previous Storm Event: <u>10/24/16</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	5.68 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	18 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	48 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	170 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	31 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	48 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	1.40 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	1.10 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	5.5 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.49 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	>24196 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____



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 79 ELM STREET
 HARTFORD, CT 06106-5127

PERMITTEE INFORMATION

Town:	<u>Madison, Connecticut</u>		
Mailing Address:	<u>Town Offices Building, 8 Campus Drive, Madison, CT 06443-2563</u>		
Contact Person:	<u>Michael J. Ott, P.E., L.S.</u>	Title:	<u>Director of Engr. Services</u>
Phone:	<u>(203) 245-5612</u>	Permit Registration #GSM:	<u>000051</u>

SAMPLING INFORMATION

Discharge Location (Lat/Long or other description): <u>646 Boston Post Road</u>	
Please check the appropriate area description: <input type="checkbox"/> Industrial <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Residential	
Receiving Water (name, basin): <u>Long Island Sound, 5000-14</u>	
Time of Start of Discharge: <u>11:20</u>	
Date/Time Collected: <u>11/15/16, 13:00</u>	Water Temperature: <u>55 deg. F</u>
Person Collecting Sample: <u>Ted Stevens, Stevens Engineering & Environmental Services</u>	
Storm Magnitude (inches): <u>0.82 inches</u>	Storm Duration (hours): <u>3.5 hours</u>
Date of Previous Storm Event: <u>10/24/16</u>	

MONITORING RESULTS

Parameter	Method	Results (units)	Laboratory
Sample pH	SM 4500-H B	6.11 S.U.	CET, Stratford, CT (Cert.PH 0116)
Rain pH	SM 4500-H B	6.37 S.U.	CET, Stratford, CT (Cert.PH 0116)
Hardness	EPA 200.7	9.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
Conductivity	SM 2510 B	52 umhos/cm	CET, Stratford, CT (Cert.PH 0116)
Oil & Grease	EPA 1664A	ND < 5.0 mg/L	CET, Stratford, CT (Cert.PH 0116)
COD	SM 5220 D	82 mg/L	CET, Stratford, CT (Cert.PH 0116)
Turbidity	SM 180.1	17 NTU	CET, Stratford, CT (Cert.PH 0116)
TSS	SM 2540 D	21 mg/L	CET, Stratford, CT (Cert.PH 0116)
TP	EPA 365.4	0.23 mg/L	CET, Stratford, CT (Cert.PH 0116)
Ammonia	EPA 350.1	0.98 mg/L	CET, Stratford, CT (Cert.PH 0116)
TKN	EPA 351.2	1.9 mg/L	CET, Stratford, CT (Cert.PH 0116)
NO ₃ +NO ₂	EPA 300.0	0.47 mg/L	CET, Stratford, CT (Cert.PH 0116)
E. coli	SM 9223 B	1414 MPN/100ml	CET, Stratford, CT (Cert.PH 0116)

STATEMENT OF ACKNOWLEDGMENT

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Authorized Official:	<u>Michael J. Ott, Director of Engineering Services</u>
	(Print Name)
Signature: _____	Date: _____

