



CITY OF ELMHURST
209 NORTH YORK STREET
ELMHURST, ILLINOIS 60126-2759
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www.elmhurst.org

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TRANSMITTAL

TO	<u>IL EPA</u>	DATE	<u>June 1, 2015</u>
	<u>Water Pollution Control</u>	PROJECT	<u>City of Elmhurst Annual NPDES</u>
	<u>Compliance Assurance Section #19</u>		<u>Report</u>
	<u>1021 North Grand Avenue East</u>	# OF PAGES	<u>23</u>
	<u>Springfield, IL 62794-9276</u>	VIA	<u>Fax/US Mail/FedEx/Pick-Up/Email</u>

WE ARE SENDING: ☒ Herewith

☐ Under Separate Cover

THE FOLLOWING:

NPDES Phase II-Year 12-Annual Report

FOR YOUR: ☐ Approval

☐ As Requested

☒ Use

☐ Review and Comment

☐ Other _____

REMARKS:

IL EPA:

Please see the attached City of Elmhurst March '14-March '15 "Annual Facility Inspection Report" for NPDES Permit for Storm Water Discharges from MS4.

If you have any questions please let me know.

FROM: Kent M. Johnson

Kent Johnson, P.E.
Civil Engineer
City of Elmhurst
(630) 530-3024



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 0052

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

Name: City of Elmhurst Mailing Address 1: 209 N. York Street

Mailing Address 2: _____ County: DuPage

City: Elmhurst State: IL Zip: 60126 Telephone: 630-530-3024

Contact Person: Kent Johnson Email Address: kent.johnson@elmhurst.org
(Person responsible for Annual Report)

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

City of Elmhurst, Illinois

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: _____

Kent Johnson

Printed Name: _____

Date: 5/28/15

City 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

PLEASE NOTE THAT ANNUAL REPORTING FOR SECTIONS B AND D CORRELATE TO EACH NOTICE OF INTENT BMP AS CHECKED ON ORIGINAL PERMIT AS FOLLOWS:

A. Public Education and Outreach

- ☒ **A.1 Distributed Paper Material**
- ☒ **A.2 Speaking Engagement**
- ☒ **A.3 Public Service Announcement**
- ☒ **A.4 Community Event**
- ☒ **A.5 Classroom Education Material**
- ☐ **A.6 Other Public Education**

B. Public Participation/Involvement

- ☐ **B.1 Public Panel**
- ☐ **B.2 Educational Volunteer**
- ☒ **B.3 Stakeholder Meeting**
- ☒ **B.4 Public Hearing**
- ☒ **B.5 Volunteer Monitoring**
- ☐ **B.6 Program Coordination**
- ☐ **B.7 Other Public Involvement**

C. Illicit Discharge Detection/Elimination

- ☒ **C.1 Storm Sewer Map Preparation**
- ☒ **C.2 Regulatory Control Program**
- ☒ **C.3 Detection/Elimination Prior. Plan**
- ☒ **C.4 Illicit Discharge Tracing Proced.**
- ☒ **C.5 Illicit Source Removal Procedures**
- ☒ **C.6 Program Evaluation/Assessment**
- ☐ **C.7 Visual Dry Weather Screening**
- ☐ **C.8 Pollutant Field Testing**
- ☐ **C.9 Public Notification**
- ☐ **C.10 Other Illicit Discharge Controls**

D. Construction Site Runoff Control

- ☒ **D.1 Regulatory Control Program**
- ☒ **D.2 Erosion & Sed. Control BMPs**
- ☐ **D.3 Other Waste Control Program**
- ☒ **D.4 Site Plan Review Procedures**
- ☒ **D.5 Public Inform. Handling Proc.**
- ☒ **D.6 Site Inspection/Enforce. Proc.**
- ☐ **D.7 Other Constr. Site Runoff Controls**

E. Post-Construction Runoff Control

- ☐ **E.1 Community Control Strategy**
- ☒ **E.2 Regulatory Control Program**
- ☒ **E.3 Long Term O&M Procedures**
- ☒ **E.4 Pre-Const Review of BMP Designs**
- ☒ **E.5 Site Inspect. During Construction**
- ☒ **E.6 Post-Construction Inspections**
- ☐ **E.7 Other Post-Const Runoff Controls**

F. Pollution Prevention/Good Housekeep.

- ☒ **F.1 Employee Training Program**
- ☒ **F.2 Inspection/Maintenance Program**
- ☐ **F.3 Muni Operations Storm. Control**
- ☒ **F.4 Muni Operations Waste Disposal**
- ☒ **F.5 Flood Mgmt/Assess Guidelines**
- ☐ **F.6 Other Muni Operations Controls**

A. *Changes to best management practices.*

No changes were made during this reporting year to the best management practices that were outlined in Elmhurst's 2008 Notice of Intent to obtain coverage under General NPDES Permit No. ILR10. In addition to their co-permitting efforts with the County of DuPage, as outlined in DuPage County's Annual Facility Inspection Report, the City of Elmhurst has accomplished the following tasks in the past year:

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.*

Best Management Practices:

BMP No. A1-Distributed Paper Material, A-2 Speaking Engagement, A3-Public Service Announcement A4-Community Event, and A5-Classroom Education Material.

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to these Best Management Practices. In addition the City also relies on its membership with the DuPage River Salt Creek Workgroup for activities related to this BMP. The County of DuPage has developed a general education and outreach program on storm water and water quality that is outlined in their annual report.

Year 12 Milestones: Assist the County in assessing the program through a survey of educational audiences after educational efforts have been implemented over the permit term and use these results to make changes to current offerings or to establish new efforts if there is a deficiency. Assist the County in assessing new technologies for BMP's through staff to staff discussion and DuPage County countywide discussions at the Municipal Engineers Discussion Group.

Completed tasks in Year 12: The City of Elmhurst has not received any requests from DuPage County for assistance in evaluating educational efforts. In the past year, City has completed the following tasks:

- City newsletters contained articles related to environmental issues impacting future development and water quality.
- The City of Elmhurst sponsored Arbor Day activities and also coordinated with the Conservation Foundation to sponsor a public River Sweep event.
- The City of Elmhurst updated the City website to include new current information about stormwater. (<http://www.elmhurst.org/index.aspx?NID=1106>)
- The City of Elmhurst has provided tours of the Treatment Plant for educational purposes.
- City website continues to educate the public on rain barrels. The City also sells rain barrels to the public. (<http://www.elmhurst.org/index.aspx?NID=1031>)

- The City of Elmhurst, with the help of a consultant engineering firm, has hosted several informational seminars about Elmhurst's utility system which were open to the public. These seminars highlighted the City's new stormwater requirements for single family development and stormwater incentive program; both which ultimately reduce stormwater runoff and improve water quality.
 - The City of Elmhurst posted DuPage County's Spring, Summer, Fall, and Winter BMP Marketing Kits on the City's website and on social media.
 - The City of Elmhurst posted a DuPage County's Stormwater Management Survey regarding water quality of the County's waterways.
-

BMP No. B.3-Stakeholder Meeting, B.4-Public Hearing, and B.5-Volunteer Monitoring

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to this Best Management Practice. In addition the City also relies on its membership with the DuPage River Salt Creek Workgroup for activities related to this BMP. The municipal engineers and water quality stakeholder committee will meet on a regular basis to review and discuss program development as it pertains to Appendix J of the DuPage County Stormwater Management Plan and the Federal Mandates such as the NPDES Phase II and TMDLs, as outlined in DuPage County's annual report.

Year 12 Milestones: Continue to participate and support Municipal Engineers Discussion Group and Water Quality Stakeholders Groups. Participate in or assist in public hearings for possible DuPage County Stormwater Management Plan Appendix updates as needed and continue to hold seminars and open meetings regarding the City's recent comprehensive storm sewer/sanitary sewer study, potential future projects that have been identified, and new City policies aimed at water quality improvement and water quantity runoff reduction. Continue support of DuPage River Salt Creek Workgroup.

Completed tasks in Year 12: In the past year, City has completed the following tasks:

- The Engineering Staff attended monthly meetings of the DuPage County Municipal Engineers Discussion Group where discussions regarding water quality improvements regularly take place.
- Continue to work with DuPage County as cooperative partners on the Illicit Discharge Detection and Elimination (IDDE) program.
- City staff continued to work with DuPage County on potential revision or edits to the 2013 Countywide Stormwater and Flood Plain Ordinance.
- City staff continues to have a working relationship with the Conservation Foundation and its members who monitor waterways in Elmhurst.
- City staff continues to be a member of the DuPage River Salt Creek Workgroup which promotes water quality.
- The City participated in Salt Creek clean up activities.
- The City of Elmhurst, with the help of a consultant engineering firm, has hosted several informational seminars about Elmhurst's utility system which were open to the public. In addition several seminars have been hosted that presented the findings and recommendations of the consultant in regards to flood control.
- The City of Elmhurst held a stormwater open house in October of '14 to discuss flooding issues throughout the City and to highlight new City policies which help reduce flooding and require/incentivize best management practices.
- As a member of the DuPage River Salt Creek Workgroup City staff attended several seminars throughout the year regarding monitoring, permitting, and general BMP effectiveness.

BMP No. C.1-Storm Sewer Map Preparation, C.2-Regulatory Control Program, C.3-Detection/Elimination Prioritization Plan, C.4-Illicit Discharge Tracing Procedures, C.5-Illicit Source Removal Procedures, and C.6-Program Evaluation and Assessment.

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to this Best Management Practice. Develop IDDE procedures with a County and municipal workgroup, that will map all storm sewer outfalls; determine proper procedures to detect illicit discharges as well as procedures for elimination of discharges; possible inclusion in ordinances (where appropriate) to prohibit non-storm water discharges into the storm sewer system and have appropriate enforcement procedures; and evaluation of monitoring procedures.

Year 12 Milestones: Continue to work with the County on IDDE. Send updated maps, as changes occur, to DuPage County to be incorporated into their GIS database.

Completed tasks in Year 12: In the past year, City has completed the following tasks:

- The City of Elmhurst has updated their existing storm sewer maps as new construction and modifications to the existing system have occurred. Those maps have been shared with the County as necessary.
 - Continued to educate the public regarding Illicit Discharges with the help of a DuPage County billboard on Route 83.
-

BMP No. D.1-Regulatory Control Program, D.2-Erosion and Sediment Control BMPs, D.4-Site Plan Review Procedures, D.5-Public Information Handling Procedures, D.6-Site Inspection/Enforcement Procedures.

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to this Best Management Practice. The County's Ordinance, effective April 23rd, 2013, is more restrictive in terms of BMP's than ever.

Year 12 Milestones: Continue to adopt updates to the Stormwater Ordinance that implement changes incorporated in the BMP Manual. Continue to educate City Staff on the evolving regulations by offering and attending training programs and seminars. Review development plans to ensure they comply with the adopted Stormwater Ordinance and offer staff training opportunities to learn new methods of their evolving field. Continue to field public concerns about proposed developments and implement their concerns in Stormwater permit review. Continue to update City website with the on-going activities and policies. Continue to perform and document sediment and erosion control inspection and to offer employee training in on-site inspections. Continue to work with DuPage County on future revisions to the Ordinance.

Completed tasks in Year 12: The City relies upon the County Ordinance for erosion control inspection requirements. In the past year, City has completed the following tasks:

- The Engineering Staff regularly attended monthly meetings of the DuPage County Municipal Engineers Discussion Group, where discussions regarding water quality issues and sediment and erosion control BMP technology took place. Many of these meetings include presentations by manufacturer representatives of new erosion and sedimentation control products which are now available. Also many meetings involved discussions regarding possible revisions and interpretations to the recently adopted Stormwater Ordinance.
- The City of Elmhurst continued an aggressive erosion control program in 2013. Commercial and industrial construction sites over 1 acre are being inspected on a weekly basis and after significant rainfall events for compliance with sediment and erosion control requirements. City staff is working closely with commercial and industrial contractors to make sure they are aware of their requirements on the construction sites. Single-family residential construction sites are regularly inspected, and inspections for compliance with sediment and erosion control requirements have been made a part of other building-related inspections. Single-family builders are continuously being educated on new practices and techniques for maintain good erosion control practices on small sites.

BMP No. E.2-Regulatory, E.3-Long Term O&M Procedures, E.4-Pre-Construction Review of BMP Designs, E.5-Site Inspections during Construction, E.6-Post-Construction Inspections.

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to this Best Management Practice.

Year 12 Milestones: Offer staff training opportunities where staff will review and learn new BMP methods. Attend training sessions for the review and design of permanent BMP's. Continue to enforce new Ordinance provisions and review plans to ensure BMP's are provided for all new residential and commercial developments as required by Ordinance. Continue to conduct regular site inspections during construction and conduct staff training on recognizing inappropriate discharge from a construction site. Be proactive in promoting Green development where possible.

Completed tasks in Year 12: The City relies upon the County Ordinance for erosion control inspection requirements. In the past year, City has completed the following tasks:

- The Engineering Staff continued to attend monthly meetings of the DuPage County Municipal Engineers workgroup where discussions regarding water quality issues and sediment and erosion control BMP technology took place. Many of these meetings included presentations by manufacturer representatives of new erosion and sedimentation control products which are now available.
 - The City of Elmhurst staff and elected officials have proactively encouraged developers to incorporate permanent BMPs into their final design, including permeable pavers, bioswales, rain gardens, and infiltration trenches and have offered alternatives to do so wherever possible with new development.
 - The City adopted a new policy for all City owned parking lots which requires staff to investigate the possible implementation of stormwater BMP's prior to reconstruction.
 - In October, 2014 several City of Elmhurst staff members attended a two day seminar entitled "Beyond the Basics: Making Green Stormwater Practices Pay Off for Your Community" which was presented by the Conservation Foundation.
 - In March, 2015 City of Elmhurst staff attended the two-day Illinois Association for Floodplain and Stormwater Management annual conference in Champaign, IL which presented several seminars on BMP's installation, inspection, and maintenance.
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BMP No. F.1-Employee Training Program F.2-Inspection and Maintenance Program, F.4-Municipal Operations Waste Disposal, and F.5-Flood Management/Assess Guidelines.

Measurable Goal(s), including frequencies: The City of Elmhurst relies on DuPage County for most of the activities related to this Best Management Practice. In addition the City also relies on its membership with the DuPage River Salt Creek Workgroup for activities related to this BMP. A working group will investigate and develop procedures for inspection and maintenance of government-owned stormwater facilities, buildings and grounds, and infrastructure that concentrate on employee training and record keeping. The City of Elmhurst will determine proper training procedures on good housekeeping and pollution prevention for appropriate supervisory and/or management employees. Supervisors and/or managers will then provide their employees with the appropriate training/information based on the needs of the facility. Continue on-going efforts to ease flooding and flood damages to the maximum extent practicable. Continue as scheduled and track progress of watershed plans, hydrologic and hydraulic models, and FIRM maps updates.

Year 12 Milestones: Based on suggestions, evaluate the procedures for effectiveness and improve training as necessary. Offer a refresher training session to previous attendees that include updates. Make arrangements for regular training sessions. Coordinate with employee training to incorporate any revisions into pollution prevention and good housekeeping procedures and guidelines. Continue assistance in watershed plans, models, and FIRM map updates.

Completed tasks in Year 12: In the past year, City has completed the following tasks:

- City of Elmhurst public works employees were made aware of safe and proper procedures for building and open space maintenance, vehicle fleet maintenance and materials storage and disposal, and grounds maintenance during weekly safety meetings. There was special instruction in ice and snow removal techniques to reduce salt quantities.
- The City of Elmhurst continued a program of regularly scheduled soil erosion control inspections for all construction sites.
- The Engineering Staff attended monthly meetings of the DuPage County Municipal Engineers workgroup where discussions regarding inspection and maintenance of government-owned stormwater facilities again took place.
- Revised FIRM mapping, performed by DuPage County staff and consultants, is currently still under review by state and federal agencies. The City has provided comments to the County on preliminary maps and has attended workshops previewing the new maps. The City will continue to work with the County and State until the maps are published.
- City staff attended a seminar put on by Lake County regarding winter maintenance and sensible salting practices.
- City staff attended two seminars put on by DuPage County regarding deicing and reducing salt usage.

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

The City of Elmhurst relies on DuPage County for most of the activities related to data collection and water quality monitoring. DuPage County, together with volunteer organizations such as the DuPage River Salt Creek Workgroup, has completed habitat and biological surveys on many of the waterways in the County and their findings are included in their annual report.

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

As stated in our March 2008 NOI, the following are activities that the City of Elmhurst will undertake during Year 13, including participation from our co-permittee DuPage County, and technical partner DuPage River Salt Creek Workgroup, are:

BMP No. A.1-Distributed Paper Material, A.2-Speaking Engagement, A.3-Public Service Announcement, A.4-Community Event, A.5-Classroom Education Material.

- Include at least one story related to stormwater runoff and water quality annually in the City newsletter. Add at least one water-quality related link to the City's website.
- Continue to hold annual Arbor Day events, with an emphasis on trees and other vegetation native to Illinois. Continue involvement in and support of annual river cleanup days on local rivers and streams.
- Continue to tour public through the City of Elmhurst Wastewater Treatment Plant.

BMP No. B.1 – Public Panel, B.3-Stakeholder Meeting, B.4-Public Hearing

- The City of Elmhurst staff will continue to attend meetings of the DuPage County Municipal Engineers on a regular basis.
- The City of Elmhurst will participate in the IDDE hearings and meetings.
- The City of Elmhurst will continue to participate in the DuPage River Salt Creek Workgroup (DRSCW).

BMP No. C.1-Storm Sewer Map Preparation, C.2-Regulatory Control Program, C.5-Illicit Source Removal Procedures

- Update the atlas to reflect new construction and provide a copy of the updated atlas to DuPage County for their use in identifying MS4 outfalls to Waters of the U.S.
- The City will respond to County notices, including tracing all identified illicit discharges and ensuring corrective action and remediation.

BMP No. D.1-Regulatory Control Program, D.2-Erosion and Sediment Control BMPs, D.6-Site Inspection/Enforcement Procedures.

- The City of Elmhurst will continue to coordinate with DuPage County regarding updates to the Stormwater Ordinance on a regular basis in order to stay current with local and national regulations. The City will adopt any further required BMP-related ordinance changes.
- The City will continue to enforce the installation and maintenance of soil erosion and sedimentation control measures during construction activities.

BMP No. E.2-Regulatory, E.5-Site Inspections During Construction,

- The City will require the installation and maintenance of permanent BMPs to control soil erosion and sedimentation for all residential and commercial developments as required by the new Stormwater Ordinance. Permanent BMPs installed on completed developments will be inspected once a year to ensure that they are being maintained.
- City staff will enforce new policies and procedures adopted by the City in 2014 to promote/require practical and effective post-construction best management practices and when needed make recommendations for alterations to the policies/procedures.
- The City of Elmhurst will continue to utilize review forms and compile/complete inspection records.

BMP No. F.1-Employee Training Program, F.5- Flood Mgmt/Assess Guidelines

- Continue to hold one training workshop per year for public works employees.
- Continue Comprehensive Storm Sewer and Sanitary Sewer study with the help of City consultant. Prioritize and budget for storm/sanitary improvement projects identified in study.
- The City personnel will attend available training sessions on the implementation of permanent best management practices in proposed developments.
- The City will continue to work with DuPage County and FEMA on the remapping of Salt Creek.

BMP No. F.2-Inspection/Maintenance Program

- Continue to development and implement new Fats, Oils, and Grease (FOG) Program.
 - City personal will continue to visit all food service establishments and auto service sites and educate business owners about the FOG Program.
-

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

The City of Elmhurst is relying on the County of DuPage to satisfy some of their General NPDES Permit No. ILR40 obligations for the six minimum control measures: Public Education and Outreach, Public Participation/Involvement, Illicit Discharge Detection and Elimination, Construction Site Runoff Control, Post-Construction Runoff Control, and Pollution Prevention/Good Housekeeping. City staff will continue to work closely with County staff to ensure that all requirements of the City's NPDES permit are being met.

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

- 2014 Contract Paving Project
- 2014 Watermain Improvements Project
- 2014 Watermain and Hydrant Repair Program
- 2014 Concrete Patching Project
- 2014 50/50 Sidewalk Repair Program
- 2014 Slabjacking Program
- Southwest Wet Weather Control Facility (SWWWCF) Project

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Authorized Representative Name
and Title

Signature

Date

Kent Johnson, City Engineer



06/01/15



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.

Table 1. Water column and sediment parameters collected under the Bioassessment analysis

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

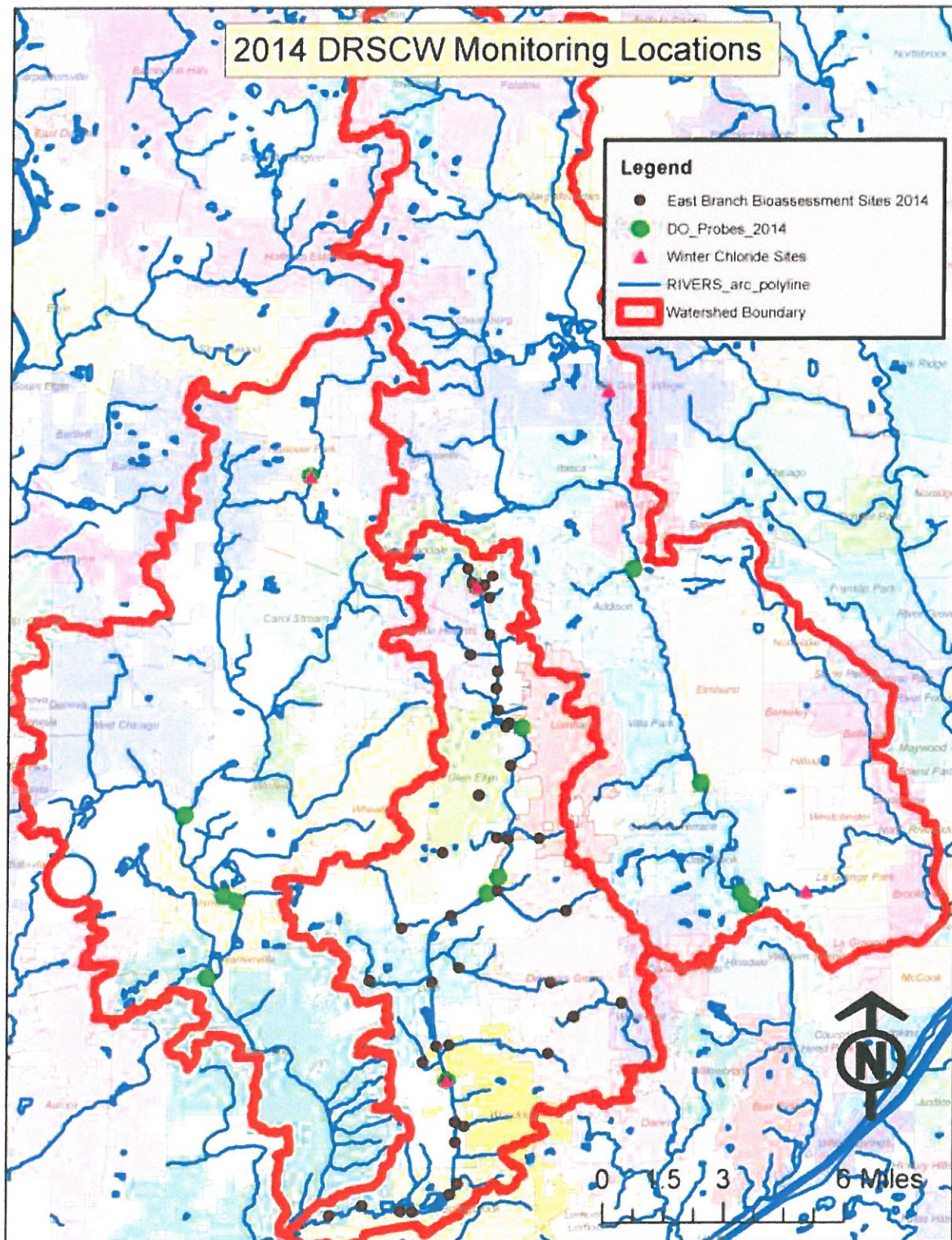
Other Public Involvement

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 **NOT BUYER 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:

Agenda

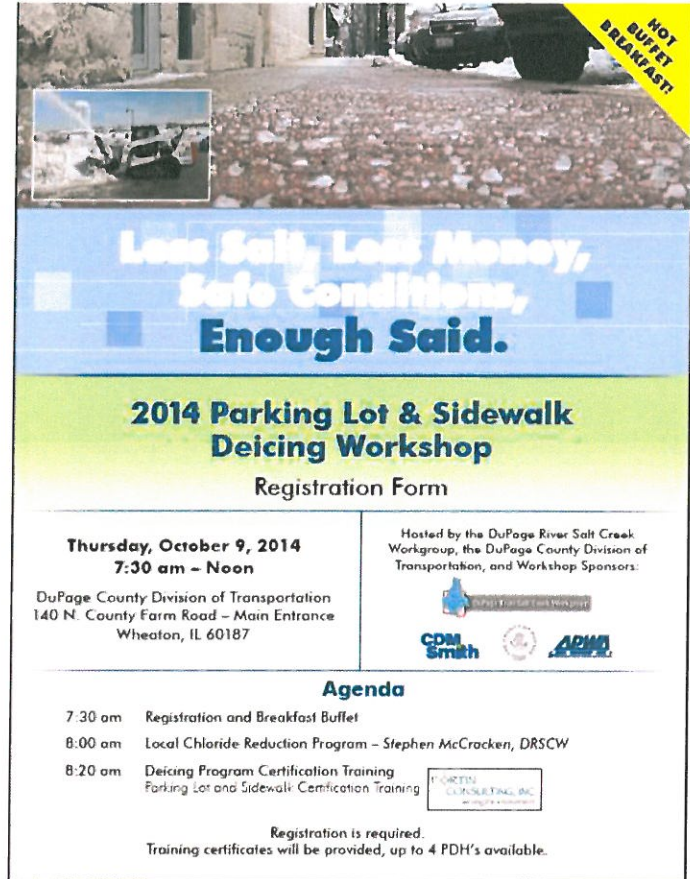
- Extreme Weather Operations
- Winter Roads Policies
- Pre-wetting: Bounce and Scatter Study, Michigan DOT
- Regulatory Update
- Alternative Deicing Products/Procedures
- New Products/Services/Equipment
- Deicing Program Operations Updates:
 - IDOT
 - Illinois Tollway
 - McHenry County
 - DuPage County 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.






NOT BUFFET BREAKFAST!

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


2014 Parking Lot & Sidewalk Deicing Workshop

Registration Form

<p>Thursday, October 9, 2014 7:30 am – Noon</p> <p>DuPage County Division of Transportation 140 N. County Farm Road – Main Entrance Wheaton, IL 60187</p>	<p>Hosted by the DuPage River Salt Creek Workgroup, the DuPage County Division of Transportation, and Workshop Sponsors:</p> <p>  </p>
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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