



Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control ANNUAL FACILITY INSPECTION REPORT

for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2012 To March, 2013

Permit No. ILR40

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: Village of Bartlett Mailing Address 1: 228 S. Main Street
Mailing Address 2: County: DuPage
City: Bartlett State: IL Zip: 60103 Telephone: 630-837-0811
Contact Person: Paul L. Kuester, Director of PW Email Address:
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Village of Bartlett

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

- 1. Public Education and Outreach
- 2. Public Participation/Involvement
- 3. Illicit Discharge Detection & Elimination
- 4. Construction Site Runoff Control
- 5. Post-Construction Runoff Control
- 6. Pollution Prevention/Good Housekeeping

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))


Owner Signature:

Paul L. Kuester
Printed Name:

5-29-13
Date:

Director of Public Works
Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed \$50,000 for the violation and an additional civil penalty of not to exceed \$10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

DRSCW NPDES Activities March 2012 – March 2013

1. Public education and outreach on stormwater impacts

DRSCW outreach activities for the year ending 2013 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations and material (www.drscw.org).
- Public information available on the website includes:
 - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
 - A fact sheet summarizing alternative deicing products.
 - A brochure on coal tar sealants as a source of Polycyclic Aromatic Hydrocarbons (PAHs) aimed at homeowners (produced by the University of New Hampshire Stormwater Center).
 - An voluntary MOU for communities to sign declaring that they are discontinuing the use of coal tar based sealants.



Technical Presentations

Workgroup meetings: The Workgroup hosts bimonthly meetings where technical presentations are made on a variety of water quality topics and surface water management subjects. The audience is mainly stormwater and wastewater professionals but the general public is also welcome to attend. The list below includes presentations that were made during the period March 1, 2012 to February 28, 2013. Presentations are made available on the DRSCW website after the meetings.

April 25, 2012

Presentation: De-icing Liquids - A Success Story

Presenter: Scott Weber, Streets/Forestry Supervisor Village of Hanover Park

Presentation: Preliminary Results for Churchill Woods Dam Removal

Presenter: Stephen McCracken, DRSCW/ The Conservation Foundation

June 27, 2012

Presentation: Nutrient Removal Upgrade Costs at POTWs

Presenter: Pavel Hajda, Symbiont

August 29, 2012

Presentation: West Branch DuPage River Smallmouth Bass Release Project

Presenter: Steve Pescitelli IDNR Region II Stream Specialist

Presentation: Layman's Guide to the analysis behind the IPS methodology

Presenter: James Bland

October 31, 2012

Presentation: Ammonia Mass –Balance Update, Lower East Branch DuPage River

Presenter: Lindsay Birt, Huff & Huff

Presentation: Springbrook1 Creek and Wetland Restoration Project

Presenters: John Oldenburg, Forest Preserve District of DuPage County and Paul Botts, The Wetlands Initiative

December 5, 2012

Presentation: Role of Coal Tar-Based Sealants in the Source Apportionment of PAHs in Urban Stormwater pond Sediments

Presenter: Judy L. Crane, Ph.D., Minnesota Pollution Control Agency, St. Paul, MN.

Presentation: E3: Economy, Energy & Environment Initiative –

Presenter: Shefali Trivedi, Environmental Projects Specialist, DuPage County - Economic Development & Planning

February 27, 2013

Presentation: IPS Tool Outputs and White Paper Recommendations

Presenter: Stephen McCracken, The Conservation Foundation/ DRSCW

Presentation: Chloride Usage Education and Reduction Program Summary

Presenter: Dan Bounds, CDM Smith

Presentation: Database - present capabilities and future web portal

Presenter: Mark Willobee, Geosyntec

Presenter: IPS Tool and DO TMDL Implementation at Oak Meadows Forest Preserve

Presenter: Andy Selle, Inter-Fluve

Other Public Education Presentations

- 3/9/2012 for the Municipal Engineers Advisory Group for DuPage Mayors and Managers Conference "Optimal Buffer Width for improving mBI Scores"
- 3/22/2012 for the Village of Lisle "What's Going on in Our Waterways?"
- 11/8/2012 for the Village of Arlington Heights Public Works Snow Fighting Training "Chlorides in Streams"
- 11/15/12 for USEPA Region 5's TMDL Practitioners Workshop "TMDLs and Adaptive Management"

- 1/10/13 for Twig 'N Bloom Garden Club "What's Going On In Our Rivers"
- 3/19/13 at WaterCon "DRSCW White Paper"

2. Public involvement and participation

Monitoring Activities

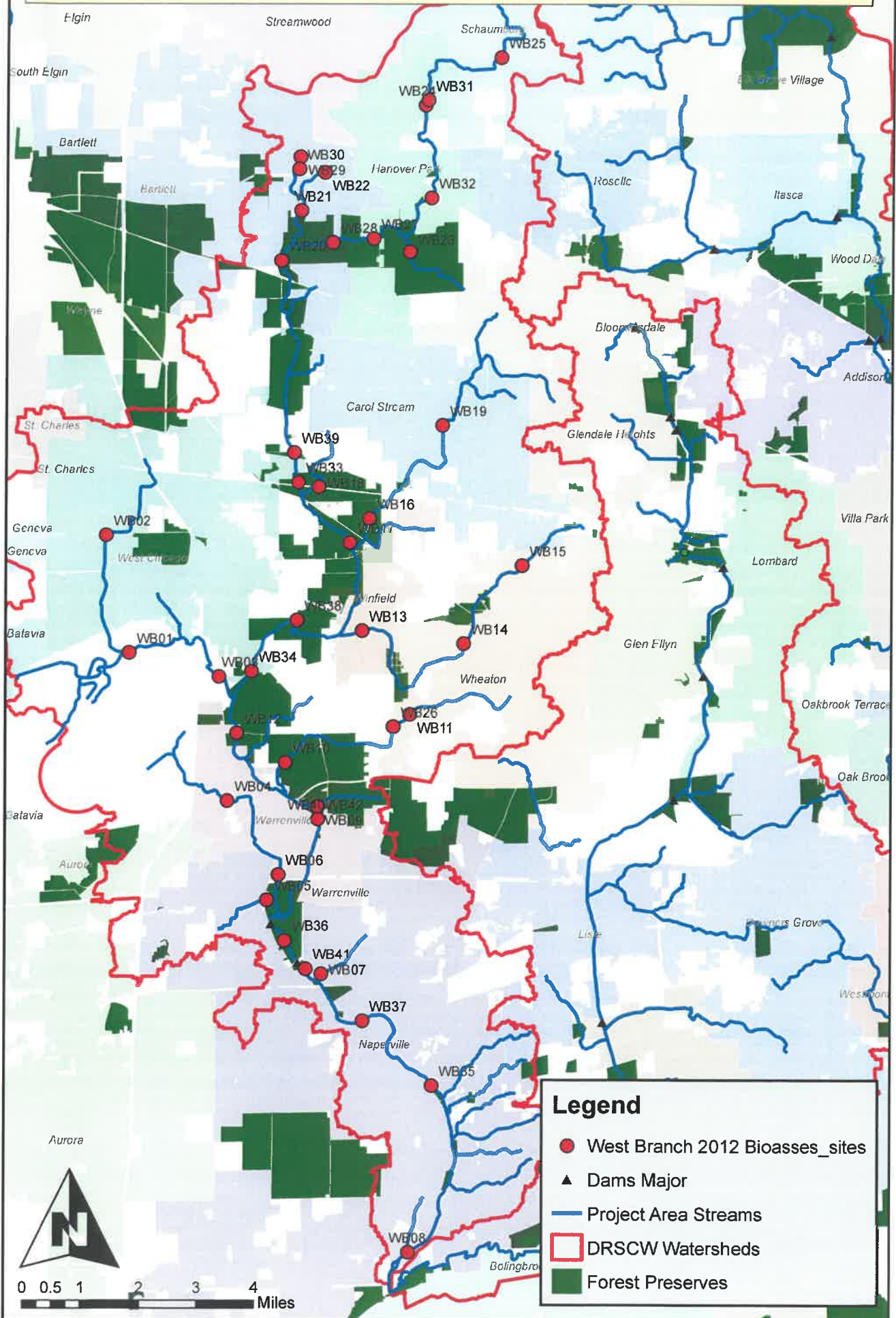
- Chloride – The DRSCW conducted monitoring of ambient chloride levels using hourly conductivity values at five locations (three data loggers maintained by DRSCW and two by MWRDGC). Hourly conductivity data was collected 24 hours a day from December 2012 to March 2013. A 2008 DRSCW study had established a strong correlation between ambient winter conductivity and chloride levels. Summer chloride concentrations were gathered under the surface water monitoring program.
- Dissolved Oxygen (DO) – Ambient DO, ph, temperature and conductivity were measured at ten sites under the continuous DO monitoring program. All DO data was collected under a Quality Assurance Plan agreed upon with IEPA¹. A map of monitoring locations is given in Map 1. Sites were maintained by county, municipal and private environmental organization staff. Data collected in this report is used to develop the DRSCW Bioassessment report for the watershed. The data is also shared with IEPA for development and review of the 303(d) List.
- Bioassessment – Bioassessment sampling was carried out in the East Branch DuPage River basin. A total of 38 sites were sampled for water column chemistry, sediment chemistry, Fish IBI (Index of Biological Integrity) and macro invertebrate IBI, and Qualitative Habitat Evaluation Index (QHEI) scores. The sediment and water column sampling parameters are listed in Table 1, sample site locations are indicated in Map 1.

Water Quality Parameters	Sediment Parameters
Demand Parameters	Sediment Metals
5 Day BOD	Arsenic
Chloride	Barium
Conductivity	Cadmium
Dissolved Oxygen	Chromium
pH	Copper
Temperature	Iron
Total Dissolved Solids	Lead
Total Suspended Solids	Manganese
	Nickel
Nutrients	Potassium
Ammonia	Silver
Nitrogen/Nitrate	Zinc
Nitrogen – Total Kjeldahl	
Phosphorus, Total	Sediment Organics
	Organochlorine Pesticides
Metals	PCBS
Cadmium	Percent Moisture
Calcium	Semivolatile Organics
Copper	Volatile Organic Compounds
Iron	
Lead	
Magnesium	
Zinc	
Organics – Water	
PCBS	
Pesticides	
Semivolatile Organics	
Volatile Organics	

Data from the plan is used to produce the Bioassessment analysis, to identify and prioritize stormwater, wastewater and restoration projects and is delivered to IEPA for use in the state's 303(d) list. The Bioassessment plan runs correlation analysis between IBI scores and various factors (water column chemistry, sediment chemistry and habitat). Reports for assessments for the period 2006-2010 are available on line at <http://drscw.org/>.

¹ DO Quality Assurance Plan DRSCW 2006

2012 DRSCW sample sites West Branch DuPage River (1)



Other Public Involvement

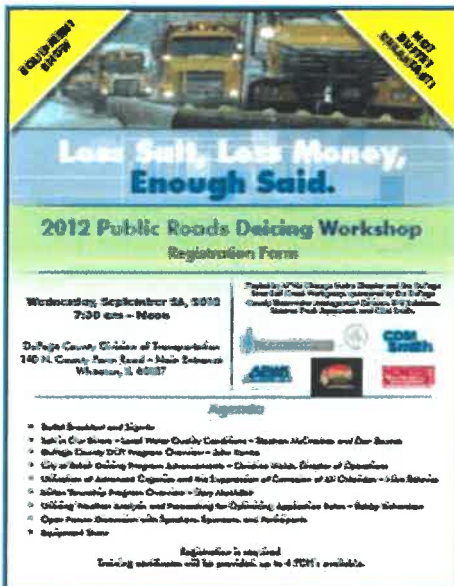
3. Illicit discharge detection and elimination – no activities

4. Construction site storm water runoff control - no activities

5. Post-construction storm water management in new development and Redevelopment - no activities

6. Pollution prevention/good housekeeping for municipal operations

A 2012 Public Roadway Deicing Questionnaire was distributed to all eligible agency members and DuPage County townships. DRSCW received 34 Responses. Please note: Agencies should report their participation in this survey and make note of any changes to your responses from previous years.



Two chloride reduction workshops were held during the reporting period.

The Public Roads deicing workshop was held on 9.26.12. The agenda was as follows:

- Salt in Our Rivers – Local Water Quality Conditions (Stephen McCracken, DRSCW; Dan Bounds, CDM Smith)
- DuPage County DOT Program Overview (John Kawka, DuPage County DOT)
- City of Beloit Deicing Program Advancements (Bradley Trewyn, City of Beloit)
- Utilization of Advanced Organics and the Suppression of Corrosion of All Chlorides (Mike Belovics, SNI Solutions)
- Utilizing Weather Analysis and Forecasting for Optimizing Application Rates (Bobby Richardson, Formerly City of Chicago)

- Group discussion, items from audience
- Equipment Show (DuPage DOT)
- 111 people attended including presenters. All attendees received a certificate of attendance.

**Less Salt, Less Money,
Enough Said.**

2012 Parking Lot & Sidewalk Deicing Workshop
Registration Form

Thursday, October 4, 2012
7:30 am - 12:30 pm
Arrowhead Golf Club
26W151 Butterfield Road
Wheaton, IL 60189

Hosted by the DuPage River Valley Creek Watershed
and sponsored by DuPage County Stormwater
Management Division and CDIL 2424.

Agenda

7:30 am Registration and Breakfast Buffet

8:00 am Local Chloride Reduction Program - Stephen McCracken, DRSCW

8:20 am Deicing Program Certification Training
Parking Lot and Sidewalk Certification Training

Registration is required.
Training certificates will be provided, up to 4 PDH's available.

The Parking Lot and Sidewalk deicing workshop was held on the 10.04.12. The agenda was as follows:

- Local Chloride Reduction Program (Stephen McCracken, DRSCW)
 - Chloride concentrations in water and its effects, materials, storage, winter facilities management planning, case studies of use
 - Pavement temperature sensing, application rates, building equipment for liquids and pre-wetting
- Test on presented material
- This workshop had 35 participants including presenters. All participants received a training certificate and participants who passed the test are recognized on the DuPage County Stormwater Management Division's Water Quality – Pollution Prevention/Good Housekeeping web page.