

June 16, 2017

Illinois Environmental Protection Agency, DWPC  
Compliance Assurance Section  
1021 North Grand Avenue East, POB 19276  
Springfield, Illinois 62794-9276

Subject: Permit No. ILR40-0454  
City of St. Charles NPDES Annual Report

Dear Sir or Madam:

Please see the enclosed City of St. Charles IEPA Annual Facility Inspection Report and attached supplementary information for the NPDES (2016-2017) Year reporting period.

Please note that we have attached Kane County's submittal, which satisfies St. Charles permit requirements.

If you should need additional information please feel free to contact me at (630) 377-4486.

Sincerely,

Karen R. Young, P.E., CFM  
Assistant Director of Public Works - Engineering

cc: Peter Suhr, Director of Public Works  
Mike Burnett, Wastewater Division Manager



# 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, 2016 To March, 2017

Permit No. ILR40 0454

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

Name: City of St. Charles Mailing Address 1: 2 East Main Street

Mailing Address 2: \_\_\_\_\_ County: Kane

City: St. Charles State: IL Zip: 60174 Telephone: 630-377-4486

Contact Person: Karen R. Young, P.E., CFM Email Address: kryoung@stcharlesil.gov  
(Person responsible for Annual Report)

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

Kane County DuPage County

#### 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:

Karen R. Young, P.E., CFM

Printed Name:

Date:

Assist. Director of Public Works - Eng.

Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto: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

# COUNTY OF KANE

KANE COUNTY ENVIRONMENTAL &  
WATER RESOURCES DIVISION

Kenneth N. Anderson, Jr.  
Director



County Government Center  
719 Batavia Avenue  
Geneva, IL 60134  
Phone: (630) 232-3497  
Fax: (630) 208-3837  
<http://www.co.kane.il.us>

May 30, 2017

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
Compliance Assurance Section  
Municipal Annual Inspection Report  
1021 North Grand Avenue East  
P.O. Box 19276  
Springfield, IL 62794-9276

Re: Annual Report NPDES Permit No. ILR400259

Please find attached a copy of the 2016-2017 annual report for Kane County.

If you have any questions, please feel free to contact me at the above number.

Sincerely,

Kenneth N. Anderson, Jr.  
Director  
Kane County Division of Environmental & Water Resources



# 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, 1, 2016 To March, 1, 2017

Permit No. ILR40 0259

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

Name: County of Kane Mailing Address 1: 719 Batavia Avenue  
Mailing Address 2: \_\_\_\_\_ County: \_\_\_\_\_  
City: Geneva State: IL Zip: 60134 Telephone: 630-232-3497  
Contact Person: Rob Linke, P.E. Email Address: linkerobert@co.kane.il.us  
(Person responsible for Annual Report)

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

Kane County

#### 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.

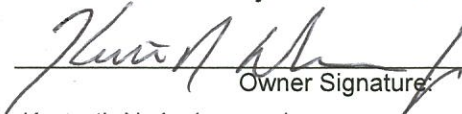
C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

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:  
Kenneth N. Anderson, Jr.  
Printed Name:

5-30-17  
Date:  
Director  
Title:

EMAIL COMPLETED FORM TO: [epa.ms4annualinsp@illinois.gov](mailto: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

Illinois Environmental Protection Agency  
ANNUAL FACILITY INSPECTION REPORT  
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

**Kane County, Illinois (NPDES Permit No. ILR400259)**  
**YEAR 1: *March 1, 2016 - February 28, 2017***

**I. CHANGES TO BEST MANAGEMENT PRACTICES**

There are no changes to the Best Management Practices for the six minimum control measures as described in the Notice of Intent for Kane County submitted on May 27, 2016.

**II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS**

Kane County submitted a Notice of Intent on May 27, 2016, which initiated a new 5-year permit cycle. The BMPs listed in the 2016 Notice of Intent were selected to meet NPDES Phase II program requirements and minimize nonpoint source pollution in Kane County, Illinois.

The implementation progress for each of these BMPs is summarized below in sections A—F. All BMPs described in Kane County's 2016 Notice of Intent have been implemented on or ahead of schedule, with the exception of select items noted in their descriptions below.

**A. PUBLIC EDUCATION AND OUTREACH**

**1. BMP A.1—Distributed Paper Material**

<b>MEASURABLE GOALS</b>	Include "Water Wise Corner" in the <i>Kane County Recycles Green Guide</i> , which is developed and distributed throughout Kane County on an annual basis. Revise "Water Wise Corner" every spring. Track the total number of recipients each year.
<b>RESULTS</b>	The "Water Wise Corner" section was included in the <i>Kane County Recycles Green Guide</i> for 2016-2017, which was distributed to 45,000 residents countywide via 30,000 print copies and 15,000 digital downloads of the document from the Kane County website. Printed copies of the <i>Green Guide</i> were also distributed at multiple community events (see A.4 Community Event).

	<div data-bbox="565 170 959 277" data-label="Image"> </div> <div data-bbox="1006 228 1338 270" data-label="Section-Header"> <h2>Water Wise Corner</h2> </div> <div data-bbox="576 312 1148 424" data-label="Text"> <p>Want to learn how you can help conserve our precious water resources? Visit Kane County's <b>Clean Water for Kane</b> webpage—just go to <a href="http://www.countyofkane.org">www.countyofkane.org</a> and click on <i>Stormwater Education</i> on the bottom right.</p> </div> <div data-bbox="576 445 1146 606" data-label="Text"> <p>You'll find links to a variety of educational tools for homeowners, teachers, students, and municipal government representatives. Or, if you'd prefer to receive some water educational materials via the mail, please contact the Kane County Division of Environmental &amp; Water Resources at 630-208-8665.</p> </div> <div data-bbox="576 627 1151 766" data-label="Text"> <p>Kane County is also a partner in the U.S. Environmental Protection Agency's <b>WaterSense</b> program. Visit <a href="http://www.epa.gov/watersense/">www.epa.gov/watersense/</a> to access educational tools and water savings calculators, or to find information on rebates available to make water-saving improvements to your home or business.</p> </div> <div data-bbox="1170 302 1373 575" data-label="Image"> </div> <div data-bbox="1169 575 1383 642" data-label="Caption"> <p>Kane County Animal Control in Geneva installed a new pet waste station in 2015 to help protect local water quality.</p> </div> <div data-bbox="1170 642 1349 762" data-label="Image"> </div> <div data-bbox="768 829 1214 863" data-label="Text"> <p><i>Water Wise Corner for 2016-2017</i></p> </div>
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## 2. BMP A.2—Speaking Engagement

<b>MEASURABLE GOALS</b>	<p>Provide educational presentations related to stormwater management on a regular basis through involvement in local watershed groups and other environmental committees, ensuring that a minimum of one public presentation is given per year. Track the number of speaking engagements, locations, topics presented, and number of attendees at each engagement.</p>
<b>RESULTS</b>	<p>The presentations listed below were given by Kane County staff during the permit year of March 1, 2016 - February 28, 2017.</p> <ul style="list-style-type: none"> <li>• Northwest Water Planning Alliance meeting—Illinois State Water Survey presentation in Elgin [3/10/16, 20 attendees]</li> <li>• Fox Valley Sustainability Network meeting—presentation on Green Infrastructure Plan in St. Charles [3/16/16, 75 attendees]</li> <li>• Fox River Summit—presentation on Fox River Water Trail Initiative in Burlington, WI [3/18/16, 150 attendees]</li> <li>• Kane County Advisory Council—presentation on Fox River Water Trail Initiative in St. Charles [5/12/16, 26 attendees]</li> <li>• Kane County Development Committee meeting—presentation on road salt and groundwater quality in Geneva [7/19/16, 20 attendees]</li> <li>• Urban Forest Workshop—presentation on Green Infrastructure Plan in St. Charles [9/19/16, 60 attendees]</li> </ul>



	<ul style="list-style-type: none"> <li>Chicago Wilderness Congress—presentation on Fox River Water Trail Initiative in Chicago [11/2/16, 8 attendees]</li> <li>Kane County Planners Forum— presentation on Fox River National Water Trail Initiative in Montgomery [12/2/16, 80 attendees]</li> <li>Fox River Ecosystem Partnership Annual Meeting—presentation on chlorides in the Fox River and winter deicing BMPs in Elgin [1/11/17, 25 attendees]</li> </ul>
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### 3. BMP A.3—Public Service Announcement

<b>MEASURABLE GOALS</b>	<p>A public service announcement for the “Clean Water for Kane” campaign was developed in 2014, and is made available to the community through the Kane County website, special showings, and other digital media outlets. Track the number of PSA showings, locations, and audience reached each year.</p>
<b>RESULTS</b>	<p>During the permit year, the PSA was posted on the Kane County website at <a href="http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145">http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145</a>. No special showings of the PSA were organized by Kane County due to a lack of funding.</p>  <p><i>PSA on Kane County website</i></p>

#### 4. BMP A.4—Community Event

<p><b>MEASURABLE GOALS</b></p>	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane County Health Department. Coordinate a minimum of one public educational workshop per year and participate in other community outreach events. Track the number of events, locations, information distributed, and number of participants for each event.</p>
<p><b>RESULTS</b></p>	<p>Kane County staff participated in the community events listed below during the permit year of March 1, 2016 - February 28, 2017. Stormwater educational handouts—including <i>Green Guides</i> (see A.1 Distributed Paper Material), homeowner resource cards, and natural landscaping brochures—were distributed at these community events.</p> <ul style="list-style-type: none"> <li>• Sustainability Expo at Elgin Community College [4/20/16, 100 attendees]</li> <li>• Green Fair on the Fox in Batavia [8/13/16, 200 attendees]</li> <li>• “It’s Our River Day” in Algonquin [9/12/16, 150 attendees]</li> <li>• Healthy Places Coalition booth at Home Show in St. Charles [2/10/17, 75 attendees]</li> </ul> <div data-bbox="613 1125 1365 1669"> </div> <p><i>Outreach at 'It's Our River Day' 2016 in Algonquin</i></p>



	<p>Native landscaping brochures were also given out to 10 participants in the Healthy Places Coalition meeting on 12/17/16 at the Kane County Government Center in Geneva. Additionally, 100 pet waste tip cards were made available to the public at Kane County Animal Control's vaccine clinics on 6/29/16, 7/30/16, 8/13/16, 9/28/16 and 10/12/16.</p> <p>The Kane County Health Department also hosted two Well &amp; Septic educational events for the public during the permit year:</p> <ul style="list-style-type: none"> <li>• Seminar on 9/21/16 at U of I Extension in St. Charles [48 attendees]</li> <li>• Seminar on 2/8/17 at U of I Extension in St. Charles [42 attendees]</li> </ul>
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## 5. BMP A.5—Classroom Education Material

<b>MEASURABLE GOALS</b>	Maintain a collection of stormwater-related educational materials for use in the classroom, and also reach students in the community through educational displays at libraries and other community venues. Update the classroom educational material database on an annual basis. Track the number of educational displays, locations, materials distributed, and number of students reached throughout the year.
<b>RESULTS</b>	<p>During the permit year, the Kane County Division of Environmental &amp; Water Resources updated the youth educational resource list available on the County website at <a href="http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx">www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx</a>.</p> <p>Additionally, the Division provided educational materials—including water conservation coloring books and stickers, <i>Clean Water for Kane</i> rain gages, toilet leak detection tabs, pet waste tip cards, and outdoor water use brochures—to the Friends of the Fox River for the Aurora Watchdog kickoff event on October 7, 2016.</p>

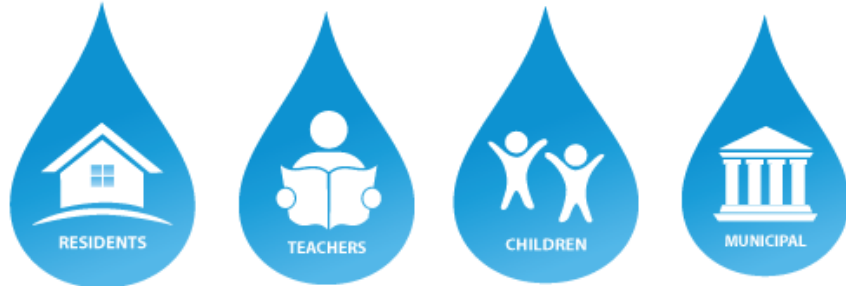
## 6. BMP A.6 – Other Public Education

<b>MEASURABLE GOALS</b>	The Kane County Division of Environmental & Water Resources maintains a "Clean Water for Kane" website, and also develops seasonal stormwater-related informational articles that are distributed through the <i>Kane County Connects</i> e-newsletter, website, and social media pages. Update the "Clean Water for Kane" web pages on an annual basis. Track the number of stormwater-related articles in <i>Kane County Connects</i> , topics covered, and audience reach each year.
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During the permit year, the Kane County Division of Environmental & Water Resources updated the "Stormwater Education" pages on the County website.

### **Stormwater Education**

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*Stormwater Education page of the Kane County website:*  
[www.countyofkane.org/FDER/Pages/EnvironmentalResources/  
stormwaterEducation.aspx](http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx)

In addition, six water-related articles were published in *Kane County Connects*:

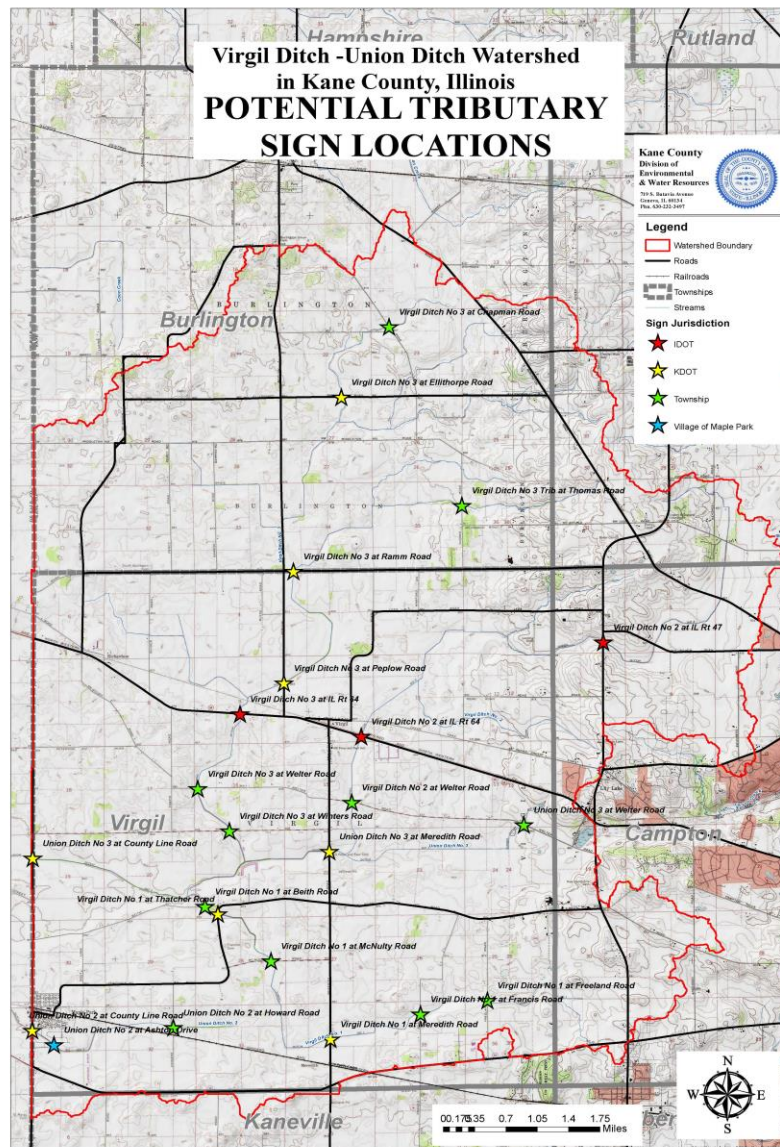
#### **RESULTS**

- *You're Invited to Tour an Amazing \$1.7 Million Rain Garden Project* (4/12/16): <http://kanecountyconnects.com/2016/04/countdown-to-earth-day-youre-invited-to-tour-an-amazing-1-7-million-aurora-rain-garden/>
- *Where to Buy Rain Barrels and Composters for Spring* (4/20/16): <http://kanecountyconnects.com/2016/04/countdown-to-earth-day-where-to-buy-rain-barrels-and-composters-for-spring/>
- *City of Batavia Hosts July 16 Water Tour to Show What's Done to Keep it Safe* (7/7/16): <http://kanecountyconnects.com/2016/07/city-of-batavia-hosts-july-16-water-tour-to-show-whats-done-to-keep-it-safe/>
- *2 Carpentersville Weekend Events Promise Family Fun on the Fox* (7/11/16): <http://kanecountyconnects.com/2016/07/2-carpentersville-weekend-events-promise-family-fun-on-the-fox/>
- *Explore the Outdoors at 'It's Our River Day' in Algonquin Sept. 17* (9/13/16): <http://kanecountyconnects.com/2016/09/explore-the-outdoors-at-its-our-river-day-in-algonquin-sept-17/>
- *Want to Help Protect Water Quality? Join the New Stormwater Technical Advisory Committee* (1/4/17): <http://kanecountyconnects.com/2017/01/want-to-help-protect-water-quality-in-kane-county-join-the-new-stormwater-technical-advisory-committee/>

*Kane County Connects* reaches over 10,000 newsletter subscribers and over 4100 followers on social media.

## 7. BMP A.6 – Other Public Education

<b>MEASURABLE GOALS</b>	<p>The Kane County Division of Environmental &amp; Water Resources maintains a supply of “Kane County Streams” signs to be installed at road crossings throughout the County. Kane County will provide the signs to MS4 communities as requested for installation within their own municipal boundaries, and will maintain a database of signs manufactured and installed throughout the year.</p>
<b>RESULTS</b>	<p>During the permit year, Kane County provided stream signs to the following communities:</p> <ul style="list-style-type: none"><li>• Plato Township—6 signs for 3 road crossings (April 2016)</li><li>• City of Batavia—20 signs for 10 crossings (June 2016)</li><li>• Carpentersville/Friends of the Fox River—36 signs for 12 road crossings and 6 trail crossings in the Jelkes Creek sub-basin (November 2016)</li></ul> <p>In addition, the Kane County Division of Transportation installed 16 signs at 8 road crossings in the Virgil Ditch-Union Ditch sub-basin during 2016.</p>



*KDOT Stream  
Sign Locations  
in the Virgil  
Ditch-  
Union Ditch  
Sub-basin*

## B. PUBLIC PARTICIPATION/INVOLVEMENT

### 1. BMP B.3—Stakeholder Meeting

#### MEASURABLE GOALS

Kane County is involved in watershed planning and management efforts that seek input from a variety of watershed stakeholders. Provide notice of stakeholder meetings on the Kane County website and distribute meeting information to stakeholder email lists. Track the number of watershed meetings hosted or co-hosted by the County, meeting locations, topics discussed, and participation numbers.

<b>RESULTS</b>	<p>During the permit year, the following stakeholder meetings were held by Kane County:</p> <ul style="list-style-type: none"> <li>• MS4 Roundtable—presentations on NPDES permit requirements held at Kane County Government Center in Geneva [4/12/16; 45 attendees, including 3 Kane County staff]</li> <li>• Stormwater Management Planning Committee—kickoff meeting for Stormwater Ordinance revision process held at Kane County Government Center in Geneva; Open to public [2/14/17; 21 attendees, including 5 Kane County staff]</li> </ul> <p>All Stormwater Management Planning Committee meetings are open to the public, and agendas and minutes from these meetings are available on the County website:  <a href="http://www.countyofkane.org/Pages/CountyBoard/committee.aspx?cID=52">www.countyofkane.org/Pages/CountyBoard/committee.aspx?cID=52</a></p>
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## 2. BMP B.5—Volunteer Monitoring

<b>MEASURABLE GOALS</b>	<p>Kane county continues to take a multi-level approach to supporting stream monitoring efforts by holding a leadership role in watershed groups carrying out monitoring work, as well as by providing financial support for local volunteer monitoring programs and river monitoring via USGS stream gages. Maintain Joint Funding Agreement with USGS and allocate funding for stream gages. Support local volunteer monitoring program. Track the number of leadership meetings attended and the funding provided on an annual basis.</p>
<b>RESULTS</b>	<p>Kane County staff served on the Board of Directors of the Fox River Study Group and as an advisor to the Fox River Ecosystem Partnership, attending the following meetings during the permit year:</p> <ul style="list-style-type: none"> <li>• Fox River Study Group meetings held in Oswego [3/31/16, 4/28/16, 5/22/16, 7/28/16, 8/25/16, 9/29/16, 10/27/16, 11/17/16, 12/15/16, 1/26/17, 2/23/17]</li> <li>• Fox River Ecosystem Partnership meetings [4/13/16 and 5/11/16 in Aurora, 5/11/16 in Algonquin, 11/9/16 in Batavia, 1/11/17 in Elgin]</li> </ul> <p>In addition, the Kane County Division of Environmental &amp; Water Resources provided financial support of \$500 in January 2017 to the Friends of the Fox River for their volunteer monitoring program.</p>



	A Joint Funding Agreement between Kane County and the U.S. Geological Survey was signed on 8/22/16 to cover the time period of October 1, 2016 through September 30, 2017. Kane County has committed \$59,260 of FY2017 funding to support stream and rainfall gages in the county.
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### 3. BMP B.7—Other Public Involvement

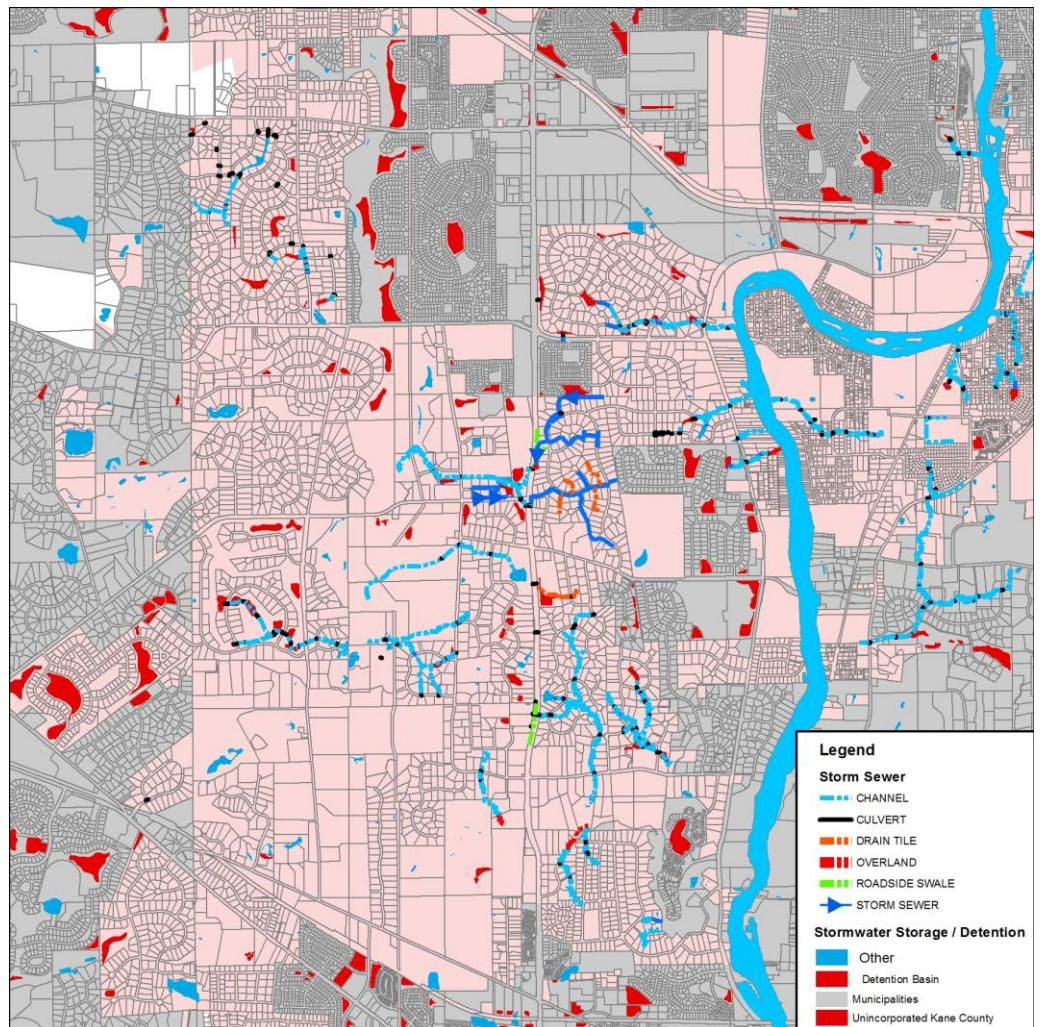
<b>MEASURABLE GOALS</b>	Kane County will provide technical and financial support to the Friends of the Fox River and other local watershed groups to ensure that opportunities exist for public involvement in stream cleanup efforts. Allocate funding to support stream cleanups on an annual basis. Track the number of planning meetings or cleanup events attended by Kane County staff each year.
<b>RESULTS</b>	The Kane County Division of Environmental & Water Resources provided \$500 in January 2017 to the Friends of the Fox River to support stream cleanups in the county, and also promoted river cleanup volunteer opportunities via <i>Kane County Connects</i> : <a href="http://kanecountyconnects.com/2017/03/countdown-to-earth-day-15-tips-for-going-green-in-kane-county-il/">http://kanecountyconnects.com/2017/03/countdown-to-earth-day-15-tips-for-going-green-in-kane-county-il/</a> .

## C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

### 1. BMP C.1—Storm Sewer Map Preparation

<b>MEASURABLE GOALS</b>	Kane County will update its storm sewer mapping in GIS to include the location and size of all County-owned stormwater outfalls to receiving streams in the urbanized area, and will distribute up-to-date mapping and information across County departments including the Facilities, Transportation, and Emergency Management departments. Update the stormwater system map layer on an annual basis to incorporate new stormwater outfalls identified.
<b>RESULTS</b>	During the permit year, the Kane County Division of Environmental & Water Resources completed mapping of all storm sewers located on county-owned parcels (which excludes road right of ways)—2.65 miles of storm sewers, culverts, and channels were identified and cataloged in the County's GIS system. Maps of each parcel were prepared and are available in PDF format to all County departments on the County's computer network.

Division staff also continued to update the County's storm sewer mapping throughout the unincorporated areas of the County. As of March 2017, more than 63 miles of storm sewers, culverts, roadside ditches, channels, and drain tiles have been added to the mapping system. Detention basins have also been included. To date, 418 detention basins in unincorporated Kane County have been identified and mapped. This represents approximately 90% of all stormwater detention basins within unincorporated Kane County.



*Kane County's Storm Sewer Map*

## 2. BMP C.2—Regulatory Control Program

<b>MEASURABLE GOALS</b>	Kane County will utilize regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County's MS4 by following established procedures at the Kane County Health Department. Track the number of illicit discharges identified on an annual basis and document the actions taken to eliminate the discharges.
<b>RESULTS</b>	The Kane County Health Department has continued to enforce its regulatory authority to prohibit, inspect, and follow-up with enforcement for illegal discharges into the County's MS4. Over the past year, the Health Department has investigated 29 potential septic failure complaints. Three complaints were in the county's Administrative Adjudication process to achieve compliance. The Health Department continues to work with the community of Virgil to identify and correct any septic systems that are not in compliance.

## 3. BMP C.10—Other Illicit Discharge Controls

<b>MEASURABLE GOALS</b>	Kane County's Environmental Health staff are trained to identify potential illicit discharges to the County's MS4 and to follow the established procedures for eliminating the discharges. Conduct illicit discharge detection training for Environmental Health staff on an annual basis. Track the number of staff trained and total hours of training received.
<b>RESULTS</b>	Kane County Health Department staff that deal with septic issues receive a minimum of three hours of continuing education each year. All staff that handle private sewage disposal system inspections attended a minimum of 3 hours of onsite sewage disposal training over the past year. The attendees of the private sewage disposal trainings were Amy Lantis, Austin Schramer, Vic Mead, Julie Wiegel, Neal Molnar, Sharon Verzal, and Erin Rauscher.

## **D. CONSTRUCTION SITE RUNOFF CONTROL**

### **1. BMP D.1—Regulatory Control Program**

<b>MEASURABLE GOALS</b>	The Kane County Stormwater Management Ordinance addresses all requirements of the Construction Site Runoff Control measures, D.1-D.7. Implement and enforce the Kane County Stormwater Ordinance, maintaining and updating program documentation annually.
<b>RESULTS</b>	<p>During the permit year, 45 Stormwater Permit Applications were submitted to the County. All of these proposed projects were reviewed with consideration of Construction Site Runoff under the requirements of the Kane County Stormwater Management Ordinance. Permits are digitally tracked in the Kane County – CityView system, as well as the County keeps a hard copy and a digital copy of the permits and plans for Stormwater Permit Applications.</p> <p>The Kane County Division of Environmental &amp; Water Resources also kicked off the process of revising the Stormwater Management Ordinance over the upcoming year by re-convening the Stormwater Management Planning Committee that met on February 14, 2017 (see B.3—Stakeholder Meeting).</p>

## **E. POST-CONSTRUCTION RUNOFF CONTROL**

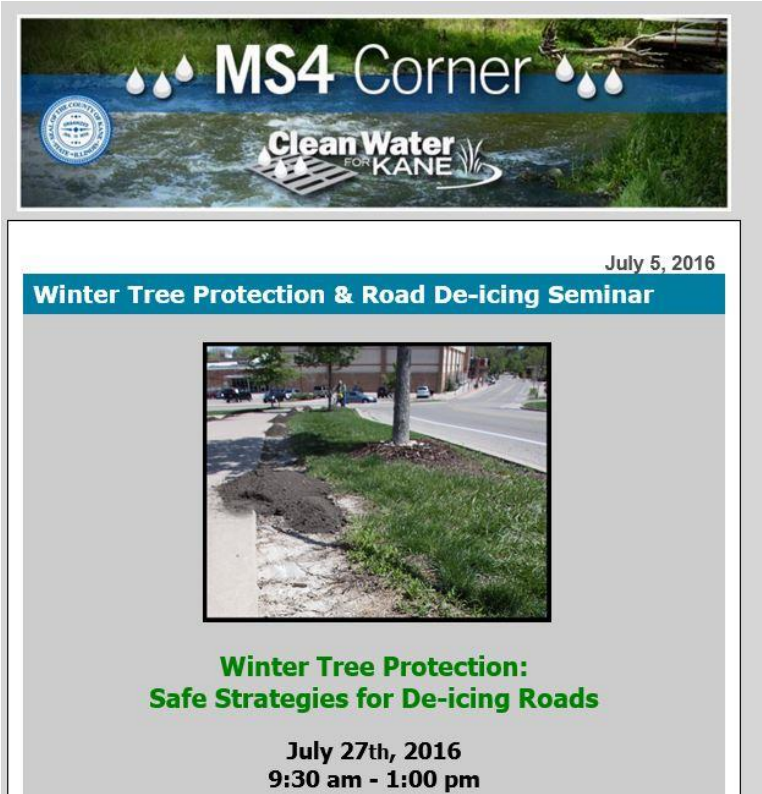
### **1. BMP E.2—Regulatory Control Program**

<b>MEASURABLE GOALS</b>	The Kane County Stormwater Management Ordinance addresses all requirements of the Post-Construction Runoff Control measures, E.1-E.7. Implement and enforce the Kane County Stormwater Ordinance, maintaining and updating program documentation annually.
<b>RESULTS</b>	<p>During the reporting period, 32 Stormwater Permits were issued. Post-Construction Runoff Control measures were implemented on these projects under the requirements of the Kane County Stormwater Management Ordinance. Permits are digitally tracked in the Kane County – CityView, as well as the County keeps a hard copy and a digital copy of the permits and plans for Stormwater Permits.</p> <p>The Kane County Division of Environmental &amp; Water Resources also kicked off the process of revising the Stormwater Management Ordinance over the upcoming year by re-convening the Stormwater Management Planning</p>

	Committee that met on February 14, 2017 (see B.3—Stakeholder Meeting).
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## F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

### 1. BMP F.1—Employee Training Program

<b>MEASURABLE GOALS</b>	Kane County will provide stormwater management training opportunities to County staff as well as other MS4 communities by coordinating a regular “MS4 Corner” e-newsletter, as well as by hosting webcasts. Maintain an email contact list for MS4 community representatives, and distribute the e-newsletter on a minimum of a quarterly basis. Host stormwater informational webcasts as relevant, tracking the number of trainings provided and the number of attendees.
<b>RESULTS</b>	<p>During the permit year, the Kane County Division of Environmental &amp; Water Resources regularly updated the MS4 contact list. Ten issues of the “MS4 Corner” newsletter were created and distributed to the contact list [3/14/16, 4/4/16, 5/12/16, 7/5/16, 8/5/16, 9/9/16, 10/4/16, 11/1/16, 1/12/17, 2/3/17].</p> <div data-bbox="618 1014 1375 1803">  </div> <p><i>Example issue of MS4 Corner</i></p>



	<p>During the permit year, Kane County hosted the following webcasts from the Center for Watershed Protection at the Government Center in Geneva:</p> <ul style="list-style-type: none"> <li>• Surviving a MS4 Compliance Audit [3/16/16; 5 attendees, including 2 Kane County staff]</li> <li>• Education Programs to Enhance Pollutant Removal [5/18/16; 6 attendees, including 3 Kane County staff]</li> <li>• Retrofitting Revisited [10/12/16; 3 attendees, including 2 Kane County staff]</li> <li>• Non-Traditional MS4s [11/16/16; 5 attendees, including 3 Kane County staff]</li> </ul> <p>Sign in sheets from these webcasts are available upon request.</p> <p>In addition, Kane County Environmental &amp; Water Resources staff participated in the following training opportunities provided by other entities:</p> <ul style="list-style-type: none"> <li>• Beyond the Basics Stormwater Management Conference hosted by The Conservation Foundation in Woodridge [9/14/17; Attended by Rob Linke]</li> <li>• Beyond the Basics-Community Leaders Session: "Removing Barriers to Development—Streamlining the Process from a Stormwater Perspective" hosted by The Conservation Foundation in Woodridge [9/14/17; Attended by Cecilia Govrik]</li> <li>• Green Infrastructure Modeling Software and Tools webinar provided by the U.S. Environmental Protection Agency [10/26/16; Attended by Govrik, Linke and Wilford]</li> </ul>
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## 2. BMP F.2—Inspection and Maintenance Program

<b>MEASURABLE GOALS</b>	<p>Kane County will continue its established Operation and Maintenance Program – which includes the Division of Transportation clearing roadside swales once a year, and inspecting and cleaning catch basins and storm inlets quarterly. Kane County will also develop and adhere to an annual inspection and maintenance schedule for BMPs installed on County properties, and will utilize available tools to implement a BMP Inventory &amp; Evaluation Program. Inspect and maintain roadside swales, catch basins and storm inlets, and BMPs on County properties according to schedule, documenting pollutant load reduction on an annual basis.</p>
<b>RESULTS</b>	<p>During 2016, the Kane County Division of Transportation swept approximately 85 miles of curbing and 40 bridge decks on a regular monthly interval.</p>

	<p>In addition, KDOT added a vac/jetter truck to its fleet and cleaned out all catch basins in the north part of the County.</p> <p>During the permit year, the Kane County Division of Environmental &amp; Water Resources also developed a BMP Inventory &amp; Evaluation spreadsheet (see section III) to track data for BMPs installed on Kane County owned properties.</p>
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### 3. BMP F.4—Municipal Operations Waste Disposal

<b>MEASURABLE GOALS</b>	<p>Kane County will follow established procedures to maintain buildings, fleet vehicles, and equipment. Procedures include the proper disposal of wastes from municipal operations, in compliance with all local, State, and Federal regulations. Kane County departments will continue to recycle all types of used oil, antifreeze, oil filters, tires, batteries, scrap metal, and cardboard. Perform fleet inspections and recycle hazardous materials on an ongoing basis, documenting compliance with the procedures annually.</p>
<b>RESULTS</b>	<p>The Kane County Division of Transportation continues to follow established vehicle maintenance and proper waste disposal procedures, maintaining internal records of these activities using CFA (Computerized Fleet Analysis) Software for fleet tracking.</p> <p>KDOT vehicles are inspected according to the following schedule:</p> <ul style="list-style-type: none"> <li>• Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days</li> <li>• Light trucks and cars—every 5000 miles or 90-180 days</li> <li>• Heavy off-road equipment—every 50 hours or 180 days</li> <li>• Light off-road equipment—every 50 hours or 180 days</li> </ul>

### 4. BMP F.5—Flood Management/Assess Guidelines

<b>MEASURABLE GOALS</b>	<p>Kane County will continue to implement the Kane County Hazard Mitigation Program. Host two Hazard Mitigation Committee meetings per year to coordinate ongoing implementation of the plan.</p>
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<b>RESULTS</b>	<p>The Kane County Emergency Management Department and Kane County Division of Environmental &amp; Water Resources continue to coordinate the implementation of the <i>Kane County Natural Hazards Mitigation Plan</i>, which was first adopted in 2003 and recently updated in 2015. During the permit year, Kane County hosted two Hazard Mitigation Committee meetings on 4/20/16 and 10/12/16.</p> <p>During 2016, the Kane County Division of Environmental &amp; Water Resources completed 12 cost-share projects to reduce flooding on unincorporated residential properties (property list available upon request). The Division also updated its "Floodplain Information" and "Local Drainage Assistance" pages on the County website during the past permit year, and Water Resources staff attended a Community Rating System workshop hosted by the Illinois Association for Floodplain and Stormwater Management in November 2016.</p> <p>In addition, Kane County hosted a training event at the Government Center in Geneva for neighboring communities:</p> <ul style="list-style-type: none"> <li>• Substantial Damage Estimator Software training from IL Department of Natural Resources [4/13/16; 27 attendees, including 10 Kane County staff]</li> </ul>
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## 5. BMP F.6—Other Municipal Operations Controls

<b>MEASURABLE GOALS</b>	<p>Kane County will implement Road Salt Application and Storage procedures to minimize salt washoff into the County's MS4. Train staff on deicing and salt management procedures on an annual basis. Track the number of training events and participants each year.</p>
<b>RESULTS</b>	<p>The Kane County Division of Transportation provides continual training on salt application and storage procedures via staff manuals, calibrates KDOT trucks to the proper salt dispensing rate and equips each salt truck with a reference table the driver can use to determine the optimal rate of pounds of salt dispensed per lane mile, and stores salt indoors throughout the year to minimize concentrated salt washoff into the MS4.</p> <p>The Kane County Division of Environmental &amp; Water Resources also worked with The Conservation Foundation to host a winter road management training at the Government Center in Geneva that was open to all MS4 communities in the region.</p>

- Public Roads Deicing Workshop [10/6/16; 66 attendees, including 12 Kane County staff]



**Thursday, October 6, 2016**  
7:00 AM–12:00 PM

Hosted by:

Kane County Government Center  
Building A—Auditorium  
719 S. Batavia Ave.  
Geneva, IL 60134



#### Agenda:

- Hot Buffet Breakfast & Sign-In
- Chloride: Environmental and Regulatory Impacts
- Impacts of Chlorides in the Fox River
- Efficient & Effective Winter Maintenance
- Successful Communications Strategies
- Local Programs (Updates)
- Equipment Show

#### Registration is Required.

Register online with a credit card at: <https://www.eventbrite.com/e/2016-kane-county-public-roads-deicing-workshop-tickets-27392150660>

Training Certificates Provided, up to 4 PDH's available

In addition, Kane County Environmental & Water Division staff attended deicing training:

- Winter Tree Protection: Safe Strategies for Deicing Roads seminar hosted by the Chicago Region Trees Initiative in Schaumburg [7/27/16; Attended by Cecilia Govrik]

### III. RESULTS OF INFORMATION COLLECTED AND ANALYZED

No monitoring data was collected and analyzed during the reporting period. Per Attachment B. of the 2016 Notice of Intent, Kane County has elected to implement a BMP Inventory & Evaluation Program in lieu of monitoring.

During the permit year, the “MS4 Non-Point Source Control Measure Tracking Tool” provided by the Fox River Study Group was used to calculate annual pollutant load reduction for the following BMPs on Kane County government-owned properties:

#### MS4 Non-Point Source Control Measure Tracking Tool

Fox River Watershed, Illinois

MS4	Project Name	Project Cost	Project Type	Total Area Captured (acres)	% Urban High Density	% Low-Medium Density	% Urban Open Space	Area-Weighted UAL (lb/acre/yr)	Load (lb)	Removal Efficiency	Total Load Removed (lb/yr)	Cost per Pound P Removed (\$/lb)
Kane county	KC Govt Center PICP Parking Lot	\$250,000	Bioretention	0.99	100%	0%	0%	0.98	1.0	65%	0.6	\$398,408
Kane county	KC Govt Center Rain Garden	\$25,000	Bioretention	0.4	75%		25%	0.79	0.3	65%	0.2	\$121,768
Kane county	KC Circuit Court Clerk Parking Lot Bioretention Basins (2)	\$35,000	Bioretention	1.3	95%		5%	0.94	1.2	65%	0.8	\$44,156
Kane county	KDOT Building Expansion Detention Basin	\$25,000	Dry detention	1.1	75%		25%	0.79	0.9	26%	0.2	\$110,698
Kane county	KDOT Storage Yard Detention Basin	\$15,000	Dry detention	3.25	100%			0.98	3.2	26%	0.8	\$18,204
Kane county	KC Judicial Center Pond	\$250,000	Wet detention	2.50	20%		80%	0.38	95.4	68%	64.9	\$3,854
Kane county	KDOT Detention at Big Timber & Toood Farm Rd in Elgin Twp	\$25,000	Dry detention	27	90%		10%	0.90	24.3	26%	6.3	\$3,953

An electronic copy of this inventory is available upon request.

### IV. SUMMARY OF ANTICIPATED ACTIVITIES DURING NEXT REPORTING CYCLE

In early 2017, the Kane County Division of Environmental & Water Resources kicked off the process of revising the Stormwater Management Ordinance by re-convening the Stormwater Management Planning Committee that met on February 14, 2017 (see B.3—Stakeholder Meeting). The committee consists of 6 municipal members, 6 County Board representatives, and 3 ex-officio members. After revising their bylaws in February, the committee met again in April 2017 and approved a contract with Engineering Resource Associates (ERA). ERA will work closely with a Technical Advisory Committee and an Agricultural Subcommittee over the next year to make necessary revisions to the Ordinance.

During the upcoming permit year, Kane County staff will also work to develop a more formalized internal training program for County staff in order to better fulfill and document Pollution Prevention/Good Housekeeping requirements.

### V. RELIANCE ON ANOTHER GOVERNMENTAL ENTITY

Kane County is not relying on another governmental entity to satisfy NPDES permit obligations.



## VI. CONSTRUCTION PROJECT LIST

The following Kane County road construction projects were active during the permit year of March 1, 2016—February 28, 2017.

<b><i>Project</i></b>	<b><i>Contract Value</i></b>
Jericho over Blackberry Creek	\$2,549,788.54
Longmeadow Parkway A1	\$6,290,961.56
LMP Tree Removal	\$74,701.00
Orchard Rd Drainage System Improve	\$169,210.00
Kane County Crack Filling Program	\$124,164.80
2016 Pavement Preservation Program	\$801,293.28
Kane County Paint Pave Marking	\$581,229.47
Urethane Pave Marking	\$366,126.50
2016 Resurfacing Program	\$3,572,275.00
2016 Crack Filling	\$104,853.68
Allen Rd over Hampshire	\$1,444,719.15
Sandy Creek Culvert 11 R & R	\$284,301.10
Silver Glen Bridge Repair	\$108,655.00
Dauberman Welsh	\$779,601.20
Burlington and 47	\$2,090,386.96
Bowes Road ATT Repair	\$58,482.00