



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, 2014 To March, 2015

Permit No. ILR40 _____

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

Name: Village of Bartlett Mailing Address 1: 228 South Main Street

Mailing Address 2: _____ County: DuPage

City: Bartlett State: IL Zip: 60103 Telephone: 630-837-0811

Contact Person: Robert Allen, P.E., Village Engineer Email Address: rallen@vbartlett.org
(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 | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

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:

5/13/2015

Date:

Robert Allen

Printed Name:

Village Engineer

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



DuPage River Salt Creek Workgroup

DRSCW NPDES Activities March 2014 – March 2015

1. Public education and outreach on stormwater impacts

DRSCW outreach activities for the year ending 2015 included:

- The DRSCW website was maintained during the reporting period and periodically updated with presentations and material (www.drscw.org).
- The online stream resource searchable database with information on local aquatic biodiversity, habitat, sediment and water column chemistry was updated.
- The online data viewer and searchable database, indicating monitoring locations throughout the three basins, was updated to include data from the Lower DuPage River Watershed Coalition.
- The DRSCW created a “Water Resource Manager’s Guide to Aquatic Bioassessment,” to be finalized in 2015.
- The 2014 Public Roads Deicing Questionnaire was distributed and responses were summarized and will be used to help plan other outreach strategies and future deicing workshop agendas.
- A draft Ambient Monitoring Data Analysis – 2013-2014 Winter Season was received and is under review.
- The DRSCW published on the website and distributed a fall 2014 newsletter, which included the IGIG award announcement (which was later frozen); articles on Michigan DOT’s Bounce and Scatter Study, Low Cost Ways to Reduce Salt Use; Rethinking Winter Roads Policy in Carol Stream; Evaluation of Leaf Collection Programs as a Means to Reduce Phosphorus Loads from Urban Basins.
- Public information available on the website includes:
 - Chloride Fact Sheets aimed at mayors and managers, public works staff, commercial operators, and homeowners.
 - Application guidance worksheet for commercial parking lot winter deicing.
 - A fact sheet summarizing the characteristics of alternative deicing products.
 - Phase diagrams for the most common chloride compounds used in winter maintenance.
 - 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).
 - Coal Tar Based Sealant MOU, cost benefit analysis and summary.
 - Detailed reports on the biological and chemical conditions of area waterways



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 consists of mainly stormwater and wastewater professionals but the general public is also welcome to attend. Presentations made during the period March 1, 2014 to February 28, 2015 are listed below. Selected presentations are made available on the DRSCW website and upon request.

April 30, 2014

DRSCW White Paper Proposal: Special Conditions & Implementation Plan

Presenters: Stephen McCracken, The Conservation Foundation/ DRSCW; Nick Menninga, Downers Grove Sanitary District

June 25, 2014

Adaptive Management Plan to improve aquatic life and implement TMDLs on the main stem lower Salt Creek

Presenter: Stephen McCracken, The Conservation Foundation/ DRSCW

Development of Ammonia Mass – Balance techniques: Web based load duration curve system and lower East Branch analysis

Presenter: Lindsay Birt, Huff & Huff

August 27, 2014

Reducing Urban Phosphorus Load: Identifying Sources and Controls

Presenter: Bill Selbig, Research Hydrologist, USGS - Wisconsin Water Science Center

2012 Bioassessment Study of the Lower DuPage River Watershed

Presenter: Jennifer Hammer, The Conservation Foundation/ LDRWC

October 29, 2014

Chloride Monitoring Results and TMDL Implementation Update

Presenters: Stephen McCracken, The Conservation Foundation/ DRSCW; Dan Bounds, CDM Smith

Fawell Dam- Preliminary Assessment

Presenters: Derrick Martin, V3 Companies; Andy Selle, Inter-Fluve; Jennifer Hintze and Jessica Spurlock, DuPage County Stormwater Management

December 10, 2014

Winnetka Refined Coal Tar Ban

Presenter: Steven M. Saunders, Director of Public Works/Village Engineer; Village of Winnetka

TMDL Development for the DuPage River/Salt Creek - The Illinois Environmental Protection Agency-Watershed Management Section/Planning (TMDL) Unit

Presenter: Abel Haile, Manager, Planning (TMDL) Unit, Watershed Management Section, Bureau of Water

Other Water Quality Presentations or Workshops by the DRSCW

March 4, 2014 Continuous Dissolved Oxygen Monitoring Workshop for Participating Agencies

March 6, 2014 – National webinar for stormwater BMPs on transportation infrastructure hosted by US EPA. The Illinois Toll Highway Authority invited the DRSCW to co-present regarding the chloride offset program MOU.

March 10, 2014 – Prairie River Group of the Sierra Club. PAHs and Coal Tar sealants.

March 18, 2014 – WATERCON 2014 hosted by the Illinois Section American Water Works Association & Illinois Water Environment Association. White Paper Proposal and Chloride Offset Model.

April 2, 2014 – Illinois 2014 Rivers and Streams Meeting, Milan, IL. Causal analysis and Prioritizing Projects.

April 3, 2014 – Iowa APWA Conference – Chlorides and Watershed Management.

August 2, 2014 – Forest Preserve District of DuPage County Urban Stream Research Center Open House. Ambient and wastewater chemistry.

September 25, 2014 – Public Roads Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL

October 7, 2014 – Managing Snow and Ice Control Operations, University of Wisconsin-Madison; Winter Maintenance and Environmental Impacts – Winter Maintenance and Environmental Impacts.

October 9, 2014 – Parking Lots & Sidewalks Deicing Workshop at DuPage County Division of Transportation, Wheaton, IL

October 16, 2014 – Lower DuPage River Watershed Coalition's Deicing Workshops - Regulations related to salt management, New Lenox, IL

November 6, 2014 – US EPA/ FHWA National Webinar on Chloride Management – Co-Present with DuPage County Division of Transportation, Wheaton, IL.

November 18, 2014 – Salt Spreader Calibration Workshop at DuPage County Division of Transportation, Wheaton, IL.

November 20, 2014 – Lower DuPage River Watershed Coalition – DRSCW Project Funding Proposal & Other DRSCW Activities, Plainfield, IL.

February 19, 2015 – DuPage County Environmental Summit – Current River Conditions and the Challenges we Face, Naperville, IL

February 19, 2015 - Illinois Lakes Management's Annual Conference, DRSCW Formation and Organization, DeKalb, IL

February 24, 2015 - Illinois Water Environment Association's Annual Conference, DRSCW Formation and Organization, Champaign, IL.

2. Public involvement and participation

Monitoring Activities

- Dissolved Oxygen (DO) – Ambient DO, ph, temperature and conductivity were measured at 11 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 DuPage County, municipal and private environmental organization staff. Sondes are supplied to the program by DuPage County Stormwater Management and MWRDGC. DuPage County Public Works provides the program with sonde calibration and maintenance, in addition to coordinating summer and winter deployment. Data collected in this report is used to develop the DRSCW Bioassessment report for the watershed. The data is 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 35 sites (excluding DO sonde locations) were sampled for water column chemistry, sediment chemistry (at select sites), Fish IBI (Index of Biological Integrity) and macro invertebrate IBI, and Qualitative Habitat Evaluation Index (QHEI). The sediment and water column sampling parameters are listed in Table 1, sample site locations are shown in Map 1.
- Winter Chlorides – Winter chloride levels in the watersheds are monitored using continuous conductivity (a 2008 DRSCW study established a strong correlation between ambient winter conductivity and chloride levels in the Upper DuPage and Salt Creek Watersheds). Winter chloride levels were monitored at 5 locations during the winter of 2014 -15 (hourly from December 2014 to March 2015). These locations are shown on map 1. Summer chloride concentrations were gathered under the surface water monitoring program outlined under bullet two.

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
Metals	Organochlorine Pesticides
Cadmium	PCBS
Calcium	Percent Moisture
Copper	Semivolatile Organics
Iron	Volatile Organic
Lead	Compounds
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. Data is shared with IEPA as requested for use in the state's 303(d) list. Reports for assessments for the period 2006-2012 are available on line at <http://drscw.org/>.

¹ DO Quality Assurance Plan DRSCW 2006

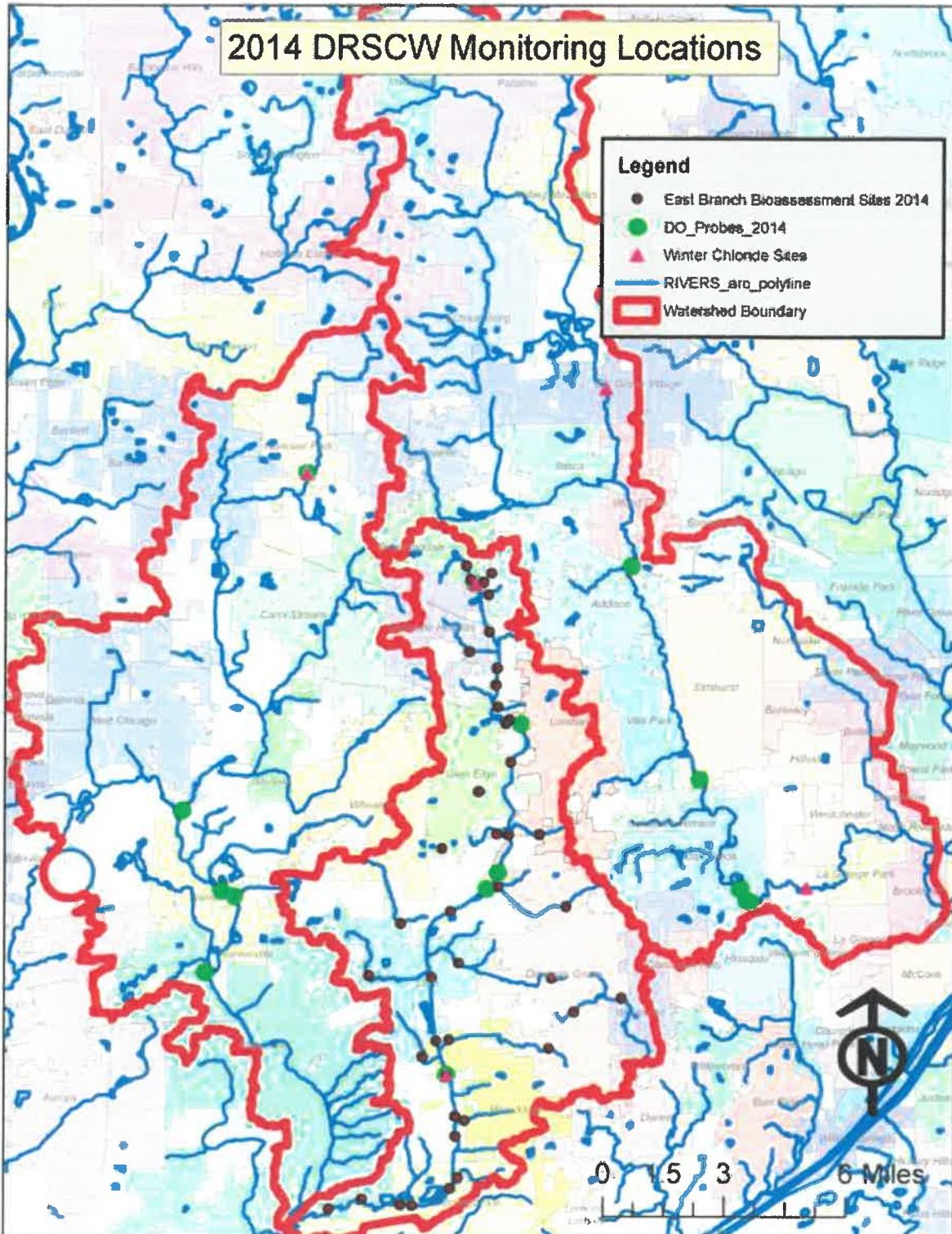
Other Public Involvement

3. Illicit discharge detection and elimination – no activities

4. Construction site stormwater runoff control - no activities

5. Post-construction stormwater management in new development and redevelopment - no activities

Map 1



6. Pollution prevention/good housekeeping for municipal operations

Three chloride reduction workshops were held during the reporting period. The Public Roads deicing workshop was held on September 25, 2014 with the following agenda:

7:00 — 7:30 Registration and Breakfast

7:30 –7:35 Welcome - John Kawka, DuPage County DOT, Manager of Highway Operations

7:36 – 7:52 DuPage River Salt Creek Workgroup (DRSCW) Update - Stephen McCracken, TCF/ DRSCW, Director of Watershed Protection

7:53 – 8:09 Chloride Regulatory Update - Dan Bounds, CDM Smith, Principal Water Resources Engineer

8:10 – 8:45 Michigan DOT: Bounce and Scatter Study - Rich Hassenzahl, MDOT, Southwest Region Maintenance Superintendent

8:46 – 9:01 Exhibitor Briefs: New Products/ Equipment /Services

9:02 – 9:12 Break

9:13 – 9:33 Winter 2013-2014 & New Initiatives for 2014-2015 - Tim Peters, Illinois DOT, Winter Operations Engineer

9:34 – 9:59 Winter 2013-2014 Battle of the Extremes - Matt Wittum, Village of Spring Grove, Public Works Supervisor and Randy Morin, McHenry County DOT, Maintenance Supervisor

10:00 – 10:25 Winter 2013-2014 & Alternative Deicing - Stan Balicki, Village of Downers Grove, Assistant Director of Public Works

10:26 – 10:36 Break

10:37 – 11:07 Navigating the Winter with the Illinois Tollway - Scott Kapton, Illinois Tollway, Roadway Maintenance Manager

11:08 – 11:28 Baby Its Cold Out There! Products that Perform at Low Temperatures - Harvey Williams, Concept to Project Management, Owner

11:29 – 11:44 Open Forum Discussion

11:45 – 12:00 Close and Equipment Show



EQUIPMENT SHOW **HOT SUBJECT BREAKFAST**

Less Salt, Less Money, Safe Conditions, Enough Said.

2014 Public Roads Deicing Workshop
Registration Form

Thursday, September 25, 2014
7:30 am - Noon

DuPage County Division of Transportation
140 N. County Farm Road - Main Entrance
Wheaton, IL 60187

Hosted by the DuPage River Salt Creek Workgroup, the DuPage County Division of Transportation, and Workshop Sponsors

CDM Smith **IDOT** **ADMA**

Agenda

- Extreme Weather Operations
- Winter Roads Policies
- Pre-wetting: Bounce and Scatter Study, Michigan DOT
- Regulatory Update
- Alternative Deicing Products/Procedures
- New Products/Services/Equipment
- Deicing Program Operations Updates:
 - IDOT
 - Illinois Tollway
 - McHenry County
 - DuPage County DOT
 - Downers Grove
 - Carol Stream
- DRSCW Workgroup Update
- Airport Deicing - Equipment and Procedures
- Open Forum Discussion with Presenters
- Equipment Show

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

Attendance – 121 registered, 20 others, 5 vendors = 146 total. All participants received a certificate of attendance. We received 78 feedback forms which will be used to plan future outreach strategies and workshop agendas.

The Parking Lot and Sidewalk deicing workshop was held on October 9, 2014 with the following agenda:

- Local Chloride Reduction Program
Stephen McCracken, The Conservation Foundation/DRSCW
- Impact of salt from winter snow fighting operations impacts our rivers and streams. Information on developing efficient and cost-effective snow fighting operations, appropriate product selection, application rates, equipment calibration.
Connie Fortin, Fortin Consulting;
Chis Walsh, City of Beloit, WI
- Test on presented material
- This workshop had 56 registrations, 8 others, 3 vendors = 67 total. 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.

Less Salt, Less Money, Safe Conditions, Enough Said.

2014 Parking Lot & Sidewalk Deicing Workshop
Registration Form

Thursday, October 9, 2014
7:30 am – Noon

DuPage County Division of Transportation
140 N. County Farm Road – Main Entrance
Wheaton, IL 60187

Hosted by the DuPage River Salt Creek Workgroup, the DuPage County Division of Transportation, and Workshop Sponsors:

CDM Smith ADMS

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.

A separate hands-on spreader calibration workshop was held on November 18, 2014 from 9:00 AM – 12:00PM. This workshop was open to any operators including county, city, township, schools, park districts, libraries, etc. Hosted by DRSCW, DUDOT and Monroe Truck Equipment, this was our first time executing this kind of workshop, so it was a learning process. This workshop was offered free-of-charge and included a hot buffet breakfast, thanks to Monroe Truck Equipment. Participation included were 35 registrations, 15 staff/sponsors = 50 total.

Initially, we planned to have operators bring their own equipment, but this was not possible. Instead, we asked participants to submit information before the workshop, including: list of equipment to be calibrated; brand of the equipment; type of system (style of spreader, whether application rate is fixed or varies with vehicle speed, etc.); whether the system compensates for speed changes, etc.

The general agenda for the morning included information on calibration and why it is important then hands on demonstrations for an open loop (no compensation for changes in vehicle speed), closed loop (compensation for vehicle speed) and electronic system. Participants rotated through the “stations” in two groups.



Calibration Workshop Attendees, November 18th, Wheaton, IL