

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

**Kane County, Illinois (NPDES Permit No. ILR400259)**

**YEAR 5: *March 1, 2020 - February 28, 2021***

**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>	<p>The “Clean Water for Kane” section was included in the <i>Kane County Recycles Green Guide</i> for 2020, 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).</p> <p>The “Clean Water for Kane” section was included in the Kane County Recycles Green Guide for 2020, which was distributed to 30,000 residents countywide via printed and electronic copies. Printed copies of the Green Guide are traditionally distributed at community events, however, due to the COVID-19 pandemic, many community events were cancelled or held virtually.</p>

**Use LESS. Use WISELY.**

**ENERGY**

- **Use ENERGY STAR** rated appliances to conserve energy: dishwashers, refrigerators, and laundry machines.
- **Stop idling** your vehicle: Idling wastes fuel and money, is unnecessary for most modern vehicles, and contributes to air pollution.
- **Use lighting, heating, and cooling modestly**, taking advantage of natural lighting and using a "smart" thermostat. Turn off when not in use.
- **Insulate:** particularly in attics and basements where most heat is lost. Use door draft stoppers in winter.
- **Bike, walk, or use public transportation** when possible: Reducing single-passenger vehicle miles travelled drastically reduces fuel consumption and greenhouse gas emissions.



**WATER**

- **Use WaterSense** rated fixtures to conserve water: faucets, toilets, shower heads, and irrigation systems.
- **Water wisely:** Water lawns deeply and infrequently to encourage deep root growth. Ideally, your lawn only needs 1 inch of water per week.
- **Install a rain barrel and rain garden:** This conserves potable water and replenishes groundwater supplies.
- **Salt sensibly:** Excessive road salt during winter months is harming our water resources. Shovel first, then apply salt wisely.
- **Protect:** Only rain down the storm drain. Keeping household chemicals, cleaners, and lawn chemicals (pesticides, herbicides, & fertilizers) from being dumped into or washed down storm drains.



**RESOURCES**



- **Move toward reusables:** Mugs, bags, food storage, service ware, toiletries... this list is endless. Specifically, avoid single-use plastics and plastic packaging.
- **Utilize organics:** Reduce waste and compost food scraps to return nutrients to the soil rather than send them to a landfill, where they become unusable waste and create methane gas emissions.
- **Conscientious purchasing:** Buy only what you need, being conscious of what the product is made of, how far it travelled to reach you, and how long you will use it for.



**Does one disposable cup matter? One straw? One bag? The answer is definitely – yes.**

The choices of each individual matter. After all, with 7.7 billion people in the world and approximately 535,000 of those people in Kane County, those "ones" add up to be a detriment to the planet... or a lifeline, if we all make one more decision to be conscious of the resources we use and waste we create. That is one LESS plastic bag, or disposable, unnecessary item multiplied by <you decide this number> because of your choices.

If each person in Kane County refused one straw, we could eliminate the equivalent of 76 miles of straws.

-Jessica Mino, Resource Management Coordinator for the Division of Environmental and Water Resources



**Kane County Spring Rain Barrel Sale**

Details will be available at: [www.countyofkane.org](http://www.countyofkane.org)  
-Division of Environmental and Water Resources webpage



Learn more about going solar at a **Solar Power Hour** near you, expected to begin in April 2020.

Presented by: Kane County, the Citizens Utility Board, and **Midwest Renewable Energy Association**.

Details can be found at: [growsolar.org/chicagoland/](http://growsolar.org/chicagoland/)

*Clean Water for Kane section of the Kane County Recycles Green Guide for 2020-2021*

**2. BMP A.2—Speaking Engagement**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	

	<p>The presentations listed below were given by Kane County staff during the permit year of March 1, 2020 — February 28, 2021:</p> <ul style="list-style-type: none"> <li>• Fox River Water Trail Project: March 4, 2020, <i>Crystal Lakes Green Drinks</i>; via Zoom</li> <li>• Fox River Water Trail Project: October 17, 2020, <i>Learn from the Experts Class for the Forest Preserve District of Kane County</i>; via Zoom</li> <li>• “Kane County Stormwater Infrastructure” – presentation to Tyler Creek Watershed Coalition [10/21/2020; 26 attendees]</li> <li>• “Kane County Stormwater Infrastructure” – presentation to Village of Pingree Grove at Village Board Meeting via Zoom [12/7/20; 25 attendees]</li> <li>• “Wetlands &amp; Wetland Protection in Kane County” – presentation to Fox River Ecosystem Partnership Virtual Noon Network Meeting [1/13/21, 20 attendees]</li> <li>• Fox River Water Trail Project: March 11, 2021, <i>Fox River Summit, Burlington, WI</i></li> <li>• 2021 Kane-DuPage Soil &amp; Water Conservation District Soil Erosion &amp; Stormwater Seminar (webinar), presentation on Countywide Stormwater Infrastructure Mapping” [2/18/2021, 266 attendees]</li> <li>• Recycling Presentations that included information on proper Household Hazardous Waste Disposal: Western Avenue School [3/4/20, 68 attendees], Kane County Sheriff’s Office [3/4/20, 50 attendees] , Zoom – Waubensee Online Presentation [4/13/20, 243 attendees], Zoom - Green Drinks McHenry County Env. Defenders [1/13/21, 80 attendees, 325 views on youtube], Zoom - School Recycling Video [2/21/21, 22 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>The screenshot shows the Kane County, Illinois website header with navigation links (Government, A-Z Services, Business, Communities, Calendar, Maps, Employment, County Code, Home) and contact information (719 Batavia Avenue, Geneva, Illinois 60134 / Phone: 630-232-3400, www.countyofkane.org). A sidebar on the left contains links for Kane County News, Meeting Agenda &amp; Minutes, Press Releases, Article Archive, and Newsletter Sign-up. The main content area features a 'Clean Water for Kane Video' section with a PSA image of a cardboard sign that reads 'CLEAN WATER FOR KANE' and 'CountyofKane.org'. The sign is decorated with a butterfly and a dragonfly. Below the image is the caption 'PSA on Kane County website'.</p>
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**4. BMP A.4—Community Event**

<b>MEASURABLE GOALS</b>	<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>
<b>RESULTS</b>	<p>Kane County staff participated in the community events listed below during the permit year of March 1, 2020 - February 29, 2021. 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> <p>Kane County staff participated in the community events listed below during the permit year of March 1, 2020 – February 29, 2021. Some community events were shifted online to “virtual events” due to the COVID-19 pandemic or cancelled due to lack of resources and time to transition events online. Stormwater educational handouts – including the Green Guides (see A.1 Distributed Paper Material) were distributed at the community events held in person, virtual links to the <i>Clean Water for Kane</i> website - which hosts all Kane County stormwater educational materials for the public (see A.6 Other Public Education) - were made available for virtual events.</p>

- One Earth Film Festival [3/9/2020]
- Fox Valley Sustainability Network Flooding and Green Infrastructure Webinar Virtual [5/6/2020, Kane County staff present on Stormwater Management Ordinance]
- Fox Valley Sustainability Network Screening of ‘Microplastic Madness’ and Webinar Discussion [11/18/20]
- Kane County Rain Barrel Sale and Pick-Up Day in St. Charles [5/27/20, 32 attendees]

The Kane County Health Department did not host its annual Well & Septic educational events for the public due to the COVID-19 pandemic.

KCDEWR co-sponsored and assisted with the construction of a 40X18 rain garden at the Kane County Farm Bureau office. Excavation/construction was completed with KCDEWR staff on 7/14/20 and plantings were installed at a community planting event organized by the KC Farm Bureau on 7/18/20 in which more than 20 volunteers installed about 400 native plants.



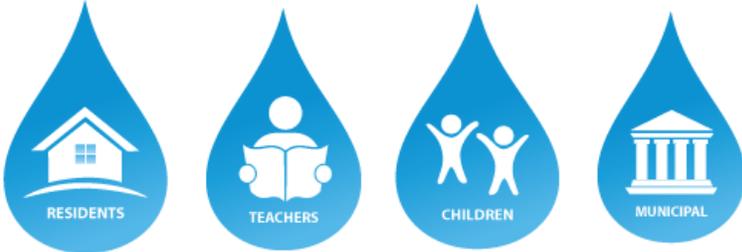
<http://www.chicagotribune.com/suburbs/aurora-beacon-news/ct-abn-rain-garden-st-0721-20200720-fgwn2frsczgerdrxqh4anentf-m-story.html>

### 5. BMP A.5—Classroom Education Material

<p><b>MEASURABLE GOALS</b></p>	<p>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.</p>
<p><b>RESULTS</b></p>	<p>During the permit year, the Kane County Department 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 Department provided educational materials—including water</p>

	<p>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 partner organizations, particularly the Forest Preserve District of Kane County and Friends of the Fox River for the Schweitzer Environmental Center.</p> <p>During the permit year, the Kane County Department of Environmental and Water Resources updated the youth educational resource list available on the county website:  <a href="https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx">https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx</a> as well as the teacher educational resource list available on the county website:  <a href="https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx">https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx</a></p> <p>Additionally, Kane County Department of Environmental and Water Resources allocated \$500 of FY20 funding to Friends of the Fox River (FOFR) for their Classroom Educational Programming and pledges the same amount for FY21.</p>
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**6. BMP A.6 – Other Public Education**

<b>MEASURABLE GOALS</b>	<p>The Kane County Department of Environmental &amp; 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.</p>
<b>RESULTS</b>	<p>During the permit year, the Kane County Department of Environmental &amp; Water Resources updated the “Stormwater Education” pages on the County website.</p> <p style="text-align: center;"><b>Stormwater Education</b></p> <hr style="width: 50%; margin: auto;"/> <div style="text-align: center;">  <p style="display: flex; justify-content: space-around; font-size: small;"> <span>RESIDENTS</span> <span>TEACHERS</span> <span>CHILDREN</span> <span>MUNICIPAL</span> </p> </div> <p style="text-align: center;"> <i>Stormwater Education page of the Kane County website:</i>  <a href="http://www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx">www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx</a> </p> <p>In addition, five water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> <li>• <i>Kane-DuPage Soil and Water Conservation District Holds Feb 11</i></li> </ul>

	<p><i>Election</i> [1/5/21] <a href="https://kanecountyconnects.com/2021/01/kane-dupage-soil-and-water-conservation-district-holds-feb-11-election/">https://kanecountyconnects.com/2021/01/kane-dupage-soil-and-water-conservation-district-holds-feb-11-election/</a></p> <ul style="list-style-type: none"> <li>• <i>1 Inch of Water = \$25,000 Damage – Here’s How Kane Residents Can Get FEMA Flood Insurance</i> [3/11/21] <a href="https://kanecountyconnects.com/2021/03/1-inch-of-water-25000-damage-heres-how-kane-residents-can-get-fema-flood-insurance/">https://kanecountyconnects.com/2021/03/1-inch-of-water-25000-damage-heres-how-kane-residents-can-get-fema-flood-insurance/</a></li> <li>• <i>Task Force Announces Dec 1-3 State Water Plan Stakeholder Meetings</i> [11/24/20] <a href="https://kanecountyconnects.com/2020/11/task-force-announces-dec-1-3-state-water-plan-stakeholder-meetings/">https://kanecountyconnects.com/2020/11/task-force-announces-dec-1-3-state-water-plan-stakeholder-meetings/</a></li> <li>• <i>Tyler Creek Watershed Coalition ‘Zooms’ Oct 21 Membership Meeting, Webinar</i> [10/20/20] <a href="https://kanecountyconnects.com/2020/10/tyler-creek-watershed-coalition-zooms-oct-21-membership-meeting-webinar/">https://kanecountyconnects.com/2020/10/tyler-creek-watershed-coalition-zooms-oct-21-membership-meeting-webinar/</a></li> <li>• <i>Kane County Celebrates 50 Years of Earth Day!</i> [4/21/20] <a href="https://kanecountyconnects.com/2020/04/kane-county-celebrates-50-years-of-earth-day/">https://kanecountyconnects.com/2020/04/kane-county-celebrates-50-years-of-earth-day/</a></li> </ul> <p><i>Kane County Connects</i> reaches 11,918 newsletter subscribers and over 7,372 followers on social media.</p>
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## 7. BMP A.6 – Other Public Education

<b>MEASURABLE GOALS</b>	<p>The Kane County Department 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 community: Unincorporated Kane County, working with Jelkes Creek Watershed Group to place stream signs along new roadways:</p> <p>Unincorporated Kane County – Provided coordination with local watershed groups and Kane County DOT for the installation of 8 signs total, 2 signs at the Jelkes Creek Watershed boundary, 6 signs at waterway crossings along the Fox River, School Creek and Potawatomi Trail Creek; Signed to be installed in Spring 2021 (next reporting NPDES period)</p>

## B. PUBLIC PARTICIPATION/INVOLVEMENT

### 1. BMP B.3—Stakeholder Meeting

<b>MEASURABLE GOALS</b>	<p>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</p>
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	<p>stakeholder email lists. Track the number of watershed meetings hosted or co-hosted by the County, meeting locations, topics discussed, and participation numbers.</p>
<p><b>RESULTS</b></p>	<p>During the permit year, the following stakeholder meetings were held by Kane County:</p> <ul style="list-style-type: none"> <li>• Tyler Creek Watershed Coalition meetings – [4/22/20, field mtg on BMPs, 9 attendees; 5/20/20 via Zoom; 7/15/20 via Zoom; 8/19/20 via Zoom; 9/16/20 via Zoom; 10/21/20 via Zoom; 11/18/20 via Zoom; 12/16/20 via Zoom; 1/20/21 via Zoom; 2/17/21 via Zoom]</li> <li>• Indian Creek Watershed Plan Steering Committee – meetings held virtually due to COVID-19; [4/9/20, 9/24/20, 9/30/20,12/16/20, ]</li> <li>• Stormwater Management Planning Committee – meetings for Flood Control Commission, Comprehensive Stormwater Plan, and Stormwater Management Ordinance; virtual meeting due to COVID-19 (and also at the Kane County Government Center in Geneva) [7/14/20]</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>

**2. BMP B.5—Volunteer Monitoring**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<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 via Zoom due to COVID-19 [4/30/20, 5/28/20, 6/25/20, 7/23/20, 8/27/20, 9/24/20, 10/22/20, 10/29/20, 11/19/20, 12/17/20, 1/28/21]</li> <li>• Fox River Ecosystem Partnership meetings held via Zoom due to COVID-19 [5/13/20, 7/8/20, 9/6/20, 1/13/21]</li> </ul> <p>In addition, the Kane County Department of Environmental &amp; Water Resources provided financial support of \$500 to the Friends of the Fox River for their volunteer monitoring program.</p>

	<p>A Joint Funding Agreement between Kane County and the U.S. Geological Survey was signed on 10/1/2020 and passed by Kane County Board on 10/13/2020 to cover the time period through September 30, 2021. Kane County has committed \$56,439 of FY21 funding to support five stream gages and four precipitation gages.</p>
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**3. BMP B.7—Other Public Involvement**

<b>MEASURABLE GOALS</b>	<p>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.</p>
<b>RESULTS</b>	<p>The Kane County Department of Environmental &amp; Water Resources provided \$500 in December 2020 to the Friends of the Fox River to support stream cleanups throughout the county. As normal group stream cleanups could not be done in 2020, FOFR coordinated “Alternative Spring Clean-ups” through Facebook to encourage residents to do their own personal or family unit clean ups and post their results on the FOFR Facebook page. FOFR reported this activity was very successful with numerous individuals and families in the Fox River Watershed participating. In September, FOFR coordinated their 2<sup>nd</sup> Annual “It’s Our Fox River Day” and reported that there were 4 clean-up sites in Elgin that had a total of more than 100 participants joining in to clean up the banks of the Fox River.</p>

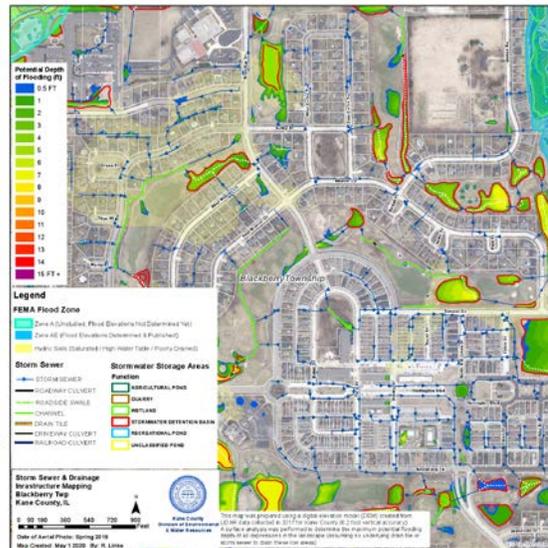
**C. ILLICIT DISCHARGE DETECTION AND ELIMINATION**

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

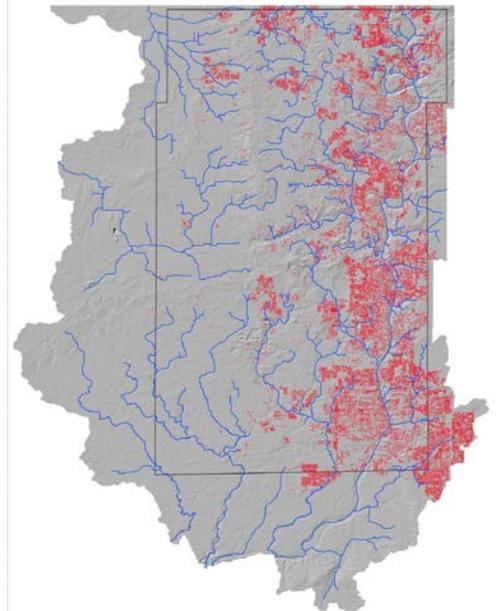
<b>MEASURABLE GOALS</b>	<p>Kane County will update its storm sewer mapping in GIS to include the location and size of all County-owned stormwater outfalls to receiving streams in the urbanized area, and will distribute up-to-date mapping and information across County departments including the Facilities, Transportation, and Emergency Management departments. Update the stormwater system map layer on an annual basis to incorporate new stormwater outfalls identified.</p>
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**RESULTS**

During the permit year, the KCDEWR made significant improvements to the County’s stormwater mapping resources. The County’s stormwater mapping resources have been expanded to serve as a countywide drainage infrastructure layer that includes storm sewer routes and detention basin locations for nearly all the municipalities within the County (both MS4 communities and rural communities in the county). The storm sewer mapping has been expanded from 313 miles of storm sewers, culverts, and drain tiles in the unincorporated areas to now include more than 2,300 miles of drainage system mapping across the entire county. The storm sewer / culvert segments mapped to date (67,000+ individual items) have been burned into the County’s Digital Elevation Model (from 2017, ft horizontal resolution) to create a hydro-enforced DEM that was then analyzed to create an accurate storm flow path network. This storm flow path network shows how stormwater moves across the county at any location down to the nearest receiving stream. This will give the county and MS4 communities a new tool to use in tracing illicit discharges and quickly mitigating them before they move farther downstream. As it is a collaborative effort with the municipalities, the data layers will be provided back to all the municipalities to help supplement their MS4 mapping resources in 2021 and beyond. The preliminary, static PDF maps showing the complete drainage system network are available to all municipal staff persons in the county at: <https://www.countyofkane.org/FDER/Pages/County-Drainage-Maps.aspx> Updates will be made to the map layers and static maps at least twice a year as new data is provided to the County. It is the goal of the County to make the maps available to the general public during the next reporting period.



Sample of Kane County's Storm Sewer Map



Map of countywide drainage infrastructure GIS layer in Feb 2021

**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. During this reporting period, the Health Department investigated 29 potential septic failure complaints. 21 of the 29 were resolved during the reporting period, with 8 septic failures still open and awaiting resolution.

**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 did not perform any staff training during this reporting period due to the COVID-19 pandemic.

**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>	During the permit year, 66 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, in addition to a digital copy the County maintains of the permits and plans for Stormwater Permit Applications.

	<p>The Kane County Department of Environmental &amp; Water Resources continued the process of revising the Stormwater Management Ordinance that began in 2017 by hosting monthly Stormwater Management Planning Committee meetings (see B.3—Stakeholder Meeting). The formal review process was completed in 2019, including review by government agencies and public hearings. The Stormwater Management Ordinance Updates were formally adopted on 6/1/19.</p>
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**E. POST-CONSTRUCTION RUNOFF CONTROL**

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

<b>MEASURABLE GOALS</b>	<p>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.</p>
<b>RESULTS</b>	<p>During the reporting period, 42 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, in addition to a digital copy the County maintains of the permits and plans for Stormwater Permit Applications.</p> <p>The Kane County Department of Environmental &amp; Water Resources continued the process of revising the Stormwater Management Ordinance that began in 2017 by hosting monthly Stormwater Management Planning Committee meetings (see B.3—Stakeholder Meeting). The formal review process was completed in 2019, including review by government agencies and public hearings. The Stormwater Management Ordinance Updates were formally adopted on 6/1/19.</p>

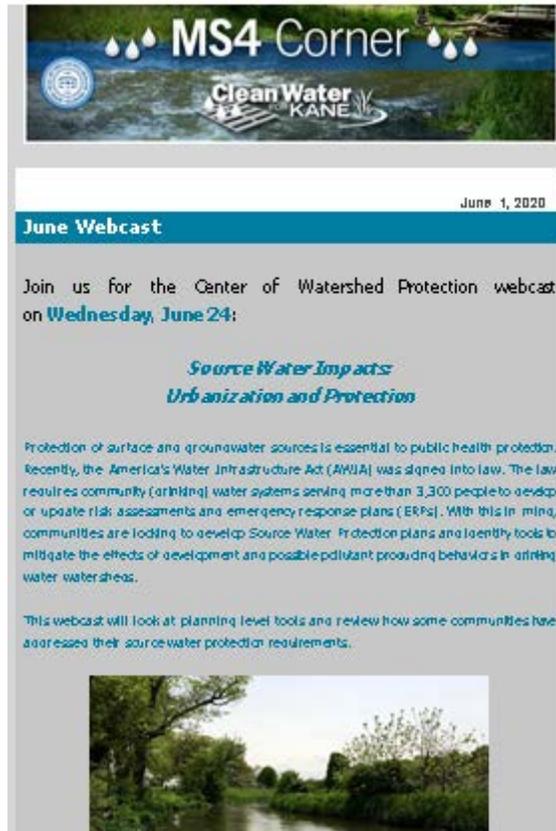
**F. POLLUTION PREVENTION/GOOD HOUSEKEEPING**

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

<b>MEASURABLE GOALS</b>	<p>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</p>
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minimum of a quarterly basis. Host stormwater informational webcasts as relevant, tracking the number of trainings provided and the number of attendees.

During the permit year, the Kane County Department of Environmental & Water Resources regularly updated the MS4 contact list. Five issues of the “MS4 Corner” newsletter were created and distributed to the contact list [Distributed on: 9/1/20, 8/3/20, 7/1/20, 6/18/20, and 6/1/20].



**RESULTS**

*Example issue of MS4 Corner*

During the permit year, Kane County hosted the following webcasts from the Center for Watershed Protection virtually:

- *Small Scale BMPs* [5/20/20; 5 attendees, including 1 Kane County staff]
- *Water Quality Issues* [8/12/20; 3 attendees, including 1 Kane County staff]
- *IDDE – New Technologies and new techniques* [9/16/20]

In addition, Kane County Environmental & Water Resources staff participated in the following training opportunities provided by other entities:

- Illinois Association of Floodplain & Stormwater Management Annual Conference in Tinley Park, IL [3/11/20-3/12/20; 3 staff attended]
- Michigan Floodplain & Stormwater Conference in Ann Arbor, Michigan [3/4/20-3/6/20; Attended by Anne Wilford]
- Association of State Floodplain Managers National Conference (held virtually)

**2. BMP F.2—Inspection and Maintenance Program**

<p><b>MEASURABLE GOALS</b></p>	<p>Kane County will continue its established Operation and Maintenance Program – which includes the Department 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>
<p><b>RESULTS</b></p>	<p>During 2020, the Kane County Department of Transportation swept approximately 90 miles of curbing and 40 bridge decks on a regular seasonal interval.</p> <p>In addition, KDOT cleaned out approximately 250 catch basins on Stearns Road and Randall Road north of Stearns Road.</p> <p>KCDEWR continues to update its BMP Inventory &amp; Evaluation spreadsheet (see section III) to track data for BMPs installed on Kane County owned properties.</p>

**3. BMP F.4—Municipal Operations Waste Disposal**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<p>The Kane County Department 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/Assessment Guidelines**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<p>The Kane County Emergency Management Department and Kane County Department 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 updated in 2015.</p> <p>During the permit year, Kane County hosted a Hazard Mitigation Committee meetings on:</p> <ul style="list-style-type: none"> <li>• October 27, 2020 – Committee’s regular October Meeting (note the April 2020 Meeting was cancelled due to COVID)</li> <li>• November 6, 12, 13, 19 – Committee meetings to work on the Updating the Plan (held virtually due to COVID-19)</li> <li>• February 5 and 10 –Public and stake holder meeting to discuss the purpose and the planning process for Updating the Plan (held virtually due to COVID-19)</li> </ul> <p>In addition, the Kane County Department of Environmental &amp; Water Resources completed 8 cost-share projects to reduce flooding on unincorporated residential properties (property list available upon request).</p>

**5. BMP F.6—Other Municipal Operations Controls**

<p><b>MEASURABLE GOALS</b></p>	<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>
<p><b>RESULTS</b></p>	<p>The Kane County Department of Transportation provides continual training on salt application and storage procedures via staff manuals, calibrates KDOT trucks to the proper salt dispensing rate, 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 Department of Environmental &amp; Water Resources also worked with The Conservation Foundation to host a winter road maintenance training at the Brewster Creek Forest Preserve in St. Charles that was open to all MS4</p>

communities in the region.

- Virtual Deicing Workshops were sponsored by Kane County and other local counties were held on-line through the Conservation Foundation on 10/1/20 and 10/14/20 with 7 registrants from Kane County.



This year the Deicing Workshops are coming to you in a webinar format on the following dates. The two Roads Webinars will have the same content.

**Oct. 1, 2020 Public Roads Deicing Workshop**

**Oct. 8, 2020 Parking Lots & Sidewalks Deicing Workshop**

**Oct. 14, 2020 Public Roads Deicing Workshop**

**All Webinars will be held from 8:00 am—12:00 pm**

Registration information is provided on the next page.

Contact Nancy Cinati 630-428-4500 X120 with questions or to register.  
Fax or email your registration to 630-428-4599 or [ncinati@theconservationfoundation.org](mailto:ncinati@theconservationfoundation.org).

Hosted by the DuPage River Salt Creek Workgroup, Lower Des Plaines Watershed Group,  
Lower DuPage River Watershed Coalition, and The Conservation Foundation

Sponsored by Kane County and others



*Kane County Parking Lots and Sidewalks Deicing Workshop flyer*

### 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 (Note: Kane County continues to participate in the Fox River Study Group, Inc., a non-profit organization who is performing on-going watershed-wide water quality monitoring and modeling to address impairments in the Fox River <https://www.foxriverstudygroup.org/> )

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 PICIP 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	250	20%		80%	0.38	95.4	68%	64.9	\$3,854
Kane county	KDOT Detention at Big Timber & Tood Farm Rd in Elgin Twp	\$25,000	Dry detention	27	90%		10%	0.90	24.3	26%	6.3	\$3,953
Kane county	KC Multi-Use Facility Detention Basin	\$430,000	Wet detention	6	75%		25%	0.79	4.7	68%	3.2	\$133,467
Kane county	Stearns Rd Det 09-0009	\$100,000	Wet detention	7.25	40%		60%	0.53	3.8	68%	2.6	\$38,274
Kane county	Stearns Rd Det 09-0010	\$250,000	Wet detention	17.8	40%		60%	0.53	9.4	68%	6.4	\$38,973
Kane county	Stearns Rd Det 09-0011	\$100,000	Dry detention	5.9	30%	30%	40%	0.53	3.1	26%	0.8	\$122,444
Kane county	Stearns Rd Det 09-0012	\$100,000	Wet detention	6.6	30%		70%	0.46	3.0	68%	2.0	\$48,887
Kane county	Stearns Rd Det 09-0013	\$150,000	Wet detention	11.4	40%		60%	0.53	6.0	68%	4.1	\$36,511
Kane county	Stearns Rd Det 09-0014	\$100,000	Wet detention	22.6	40%		60%	0.53	12.0	68%	8.1	\$12,278

An electronic copy of this inventory is available upon request. One new structural BMP was constructed on Kane County government-owned property during this reporting period (Kane County Multi-use Facility).

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

During the upcoming permit year, Kane County staff will continue work to implement the LEED for Cities and Communities monitoring and reporting platforms, which include components on water quality, ecosystem health, waste management, and resiliency. This will provide Kane County the opportunity to further articulate efforts being made to improve water quality and the connection of these efforts to other initiatives throughout the County.

**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, 2020—February 28, 2021:

**List of Kane Co DOT Transportation Projects Under Construction or Completed between Mar 2020 -Feb 2021**

<b>Section Number</b>	<b>Project Name</b>
19-00502-01-BT	Kirk Road MUP Improvement
19-00517-00-GR	2020 Guardrail Improvement Project
20-00000-03-GM	2020 Pavement Preservation Patrol
20-00000-04-GM	2020 HMA Crack Sealing Patrol
20-00000-05-GM	2020 Paint Pavement Marking Patrol
20-00000-06-GM	2020 Urethane Pavement Marking Patrol
08-00383-00-BR	Peplow ovr Trib to Virgil Ditch #3
13-00215-30-PV	Longmeadow Parkway IL Rte 25 to IL Rte 62 Section D
18-00215-22-CH	Longmeadow Parkway IL Rte 25 Section C3
18-00495-00-CH	Peck and Britcher Intersection Improvement
14-00437-00-BR	Silver Glen over Virgil Ditch #2
14-00437-00-BR	Burlington over Virgil Ditch #3
14-00441-00-CH	Randall Rd HSIP3
11-00201-04-CH	Kirk Rd and Fabyan Intersection Improvement
15-00342-00-CH	Kirk and Pine- Add Right turn lane
08-00112-00-CH	Huntley and Galligan Intersection Improvement
18-00504-00-BR	Randall over Mill Creek
14-00214-28-CH	Randall Rd at Stearns Rd Intersection Improvement
16-00115-02-BR	Silver Glen ovr Otter Creek
18-00498-00-BR	Scott/Hughes/ Granart Bridge Rehab
19-00521-00-RS	2020 Resurfacing
20-00521-01-RS	2020 Bowes Rd Resurfacing
19-00215-24-PV	LMP C2 Tree Removal
16-00176-03-BR	Randall Over Tyler Creek Repairs
14-00446-00-CH	Randall at Weld Intersection Improvement
16-00477-00-SP	Kirk Rd-56 to Cherry HSIP
17-00479-00-BR	Fabyan Bridge over Fox River Rehab
13-00215-20-BR	Longmeadow Parkway- IL Rte 31 to Sandbloom Rd- Section C-1
18-00497-00-CH	Burlington at Bolcum Intersection Improvement