

Due by March 31, 2015

Notice: Pursuant to s. NR 216.07(8), Wis. Adm. Code, an owner or operator of a Municipal Separate Storm Sewer System (MS4) is required to submit an annual report to the Department of Natural Resources (DNR) by March 31 of each year to report on activities for the previous calendar year. This form is being provided by the DNR for the user's convenience. Personal information collected will be used for administrative purposes and may be provided to the extent required by Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

This form is for reporting on activities undertaken in calendar year 2014.

Instructions: Complete each section of the form that follows. If additional space is needed to respond to a question, attach additional pages. Provide descriptions that explain the program actions taken to comply with the general permit. Complete and submit the annual report by March 31, 2015, to the appropriate address indicated on the last page of this form.

SECTION I. Municipal Information

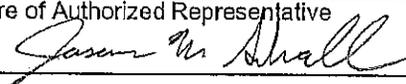
Name of Municipality CITY OF HARTFORD		Facility ID No. (FIN) 31423	
Mailing Address 109 N. Main Street	City Hartford	State WI	ZIP Code 53027
County(s) in which Municipality is located Washington	Municipality Type: (select one) <input type="radio"/> County <input checked="" type="radio"/> City <input type="radio"/> Village <input type="radio"/> Town <input type="radio"/> Other (specify)		

SECTION II. Municipal Contact Information

Name of Municipal Contact Person Jason W. Schall		Title City Engineer	
Mailing Address (if different from above) 109 N. Main Street	City Hartford	State WI	ZIP Code 53027
Email jschall@ci.hartford.wi.us	Phone Number (include area code) (262) 673-8263	Fax Number (include area code) (262) 673-8309	

SECTION III. Certification

I hereby certify that I am an authorized representative of the municipality covered under MS4 General Permit No. WI-S050075-2 for which this annual report is being submitted and that the information contained in this document and all attachments were gathered and prepared under my direction or supervision. Based on my inquiry of the person or persons under my direction or supervision involved in the preparation of this document, to the best of my knowledge, the information is true, accurate, and complete. I further certify that the municipality's governing body or delegated representatives have reviewed or been apprised of the contents of this annual report. I understand that Wisconsin law provides severe penalties for submitting false information.

Authorized Representative Printed Name Jason W. Schall	Authorized Representative Title City Engineer		
Signature of Authorized Representative 	Date 3-4-15		
Email jschall@ci.hartford.wi.us	Phone Number (include area code) (262) 673-8263	Fax Number (include area code) (262) 673-8309	

SECTION IV. General Information

a. Describe what efforts the municipality has undertaken to invite the municipal governing body, interest groups, and the general public to review and comment on the annual report.

The Annual Report is posted on the City's Stormwater Management website at ci.hartford.wi.us/stormwater.htm each year after presentation to the Public Works Committee which is televised on the City's Charter Cable Channel 99/979. The general public is provided with an opportunity to review the document, ask questions, or request additional information and is encouraged to comment on the Annual Report. Electronic copies are also provided to all elected officials including the Mayor. The Annual Report is distributed to and discussed at Staff Project Meetings and Common Council Meetings. A copy of the report is also available at the Jack Russell Memorial Library.

SECTION IV. General Information (continued)

- b. Describe how elected and municipal officials and appropriate staff have been kept apprised of the municipal storm water discharge permit and its requirements.

Through the City's implementation and approval process each new storm water improvement measure offers officials and staff opportunities to review and comment at Project Meetings, Staff Meetings, Public Works Committee and Common Council Meetings including Budget Hearings. Staff has attended continuing education seminars, one of which included hydraulics. The City became a member of the Local Government Storm Water Group through the League of Wisconsin Municipalities and the Rock River Coalition. A copy of the City's Storm Water Management Plan is on the City's website and available at the City Engineering Department. Staff has been updated on changing storm water issues and projects through presentation at Department Head meetings or on an individual basis.

- c. Has the municipality prepared its own municipal-wide storm water management plan? Yes No

If yes, title and date of storm water management plan:

The City's Ordinance creating Chapter 20 of the Hartford Municipal Code entitled "Erosion Control and Stormwater Management" was adopted by the Common Council on May 12, 2009.

- d. Has the municipality entered into a written agreement with another municipality or a contract with another entity to perform one or more of the conditions as provided under section 2.10 of the general permit? Yes No

If yes, describe these cooperative efforts:

Clean Ways for Waterways which is a joint Public Education and Outreach program with Washington County that includes website access and video stormwater education and participation in two Clean Sweep Hazardous Waste Collections at County facilities each year.

- e. Does the municipality have an internet website? Yes No

If yes, provide web address:

ci.hartford.wi.us

If the municipality has an internet website, is there current information about or links provided to the MS4 general permit and/or the municipality's storm water management program?

Yes No

If yes, provide web address:

ci.hartford.wi.us/stormwater.htm

SECTION V. Permit Conditions

- a. Minimum Control Measures: For each of the permit conditions listed below, provide a description of the implementation of each program element, the status of meeting measurable goals, and compliance with permit schedule in section 2.11 of the MS4 general permit. Provide an evaluation of program compliance with the general permit, the appropriateness of identified best management practices, and progress towards achieving identified measurable goals. Be specific in describing the actions that have been taken during the reporting year to implement each permit condition and whether measurable goals have been met, including any data collected to document a measurable goal. Also, explain the reasons for any variations from the compliance schedule in the MS4 general permit.

• Public Education and Outreach

Continued involvement with Washington County's "Clean Ways for Waterways" Nonpoint Source Pollution Control Education and Outreach Program which has a website domain <http://cleanways.org> linked to the City's website, and the County's Clean Sweep Program.

Promoting the efforts of the Rock River Coalition on the City's website (www.rockrivercoalition.org) as well as the UW Extension which address the educational and involvement requirements of the permit.

Handouts and educational storm water material is located outside of the Public Works/Engineering Office at City Hall as well as a bulletin board displaying storm water pollution prevention information.

The City's website offers public education and outreach including proper discharge of your Sump Pump, Storm Drain Facts, Lawn Care & Grass Clippings, Disposal of Hazardous Waste, Leaf Pick-up, Roof Runoff & Downspouts Fact Sheet, and Rain Gardens.

SECTION V. Permit Conditions (continued)

• Public Involvement and Participation

The City has a Pollution Concern Hotline available on their website for the public to report possible pollution concerns which can be filed either by email or phone. These complaints are investigated by City Staff under the Illicit Discharge Detection and Elimination Plan adopted by the City of Hartford. During 2014 there were only three such complaints which were documented and followed up on. During rain events many more calls are received from residents reporting backed up water where catch basins had become plugged.

The Public Involvement and Participation Plan recognizes every citizen's right to participate in the process of making local government decisions. The review of the Annual Report under MS4 General Permit via public meeting which is broadcast on Cable TV provides citizens with opportunities to interject ideas.

During 2014 the Hartford Recreation Department sponsored their annual Spring Cleanup along the Rubicon River throughout the City limits and the Hartford Garden Club provided plantings at several sites throughout the City; the Boy Scouts also participated in the annual Arbor Day Tree Planting at City Parks. When the City replaced the Bulkhead wall along the south side of the Mill Pond in the downtown area of the City of Hartford citizens were invited to assist with the cleanup of metal items from the bottom of the pond after it was drained.

• Illicit Discharge Detection and Elimination

Visual (dry weather) Outfall screenings are performed every year along the Rubicon River bank (which includes the Industrial Parks), and all Outfalls larger than 24" within the City of Hartford. The City's storm water system is divided into three Districts and each year one of these Districts is inspected as outlined in the City's Illicit Discharge Detection & Elimination Plan (last updated in March 2012). Each Outfall screening is documented in a Field Inspection Report including a photo inserted into the Report (See attached example). During 2014 Engineering Department Staff inspected 374 Outfalls (186 larger than 24", 94 along the Rubicon River, and 94 in District 3). None of the Outfalls exhibited noticeable or unusual turbidity, odor, surface sheen or staining.

The Public Works Department Staff cleaned and/or repaired 67 Outfalls during 2014 by removing sediment and vegetation, re-landscaping any washout around Outfalls, tuck-pointing, ditching, reworking pipe, placing new fabric and rip rap or digging out buried ends (See attached list).

The City maintains a HACH Storm Water Test Kit (Cat. No. 24813-00) for on-site investigation of possible illicit discharges which tests for total chlorine, total copper, detergents, PH, phenols, and chloroform.

• Construction Site Pollutant Control

The City's Erosion Control and Stormwater Management Ordinance (Chapter 20) of the Hartford Municipal Code administers and regulates construction sites according to the standards and procedures contained within the ordinance. The City has in place a Construction Site Inspection and Enforcement Procedure outlining responsibilities and procedure for enforcement actions. When contractors apply for building permits they are given a packet of information which includes the Erosion Control Permit Application, Conditions of Approval for Erosion Control, a Notice regarding enforcement and a Brochure for Clean Ways for Waterways.

During the 2014 summer construction season three construction site pollution controls were violated. One was reported to the DNR as a Sanitary Sewage Overflow on Form 3400-184 when a contractor opened up a broken sewer pipe during a reconstruction project and a 2 minute overflow occurred. A second violation occurred when a ready mix truck driver cleaned its chute on the street thereby washing pollutants into the storm drain. Ready mix drivers in the area were then mailed letters with Concrete Products Operations Fact Sheets. The third incident was caused by a contractor failing to adequately install tracking pads at a commercial construction site. Erosion Control measures are monitored for effectiveness after building permits have been issued by the Building Inspector. Both the Engineering Department and Street Department respond to complaints and track regulated construction sites.

• Post-Construction Storm Water Management

All of the City's 80 Storm Water Ponds and their Outfalls are inspected and photographed by Engineering Department Staff using the City's Storm Water Management System Maintenance Checklist and the System Map. A summary report of needed repairs is given to the City Engineer and Public Works Director to correct deficiencies.

Storm Water Maintenance Agreements are required for sites which disturb more than one acre of land. During 2014 there were no new Storm Water Pond Maintenance Agreements; 41 Erosion Control Permits were issued (5 Commercial, 1 Industrial, and 35 Residential).

SECTION V. Permit Conditions (continued)

• **Pollution Prevention**

In 2014 the Public Works Department spent approximately 375 hours Street Sweeping in compliance with the City's Street Sweeping Policy (See attached) which included two complete rounds of sweeping the entire City. The downtown area is swept on a more regular time frame. Public Works Department Staff cleaned out three storm water drainage ditch lines (Misty Meadows Boulevard, Chippewa Drive-east side at Dakota Drive, and South Wilson Avenue at East Loos Street). City crews cleaned or repaired 266 Catch Basins during 2014 and completed 86 Field Inspection reports and documenting locations completed on the Storm Water System Map. Quarterly Municipal Yard Inspections were completed and Checklists were filled out in compliance of the Public Works Yard Storm Water Pollution Prevention Plan. Any salt spillage was cleaned up and contained. The annual WisDOT inspection of the Salt Storage Shed was performed on 3/17/2014 which reported small caked salt piles at the door opening was cleaned up. The Park & Recreation Department uses True Green to fertilize the baseball fields and Park System following an approved turf nutrient management plan. The City adopted an ordinance requiring demand based water softening systems to reduce chloride effluent limits under the City of Hartford's WPDES Permit. The Wastewater Treatment Plant started a trial program of using cerium chloride for phosphorus removal which lowers chemical sludge volumes and has a minimal impact on water pH compared to traditional coagulants.

b. Winter Road Management Activities (Optional reporting for 2014):

Provide the name, title, and phone number for the individual(s) with overall responsibility for winter roadway maintenance.

Darryl Kranz, Director of Public Works - (262) 673-8225

Describe the types of products used for winter road management (e.g. deicing, pre-wetting, salting; etc.).

Sodium Chloride (Bulk Highway Coarse W/YPS) under the WisDOT Bid; and sodium chloride salt brine purchased from Washington County as an effective prewetting deicer.

Describe the type of equipment used to apply the products.

The City of Hartford uses 9 plow trucks with wingplow attachments and two end loaders during each snow event more than 2 inches. The Public Works Department has three rubber plow blades installed on plow trucks to scrape snow closer to the pavement and two trucks are equipped to use the Varitech Prewetting System of spraying deicing salt brine to decrease salt usage. The City does not pre-wet streets before applying road salt.

Report the amount of product used per month.

1,800 tons of sodium chloride road salt were used for the 2013/2014 winter season. 1,500 gallons of sodium chloride salt brine was also used.

Report the snow disposal locations, if snow is hauled away.

Snow from downtown parking areas is hauled to a snow storage area approved by the DNR behind the Recreation Center.

Describe any anti-icing, equipment calibration, and salt reduction strategies considered.

Once the two State Highways running through the City of Hartford are resurfaced/reconstructed in 2015 and 2016 plows will be able to clean the snow closer to the pavement and less salt will be needed to melt the snow/ice.

Describe any other additional measurable data or information that the permittee used to evaluate its winter road management activities.

Weather/temperature monitoring data provided by local weather stations to determine storm severity and ground temperature. Anti-icing, or applying pre-wetted salt, well in advance of a storm to prevent a bond between snow and ice and pavement is used, depending on the temperature, as a way to reduce the volume of salt required.

SECTION V. Permit Conditions (continued)

c. Municipal facility(s) (Optional reporting for 2014):

Provide an inventory of municipally owned or operated structural storm water management facility(s), include: Location of each facility and contact information for the individual(s) with overall responsibility for each facility.

Inventory is under development.

Jason Schall, City Engineer, (262) 673-8263

Describe the housekeeping activities and best management practices installed to reduce or eliminate storm water contamination.

See Section V (e)

Discuss recommendations for improvements to current storm water management practices at the facility(s) and a timeline for installation and/or implementation of these recommendations.

Will develop a plan in 2015

Describe the municipal facility(s) employee training on storm water pollution prevention provided.

Will develop a plan in 2015.

Describe the spill prevention and response procedures in place at the municipal facility(s).

Under development

d. Storm Water Quality Management: Has the municipality completed a pollutant-loading analysis to assess compliance with the 20% TSS reduction developed urban area performance standard? Yes No

If yes, provide the following: Model used SLAMM Version 10.1 Reduction (%) 22

If no, include a description of any actions the municipality has undertaken during 2014 to help achieve the 20% standard.

Has the municipality completed an evaluation of all municipal owned or operated structural flood control facilities to determine the feasibility of retrofitting to increase TSS removal? Yes No

If yes, describe:

e. Best Management Practices Maintenance: Does the municipality have a maintenance program for installed storm water best management practices? Yes No

If yes, describe the maintenance program and any maintenance activities that have occurred for best management practices in 2014. If available, attach any additional information on the maintenance program.

The City of Hartford has a Long-Term Management Plan & Strategy which is updated annually during Capital Improvement Program budgeting (See attached plan for 2014). Approximately 247 L.F. of storm water pipe was added/replaced during the 2014 construction season to improve drainage between Mill Street, North Main Street and North Johnson Street in the downtown area of the City. All 80 storm water ponds and 373 outfalls were inspected documenting current conditions (See attached forms used: Field Inspection Report for Outfalls and Storm Water Management System Maintenance Checklist for Ponds).

With the assistance of the Public Works Department and Wastewater Treatment Plant Staff, the City has implemented a program to clean storm sewer lines and catch basins and continues to install new catch basins and manholes with sumps when replacement is necessary and when new structures are constructed. The Public Works Department inspected/cleaned/repared 242 catch basins in 2014.

The Wastewater Department televises storm water pipes as requested to make sure pipes are in good condition when planning roadway reconstruction projects.

The City's Street Sweeping Policy outlines three rounds of sweeping the City, however, due to retirements and budget constraints, the Public Works Dept. was understaffed for a few months and only two rounds of street sweeping were performed in 2014.

SECTION V. Permit Conditions (continued)

- f. **Storm Sewer System Map:** Describe any changes or updates to the storm sewer system map made in the reporting year. Provide an updated map if any changes occurred during the reporting year.
Each year the Storm Water System Map is updated to include any additional storm water BMPs implemented as a result of street reconstruction or commercial/industrial site improvements. The updated map is available on the City of Hartford's website: http://ci.hartford.wi.us/Municipal_Depts/stormwater/STORM_2015.dwf

SECTION VI. Fiscal Analysis

- a. Provide a fiscal analysis that includes the annual expenditures for 2014, and the budget for 2014 and 2015. A table to document fiscal information is provided on page 8.

**** SEE STORM WATER MANAGEMENT BUDGET ON TABLE PROVIDED ****

- b. What financing/fiscal strategy has the municipality implemented to finance the requirements of the general permit?

Storm water utility General fund Other _____

- c. Are adequate revenues being generated to implement your storm water management program to meet the permit requirements? Yes No

Please provide a brief summary of your financing/fiscal strategy and any additional information that will assist the Department in understanding how storm water management funds are being generated to implement and administer your storm water management program.

The City of Hartford continues to budget and document storm water costs under the General Funds which will be used in the future to possibly set up a Storm Water Utility Program.

SECTION VII. Inspections and Enforcement Actions

Note: If an ordinance listed below has previously been submitted and has not been amended since that time, a copy does not need to be submitted again. If the ordinance was previously submitted, indicate such in the space provided.

- a. As of the date of this annual report, has the municipality updated or revised its construction site pollutant control ordinance in accordance with subsection 2.4.1 of the general permit? Yes No If yes, attach copy or provide web link to ordinance:
ci.hartford.wi.us/MunicipalCode/Chapters/MUNICIPAL_CODE_CHAP-20.pdf (Section 20.05, Pg 20-2)
- b. As of the date of this annual report, has the municipality updated or revised its post-construction storm water management ordinance in accordance with subsection 2.5.1 of the general permit? Yes No
If yes, attach copy or provide web link to ordinance: [MUNICIPAL_CODE_CHA-20.pdf](#) (Sec. 20.09-20.12, Pg 20-14 - 28)
- c. As of the date of this annual report, has the municipality updated or revised its illicit discharge detection and elimination ordinance in accordance with subsection 2.3.1 of the general permit? Yes No If yes, attach copy or provide web link to ordinance:
ci.hartford.wi.us/MunicipalCode/Chapters/MUNICIPAL_CODE_CHAP-20.pdf (Section 20.50, Pg 20-37)
- d. As of the date of this annual report, has the municipality adopted any other ordinances it has deemed necessary to implement a program under the general permit (e.g., pet waste ordinance, leaf management/yard waste ordinance, parking restrictions for street cleaning, etc.)? Yes No If yes, attach copy or provide web link to ordinance:

- e. Provide a summary of available information on the number and nature of inspections and enforcement actions conducted during the reporting period to ensure compliance with the ordinances described in a. to d. above.

During 2014 the Building Inspection Department issued 59 Building Permits (35 Residential, 13 Commercial, 8 Two Family, and 3 Industrial) for new construction or remodel. There were no permits issued for multi-family buildings. There were no new subdivision developments during 2014.

The Building Inspection Department issued 41 Erosion Control Permits during 2014 (35 Residential, 5 Commercial and 1 Industrial); the inspector gave 18 verbal/written notices to enforce compliance to contractors (1 Commercial and 17 Residential). It was also necessary for him to give 6 Stop Work Orders to the residential contractors to enforce erosion control compliance.

SECTION VIII. Water Quality Concerns

- a. Does any part of the MS4 discharge to an outstanding resource water (ORW) or exceptional resource water (ERW) listed under s. NR 102.10 or 102.11, Wis. Adm. Code? (A list of ORWs and ERWs may be found on the Department's Internet site at: <http://dnr.wi.gov/topic/surfacewater/orwerw.html>) Yes No If yes, list:
- b. Does any part of the MS4 discharge to an impaired waterbody listed in accordance with section 303(d)(1) of the federal Clean Water Act, 33 USC § 1313(d)(1)(C)? (A list of the most current Wisconsin impaired waterbodies may be found on the Department's Internet site at: <http://dnr.wi.gov/water/impairedsearch.aspx?status=303d>) Yes No If yes, complete the following:
- Impaired waterbody to which the MS4 discharges:
Rubicon River (ID # 11555, WBIC # 856500) - See attached
 - Description of actions municipality has taken to comply with section 1.5.2 of the MS4 general permit for discharges of pollutant(s) of concern to an impaired waterbody:
Continue to monitor existing BMPs and any new developments are required to comply with the City's Storm Water Ordinance.
- c. Identify any known water quality improvements in the receiving water to which the MS4 discharges during the reporting period.
NONE
- d. Identify any known water quality degradation in the receiving water to which the MS4 discharges during the reporting period and what actions are being taken to improve the water quality in the receiving water.
NONE

SECTION IX. Proposed Program Changes

Describe any proposed changes to the storm water management program being contemplated by the municipality for 2015 and the schedule for implementing those changes. Proposed program changes must be consistent with the requirements of the general permit.

The City's Storm Water Ordinance (Chapter 20 of the Hartford Municipal Code) will be revised to comply with NR 151 requirements.

SECTION X. Other

Any other additional information the permittee would like to provide in the Annual Report regarding their storm water program?

Fiscal Analysis Table. Complete the fiscal analysis table provided below.

Program Element	Annual Expenditure 2014	Budget		Source
		2014	2015	
Public Education and Outreach	4,363	4,747	3,520	Account No. 100.323.53410
Public Involvement and Participation	4,998	3,329	3,924	Account No. 100.323.53410
Illicit Discharge Detection and Elimination	5,950	4,401	5,302	Account No. 100.323.53410
Construction Site Pollutant Control	4,135	2,825	3,232	Account No. 100.323.53410
Post-Construction Storm Water Management	4,597	4,279	3,812	Account No. 100.323.53410
Pollution Prevention	66,251	84,557	51,046	Account No. 100.323.53410
Storm Water Quality Management (including pollutant-loading analysis)	24,962	19,711	19,717	Account No. 100.323.53410
Storm Sewer System Map	8,690	9,486	13,997	Account No. 100.323.53410
Other: Storm Water Pond Management	22,923	35,394	34,957	Account No. 100.323.53410

NORTHERN REGION COUNTIES

Ashland	Langlade	DNR Service Center
Barron	Lincoln	Attn: Storm Water Program
Bayfield	Oneida	5301 Rib Mountain Rd.
Burnett	Polk	Wausau, WI 54401
Douglas	Price	Phone: (715) 359-4522
Florence	Rusk	
Forest	Sawyer	
Iron	Taylor	
	Vilas	
	Washburn	

WEST CENTRAL REGION COUNTIES

Adams	Marathon	DNR Service Center
Buffalo	Monroe	Attn: Storm Water Program
Chippewa	Pepin	5301 Rib Mountain Rd.
Clark	Pierce	Wausau, WI 54401
Crawford	Portage	Phone: (715) 359-4522
Dunn	St. Croix	
Eau Claire	Trempealeau	
Jackson	Vernon	
Juneau	Wood	
La Crosse		

NORTHEAST REGION COUNTIES

Brown	Marquette	DNR Northeast Region
Calumet	Menominee	Attn: Storm Water Program
Door	Oconto	2984 Shawano Ave.
Fond du Lac	Outagamie	Green Bay, WI 54313
Green Lake	Shawano	Phone: (920) 662-5100
Kewaunee	Waupaca	
Manitowoc	Waushara	
Marinette	Winnebago	

SOUTH CENTRAL REGION COUNTIES

Columbia	Jefferson	DNR South Central Region
Dane	LaFayette	Attn: Storm Water Program
Dodge	Richland	3911 Fish Hatchery Rd.
Grant	Rock	Fitchburg, WI 53711
Green	Sauk	Phone: (608) 275-3266
Iowa		

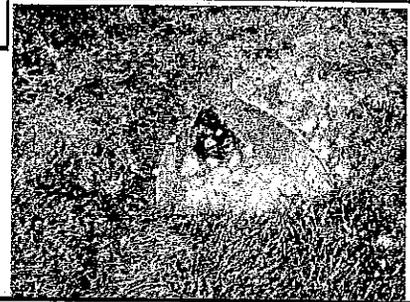
SOUTHEAST REGION COUNTIES

Kenosha	Sheboygan	DNR Service Center
Milwaukee	Walworth	Attn: Storm Water Program
Ozaukee	Washington	141 NW Barstow Street,
Racine	Waukesha	Room 180
		Waukesha, WI 53188
		(262) 574-2100

FIELD INSPECTION REPORT				
<i>Illicit Discharge Storm Sewer Inspection</i>				
Location:	South Wilson Ave @ Dakota (east side) - 03-0353-OF			
Inspection Date:	7/24/2014	Time:		
Department:	Engineering			
Crew Name:	Thomas Fahl			
Observation of Illicit Discharge or Connection:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Time of Last Rain:	<input type="checkbox"/> ≤ 24 Hrs.	<input type="checkbox"/> ≤ 48 Hrs.	<input checked="" type="checkbox"/> ≤ 72 Hrs.	
Pipe Flow:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> ≤ 1/4 Pipe	<input type="checkbox"/> ≤ 1/2 Pipe	<input type="checkbox"/> ≤ 3/4 Pipe
	<input type="checkbox"/> Full	<input type="checkbox"/> Trickle		
Pipe Submergence:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> ≤ 1/4 Pipe	<input type="checkbox"/> ≤ 1/2 Pipe	<input type="checkbox"/> ≤ 3/4 Pipe
	<input type="checkbox"/> Full			
Comments:	Sediment is starting to accumulate			
	2011 →			



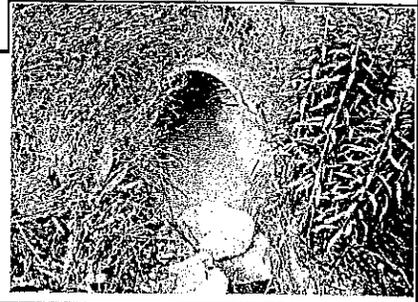
2014 PHOTO



FIELD INSPECTION REPORT				
<i>Illicit Discharge Storm Sewer Inspection</i>				
Location:	Dakota Drive (between 731 & 747) - 03-0354-OF			
Inspection Date:	7/24/2014	Time:		
Department:	Engineering			
Crew Name:	Thomas Fahl			
Observation of Illicit Discharge or Connection:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		
Time of Last Rain:	<input type="checkbox"/> ≤ 24 Hrs.	<input type="checkbox"/> ≤ 48 Hrs.	<input checked="" type="checkbox"/> ≤ 72 Hrs.	
Pipe Flow:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> ≤ 1/4 Pipe	<input type="checkbox"/> ≤ 1/2 Pipe	<input type="checkbox"/> ≤ 3/4 Pipe
	<input type="checkbox"/> Full	<input type="checkbox"/> Trickle		
Pipe Submergence:	<input checked="" type="checkbox"/> None	<input type="checkbox"/> ≤ 1/4 Pipe	<input type="checkbox"/> ≤ 1/2 Pipe	<input type="checkbox"/> ≤ 3/4 Pipe
	<input type="checkbox"/> Full			
Comments:				
	2011 →			



2014 PHOTO



Storm Water Management System Maintenance Checklist

Location NE of Shyann, CT

Inspector Name: Thomas Fahel

Date of Inspection: 5/23/14

Check if storm water management system has multiple ponds _____

Evaluation Criteria:

0 = Not a Problem

1 = Monitor condition for possible future maintenance

2 = Maintenance recommended

3 = Immediate maintenance needed

General Site Condition		Comments
Trash or debris	NA (0) 1 2 3	
Erosion	NA (0) 1 2 3	
Vegetation	NA (0) 1 2 3	
Excessive sediment	NA (0) 1 2 3	
Other ()	NA 0 1 2 3	

Pond Number/Identifier (not needed with single pond systems):

Pond		Comments
Trash or debris in pond	NA (0) 1 2 3	
Sediment deposits	NA (0) 1 2 3	
Chemicals or Oil present	NA (0) 1 2 3	
Vegetation	NA (0) 1 2 3	
General Condition	NA (0) 1 2 3	
Other ()	NA 0 1 2 3	

Inlet/Outlets		Comments
Trash or debris blocking opening	NA (0) 1 2 3	
Sediment in opening	NA (0) 1 2 3	
Structural Condition	NA (0) 1 2 3	
Low Flow opening clear	NA (0) 1 2 3	
Vegetation	NA (0) 1 2 3	
Missing or damaged frames, covers, grates, etc.	NA (0) 1 2 3	
Other ()	NA 0 1 2 3	

Emergency Spillway and Embankment		Comments
Trash or debris	NA (0) 1 2 3	
Spillway Erosion	NA (0) 1 2 3	

**CITY OF HARTFORD
STREET SWEEPING POLICY**

I. INTRODUCTION

In the best interest of the residents of the City of Hartford, the Public Works Department shall assume basic responsibility for sweeping public streets. Reasonable sweeping is necessary for vehicle and pedestrian safety, water quality, and environmental concerns. The City shall provide such service in a cost-effective manner keeping in mind safety; limited equipment, budget, and personnel; and environmental concerns. The City will use City equipment and City employees to provide this service. Completion dates are dependent upon weather conditions and employee and equipment availability. The Public Works Director or his designee shall be responsible for scheduling of employees and equipment.

II. COMMENCING SWEEPING OPERATIONS

- A. First round sweeping, which typically occurs in spring, shall begin as soon as possible when streets are generally clear of snow and ice. First round sweeping, designed to pick up the bulk of the aggregate, usually begins between mid March and mid April and is typically completed in early May.
- B. Second round sweeping picks up the aggregate missed during the first round. Second round sweeping normally requires less equipment than first round. Second round sweeping is typically scheduled to begin one month after completion of first round sweeping.
- C. Third round sweeping, or fall sweeping, is typically scheduled to begin the third week of October and completed by the last week in November, weather permitting. Areas with extensive foliage shall be swept after most leaves have fallen.
- D. Sweeping operations are conducted as necessary THROUGHOUT THE YEAR. Sweeping operations should focus on watershed areas which drain directly to significant water bodies, major roads, and the DOWNTOWN AREA. Some factors that may prohibit or delay sweeping operations include temperatures below 32 degrees Fahrenheit, wind, heavy rain, and frozen gutter lines.
- E. Police Department and citizen requests for sweeping shall be evaluated by the Public Works Director or his designee and a priority status determined.

III. STREET SWEEPING PROCEDURE

Sweeping is a slow process with gutter line speeds that can be as low as two to three miles per hour. The City will sweep with its own equipment and manpower to complete an operation. Typically, centerlines are swept after gutter lines are cleaned. Equipment used includes mechanical, vacuum sweeper.

Street sweepings are taken to the Wastewater Treatment Plant grounds and deposited in a drying bed; once the material is dried the material is then hauled to a licensed landfill for disposal.

IV. PRIORITIES

The City has prioritized sweeping of City streets with attention to sensitive areas based on the street function, traffic volume, impact on water quality and the environment, and the welfare of citizens in the community, taking into consideration the following:

- A. Storm Water Management Plan
- B. Downtown watershed (swept at least two times per month) during warm weather season

V. WORK SCHEDULES

Sweeping operations are performed in conjunction with other maintenance operations. Sweeping operations are normally to be conducted Monday through Friday, from 7:00 a.m. to 3:30 p.m. Sweeping may be restricted due to hazardous weather conditions. Extended workdays may be expected for spring cleanup or emergency sweeping operations.

LEAF PICKUP PROGRAM

CITY OF HARTFORD – STORM WATER POLLUTION PREVENTION

Contrary to what many people believe, the water that goes into the storm drainage system is **not** treated at wastewater treatment plants. Rather, it drains *directly* into our rivers and streams. And most people don't realize that leaves can be a nagging source of storm water pollution. In autumn, leaves make their way into our rivers and streams when rain washes them down the storm drains. Once they get into the water, the leaves release nutrients that contribute to the accelerated growth of algae. The result is a greenish-tinted river or stream choked with foul smelling, dying algae that can kill fish and other aquatic critters and generally make water recreation an unpleasant experience. So in autumn, **follow the City of Hartford's simple guidelines** and keep leaves out of the water by keeping them out of catch basins and storm drains:

The City of Hartford picks up leaves each fall between about October 15th and November 25th prior to permanent snowfall. During this six-week time period the City will collect leaves curbside approximately 4 or 5 times on all City streets. The city-wide leaf collection operation takes Public Works Department employees approximately 3 days depending on the size of the piles raked curbside by residents. This effort takes four men, two loaders, a tractor with broom, and the garbage truck. City crews usually start on Monday (weather permitting) and work until they have covered the entire city. If there aren't many leaf piles out, they will wait until enough leaves are raked to the curb to make it worthwhile for the men and equipment to go out and do the job.

Leaf piles must NOT contain brush, vines or grass clippings because these materials damage the equipment and cause breakdowns. Mixed piles of leaves and brush will not be collected.

Leaves should always be at least ten (10') feet away from catch basins or storm drains. NEVER cover a storm drain!

The collected leaves are hauled to local farms and used as mulch. Instead of raking leaves into the street residents can pack them around perennials or flowerbeds as insulation against the cold winter. If you have a vegetable garden, spread the leaves on top of it and then rototill them into the soil to enrich it for the next year's crop. Leaves are a valuable addition to a well-maintained compost pile. Compost leaves in a pile or bin to create a nutrient-rich soil amendment that can be used all over the yard or garden.

The City does not have curbside pickup of leaves in the Spring. Residents need to bag their leaves and drop them off at the Recycling Center's compost bin *Thursday evenings* between 5:00 p.m. and 7:00 p.m. and *Saturday mornings* between 9:00 a.m. and 12:00 noon.

The City recognizes that most residents readily comply with the guidelines set forth in this program and appreciates their efforts. Individually, we contribute little pollution. Collectively, our urban households have a damaging effect on the local rivers and streams through simple neglect and lack of awareness.

**OUTFALLS
CLEANED OR REPAIRED - 2014**

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Number	Street	Date	Comments
01-0181-OF	N Wacker Dr at Windsong Crossing Pond	10/16/2014	Removed Trees and Cleaned Outfall; recommended that ditch be cleaned
01-0207-OF	Cleveland Ave, 81	10/14/2014	Repaired Outfall
01-0217-OF	N Wacker Dr at Madison Dr	6/12/2014	Complete cleanout, repaired eroding ground, placed fabric & rip rap
01-0220-OF	W State St, west of Airport Dr	10/1/2014	Replaced bad section of Culvert
01-0234-OF	E Prospect, NE of Pond	10/16/2014	Cleared end of Outfall Pipe
01-0235-OF	E Prospect, 320 (Pond)	10/16/2014	Overflow for Country View Pond - need to cut trees
01-0236-OF	E Prospect St, 320 (Pond)	10/16/2014	Cleaned entire Pond; needs trees cut out
01-0254-OF	Mill Pond, west of N Grand	5/13/2014	Cleaned out Sediment from Outfall
01-0265-OF	Rubicon River, east of Grand	5/13/2014	Cleaned out Sediment from Outfall
01-0282-OF	N Wilson North of RR Tracks	7/15/2014	Cleaned Debris from Outfall
01-0284-OF	N Wilson @ RR Tracks	5/16/2014	Cleaned out Sediment from Outfall
01-0289-OF	Karen Court @ RR Tracks	4/15/2014	Had Collapsed; Reworked Pipe (New line west of old brick culvert)
01-0319-OF	North of Gateway Avenue	5/13/2014	Cleaned out Sediment from Outfall
01-0551-OF	Airport Dr along Rettler Farms Sub	5/13/2014	Cleaned out Sediment from Outfall
02-0001-OF	S Goodland Rd & Innovation	5/28/2014	Cleaned out Sediment from Outfall
02-0003-OF	Innovation Way, 2011	9/30/2014	Cut and Removed Weeds
02-0004-OF	Innovation Way, 1950	10/13/2014	Cleared out Debris & Trees
02-0005-OF	Innovation Way, 1800	10/13/2014	Cleared out Debris & Trees
02-0006-OF	Innovation Way, 1911	9/30/2014	Cleared out Weeds & Grass - Pipe is Clean
02-0007-OF	Innovation Way, 1911	9/30/2014	Cleared out Weeds & Grass - Pipe is Clean
02-0015-OF	Innovation Way, west of RR	10/10/2014	Cleared Trees around Outfall
02-0024-OF	Constitution Ave, 2150	10/13/2014	Cleaned out Ditch near Outfall
02-0026-OF	Constitution Ave @ RR Track	5/28/2014	Cleaned out Sediment from Outfall
02-0027-OF	Constitution Ave @ Independence Ave	5/28/2014	Cleaned out Sediment from Outfall
02-0034-OF	Independence Ave @ RR Tracks	5/28/2014	Cleaned out Sediment from Outfall
02-0039-OF	Independence Ave, North of Rubicon River	8/25/2014	Cleaned out Sediment from Outfall
02-0040-OF	Independence Ave, South of Rubicon River	8/25/2014	Cleaned out Debris and added rip rap
02-0041-OF	Liberty Ave & Independence	5/28/2014	Cleaned end of Pipe & Reshape Ditch
02-0044-OF	Independence Ave, south of Quad	10/2/2014	Dug out buried end
02-0045-OF	STH 60, West	9/15/2014	Cleared Grass & Weeds
02-0061-OF	Constitution Ave, 2150	9/16/2014	Pipe under R/R are separated allowing stone & debris to fall into Outfall

Number	Street	Date	Comments
02-0062-OF	Constitution Ave, 2150 - rear	9/16/2014	Pipe under R/R are separated allowing stone & debris to fall into Outfall
02-0073-OF	Wal-mart Pond - Liberty Ave	9/15/2014	Rocks are clear of Outfall
02-0076-OF	Wal-mart Pond - Liberty Ave	9/15/2014	Rocks are clear of Outfall
02-0080-OF	W Washington Ave, 841	10/14/2014	Cleaned out Sediment from Outfall
02-0081-OF	W Washington Ave, 841	10/14/2014	Cleaned out Sediment from Outfall
02-0085-OF	Tahoe Lane & Pond Road	10/03/2014	Cleaned out Sediment from Outfall
02-0086-OF	Durango Dr & Pond Road	10/03/2014	Cleaned out Sediment from Outfall
02-0090-OF	Zeeba Hills Sub, Imperial	10/3/2014	Cleaned Outfall & Removed Small Trees
02-0091-OF	Zeeba Hills Sub, E of Wacker	10/13/2014	Dug out and Cleaned Outfall
02-0098-OF	Western Drive, 1174	10/3/2014	Cleared Debris from Outfall
02-0101-OF	Western Drive Pond, east	10/3/2014	Suggested that Engineering Dept look at it
02-0105-OF	Western Drive Pond, east	10/3/2014	Pipe is clear; rocks filter water from concrete trucks
02-0107-OF	Western Drive Small Pond	10/3/2014	Pipe is 3/4 under water, but clear
02-0117-OF	N Wacker Dr at R/R Tracks	10/16/2014	Cleared away Debris
02-0126-OF	Rubicon River @ W Jackson	9/30/2014	Jetted Pipe (was 3/4 full)
02-0133-OF	Grant Street, 143	10/1/2014	Cut and Removed Weeds
02-0138-OF	Mueller Road, north of Birch Lane	10/3/2014	Removed stone & cleaned Outfall
02-0145-OF	W Monroe Ave, south of Pool	10/14/2014	Cleaned out Sediment from Outfall
02-0147-OF	W Monroe Ave, south of Pool	10/14/2014	Cleaned out Sediment from Outfall
02-0151-OF	W Sumner St along River	5/13/2014	Cleaned out Sediment from Outfall
02-0549-OF	Budd Street, south side	10/14/2014	Cleaned Outfall & Removed Vegetation
02-0627-OF	Liberty Ave, SW end of Pond	10/2/2014	Cleaned out Sediment from Outfall
03-0349-OF	Wilson Wetlands @ ballfield	10/16/2014	Weeded & Cleaned Outfall
03-0351-OF	S Wilson Ave, 1203	8/11/2014	Dug out Sediment with Backhoe
03-0355-OF	Dakota Dr, 842	8/11/2014	Hand Cleaned Overgrown Grass
03-0383-OF	S Wilson Avenue, east side	9/30/2014	Removed Trees & Debris from Endwalls
03-0384-OF	S Wilson Avenue, east side	9/30/2014	Removed Trees & Debris from Endwalls
03-0417-OF	S Wilson Ave/rear lots of Ridge View Dr	10/16/2014	Cleared brush & debris from endwall
03-0467-OF	Bluebell Dr & Hall Rd	8/11/2014	Dug out end of Outfall with Backhoe
03-0484-OF	E Sumner/Wayside	8/11/2014	Dug out Sediment with Backhoe
03-0486-OF	E Sumner St @ Teri Lane	8/11/2014	Hand Cleaned Debris
03-0499-OF	E Sumner @ Pike Lake	5/13/2014	Hand cleaned out sediment from Outfall
03-0500-OF	E Sumner @ Pike Lake	5/13/2014	Hand cleaned out sediment from Outfall
03-0504-OF	E Sumner St @ Pike Lake	10/16/2014	Cleaned out Sediment from Outfall
03-0505-OF	Franklin Drive, 5880	8/11/2014	Dug out Sediment with Backhoe
03-0513-OF	E Sumner St, SE of Gateway Estates Sub	8/11/2014	Clear Weeds & Hand Dug Sediment
Excel/Illicit Discharge/Field Inspections 2014/Outfalls Cleaned			

LONG-TERM MANAGEMENT PLAN & STRATEGY - UPDATED 1/1/2015
(40% TSS Reduction - Maximum Extent Practicable)

Capital Improvements	Location/Description	2015	2016	2017	2018	2019
Storm Water Pond Dredging	Dredge 2-3 Ponds each year to improve capacity of ponds	\$ 30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00
West State Street (CTH N)	Improve drainage at Cemetery - part of WisDOT Project No. 3944-00-01	Unknown				
High Street	N. Main to W. State; add 700 LF		\$57,500.00			
Pine Street Storm Water Improvements	South of Pine Street; add 300 LF of 48" Storm Sewer Pipe		\$54,000.00			
Wheelock Avenue	Between E. Lincoln & E. Monroe; add 400 LF			\$35,000.00		
W. Rossman Street	Between Elm St & Center St; add 900 LF				\$ 72,500.00	
Fifth Street	Between E. Wisconsin Street and Union Street; add 300 LF				\$ 27,500.00	
Martin & Morgan Drive	Both Streets; add 100 LF			\$8,500.00		
West Prospect Street	Connect Storm Sewer on W. Prospect to Black's Subdivision; add 620 LF					\$ 51,500.00
Maple Avenue	Between Grand Ave & Wheelock Avenue; add 400 LF				\$ 35,000.00	
Independence Avenue Storm Water Pond Construction	Intersection of Independence Avenue and Constitution Avenue; reroute storm sewer to new storm water pond (DNR Grant Application)		\$288,000.00			
E. Lincoln Avenue	Between S. Main Street and Grand Ave; add 1,300 LF					\$174,000.00
Third Street	Highland Avenue to E. Rossman Street					\$20,000.00
E. Wisconsin Street	Fifth Street to east end of Street					\$33,000.00
Budd Street	Between Grant Street and W. State Street; add 600 LF					\$50,000.00



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Official Name (Click for Details)	Local Name (Click for Map)	Start Mile	End Mile	WBIC	Water Type	County	Pollutant	Impairment	Status	Priority
Rock River	Rock River	289.66	293.25	788800	River	Dodge, Jefferson	Total Phosphorus	Degraded Habitat	TMDL Approved	Not Applicable
Rock River	Rock River	289.66	293.25	788800	River	Dodge, Jefferson	Sediment/Total Suspended Solids	Degraded Habitat	TMDL Approved	Not Applicable
Rubicon River	Rubicon River	0.00	29.00	856500	River	Dodge, Washington	Total Phosphorus	Water Quality Use Restrictions	303d Listed	Low

X



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