



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, 2022 To March, 2023

Permit No. ILR40 0498

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

Name: Village of Huntley Mailing Address 1: 11000 Bakley Street
Mailing Address 2: _____ County: Kane
City: Huntley State: IL Zip: 60142 Telephone: 847-515-5222
Contact Person: Timothy Farrell Email Address: tfarrell@huntley.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)

Hampshire and Rutland Townships Kane County
Grafton Township McHenry 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))

Timothy Farrell
Owner Signature:

Timothy Farrell

Printed Name:

MAY 23, 2023

Date:

Director, Public Works & Engineering

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

MS4 Annual Facility Inspection Report

**Illinois Environmental Protection Agency
National Pollutant Discharge Elimination System Phase II**

Permit Year 20: March 2022 to March 2023

Village of Huntley

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Part A. Changes to Best Management Practices

Note: X indicates BMPs performed that were proposed in your NPDES permit
✓ indicates changes to BMPs proposed in your NPDES permit

Year 17	Year 18	Year 19	Year 20	Year 21	
MS4					
A. Public Education and Outreach					
X	X	X	X	X	A.1 Distributed Paper Material
					A.2 Speaking Engagement
					A.3 Public Service Announcement
X	X	X	X	X	A.4 Community Event
					A.5 Classroom Education Material
X	X	X	X	X	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
X	X	X	X	X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination					
X	X	X	X	X	C.1 Storm Sewer Map Preparation
X	X	X	X	X	C.2 Regulatory Control Program
					C.3 Detection/Elimination Prioritization Plan
X	X	X	X	X	C.4 Illicit Discharge Tracing Procedures
X	X	X	X	X	C.5 Illicit Source Removal Procedures
X	X	X	X	X	C.6 Program Evaluation and Assessment
X	X	X	X	X	C.7 Visual Dry Weather Screening
					C.8 Pollutant Field Testing
					C.9 Public Notification
X	X	X	X	X	C.10 Other Illicit Discharge Controls

Year 17	Year 18	Year 19	Year 20	Year 21	
MS4					
D. Construction Site Runoff Control					
X	X	X	X	X	D.1 Regulatory Control Program
X	X	X	X	X	D.2 Erosion and Sediment Control BMPs
X	X	X	X	X	D.3 Other Waste Control Program
X	X	X	X	X	D.4 Site Plan Review Procedures
					D.5 Public Information Handling Procedures
X	X	X	X	X	D.6 Site Inspection/Enforcement Procedures
					D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control					
					E.1 Community Control Strategy
X	X	X	X	X	E.2 Regulatory Control Program
X	X	X	X	X	E.3 Long Term O&M Procedures
X	X	X	X	X	E.4 Pre-Const Review of BMP Designs
X	X	X	X	X	E.5 Site Inspections During Construction
X	X	X	X	X	E.6 Post-Construction Inspections
					E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping					
X	X	X	X	X	F.1 Employee Training Program
X	X	X	X	X	F.2 Inspection and Maintenance Program
X	X	X	X	X	F.3 Municipal Operations Storm Water Control
					F.4 Municipal Operations Waste Disposal
					F.5 Flood Management/Assess Guidelines
					F.6 Other Municipal Operations Controls

There are no changes to the BMPs proposed in the most recent NOI submitted in 2021. The Village has and will continue to perform these activities throughout the permit period.

1. Public Education and Outreach

No changes to selected BMPs.

2. Public Participation/Involvement

No changes to selected BMPs.

3. Illicit Discharge Detection and Elimination

No changes to selected BMPs.

4. Construction Site Runoff Control

No changes to selected BMPs.

5. Post-Construction Runoff Control

No changes to selected BMPs.

6. Pollution Prevention/Good Housekeeping

No changes to selected BMPs.

Part B. Status of Compliance with Permit Conditions

The status of BMPs and measurable goals performed in Year 20 is described below.

1. Public Education and Outreach

The Village is committing to conduct Public Education and Outreach as part of its permit. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to stormwater runoff. The Village commits to implementation of BMPs related to A.1, A.3 and A.6 as described below.

A.1 Distributed Paper Material

The Village will publish stormwater pollution prevention articles in “The Village Journal”.

Measurable Goals: *The Village will annually publish stormwater pollution prevention articles in “The Village Journal.”*

The Village continues to publish stormwater pollution prevention articles.

A.3 Public Service Announcement

The Village will include a storm water and/or ambient water quality related article once a year in the Village’s newsletter.

Measurable Goals: *The Village will include a storm water and/or ambient water quality related article in the Village newsletter each year.*

The Village continues to distribute stormwater articles in the Village newsletter.

A.6 Other Public Education

The Village has created website links on the Public Works website to information on protecting water quality from urban runoff.

Measurable Goals: *The Village will continue to monitor website links and update as new information becomes available.*

The website links, “A Citizen’s Guide for Stormwater Runoff and Pollution Prevention” and Stormwater Pollution Prevention Tips” provide residents and businesses with information for preventing pollution and using water resources appropriately.

2. Public Participation/Involvement

The Village committed to performing activities and services related to the Public Participation/Involvement minimum control measure BMP under numbers B.2, B.3, B.4, B.6 and B.7. The status or progress for each of the measurable goals related to these BMPs is presented below.

B.2 Educational Volunteer, B.6 Program Coordination

The Village has coordinated with and directly supported volunteer activities throughout the Village. These activities have included stream monitoring, clean-up of ditches, trash pickup and supplying of material and services to groups such as the Huntley Jaycees, the Sierra Club, the Water Sentinels, etc. These activities directly reduce the amount of pollutants reaching receiving waters and provide valuable data for enhancement programs.

Measurable Goals: *The Village will coordinate with the groups on future enhancement projects and activities.*

The Village will continue with the clean up activities and work to increase participation.

B.3 Stakeholder Meeting

The Village participates and coordinates with watershed planning groups associated with the Eakin Creek and/or the South Branch of the Kishwaukee River watersheds.

Measurable Goals: *The goal of participation in a watershed group is to identify best management practices that are most appropriate and cost effective for the region to be used by municipalities and includes an element for chloride reduction.*

The Village will continue to participate in the stakeholder meetings.

B.4 Public Hearing

The Village holds public meetings to discuss topics including steps the public can take to reduce pollutants to stormwater runoff or the impacts of stormwater runoff on local water bodies.

Measurable Goals: *The goal is to increase public education and involvement regarding the Village's stormwater management and NDPES program and their knowledge on ways they can help.*

The Village will continue to hold a public meeting at least once a year.

B.6 Program Involvement

The Village coordinates with local groups to perform clean up activities. These activities directly reduce the amount of pollutants entering the Village's storm sewer system.

Measurable Goals: *This activity has the goal of encouraging active public participation in ambient water quality programs and increasing the visibility of water quality issues.*

The Village will continue with the clean up activities and work to increase participation.

B.7 Other Public Involvement

The Public Works Department provides contact information on the Village website to allow residents to report stormwater or water quality related issues. The Village also has advised Home Owner Associations (HOAs) and Community Association Management (CAM) regarding maintenance of streams after stream restoration projects are completed.

Measurable Goals: *The goal of this program is to provide active citizen participation in detection of illicit discharges to the storm sewer system and problems with drainage features. This program will also aid the Public Works Department in the detection of illicit discharges and inspection of drainage features.*

The Village will continue to provide the appropriate contact information to report illicit discharges or other stormwater issues and work with groups to reduce pollution.

3. Illicit Discharge Detection and Elimination

The Village committed to performing some activities related to the Illicit Discharge Detection and Elimination minimum control. BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.4, C.5, C.6, C.7 and C.10 as described below.

C.1 Storm Sewer Map Preparation

The Village has a complete storm sewer map and regularly updated its map based on development or other changes as needed..

Measurable Goals: *The Village will complete a biennial review of the storm sewer map and update as needed.*

The Public Works Department will continue to update the map as needed.

C.2 Regulatory Control Program

The Village has adopted an Illicit Discharge Detection and Elimination Ordinance in accordance with the Kane County Countywide Stormwater Management Ordinance (KCSMO).

Measurable Goals: *The goal of this program is to eliminate any non-storm water discharges to the storm sewer system.*

The Village will continue to enforce the regulatory control measures to prohibit or eliminate non-stormwater discharges.

C.3 Detection/Elimination Plan

The Village has procedures for handling and prioritizing the report of a possible illicit discharge to storm sewer systems.

Measurable Goals: *The goal of this program is to develop a procedure for receiving, tracking, investigating and eliminating illicit discharges to the storm sewer system.*

The Village will continue the illicit discharge procedures.

C.4 Illicit Discharge Tracing Procedures and C.5 Illicit Source Removal Procedures

The Village has developed illicit discharge tracing and elimination procedures. The Village also currently documents activities related to illicit discharges with service request forms, activity logs, etc.

Measurable Goals: *The Village will annually trace and remove all illicit discharges detected by resident reporting, dry weather screening, or regular storm sewer maintenance. The Village will continue to utilize the documentation procedures in place and modify as needed to meet the NPDES compliance standards.*

The Village will continue the illicit discharge procedures.

C.6 Program Evaluation and Assessment

The Village has performed yearly program compliance monitoring and evaluation to determine the effectiveness of the overall program and the BMPs selected.

Measurable Goals: *The goal of this activity to assess the Village's NPDES program for compliance and effectiveness as well as ensure compliance with applicable TMDLs and Watershed Management Plans.*

The Village will continue to perform the annual evaluation and assessment.

C.7 Visual Dry Weather Screening

The Village will perform inspections of all MS4 outfalls during dry weather conditions or as determined by the inspection prioritization plan.

Measurable Goals: *The goal of this activity is to identify outfalls with potential illicit discharges.*

The Village will continue to perform annual inspections.

C.10 Other Illicit Discharge Controls

The Village performs annual monitoring of the receiving waters upstream and downstream of all MS4 discharge points. The Village monitors the progress of watershed work groups and the establishment of any applicable TMDLs or other Watershed Management Plans. The Village current monitoring program plan is to evaluate the effectiveness of the program's BMPs for the removal of pollutants.

Measurable Goals: *The goal of this activity is to monitor receiving streams for potential changes due to the discharge of stormwater and ensure compliance with applicable TMDLs and Watershed Management Plans to reduce waste loads.*

The Village will formally develop the monitoring program including BMP evaluation methodology to determine the effectiveness of the removal of pollutants.

4. Construction Site Runoff Control

Kane County has adopted a Countywide Stormwater Management Ordinance (KCSMO) that establishes the minimum stormwater management requirements for developments in Kane County. The Ordinance establishes standards for construction site runoff control. As a certified community, the Village will continue to enforce the Kane County Ordinance throughout the Village.

D.1 Regulatory Control Program

The Village will enforce the Kane County Stormwater Management Ordinance.

Measurable Goals: *The Village will continue to enforce the Ordinance.*

D.2 Erosion and Sediment Control BMPs

The Village requires erosion and sediment control BMPs.

Measurable Goals: *The Village will continue to require sediment and erosion control BMPs.*

D.4 Site Plan Review Procedures

The Village reviews site plans for conformance with the Kane County Ordinance.

Measurable Goals: *The Village will continue to review site plans for conformance to the Ordinance.*

D.5 Other Waste Control Program

The Village has procedures in place for addressing reports from residents related to construction site runoff.

Measurable Goals: *The Village will continue to address the reporting of problems related to construction site runoff.*

D.6 Site Inspection/Enforcement Procedures

The Village has inspected construction sites and enforced the Kane County Ordinance.

Measurable Goals: *The Village will continue to inspect construction sites and enforce the Kane County Ordinance.*

5. Post-Construction Runoff Control

As described above, the Kane County Countywide Stormwater Management Ordinance (KCSMO) establishes the minimum stormwater management requirements for developments in Kane County. The KCSMO establishes standards for post-construction site runoff control. The Village will continue to enforce the KCSMO.

E.2 Regulatory Control Program

The Village will enforce the KCSMO.

Measurable Goals: The Village will continue to enforce the KCSMO.

E.3 Long Term O&M Procedures

The Village has enforced the KCSMO which requires long term O&M procedures.

Measurable Goals: The Village will continue to enforce the KCSMO.

E.4 Pre-Construction Review of BMP Designs

The Village reviews BMP designs prior to construction.

Measurable Goals: The Village will review BMP designs prior to construction.

E.5 Site Inspections During Construction

The Village has inspected sites during construction.

Measurable Goals: The Village will continue to inspect sites during construction.

E.6 Post-Construction Inspections

The Village has inspected sites after construction.

Measurable Goals: The Village will continue to inspect sites after construction.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The Village will perform BMPs under BMP numbers F.1, F.2 and F.3 as described below.

F.1 Employee Training Program

The Village will continue provide the training and other presentations that provide guidance and procedures for employees to reduce or eliminate the discharge of pollutants from Village owned facilities and activities to the storm sewer system.

Measurable Goals: The Village will continue to educate Public Works employees of current practices that contribute to storm water pollution and/or to develop new procedures and make revisions to existing procedures that will curtail the discharge of pollutants to storm sewer systems by Public Works employees, annually.

The Village will continue the pollution prevention and good housekeeping program to reduce or prevent the discharge of pollutants from municipal activities to the storm sewer system.

F.2 Inspection and Maintenance Program

The Village has procedures and inspection forms for the routine inspections of ponds, stream channels and storm sewer outfalls. The Village typically completes the inspection cycle once every three years or as funding allows.

Measurable Goals: The Village will continue the inspection and maintenance program to identify and repair any stormwater issues with the municipal separate storm sewer system and provide information about individual BMP performance.

The Village will continue with the inspection and maintenance program.

F.3 Municipal Operations Stormwater Control, F.4 Municipal Operations Waste Control and F.6 Other Municipal Operations Control

The Village has a formalized program to prevent stormwater pollution from municipal operations at the Public Works facility. This program encompasses a wide array of activities such as fleet maintenance, salt storage, and recycling. The Village also has procedures and policies to require the appropriate of municipal generated wastes. Lastly the Village performs a variety of activities that reduce or prevent pollutants including pesticides, herbicides, fertilizers and trash from entering the storm sewer system and to minimize exposure. These activities are part of the Villages municipal operations controls and include proper storage and handling, certification, spill and leak prevention, and response procedures, street sweeping and waste recycling.

Measurable Goals: The Village will implement the formal program and evaluate the effectiveness of the program annually and update the program as needed.

The Village will continue the municipal operations control program.

F.5 Flood Management/Assessment Guidelines

The Village has adopted the Kane County Ordinance that specifically addresses the Federal Emergency Management Agency requirements regarding flood-prone areas.

Measurable Goals: The Village will continue to enforce the ordinance regarding potential uses of the special flood hazard area to limit potential for the discharge of contaminants to the storm sewer system.

The Village will continue the special flood hazard area development and use requirements.

Part C. Information and Data Collection Results

The Village program for evaluating BMP's efficiency removal and overall effectiveness as it relates to the Village's pollutant goals will be updated and revised as needed based on permit conditions and requirements.

Part D. Summary of Year 21 Stormwater Activities

The following table summarizes the BMPs committed to for Year 21. Specific BMPs and measurable goals for Year 21 Stormwater Management Program development activities are presented in the sections following the table.

Note: X indicates BMPs committed to for Year 21.

Year 21	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
	B.1 Public Panel
X	B.2 Educational Volunteer
	B.3 Stakeholder Meeting
	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Coordination
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 21	
MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

1. Public Education and Outreach

The Village is committing to conduct Public Education and Outreach as part of its permit. Public Education and Outreach requires implementation of a program to distribute educational material to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to stormwater runoff. The Village commits to implementation of BMPs related to A.1, A.3, and A.6 as described below.

A.1 Distributed Paper Material

The Village will publish stormwater pollution prevention articles in “The Village Journal”.

Measurable Goals: The Village will annually publish stormwater pollution prevention articles in “The Village Journal.”

The Village continues to publish stormwater pollution prevention articles.

A.3 Public Service Announcement

The Village will include a storm water and/or ambient water quality related article once a year in the Village’s newsletter.

Measurable Goals: The Village will include a storm water and/or ambient water quality related article in the Village newsletter each year.

The Village continues to distribute stormwater articles in the Village newsletter.

A.6 Other Public Education

The Village has created website links on the Public Works website to information on protecting water quality from urban runoff.

Measurable Goals: The Village will continue to monitor website links and update as new information becomes available.

The website links, “A Citizen’s Guide for Stormwater Runoff and Pollution Prevention” and Stormwater Pollution Prevention Tips” provide residents and businesses with information for preventing pollution and using water resources appropriately.

2. Public Participation/Involvement

The Village will perform activities and services related to the Public Participation/Involvement minimum control measure. BMPs will be implemented under BMP number B.2, B.5, B.6, and B.7 as described below.

B.2 Educational Volunteer, B.6 Program Coordination

The Village has coordinated with and directly supported volunteer activities throughout the Village. These activities have included stream monitoring, clean-up of ditches, trash pickup and supplying of material and services to groups such as the Huntley Jaycees, the Sierra Club, the Water Sentinels, etc. These activities directly reduce the amount of pollutants reaching receiving waters and provide valuable data for enhancement programs.

Measurable Goals: The Village will coordinate with the groups on future enhancement projects and activities.

The Village will continue with the clean up activities and work to increase participation.

B.3 Stakeholder Meeting

The Village participates and coordinates with watershed planning groups associated with the Eakin Creek and/or the South Branch of the Kishwaukee River watersheds.

Measurable Goals: *The goal of participation in a watershed group is to identify best management practices that are most appropriate and cost effective for the region to be used by municipalities and includes an element for chloride reduction.*

The Village will continue to participate in the stakeholder meetings.

B.4 Public Hearing

The Village holds public meetings to discuss topics including steps the public can take to reduce pollutants to stormwater runoff or the impacts of stormwater runoff on local water bodies.

Measurable Goals: *The goal is to increase public education and involvement regarding the Village's stormwater management and NDPEs program and their knowledge on ways they can help.*

The Village will continue to hold a public meeting at least once a year.

B.6 Program Involvement

The Village coordinates with local groups to perform clean up activities. These activities directly reduce the amount of pollutants entering the Village's storm sewer system.

Measurable Goals: *This activity has the goal of encouraging active public participation in ambient water quality programs and increasing the visibility of water quality issues.*

The Village will continue with the clean up activities and work to increase participation.

B.7 Other Public Involvement

The Public Works Department provides contact information on the Village website to allow residents to report stormwater or water quality related issues. The Village also has advised Home Owner Associations (HOAs) and Community Association Management (CAM) regarding maintenance of streams after stream restoration projects are completed.

Measurable Goals: *The goal of this program is to provide active citizen participation in detection of illicit discharges to the storm sewer system and problems with drainage features. This program will also aid the Public Works Department in the detection of illicit discharges and inspection of drainage features.*

The Village will continue to provide the appropriate contact information to report illicit discharges or other stormwater issues and work with groups to reduce pollution.

3. Illicit Discharge Detection and Elimination

The Village commits to performing some activities related to the Illicit Discharge Detection and Elimination minimum control. BMPs will be implemented under BMP numbers C.1, C.2, C.4, C.5, C.7 and C.10 as described below.

C.1 Storm Sewer Map Preparation

The Village regularly updated its storm sewer map.

Measurable Goals: *The Village will complete a biennial review of the storm sewer map and update as needed.*

The Village continues to review and update the storm sewer map as needed.

C.2 Regulatory Control Program

The Village has adopted an Illicit Discharge Detection and Elimination Ordinance.

Measurable Goals: The Village will enforce the Illicit Discharge Detection and Elimination Ordinance

The Village continues to enforce the Ordinance.

C.4 Illicit Discharge Tracing Procedures and C.5 Illicit Source Removal Procedures

The Village has developed illicit discharge tracing and elimination procedures.

Measurable Goals: The Village will annually trace and remove all illicit discharges detected by resident reporting, dry weather screening, or regular storm sewer maintenance.

The Village continues to trace and remove illicit discharges.

C.7 Visual Dry Weather Screening

The Village has screened storm sewer structures as part of its regular storm sewer maintenance.

Measurable Goals: The Village will annually screen all outfalls within the Village limits. The Village will annually screen 20% of storm sewer structures including manholes, catch basins and inlets.

The Village continues annually screen the outfalls and storm sewer structures in the Village. Due to budget constraints, the number of outfalls and other structures inspected is approximately 50-100 per year. This process will continue until all structures and outfalls are screened and the process will repeat.

C.10 Other Illicit Discharge Controls

The Village performs annual monitoring of the receiving waters upstream and downstream of all MS4 discharge points. The Village monitors the progress of watershed work groups and the establishment of any applicable TMDLs or other Watershed Management Plans. The Village current monitoring program plan is to evaluate the effectiveness of the program's BMPs for the removal of pollutants.

Measurable Goals: The goal of this activity is to monitor receiving streams for potential changes due to the discharge of stormwater and ensure compliance with applicable TMDLs and Watershed Management Plans to reduce waste loads.

The Village will formally develop the monitoring program including BMP evaluation methodology to determine the effectiveness of the removal of pollutants.

4. Construction Site Runoff Control

Kane County has adopted a Countywide Stormwater Management Ordinance (KCO) that establishes the minimum stormwater management requirements for developments in Kane County. The Ordinance establishes standards for construction site runoff control. The Village will continue to enforce the Kane County Ordinance.

D.1 Regulatory Control Program

The Village will enforce the Kane County Stormwater Management Ordinance.

Measurable Goals: The Village will continue to enforce the Ordinance.

The Village continues to enforce the Ordinance.

D.2 Erosion and Sediment Control BMPs

The Village requires erosion and sediment control BMPs.

Measurable Goals: *The Village will continue to require sediment and erosion control BMPs.*

The Village continues to require the erosion and sediment control BMPs.

D.3 Other Waste Control Program

The Village Building Department enforces an ordinance that requires construction site operators to control wastes that may adversely impact water quality.

Measurable Goals: *The Village will continue to require construction site operators to control wastes.*

The Village continues to require construction site operators to control wastes.

D.4 Site Plan Review Procedures

The Village reviews site plans for conformance with the Kane County Ordinance.

Measurable Goals: *The Village will continue to review site plans for conformance to the Ordinance.*

The Village continues to review site plans for conformance with the Kane County Ordinance.

D.6 Site Inspection/Enforcement Procedures

The Village has inspected construction sites and enforced the Kane County Ordinance.

Measurable Goals: *The Village will continue to inspect construction sites and enforce the Kane County Ordinance.*

The Village continues to inspect construction sites and enforce the Kane County Ordinance.

5. Post-Construction Runoff Control

As described above, the Kane County Countywide Stormwater Management Ordinance (KCSMO) establishes the minimum stormwater management requirements for developments in Kane County. The KCSMO establishes standards for post-construction site runoff control. The Village will continue to enforce the KCSMO.

E.2 Regulatory Control Program

The Village will enforce the KCSMO.

Measurable Goals: *The Village will continue to enforce the KCSMO.*

The Village continues to enforce the KCSMO.

E.3 Long Term O&M Procedures

The Village has enforced the KCSMO which requires long term O&M procedures.

Measurable Goals: *The Village will continue to enforce the KCSMO.*

The Village continues to enforce the KCSMO.

E.4 Pre-Construction Review of BMP Designs

The Village reviews BMP designs prior to construction.

Measurable Goals: *The Village will review BMP designs prior to construction.*

The Village continues to review BMP designs prior to construction.

E.5 Site Inspections During Construction

The Village has inspected sites during construction.

Measurable Goals: *The Village will continue to inspect sites during construction.*

The Village continues to inspect sites during construction.

E.6 Post-Construction Inspections

The Village has inspected sites after construction.

Measurable Goals: *The Village will continue to inspect sites after construction.*

The Village continues to inspect sites after construction.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations. This program must include a training program for municipal employees. The Village will perform BMPs under BMP numbers F.1, F.2 and F.3 as described below.

F.1 Employee Training Program

The Village will continue provide the training and other presentations that provide guidance and procedures for employees to reduce or eliminate the discharge of pollutants from Village owned facilities and activities to the storm sewer system.

Measurable Goals: *The Village will continue to educate Public Works employees of current practices that contribute to storm water pollution and/or to develop new procedures and make revisions to existing procedures that will curtail the discharge of pollutants to storm sewer systems by Public Works employees, annually.*

The Village will continue the pollution prevention and good housekeeping program to reduce or prevent the discharge of pollutants from municipal activities to the storm sewer system.

F.2 Inspection and Maintenance Program

The Village has procedures and inspection forms for the routine inspections of ponds, stream channels and storm sewer outfalls. The Village typically completes the inspection cycle once every three years or as funding allows.

Measurable Goals: *The Village will continue the inspection and maintenance program to identify and repair any stormwater issues with the municipal separate storm sewer system and provide information about individual BMP performance.*

The Village will continue with the inspection and maintenance program.

F.3 Municipal Operations Stormwater Control, F.4 Municipal Operations Waste Control and F.6 Other Municipal Operations Control

The Village has a formalized program to prevent stormwater pollution from municipal operations at the Public Works facility. This program encompasses a wide array of activities such as fleet maintenance, salt storage, and recycling. The Village also has procedures and policies to require the appropriate of municipal generated wastes. Lastly the Village performs a variety of activities that reduce or prevent pollutants including pesticides, herbicides, fertilizers and trash from entering the storm sewer system and to minimize exposure. These

activities are part of the Villages municipal operations controls and include proper storage and handling, certification, spill and leak prevention, and response procedures, street sweeping and waste recycling.

Measurable Goals: *The Village will implement the formal program and evaluate the effectiveness of the program annually and update the program as needed.*

The Village will continue the municipal operations control program.

F.5 Flood Management/Assessment Guidelines

The Village has adopted the Kane County Ordinance that specifically addresses the Federal Emergency Management Agency requirements regarding flood-prone areas.

Measurable Goals: *The Village will continue to enforce the ordinance regarding potential uses of the special flood hazard area to limit potential for the discharge of contaminants to the storm sewer system.*

The Village will continue the special flood hazard area development and use requirements.

Part E. Notice of Qualifying Local Program

The Counties of Kane and McHenry serve as a Qualifying Local Programs (QLP) for the Village of Huntley. Part E of the Annual Report details the activities performed by the Qualifying Local Programs and is outlined in the attached Annual Report(s).

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)

March 1, 2022 - February 28, 2023

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 28, 2021.

II. STATUS OF COMPLIANCE WITH PERMIT CONDITIONS

Kane County submitted a Notice of Intent on May 28, 2021, 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 2021 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

MEASURABLE GOALS	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.
RESULTS	<p>The “Clean Water for Kane” section was included in the <i>Kane County Recycles Green Guide</i> for 2022, which was distributed to 27,400 residents countywide via 20,000 print copies, 5,540 emailed copies and 1,874 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 2022, which was distributed to 27,400 residents countywide via printed and electronic copies. Printed copies of the Green Guide were distributed at community events and events held virtually throughout the year.</p>

USE LESS. USE WISELY.

ENERGY & SUSTAINABILITY

- Use **ENERGY STAR** rated appliances to conserve energy.
- **Stop idling** your vehicle: Idling wastes fuel and money, and contributes to air pollution. If schools are interested in getting "Please Don't Idle" signs for your drop-off and pick up areas, please reach out to the resource management coordinator at the contacts below.
- Look into your energy provider's **energy efficiency programs and opportunities** to use renewable energy.
- Check out <https://www.countyofkane.org/sustainability/Pages/solar.aspx> for updates on local **residential solar opportunities**.
- **Bike, walk or use public transportation** when possible.
- **Move toward reusables and avoid single-use plastics.**
- **Utilize organics** by composting food and lawn scraps.
- **Purchase consciously:** think about the lifecycle of each purchase you make.



WATER

- **Use WaterSense:** Help conserve our drinking water by using WaterSense rated fixtures to reduce water use in your 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 can harm our rivers and streams. Shovel first, then apply salt sparingly, one cup is enough for your entire driveway.
- **Protect:** Only rain down the storm drain. Keep household chemicals, cleaners and lawn chemicals (pesticides, herbicides and fertilizers) from being dumped into or washed down storm drains.



Contact: Resource Management Coordinator, at Kleelyv@co.kane.il.us or **630-208-8665**.

For more sustainability information, please visit www.countyofkane.org/sustainability.

RECYCLING PLASTIC BAGS AND PLASTIC FILM

Please do not place plastic bags or film in your household recycling! They are recyclable but only at grocery store drop-boxes. Check your local store for their drop-box and to verify acceptable materials. Please visit www.plasticfilmrecycling.org for more information.

ACCEPTED MATERIALS:

- All clean, clear bread bags labeled with a #2 or #4
- Bubble wrap (clean and free of tape)
- Grocery bags
- Plastic dry cleaning bags
- Plastic newspaper bags
- Plastic mailers (with the "how2recycle" label)
- Paper towel and toilet paper plastic wrap
- Retail bags (hard plastic and string handles removed)
- Zip-lock bags (clean, dry, empty bags only & cut the zip strip off and throw it in the trash)



DO NOT RECYCLE:

The following are considered contaminants and could jeopardize recycling programs:

- NO receipts, deli stickers, or cling wrap
- NO frozen food bags
- NO film that has been painted or has excessive glue
- NO bio-based or compostable plastic bags
- NO random plastic that is not specifically listed on the Accepted Materials list



COMPOST BINS & RAIN BARRELS

Will be available at Kane County's Spring Sale! More details in early 2022 at countyofkane.org on the Division of Environmental and Water Resources webpage.

Questions? Call 630-208-8665

This Guide is printed on 100% post-consumer recycled content paper.

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*Clean Water for Kane section of the
Kane County Recycles Green Guide for 2022-2023*

2. BMP A.2—Speaking Engagement

MEASURABLE GOALS	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.
RESULTS	<p>The presentations listed below were given by Kane County staff during the permit year of March 1, 2022 — February 28, 2023:</p> <ul style="list-style-type: none">• Presentation to Illinois Association of Floodplain and Stormwater Managers on Countywide Stormwater Infrastructure Mapping (03/9/2022; 80+ attendees; presentation PDF published on-line)• Presentation to Fox River Ecosystem Partnership – “Countywide Stormwater Infrastructure Mapping” (6/8/22; 15 attendees; presentation PDF published on-line)• Presentation at Kane County Emergency Managers Meeting held at Kane County Auditorium (12/6/22; 10 attendees)• Presentation at Kane County Emergency Managers Meeting held at K.C. Office of Emergency Management (2/21/23; 30+ attendees)• A Virtual Open House was held for Kane County residents and professionals in Partnership with the Conservation Foundation. Speakers included staff from IDNR, FEMA, the Conservation Foundation and Kane County Environmental and Water Resources Department Staff. Presentations including Flooding Information, NFIP, Permitting, Stormwater Maintenance and Improvement for residents, subdivisions and commercial sites and Wetland Education; <i>via Zoom (9/26/22-10/1/22; 40 attendees; video published on-line)</i>•

3. BMP A.3—Public Service Announcement

MEASURABLE GOALS	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.
RESULTS	During the permit year, the PSA was posted on the Kane County website at: http://www.countyofkane.org/Pages/commDisp.aspx?focusID=145 . No special showings of the PSA were organized by Kane County due to a lack of funding.

	 <p>PSA on Kane County website</p>
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4. BMP A.4—Community Event

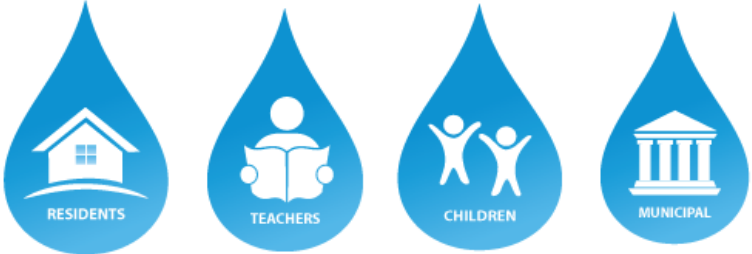
MEASURABLE GOALS	<p>Educate residents and other stakeholder groups on stormwater Best Management Practices through participation in environmental and watershed special events in the community, and regular community education/training events including the annual well and septic seminar hosted by the Kane 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>
RESULTS	<p>Kane County staff participated in the community events listed below during the permit year of March 1, 2022- February 29, 2023. 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, 2022 – February 29, 2023. Some community events were shifted online to “virtual events” due to the COVID-19 pandemic. 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>

	<ul style="list-style-type: none"> • One Earth Film Festival [3/12/2022, 419+ registrants] • Kane County Rain Barrel Sale Webinar [4/12/2022, 15 attendees] • Floodplain awareness week [9/26/22-10/1/22, 40 attendees] • Elgin and Geneva Earth Day events [4/22/22, 125 attendees combined] <p>The Kane County Health Department did not host its annual Well & Septic educational events for the public due to the COVID-19 pandemic.</p>
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5. BMP A.5—Classroom Education Material

MEASURABLE GOALS	<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>
RESULTS	<p>During the permit year, the Kane County Department of Environmental & Water Resources updated the youth educational resource list available on the County website at: www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation/children.aspx.</p> <p>Additionally, the Department 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 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: https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/children.aspx as well as the teacher educational resource list available on the county website: https://www.countyofkane.org/FDER/Pages/environmentalResources/waterResources/teachers.aspx</p> <p>Additionally, Kane County Department of Environmental and Water Resources allocated \$500 of FY22 funding to Friends of the Fox River (FOFR) for their Classroom Educational Programming and pledges funding for FY23.</p> <p>For all of Kane County, Friends of the Fox River organized student education through field trips, campus lessons, virtual programs and public events with different schools and student groups having an overall reach during the reporting year of 820 students.</p>

6. BMP A.6 – Other Public Education

<p>MEASURABLE GOALS</p>	<p>The Kane County Department 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.</p>
<p>RESULTS</p>	<p>During the permit year, the Kane County Department of Environmental & Water Resources updated the “Stormwater Education” pages on the County website.</p> <p style="text-align: center;">Stormwater Education</p> <hr style="width: 50%; margin: auto;"/> <div style="text-align: center;">  <p>RESIDENTS TEACHERS CHILDREN MUNICIPAL</p> </div> <p style="text-align: center;">Stormwater Education page of the Kane County website: www.countyofkane.org/FDER/Pages/EnvironmentalResources/stormwaterEducation.aspx</p> <p>In addition, six water-related articles were published in <i>Kane County Connects</i>:</p> <ul style="list-style-type: none"> • 2022 Kane County Virtual Floodplain Awareness Open House [9/21/22] https://kanecountyconnects.com/article/Flood-KaneCounty-Events • Kane County Commits Federal Recovery Dollars to Study Water Quality and Supply [6/22/22] https://kanecountyconnects.com/article/Water-KaneCounty-Resources-Supply • There are Underwater Invaders in Kane County Local Streams and Rivers [7/11/22] https://kanecountyconnects.com/article/Crayfish-FoxRiver-Volunteer • Well Water Testing Kits Available For Purchase October 17-28 [9/27/22] https://kanecountyconnects.com/article/water-well-testing-kits • “Salt Smart and You”/ A Traveling Exhibit Now in Elgin [1/24/2023] https://kanecountyconnects.com/article/GailBordenLibrary-KaneCountyGovernment-WaterResources-Elgin • Floodplain Training Opportunity in Kane County [2/13/23] https://kanecountyconnects.com/article/KaneCountyGovernment-

	Floodplain-DivisionofEnviromentalWaterResources <i>Kane County Connects</i> reaches 23,000 newsletter subscribers and over 560 followers on social media.
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7. BMP A.6 – Other Public Education

MEASURABLE GOALS	The Kane County Department of Environmental & 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.
RESULTS	During the permit year, Kane County provided no additional stream signs to communities. In Unincorporated Kane County, Jelkes Creek Watershed Group installed 8 total stream signs that were provided by Kane County during the 2020-2021 permit year, along new roadways.

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.
RESULTS	<p>During the permit year, the following stakeholder meetings were held/attended by Kane County:</p> <ul style="list-style-type: none"> Tyler Creek Watershed Coalition meetings – [3/16/22 via Zoom, 4/20/22 via Zoom; 6/15/22, via Zoom; 7/20/22 via Zoom; 9/21/22 via Zoom, 10/19/22 via Zoom, 11/16/22 via Zoom; 12/12/21 via Zoom; 01/18/23 via Zoom]

2. BMP B.5—Volunteer Monitoring

MEASURABLE GOALS	<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>
RESULTS	<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">• Fox River Study Group meetings held via Zoom [3/24/22, 4/28/22; 5/26/22, 6/23/22, 7/28/22, 8/25/22, 9/22/22, 10/20/22, 11/2/22 (Annual Meeting), 11/17/22, 12/15/22, 1/26/23, 2/23/23]• Fox River Ecosystem Partnership meetings [5/11/22, 6/8/22, 9/14/22, 10/12/22, 11/9/22, 1/11/23, 2/8/23] <p>In addition, the Kane County Department of Environmental & Water Resources provided financial support of \$500 to the Friends of the Fox River for their volunteer monitoring program in November 2022. Friends of the Fox River organized monthly creek sampling at Tyler, Otter and Ferson Creeks.</p> <p>A Joint Funding Agreement between Kane County and the U.S. Geological Survey was signed on 1/24/2023 and passed by Kane County Board on 12/13/2022 to cover the time period October 1, 2022, through September 30, 2023. Kane County has committed \$64,160 of FY23 funding to support five stream gages and four precipitation gages.</p>

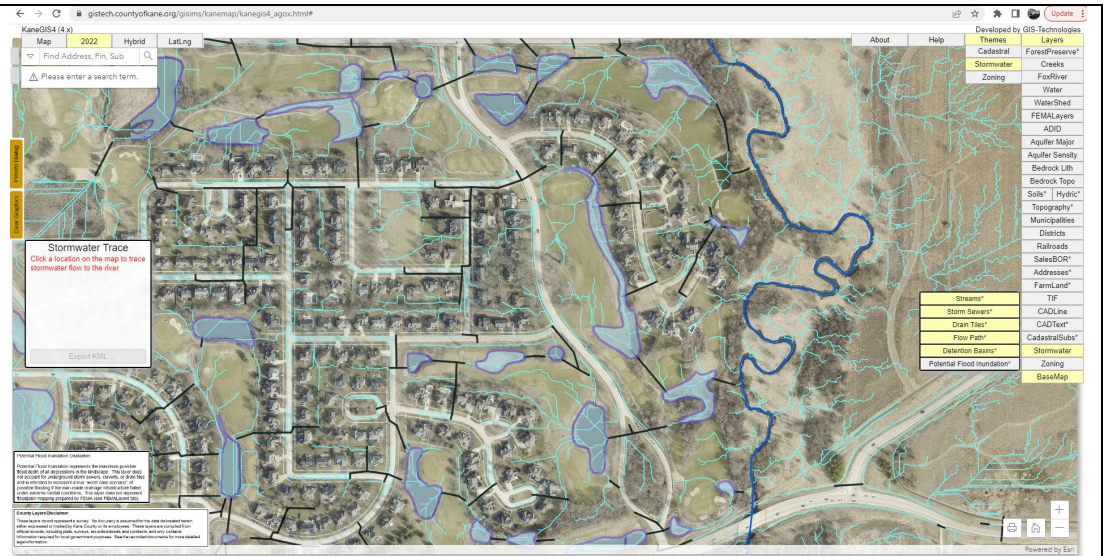
3. BMP B.7—Other Public Involvement

MEASURABLE GOALS	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. (Gary Swick – reached out)
RESULTS	The Kane County Department of Environmental & Water Resources provided \$500 in November 2022 to the Friends of the Fox River to support stream cleanups throughout the county. Friends of the Fox River organized 52 Watershed weekly publications, 365 facebook posts and 6 river cleanups in Kane County, with a total of 360 reported volunteers. In September 2022 FOFR coordinated their 4 th annual “It’s our Fox River Day” and reported over 51 separate events covering 200 miles of the Fox River. Nearly 2000+ participants volunteered for the cleanup event and over forty organizations and municipalities partnered with FOFR for the event. 31 cleanups produced mounds of trash from in and around the Fox River and its streams. Ecological restoration events included oak tree planting, shoreline planting of native species, and creekside clearing of invasive species.

C. ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1—Storm Sewer Map Preparation

MEASURABLE GOALS	<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>
RESULTS	<p>During the permit year, the KCDEWR made more 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 with more than 267 miles storm sewers, culverts, and drain tiles added to the drainage system mapping across the entire county (2617 miles total). The storm sewer / culvert segments mapped to date (100,000 individual items) have been added into the updated hydro-enforced DEM that drives the County's high-resolution storm flow path network. In February 2023, KCDEWR, working with the GIS Department was able to release a new storm flow tracing tool available to the public on the County's mapping webpage at:</p> <p>https://gistech.countyofkane.org/gisims/kanemap/kanegis4_agox.html</p> <p>This stormwater tracing tool gives both professionals and the public at large the ability to accurately trace stormwater flow paths through any part of Kane County (at the map page linked above, select Themes -> Stormwater in the top right corner of the page to access the tracing tool and enable it simply by zooming into a location and clicking on it.</p>



Example of KaneGIS4 public stormwater mapping page for comprehensive county-wide stormwater mapping in Kane County

2. BMP C.2—Regulatory Control Program

MEASURABLE GOALS	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.																
RESULTS	<p>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. The Health Department investigated 27 septic system complaints.</p> <p>KC Environmental & Water Resources Dept investigated 6 potential illicit discharges during the reporting period.</p> <p>KANE COUNTY ILLICIT DISCHARGE INCIDENT TRACKING</p> <p>Period: March 2022 - February 2023</p>																
	<table><tr><th>Date</th><th>Location</th><th>Issue</th><th>Outcome</th></tr><tr><td>3/16/2022</td><td>Heatherfield Drive, Elgin Township</td><td>Possible septic connection to field tile</td><td>KCDEWR and Health Dept Staff investigated. Tile investigation completed and verified cross connection. Health Dept working with KC States Attorney Office to force landowner to complete disconnection</td></tr><tr><td>4/6/2022</td><td>IL Rt 47 & IL Rt 64, Campton Township</td><td>Gas station fuel tank rupture</td><td>Large emergency response by local fire dept, OEM, IEPA. Environmental contractor hired by responsible party for containment, cleanup and remediation. KCDEWR overseeing contractor restoration work on downstream wetland complex disturbed during the emergency cleanup phase.</td></tr><tr><td>6/6/2022</td><td>SW of Keslinger Rd & Harley Rd, Blackberry Township</td><td>Neighbor complaint of possible wastewater discharge into creek</td><td>KCDEWR staff investigated and found site waterwater treatment system to be operating as designed with no leakage or seepage from septic field.</td></tr></table>	Date	Location	Issue	Outcome	3/16/2022	Heatherfield Drive, Elgin Township	Possible septic connection to field tile	KCDEWR and Health Dept Staff investigated. Tile investigation completed and verified cross connection. Health Dept working with KC States Attorney Office to force landowner to complete disconnection	4/6/2022	IL Rt 47 & IL Rt 64, Campton Township	Gas station fuel tank rupture	Large emergency response by local fire dept, OEM, IEPA. Environmental contractor hired by responsible party for containment, cleanup and remediation. KCDEWR overseeing contractor restoration work on downstream wetland complex disturbed during the emergency cleanup phase.	6/6/2022	SW of Keslinger Rd & Harley Rd, Blackberry Township	Neighbor complaint of possible wastewater discharge into creek	KCDEWR staff investigated and found site waterwater treatment system to be operating as designed with no leakage or seepage from septic field.
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6/6/2022	SW of Keslinger Rd & Harley Rd, Blackberry Township	Neighbor complaint of possible wastewater discharge into creek	KCDEWR staff investigated and found site waterwater treatment system to be operating as designed with no leakage or seepage from septic field.														

	6/30/2022	Plain Ave, Aurora Township	Chemical dye spilled onto private driveway and washed onto public roadway	KCDEWR staff investigated and it was determined the staining of the pavement was from a leaking storage container on a pallet. The business manufactures and packages road deicing salt and the leaking container was non-toxic environmentally safe dye added to the salt before packaging. Corrections were made by the business owner to prevent future container leaks and containment system put into place to prevent any possible leaks/spills from leaving the facility.
	10/4/22	Nottingham Drive, Blackberry Township	Citizen Report of animal waste from farm animals kept on residential property	KCDWER staff investigated and observed only 1 goat on the 1.5 acre property. Vegetation was well worn down on back half of lot, but staff observed no sediment deposition or animal waste in the drainage swale downstream of the site. Owner was contacted and directed to coordinate with Building & Zone Dept for possible animal zoning violation.
	10/12/2022	NE of Jericho Rd & IL Rt 47	Citizen report of possible fuel spill	KCDEWR staff investigated. Minimal evidence of diesel residue on the property down slope from diesel truck fueling station after heavy rainstorm. Investigation and discussion with property owner rep on site indicates incident resulted from a truck refueling during a heavy rainstorm and some diesel product visible in onsite puddles near pumps immediately following the storm event.
	2/9/2023	KDOT Facility on Burlington Rd	Citizen report of discolored stormwater	Discoloration in runoff leaving the KDOT facility was due to excess deicing salt being spilled in the yard during loading operations and precip changing to rain and washing dyed salt residual into detention basin which then drained into downstream roadside ditch and observed by resident. KDOT made corrections to salt loading and cleanup procedures to prevent future incidents.

3. BMP C.10—Other Illicit Discharge Controls

MEASURABLE GOALS	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.
RESULTS	Kane County Health Department held one well and septic staff training during the reporting as well as attended a health department seminar.

D. CONSTRUCTION SITE RUNOFF CONTROL

1. BMP D.1—Regulatory Control Program

MEASURABLE GOALS	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.
RESULTS	During the permit year, 43 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.

E. POST-CONSTRUCTION RUNOFF CONTROL

1. BMP E.2—Regulatory Control Program

MEASURABLE GOALS	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.
RESULTS	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, in addition to a digital copy the County maintains of the permits and plans for Stormwater Permit Applications.

F. POLLUTION PREVENTION/GOOD HOUSEKEEPING

1. BMP F.1—Employee Training Program

MEASURABLE GOALS	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.
RESULTS	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 during the reporting period [Distributed on: 5/24/23, 6/3/22, 7/14/22, 9/16/22, and 2/14/23].



September 2022 Edition



Kane County Department of Environmental and Water Resources is excited to present the first Floodplain Awareness Virtual Open House, with support from The Conservation Foundation! Flooding is the most common, most expensive natural disaster in the United States. Join us to learn more about what you can do to be more prepared! Check out the schedule and RSVP below.

This Educational Series is for both Kane County residents, and floodplain professionals.

Residents -

The series will cover an introduction to the Floodplain, the common terms used and where it can flood (here's a hint, anywhere it rains!). Learn about what regulations you need to know as a property owner in the Floodplain, what every resident should know

Example issue of MS4 Corner

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

- *Agriculture and Watersheds* [5/25/22; 7 attendees, 6 Kane County staff]
- *Erosion and Sediment Control* [7/20/22; 7 attendees, 6 Kane County staff]
- *Behavior Change for Watershed and Stormwater Management* [11/16/22; 8 attendees, 6 Kane County staff]

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 Bloomington, IL [3/8/22-3/9/22; 2 staff attended]
- Michigan Floodplain & Stormwater Virtual Conference [3/2/22-3/4/22; Attended by Jodie Wollnik, Director]

2. BMP F.2—Inspection and Maintenance Program

MEASURABLE GOALS	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 & 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.
RESULTS	<p>During 2022, 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 350 catch basins on south Randall Rd and Orchard Rd.</p> <p>KCDEWR continues to update its BMP Inventory & 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

MEASURABLE GOALS	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.
RESULTS	<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">• Heavy trucks (snow plows, etc.)—every 2000 miles or 180 days• Light trucks and cars—every 5000 miles or 90-180 days• Heavy off-road equipment—every 50 hours or 180 days• Light off-road equipment—every 50 hours or 180 days <p>KDOT also took part in a county organized tire recycle program, recycling over 100 tires from either KDOT fleet vehicles or tires found in the county right-of-way.</p>

4. BMP F.5—Flood Management/Assessment Guidelines

MEASURABLE GOALS	Kane County will continue to implement the Kane County Hazard Mitigation Program as outlined in the Plan. Host two Hazard Mitigation Committee meetings per year to coordinate ongoing implementation of the plan.
RESULTS	<p>The Kane County Emergency Management Department and Kane County Department of Environmental & 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. The Plan is currently expired as of December of 2020. County Staff is in the process of completing the Plan Update with a Consultant and HMPG funding under FEMA.</p> <p>A Committee Meeting was held in December 2022, held in person and via Zoom. 18 Community members attended.</p> <p>In addition, the Kane County Department of Environmental & Water Resources completed 2 cost-share projects to reduce flooding on unincorporated residential properties (property list available upon request).</p>

5. BMP F.6—Other Municipal Operations Controls

MEASURABLE GOALS	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.
RESULTS	<p>The Kane County Department of Transportation provides continual training on salt application and storage procedures via staff manuals. All KDOT staff attended the 2022 deicing workshop for sensible salting. Supervisors attended the APWA Winter maintenance supervisor workshop. KDOT calibrates trucks yearly to insure 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 wash off into the MS4. KDOT responded to 31 winter events using 6,000 tons of salt for the season.</p> <p>The Kane County Department of Environmental & Water Resources also worked with The Conservation Foundation to host a virtual winter road maintenance training that was open to all MS4 communities in the region.</p> <ul style="list-style-type: none">Public Roads Deicing Workshops were held on September 27, October 5, October 6, and October 12 2022. The links were sharable so the webinars could be viewed individually or in groups. A survey was provided at the end of each

webinar to those who had signed in asking for the number of attendees from each agency and for an evaluation of the webinar. Thirty four Kane County representatives participated in the three Public Roads webinars, KCDOT staff, supervisors and snow plow operators attended the webinar.

- The Parking Lots and Sidewalks Deicing Workshop webinars were held on September 29 and October 11, 2022 with Fortin Consulting, Inc. presenting. Three Kane County staff viewed the webinars.



The flyer features a background image of yellow snowplows on a snowy road. A blue diagonal banner in the top left corner reads "VIRTUAL WORKSHOPS". A white text box in the center says "Registration is open at SaltSmart.org/workshops". Below this is the "SALT SMART COLLABORATIVE" logo, which includes a fish icon. The main title "2022 Virtual Deicing Workshops" is prominently displayed. The schedule is divided into two columns: "Public Roads" (September 27, October 5, October 6, October 12, 8 am–12 pm) and "Parking Lots & Sidewalks" (September 29, October 11, 8 am–12pm). A red banner states "\$50 REGISTRATION FEE PER DATE & SHARE WITH ALL YOUR STAFF". The "Hosted by:" section lists several organizations with their logos: DuPage River Salt Creek Workgroup, Lower Des Plaines Watershed Group, Chicago Area Waterways Chloride Workgroup, Lower DuPage River Watershed Coalition, DuPage County Stormwater Management Commission, Lake County Division of Transportation, and Lake County Health Department and Community Health Center. The "Outreach Sponsors:" section includes logos for Des Plaines River Watershed Workgroup, Kane County, Clean Water for Kane, and North Branch Chicago River Watershed Workgroup.

VIRTUAL WORKSHOPS

Registration is open at SaltSmart.org/workshops

SALT SMART COLLABORATIVE

2022 Virtual Deicing Workshops

Public Roads	Parking Lots & Sidewalks
September 27	September 29
October 5	October 11
October 6	8 am–12pm
October 12	
8 am–12 pm	

\$50 REGISTRATION FEE PER DATE & SHARE WITH ALL YOUR STAFF

Hosted by:

- DuPage River Salt Creek Workgroup
- Lower Des Plaines Watershed Group
- Chicago Area Waterways Chloride Workgroup
- Lower DuPage River Watershed Coalition
- DuPage County Stormwater Management Commission
- Lake County Division of Transportation
- Lake County Health Department and Community Health Center

Outreach Sponsors:

- Des Plaines River Watershed Workgroup
- Kane County
- Clean Water for Kane
- North Branch Chicago River Watershed Workgroup

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. Previously constructed BMPs (wet detention basins) were added into the inventory. No new structural BMPs were constructed on Kane County government-owned property in Mar 2022 – Feb 2023.

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	250	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
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	KDOT Stearns Rd Det 09-0009	\$100,000	Wet detention	7.25	40%		60%	0.53	3.8	68%	2.6	\$38,274
Kane county	KDOT Stearns Rd Det 09-0010	\$250,000	Wet detention	17.8	40%		60%	0.53	9.4	68%	6.4	\$38,973
Kane county	KDOT 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	KDOT Stearns Rd Det 09-0012	\$100,000	Wet detention	6.6	30%		70%	0.46	3.0	68%	2.0	\$48,887
Kane county	KDOT Stearns Rd Det 09-0013	\$150,000	Wet detention	11.4	40%		60%	0.53	6.0	68%	4.1	\$36,511
Kane county	KDOT Stearns Rd Det 09-0014	\$100,000	Wet detention	22.6	40%		60%	0.53	12.0	68%	8.1	\$12,278
Kane county	KDOT Fabyan Pkwy Det 12-003	\$50,000	Wet detention	3.8	100%			0.98	3.7	68%	2.5	\$19,843
Kane county	KDOT Fabyan Pkwy Det 12-004	\$75,000	Wet detention	2	50%		50%	0.60	1.2	68%	0.8	\$91,278
Kane county	KDOT LM Pkwy Det 03-001	\$150,000	Wet detention	18.5	50%		50%	0.60	11.2	68%	7.6	\$19,736
Kane county	KDOT LM Pkwy Det 03-002	\$100,000	Wet detention	6	85%		15%	0.86	5.2	68%	3.5	\$28,373
Kane county	KDOT LM Pkwy Det 03-003	\$150,000	Wet detention	17.3	75%		25%	0.79	13.7	68%	9.3	\$16,147
Kane county	KDOT LM Pkwy Det 03-004	\$75,000	Wet detention	5	75%		25%	0.79	3.9	68%	2.7	\$27,935
Kane county	KDOT LM Pkwy Det 03-005	\$50,000	Wet detention	3.8	75%		25%	0.79	3.0	68%	2.0	\$24,504
Kane county	KDOT LM Pkwy Det 03-006	\$150,000	Wet detention	19.5	30%		70%	0.46	8.9	68%	6.0	\$24,820
Kane county	KDOT LM Pkwy Det 03-007	\$150,000	Wet detention	18.5	85%		15%	0.86	16.0	68%	10.9	\$13,803
Kane county	KDOT LM Pkwy Det 03-008	\$200,000	Wet detention	13.4	70%		30%	0.75	10.1	68%	6.9	\$29,166

An electronic copy of this inventory is available upon request.

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 2022—February 2023:

List of Kane Co DOT Transportation Projects Under Construction or Completed between Mar 2022 -Feb 2023

Section Number	Project Name
'21-00542-01-RS	2022 Resurfacing #2
'22-00000-01-GM	2022 Paint
'22-00000-02-GM	2022 Urethane
'22-00000-03-GM	2022 Asphalt Rejuvenator
'22-00000-04-GM	2022 HMA Crack Sealing
'22-00000-05-GM	2022 PCC Crack Sealing
'21-00214-29-LS	Stearns AMP Embankment Restoration
21-00288-03-BD	Main St at Fabyan Demolition
21-00536-00-BR	Swan Road Structure Replacement
'21-00542-00-RS	2022 Resurfacing #1
20-00527-01-RS	Swan Road Resurfacing
21-00535-00-BT	Keslinger MUP
21-00215-28-CH	Longmeadow Parkway C2

**Illinois Environmental Protection Agency
Annual Facility Inspection Report
for General Permit for Discharges from Small MS4s**

**McHenry County – Permit No. ILR400264
Permit Year 20: March 2022 through February 2023**



MCH
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Part A. Changes to Best Management Practices, Year 20

Information regarding the status of all of the BMPs and measurable goals described in the MS4's SMPP is provided in the following table.

Note: X indicates BMPs that were implemented in accordance with the MS4's SMPP
✓ indicates BMPs that were changed during Year 20

Year 20 MS4	Best Management Practice (BMP)
A. Public Education and Outreach on Storm Water Impacts	
X	A.1 Distributed Paper Material
X	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Involvement/Participation	
	B.1 Public Panel
X	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Involvement
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Sewer Map Preparation
X	C.2 Regulatory Control Program Review Ordinances
X	C.2 Regulatory Control Program Coordinate with MCEMA
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 20 MS4	Best Management Practice (BMP)
D. Construction Site Storm Water Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Storm Water Management in New Development and Redevelopment	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Construction Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Construction Runoff Controls
F. Pollution Prevention/Good Housekeeping for Municipal Operations	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

No changes were made to the BMPs described in the MS4's SMPP during Year 20.

The current version of the Permit was issued on February 10, 2016. A Notice of Intent for renewal of the General Permit was submitted to the IEPA on February 25, 2022, but McHenry County had not received documentation back from the IEPA at the time this report was completed. Therefore, the current MS4 complies with the March 1, 2016 Permit requirements for Year 15 and subsequent years including the current Year 20. The MS4 remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

Part B. Status of Compliance with Permit Conditions, Year 20

Stormwater Management Activities, Year 20

The stormwater management activities that the MS4 performed during Year 20, including the MS4's BMPs and measurable goals, are described in detail in the MS4's SMPP. A brief summary of the status of the MS4's stormwater management program, as of the end of Year 20, is provided below. The SMPP is attached for reference. The MS4's SMPP can also be viewed at www.mchenrycountyil.gov/county-government/departments-j-z/planning-development/water-resources/npdes

Status of Compliance with Permit Conditions

McHenry County revised its NOI in 2016 to better meet the requirements of the third permit cycle of the NPDES Phase II program to minimize nonpoint source pollution. All programs have been implemented.

Assessment of Appropriateness of Identified BMPs

McHenry County incorporates the reviewed and identified structural and non-structural BMPs included in McHenry County's Stormwater Management Ordinance, Access Management Ordinance, and Subdivision Ordinance, which now includes Conservation Design Standards, Illinois Urban Manual, and IDOT Standards and Specifications into all development and transportation projects to the maximum extent practicable. All BMPs were reviewed and assessed for appropriateness and a revised NOI was submitted in 2016. BMPs not referenced below have a Qualifying Local Program (QLP) and a reference to the Stormwater Management Program Plan (SMPP) expounding in more detail the QLP that fulfills the BMP requirement.

Progress Towards a Reduction in Pollutants Discharged

The McHenry County Division of Transportation (MCDOT) has long been a leader in the use of Sensible Salting practices for winter snow and ice management that help maintain safe roads while reducing salt use and water pollution. MCDOT has significantly reduced, and continues to further reduce, its salt usage during winter by implementing new innovative pre-wetting and liquid brine mixtures for "anti icing (applying brine before a storm)" and "deicing (applying brine during/after a storm)" in conjunction with equipment calibration and other Sensible Salting practices. In Year 19, MCDOT installed new equipment to produce brine mixtures and installed a new tank farm to store the liquids. The tank farm is located in a secondary containment system to prevent releases of pollutants in the unlikely event of a leak.

In Year 20, MCDOT continued to expand and enhance its Sensible Salting practices. MCDOT has converted four of the snow plow routes on County roads into "liquid-only" routes that only use liquid brine instead of solid "granular" material (except during weather conditions such as icing events that are not compatible with the use of liquids). The use of liquids instead of solid rock salt or other granular deicers can result in significantly less chloride being released into the environment while effectively maintaining public safety on roadways. Data from the liquid-only routes such as performance, chloride reduction, and cost savings are being monitored and recorded. MCDOT estimates that each liquid-only route reduces salt use by 38% over conventional application practices and saves approximately \$36,000 per route annually. The collected data is being used to help promote the use of liquids by municipal transportation departments in the region and for other educational outreach and training that promote Sensible Salting practices.

In Year 20, MCDOT and the Department of Planning and Development resumed hosting their Annual Sensible Salting Workshops. These workshops were held annually from 2009 to 2019 but had to be cancelled in 2020 and 2021 due to Covid-19. The 2022 Workshops were held on November 2 and 3 and provided Sensible Salting training for approximately 150 individuals.

The MCDOT maintenance department continues to collect trash in the rights-of-way every spring in conjunction with the strong Adopt-A-Highway program in McHenry County. The Sheriff's Office supplements trash pickup throughout the County with inmate community service labor. Additionally, the MCDOT street sweeper program is reducing sediment load to receiving waters by cleaning all curbs and gutters at least twice in the year and the vector truck cleans catch basins on a rotating cycle throughout the year. These programs result in a large amount of tangible waste and pollutants never reaching surface waters.

The McHenry County Department of Planning and Development (P&D) and a Task Force of diverse stakeholders completed a Water Resources Action Plan (WRAP) for the county during Year 18. The WRAP is designed to empower communities, businesses and individuals to prevent pollution and protect water resources. The WRAP was adopted by the County Board in November of 2020 and since then it has been used to raise public awareness and influence municipal public policy about water pollution. In addition to the use of the WRAP as an educational tool, County staff provided a number of presentations about the WRAP and water quality issues to municipal groups, clubs, and other organizations during Year 20.

In Year 20, the Annual McHenry County Water Forum was held in person. The Water Forum is a large annual event hosted by the P&D and the Environmental Defenders of McHenry County to educate the public and elected officials about water resource issues. Each year's Water Forum focuses on a specific water resource topic. Due to Covid-19, the event was cancelled in 2020 and held online in 2021. The topic of the 2022 Water Forum was water quality and over 100 people attended this in-person event. The entire event was filmed by McHenry County Communications staff and the recording has been posted to the County's websites as well as other organizations. At the time of writing this report, the video had over 100 views on the County YouTube page. Videos of past events and presentations are available online where they continue to reach and educate a growing number of people www.mchenryh2o.com

The IEPA audited this program in January 2017, reporting the County in full compliance to General Permit ILR40 and our Notice of Intent.

Progress Towards Achievement of Measurable Goals Identified for Permit Year 20

The status of progress towards achieving identified measurable goals for each of the minimum control measures is presented below:

1. Public Education and Outreach on Storm Water Impacts

BMP A.1 Distributed Paper Material

The goal of this program will be to make informational brochures available to the public to increase awareness of impacts from stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 20: The NPDES Coordinators will monitor and refresh supplies of informational materials and brochures available for the public at the MCDOT facility, Planning & Development office, posted on the County's NPDES website and at public meetings for road construction projects. The Department of Health will oversee the availability of their brochures within their department. Monitoring the amount of brochures distributed will continue for BMP effectiveness.

The County maintained its measurable goal of providing informational material and brochures that increases awareness of the impacts of stormwater discharges on water bodies and steps that the public can take to reduce pollutants in stormwater runoff. Such information was made available to the public at all facilities, including the P&D, MCDOT, and the Department of Health. Although the number of in-person public events were still somewhat limited due to Covid-19, County staff participated in a significant number of events in Year 20 that provided opportunities to distribute educational materials related to water quality. The distribution of informational materials will continue to expand as the number of public events resume. For compliance with the updated IPEA NPDES permit, most current educational materials are consistent with the revised permit requirements. The County also provided distributable materials on climate change, including the USEPA's "What Climate Change Means for Illinois" and "Climate Change & You - What You Can Do at Home" handouts. The P&D Staff are working collaboratively with the Northwest Water Planning Alliance and a broad group of stakeholders from northeast Illinois to prepare a Regional Sensible Salting Manual and other strategies to reduce salt use on parking lots. Refer to the SMPP Appendix 5.3 for a comprehensive list of brochures available in Year 20.

BMP A.2 Speaking Engagement

The goal of this program will be to provide verbal communications that helps to increase awareness of impacts of stormwater discharges on water bodies for stakeholders in the community and the steps the public can take to reduce pollutants in stormwater runoff.

Year 20: The NPDES Coordinators will provide presentations, demonstrations or other public speaking engagements to raise awareness about water quality issues associated with stormwater discharges. The speaking engagements may be conducted by members of P&D, the Health Department or the MCDOT. The number of speaking engagements about water resources will be monitored to evaluate BMP effectiveness.

Although traditional opportunities for public speaking continued to be somewhat limited during Year 20 due to Covid-19, the NPDES Coordinators exceeded the County's measurable goal for speaking engagements and spoke on behalf of water quality as opportunities became available. P&D staff have provided presentations about water resources in person and online, including the fifth Annual Water Forum that was held at McHenry County College and featured a variety of experts speaking on water quality issues. A partnership with the McHenry County P&D and the Environmental Defenders of McHenry County created a series of in-person events called

Best Management Practice (BMP) “Talk and Tour” workshops that showcased examples of stormwater BMPs that had been successfully implemented in McHenry County. Several of the Talk and Tours focused on the water quality, the financial benefits of successful green infrastructure, and implementation of Sensible Salting practices. The Workshops were filmed by County Communications staff and have been made available to the public on the County YouTube page as well as other organizations social media. MS4 staff participated in a number of other in-person events including an Earth Day celebration event that was held in person at the McHenry County Conservation District’s Prairie View Education Center that had hundreds of attendees; Planetpalooza, an environmental and social awareness event held in Woodstock, Illinois downtown City Square; and the McHenry County College Green living Festival. MS4 staff also provided water resources presentations for the Woodstock, IL public library, McHenry County College – Kids and College Summer Program, the Environmental Defenders of McHenry County Annual Board Meeting, and the Unity Spiritual Center Church in Woodstock, IL. MS4 staff also gave an online presentation on Sensible Salting to the Flint Creek/Spring Creek Watershed Group that was recorded and posted online by several different organizations.

BMP A.3 Public Service Announcement

The goal of this program is to increase awareness of impacts from stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 20: The County will include one stormwater and/or water quality related article once a year in a conservation organization’s newsletter which is distributed countywide, included on the McHenry County NPDES or Water Resources website, or in one of the two main local newspapers the Daily Herald or Northwest Herald distributed in McHenry County. Partnership with another MS4 permit holder will be considered to accomplish this BMP.

The County met its measurable goal for this BMP. Staff from P&D and the Department of Health contributed to numerous published articles addressing chloride pollution, Sensible Salting, climate change, household hazardous waste, recycling, and the long-term drought in McHenry County. The articles were published in the Northwest Herald, the Chicago Tribune, the Woodstock Independent, and the Environmental Defenders of McHenry County Newsletter. Please refer to the SMPP Appendix 5.5 for a comprehensive list of water quality related articles and the periodical in which they were published. The McHenry County P&D and MCDOT share an NPDES website that is hosted by the County. The Water Resources website reports on water resources and maintains a large number of current articles and brochures on protecting groundwater and surface water, managing stormwater, promoting water issue awareness, and conservation of water including green infrastructure BMPs. The Department of Health also has a website that includes water quality and pollution prevention information. McHenry County P&D staff also spearheaded the creation of a traveling Salt Smart exhibit in collaboration with the Conservation Foundation, the Northwest Water Planning Alliance, and a number of libraries in the Chicago Region. The Salt Smart exhibit explains why road salt is dangerous to water quality and how Salt Smart practices maintain safety while reducing pollution. The Salt Smart Exhibit will be shown on a rotating schedule at libraries throughout the Chicago Region.

BMP A.4 Community Event

The goal of this program is to increase awareness of impacts from stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 20: The County will hold one public event focused on water resources including stormwater and/or water quality. The number of attendees will be monitored to evaluate effectiveness of the BMP.

The County exceeded the measurable goal for this BMP with a number of events being held by the Department of Health and the P&D. The Department of Health held numerous recycling and waste collection events during Year 20 of the MS4. These events included: 4 residential electronics collections events on April 9, May 21, September 17, and October 15, 2022. In addition to recycling electronic devices, each event also collected textiles, fluorescent tubes and bulbs, and clean Styrofoam for recycling in collaboration with the Environmental Defenders of McHenry County. These events resulted in 51,408 pounds of electronics being collected and recycled. The Department of Health, in coordination with the City of Crystal Lake and the Illinois EPA, held a free Household Hazardous Waste recycling event on June 25, 2022 that resulted in the collection over 279 55-gallon drums of material. The Department of Health held tire recycling drives in Nunda Township on September 8 and in the City of Woodstock on October 22 resulting in the collection of over 89 tons of tires. The Department of Health also held a latex and oil base paint collection event on September 8 in Woodstock that resulted in the collection of over 11 tons of paint.

The P&D held their annual Water Forum on August 31, 2022 at the McHenry County College auditorium. The Water Forum is a large annual event focused on educating the public about water resources in the region. Every year focuses on a different water resource topic and expert speakers are brought in to educate a broad cross-section of stakeholders and residents on the topic. With funding from grants and sponsors, the event is fully catered to attract a diverse audience and create festive atmosphere. Over 100 people attended the water Forum and a video of the event continues to help educate the public online. www.mchenryh2o.com. In collaboration with the Northern Regional Groundwater Planning and Protection Committee, MS4 staff also held a Groundwater Field Day on September 14, 2022 that focused heavily on stormwater and water quality issues.

BMP A.5 Classroom Education Materials

The goal of this program is to teach students about the impacts of stormwater discharges on water bodies and the steps that can be taken to reduce pollutants in stormwater runoff.

Year 20: The County will provide educational resources, including information about stormwater management, through the McHenry County Schools Environmental Education Program (MCSEEP). The County will also participate in stormwater related events such as the Groundwater Festival.

MCSEEP provides environmental education programs for schools throughout the county that includes curricula about stormwater and water quality issues. Educational programming is also provided to home-school groups. Specific teaching curricula are established for pre-kindergarten through eighth grade. In addition to its teaching curricula, MCSEEP also

coordinates with the schools, the P&D, the Department of Health and the Soil and Water Conservation District (SWCD) to host spring and fall Groundwater Festivals that include interactive programs on stormwater, water quality, best management practices, and green infrastructure. The groundwater festivals usually involve multiple schools and hundreds of students, parents and teachers. Since schools were still restructuring due to Covid-19, some of MCSEEP's educational programming was limited during Year 20. This also prevented holding the Groundwater Festivals during Year 20. During Year 20, MCSEEP provided environmental education programming that included education on stormwater issues in 45 schools, 390 classes, and for approximately 8,000 students. As schools continue to resume normal practices, MCSEEP will coordinate with schools to further re-integrate and expand environmental education programming and events. MS4 staff also expect to resume holding Groundwater Festivals again in Year 21.

BMP A.6 Other Public Education - Website Links

The goal of this program is to increase awareness of impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 20: All information and website links will be monitored for accuracy and usage. As new information is published, the website will be updated accordingly.

The County met its measurable goal of including stormwater information, brochures, articles, volunteer programs, all NPDES reports, other agency newsletters, and agency links on the joint MCDOT and Water Resources Division NPDES website. A link to construction projects and individual NOIs is included for easy reference: www.mchenrycountyil.gov/county-government/departments-j-z/planning-development/water-resources/npdes. The County also provides a link on the NPDES webpage to climate change websites including the USEPA climate change page, the NASA Climate Change and Global Warming page, and the National Climate Assessment page for the Midwest. All links are monitored for operation, content, and current information. Updates are made as new information becomes available by the Data/Communications Manager. See Section 3.A.6 of the SMPP for additional information. Monitoring of website visits is performed by a web counter. Approximately 112 unique visits to the NPDES website were counted during this reporting period. The NPDES website and other water resource information can be viewed on the Water Resources Division website at www.mchenryh2o.com.

2. Public Involvement/Participation

BMPs B.2 Educational Volunteer, B.5 Volunteer Monitoring, B.6 Program Involvement

The goal of this program is to provide public involvement opportunities and participation programs that allow input from citizens during the development and implementation of the MS4's permit activities.

Year 20: The Adopt-A-Highway program will continue with the oversight of MCDOT. New volunteer groups will be added when the requests are approved by the County.

The County met its measurable goal of providing volunteer opportunities to stakeholders in the county. Through the County's Adopt-A-Highway program, 163 active volunteer groups covered 162 of the 208 centerline adoptable miles, resulting in 78% of MCDOT adoptable miles being maintained. A total of 1,580 bags of refuse were collected by the active volunteer groups. An additional 800 bags were collected by MCDOT staff. Refer to Section 3.B of the SMPP for further information.

BMP B.3 Stakeholder Meeting

The goal of this program is to offer a venue for citizens to provide feedback on the MS4's permit and activities associated with it. Additionally, this BMP would also cover outside organization meetings that the MS4 attends.

Year 20: The County will continue to attend and participate in outside organization meetings and activities. The County will hold a presentation on the MS4 program at a regularly scheduled meeting to provide a public forum for comments.

The County actively participates in outside organization meetings and activities, including watershed groups and environmental groups. The County will provide a public forum for comments on the County's MS4 program at the Planning, Environment and Development Committee meeting in June. County staff will give a presentation on the annual activities and solicit feedback from the committee and members of the public in attendance.

BMP B.7 Other Public Involvement

The goal of this program is to document any other public involvement activities that citizens may assist the MS4 in detecting illicit discharges and drainage issues.

Year 20: Through the McHenry County Department of Health and MCDOT procedures for responding to citizen complaints regarding illicit discharges and drainage concerns, all complaints are logged and addressed as appropriate. The MCDOT will continue to manage the Adopt-A-Highway program. The County will annually determine if any of the MS4's jurisdiction may classify as an environmental justice area.

Both the McHenry County Department of Health and MCDOT answer all citizen complaints as they are received. MCDOT continued to manage the Adopt-A-Highway program. The County has not identified any environmental justice areas within its jurisdiction, so no further documentation is required. Refer to Section 3.B.7 of the SMPP for further information.

3. Illicit Discharge Detection and Elimination

BMP C.1 Sewer Map Preparation

The goal of this program is to maintain a storm sewer and structure map of all drainage and outfalls to receiving streams in the County's rights-of-way for ease in tracking the source of any illicit discharge.

Year 20: The MCDOT will maintain and update, as needed, the master list in SMPP Appendix 5.6, which includes all outfalls and names of receiving waters within the MCDOT

rights-of-way and County facility detention/retention ponds. The MCDOT GIS specialist will continue to populate the drainage database with the entire MCDOT drainage system into the CarteGraph Drainage Module and ArcGIS.

The MCDOT continues to meet its measurable goal by improving GIS capabilities and records, updating lists of drainage structures, and updating comprehensive maps to reflect any changes due to recent or current construction projects. MCDOT continued to use the inspection forms that were updated in Year 19 to standardize and improve data collection.

BMPs C.2 Regulatory Control Program, C.3 Detection/Elimination Prioritization Plan, C.4 Illicit Discharge Tracing Procedures, and C.5 Illicit Source Removal Procedures
See Qualifying Local Program – McHenry County P&D, McHenry County Department of Health, McHenry County Emergency Management Agency, Illinois Environmental Protection Agency, and State Attorney’s Office. Refer to Sections 3.C.2, 3.C.3, 3.C.4, and 3.C.5 of the SMPP for further information.

Year 20: The County conducts periodic inspections of the storm sewer outfalls listed in Appendix 5.6, which includes all County facility detention/retention ponds, outfalls and names of receiving waters within the MCDOT rights-of-way. The McHenry County Department of Health also responds to any complaints regarding illicit discharges and follows up with appropriate action to resolve any that are confirmed.

No illicit discharges into County rights-of-way were recorded by the MCDOT for this permit period. The McHenry County Department of Health recorded 45 illicit discharge complaints, with 28 of those complaints confirmed to be illicit discharges.

BMP C.7 Visual Dry Weather Screening

The goal of this program is to conduct periodic inspections of all storm sewer outfalls during dry weather conditions for detection of non-storm water discharges and illegal dumping.

Year 20: The MCDOT conducts periodic inspections of the storm sewer outfalls listed in Appendix 5.6, which includes all outfalls and names of receiving waters within the MCDOT rights-of-way and County facility detention/retention ponds. The MCDOT has identified high priority outfalls that are inspected annually with all remaining outfalls inspected on a rotating basis so all outfalls are inspected over a five year period.

The County met this BMP during the Year 20 reporting period in accordance with the updated IEPA NPDES Permit. A list of the outfalls inspected during the Year 20 reporting period is included below. Refer to Section 3.C.7 of the SMPP for further information.

The following list includes all of the outfalls identified in the Master List of Ponds, Detention/Retention Facilities, Stream Channel Outfalls, and Storm Drainage Outfalls (Appendix 5.6 of SMPP). The shaded locations were inspected during the Year 20 reporting period. Inspection sites shown in **BOLD** are High Priority areas that are monitored annually. The remaining areas are monitored, on a rotating basis, so that all outfalls/ponds/basins are monitored at least once in a five-year cycle.

1. **Algonquin Road over Gravel Pit Creek Str # 056-3166**
2. **Algonquin Road over Crystal Creek Str # 056-3165**
3. Algonquin Road over Woods Creek (east of Randall Road) Str # 056-3164
4. Algonquin Road over Woods Creek (west of Randall Road) Str # 056-3172
5. Randall Road over Woods Creek Str # 056-3204
6. Randall Road over Tributary to Woods Creek Str # 056-3206
7. **Rakow Road over Crystal Creek Str # 056-3157**
8. Lakewood Road over South Branch Kishwaukee Creek
9. Main Street over South Branch Kishwaukee River Str # 056-3018
10. Marengo Road over South Branch Kishwaukee River
11. Harmony Road over Tributary to Coon Creek Str # 056-3170
12. Maple Street over Tributary to Riley Creek Str # 056-3027
13. Harmony Road over Coon Creek Str # 056-3138
14. Genoa Road over Tributary to Spring Creek
15. Coral Road over Tributary to Riley Creek
16. South Union Road over Tributary to West Branch Union Creek
17. Marengo Road over West Branch Union Creek East
18. Marengo Road over Tributary to West Branch Union Creek East Str # 056-3160
19. Marengo Road over Union Creek
20. South Union Road over the South Branch Kishwaukee River Str # 056-3178
21. Franklinville Road over Kishwaukee River Str # 056-3017
22. Franklinville Road over Franklinville Creek Str # 056-3016
23. Union Road over Kishwaukee River Str # 056-3026
24. Garden Valley Road over North Branch Kishwaukee River Str # 056-3028
25. Millstream Road over Kishwaukee River Str # 056-3022
26. Millstream Road over South Branch Kishwaukee River Str # 056-3023
27. Deerpass Road over Kishwaukee River Main Channel Str # 056-3030
28. Deerpass Road over Kishwaukee River Auxiliary Channel Str # 056-3029
29. Kishwaukee Valley Road over Mud Creek Str # 056-3203
30. Kishwaukee Valley Road over Rush Creek Str # 056-3150
31. Kishwaukee Valley Road over Tributary to Rush Creek Str # 056-3202
32. Kishwaukee Valley Road over North Branch Kishwaukee River Str # 056-3177
33. Dunham Road over North Branch Kishwaukee River Str # 056-3179
34. McGuire Road over Rush Creek
35. McGuire Road over Rush Creek Str # 056-3008
36. Flat Iron Road over Mokeler Creek Str # 056-3019
37. Hunter Road over Little Beaver Creek Str # 056-3034
38. Lawrence Road over Tributary to Lawrence Creek Str # 056-3012
39. Lawrence Road over Lawrence Creek Str # 056-3181
40. Lawrence Road over Piscasaw Creek Str # 056-3010
41. Lawrence Road over West Branch Piscasaw Creek Str # 056-3020
42. Lawrence Road over West Branch Piscasaw Creek (No STR #)
43. Alden Road over Tributary to Nippersink Creek
44. Oak Grove Road over Tributary to Nippersink Creek (headwaters west of Reece Road)
45. Oak Grove Road over Tributary to Nippersink Creek (east of Wright Road)

46. Alden Road over Nippersink Creek Str # 056-3174
 47. Altenburg Road over North Branch Kishwaukee River
 48. Durkee Road over Tributary to North Branch Kishwaukee River
 49. Johnson Road over Nippersink Creek Str # 056-3128
 50. Alden Road over Tributary to North Branch Kishwaukee River
 51. McGuire Road over North Branch Kishwaukee River Str # 056-3161
 52. Alden Road over Headwaters of Slough Creek
 - 53. Nelson Road over Slough Creek Str # 056-3201**
 54. Charles Road over Slough Creek Str # 056-3006
 55. Charles Road over Silver Creek Str # 056-3211
 56. Greenwood Road over Nippersink Creek Str # 056-3155
 57. Tryon Grove Road over Reed Creek
 58. Keystone Road over Tributary to North Branch Nippersink Creek
 59. Tryon Grove over Tributary to Nippersink Creek
 60. Tryon Grove over Tributary to Nippersink Creek (just east of #63)
 61. Blivin Street over Nippersink Creek Str # 056-3191
 - 62. Wilmot Road over Nippersink Creek Str # 056-3001**
 63. Johnsbury Road over Dutch Creek Str # 056-3159
 64. Johnsbury Road over Tributary to Dutch Creek
 - 65. Chapel Hill Rd over Fox River Str # 056-3134**
 66. Bay Road over Lily Lake Drain Str # 056-3106
 67. Bull Valley Road over Tributary to Fox River
 - 68. Charles J. Miller Road over Fox River Str # 056-3149**
 - 69. Charles J. Miller Road over Fox River Str # 056-3190**
 70. River Road over Defiance Lake Stream Str # 056-3000
 71. River Road over Griswold Lake Stream
 72. Roberts Road over Tributary to Fox River
 73. Walkup Road over Sleepy Hollow Creek
 74. Rakow Road cross culvert east of Pyott Road
 75. Cross Culvert under Charles J. Miller Road from Detention/Retention Pond (on the north side) to the discharge to the Fox River on the south
 76. Main Street cross culvert east of Blivin Street
 77. Johnsbury Roundabout, Tributary to the Fox River
 78. Bay road over unnamed tributary to Lake Jerilyn
-
- A. Algonquin Road Pond at SE corner Hanson Road
 - B. Algonquin Road (3 ponds in series) east of Church Street
 - C. Algonquin Road pond west of Church Street
 - D. Rakow Road pond on NW corner McHenry Avenue**
 - E. Rakow Road pond on NE corner Pyott Road**
 - F. Animal Control Facility pond
 - G. Charles J. Miller Road pond west of Green Street**
 - H. Charles J. Miller Road pond 500' east of Green Street
 - I. Walkup Road Pond east side south of Anvil Drive
 - J. Walkup Road Pond east side south of Raintree Drive
 - K. Walkup Road Pond east side north of Mason Hill Road

- L. Walkup Road Pond east side, Outlot A of Patriot Estates**
- M. County Administration Building Pond south side of building
- N. County Administration Building 2 ponds on north side of building parking area
- O. County Court Facility pond fronting IL 47
- P. Health Department inline detention pond east along entire parking lot
- Q. Health Department pond southwest of entrance
- R. County Records Storage facility fronting Nelson Road
- S. Valley Hi Nursing Home pond
- T. McHenry County Division of Transportation west pond**
- U. McHenry County Division of Transportation south ponds**
- V. Route 31 Park&Ride lot bio-surface and 3 settling basins west side, south of Virginia Rd.
- W. Charles J. Miller Road detention basin northwest corner of its intersection with River Rd.
- X. Charles & Raffel Roundabout Dry Detention Basin, SWC at Raffel Rd.
- Y. Charles & Raffel Roundabout Wet Detention Basin, NWC at Raffel Rd.
- Z. River Road Roundabout Wet Detention Basin, NEC at Dowell Rd.
- AA. River Road Roundabout Wet Detention Basin, NE River Rd/NW Dowell Rd.
- BB. River Road Roundabout Wet Detention Basin, SEC at Dowell Rd.
- CC. River Road Roundabout Wet Detention Basin, SEC at Dowell Rd.
- DD. Charles J. Miller Road wet retention/detention basin northeast corner northerly portion of westerly realigned McHenry Avenue

4. Construction Site Storm Water Runoff Control

BMPs D.1 Regulatory Control Program, D.2 Erosion and Sediment Control BMPs, and D.4 Site Plan Review Procedures

See Qualifying Local Program – McHenry County P&D Stormwater Management Ordinance, Illinois Environmental Protection Agency, United States Army Corps of Engineers, Illinois Urban Manual, and McHenry-Lake County Soil & Water Conservation District. It should be noted that the current McHenry County Stormwater Management Ordinance provisions, Standard Soil Erosion and Sediment Control Notes, and other required guidance documents, along with staff review and approval of Stormwater Management Permits, meet the updated IEPA NPDES requirements. Refer to Sections 3.D.1, 3.D.2 and 3.D.4 of the SMPP for further information.

BMPs D.6 Site Inspection/Enforcement Procedures and D.7 Other Construction Site Runoff Controls

See Qualifying Local Program – McHenry County Stormwater Management Ordinance, Illinois Department of Transportation Construction Memoranda. Refer to Sections 3.D.6 and 3.D.7 of the SMPP for further information.

5. Post-Construction Storm Water Management in New Development and Redevelopment

BMP E.2 Regulatory Control Program

See Qualifying Local Program – McHenry County Stormwater Management Ordinance and Technical Reference Manual, McHenry County Unified Development Ordinance, Illinois

Environmental Protection Agency, United States Army Corps of Engineers, Illinois Urban Manual, and McHenry-Lake County Soil & Water Conservation District. Refer to Section 3.E.2 of the SMPP for further information.

BMP E.4 Pre-Construction Review of BMP Designs

See Qualifying Local Program – McHenry County P&D and MCDOT. Refer to Section 3.E.4 of the SMPP for further information.

BMPs E.3 Long Term O&M Procedures, E.5 Site Inspections During Construction, and E.6 Post-Construction Inspections

See Qualifying Local Program – E.3 McHenry County Access Management Ordinance; E.5 McHenry County Stormwater Management Ordinance and Illinois Department of Transportation Construction Memorandum; E.6 McHenry County Stormwater Management Ordinance and IDOT Standard Specifications for Road & Bridge Construction. Refer to Sections 3.E.3, 3.E.5, & 3.E.6 of the SMPP for further information.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP F.1 Employee Training Program

The goal of this BMP is to identify current practices that contribute to stormwater pollution and implement programs and procedures for County activities that curtail the discharge of pollutants to storm sewer systems.

Year 20: The County will continue in-house training and modify procedures as necessary to prevent the discharge of pollutants to the storm sewer systems from County facilities and rights-of-way.

See Section 3.F.1 of the SMPP for a more comprehensive explanation of County departments and associated training conducted. Please refer to Appendix 5.9 of the SMPP for a detailed list of training attended by the nine major County departments.

BMP F.2 Inspection and Maintenance Program

The goal of this BMP is to complete inspections of outfalls and detention/retention facilities once every Five years.

Year 20: The MCDOT Drainage Engineer will conduct inspections of NPDES outlets on a rotating basis during appropriate times of the year so that 100% of all outfalls are completed every five years.

Please refer to the list provided in Section BMP C.7 - Visual Dry Weather Screening of this report that identifies the ponds, detention/retention facilities, stream channel outfalls, and storm drainage outfalls that were inspected by MCDOT during the Year 20 reporting period. Of the 108 NPDES locations identified in Appendix 5.6 of the SMPP, a total of 40 (37%) were inspected during the Year 20 reporting period. MCDOT staff inspect all high priority NPDES locations annually and inspect remaining locations on a rotating basis so that all locations are inspected

every 5 years. Maintenance staff, throughout the County facilities, have been trained to report any illicit discharge contamination; no reports were made within the reporting period.

BMP F.3 Municipal Operations Storm Water Control

See Qualifying Local Program - McHenry County Division of Transportation Policies and Procedures, Street Sweeping Program, Drainageways, Landscape Maintenance, Snow Removal and Ice Control, Salt and Liquid Storage and Handling Policy in conjunction with Groundwater Protection Program, vehicle and equipment operations, pet waste, and animal nuisance control. Refer to Section 3.F.3 of the SMPP for further information.

Year 20: The County will continue to incorporate pollution prevention and good housekeeping practices into day-to-day activities and operations.

In Year 20, the MCDOT continued using the vacator unit that was obtained in Year 13 to clean out outfalls and catch basins. The vacator unit has been operating 3 to 4 days per week clearing an average of 6 to 12 locations per each of those days. In addition, MCDOT's current MS4 involves street sweeping curb and gutter sections and bridge decks 3 to 4 times annually. It should be noted that the current County policies, procedures, and other countywide guidance documents meet the updated IEPA NPDES requirements. Using the current practices, our MS4 will improve the quality of storm water discharges from the County Highway system.

Part C. Information and Data Collection Results, Year 20

IDDE Monitoring and Data Collection, Year 20

Information and data that the MS4 collected as part of its illicit discharge detection and elimination (IDDE) program are summarized below.

The McHenry County Department of Health (MCDH) completes bi-weekly sampling of all licensed public beaches in McHenry County for E.coli from Memorial Day through Labor Day. Any other water quality sampling/monitoring data collected was done by the McHenry County Department of Health on an as-needed basis.

A total of 45 potential illicit discharges were investigated by the MCDH. The MCDH performed inspections for all 45 potential illicit discharges in accordance with the procedures outlined in the county's SMPP. The inspections confirmed 28 to be illicit discharges. No illicit discharges into the MCDOT rights-of-way were recorded for this permit period.

Part D. BMP Effectiveness Monitoring and Assessment Results, Year 20

BMP Monitoring and Data Collection for Year 20

Information and data that the MS4 collected as part of its BMP effectiveness monitoring and assessment program are summarized below.

For Year 20, the County continued to implement the changes required under the ILR40 Permit that was reissued on March 1, 2016. The changes include providing a comprehensive list of BMPs/green infrastructure being implemented by the County to reduce pollutant loadings and water quality impacts. The effectiveness of the BMPs/green infrastructure was evaluated and results are provided in a tabular format in Appendix 5.16 of the SMPP.

Part E. Summary of Year 21 Proposed Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 21. Additional information about the stormwater management activities that the MS4 will perform during Year 21 is provided in the section following the table.

The current version of the Permit was issued on February 10, 2016. A Notice of Intent for renewal of the General Permit was submitted to the IEPA on February 25, 2021, but McHenry County had not received documentation back from the IEPA at the time this report was completed. Therefore, the current MS4 complies with the March 1, 2016 Permit requirements for Year 15 and subsequent years including the current Year 20 and proposed Year 21 activities. The MS4 remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

Note: X indicates BMPs that will be implemented during Year 21
✓ indicates BMPs that are proposed be changed from Year 20

Year 21 MS4	Best Management Practice (BMP)
A. Public Education and Outreach on Storm Water Impacts	
X	A.1 Distributed Paper Material
X	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Involvement/Participation	
	B.1 Public Panel
X	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
X	B.5 Volunteer Monitoring
X	B.6 Program Involvement
X	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Sewer Map Preparation
X	C.2 Regulatory Control Program Review Ordinances
X	C.2 Regulatory Control Program Coordinate with MCEMA
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 21 MS4	Best Management Practice (BMP)
D. Construction Site Storm Water Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Storm Water Management in New Development and Redevelopment	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Construction Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Construction Runoff Controls
F. Pollution Prevention/Good Housekeeping for Municipal Operations	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Stormwater Management Activities, Year 21

During Year 21, the MS4 plans to continue to perform a variety of stormwater management activities, as described in detail in the MS4's SMPP and in brief below. The MS4's SMPP can be viewed at www.co.mchenry.il.us/county-government/departments-j-z/planning-development/divisions/water-resources/npdes. It is also attached for reference.

1. Public Education and Outreach on Storm Water Impacts

BMP A.1 Distributed Paper Material

The goal of this program will be to make available informational brochures to the public to increase awareness of impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 21: The NPDES Coordinators will monitor and refresh supplies of informational materials and brochures available for the public at the MCDOT facility, Planning & Development office, posted on the County's NPDES website and at public meetings for road construction projects. The Department of Health will oversee the availability of their brochures within their department. Monitoring of amount of brochures distributed will continue for BMP effectiveness.

BMP A.2 Speaking Engagement

The goal of this program will be to provide verbal communications that help to increase awareness of impacts of stormwater discharges on water bodies for stakeholders in the community and the steps the public can take to reduce pollutants in stormwater runoff.

Year 21: The NPDES Coordinators will provide presentations, demonstrations or other public speaking engagements to raise awareness about water quality issues associated with stormwater discharges. The speaking engagements may be conducted by members of the P&D, the Health Department or the MCDOT. Depending on required protocols regarding Covid-19, some of these events may have to be done remotely or follow other social distancing protocols. The number of speaking engagements about water resources will be monitored to evaluate BMP effectiveness.

BMP A.3 Public Service Announcement

The goal of this program is to increase awareness of impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 21: The County will include one stormwater and/or water quality related article once a year in a conservation organization's newsletter which is distributed countywide, included on the McHenry County NPDES or Water Resources website, or in one of the two main local newspapers the Daily Herald or Northwest Herald distributed in McHenry County. Partnership with another MS4 permit holder will be considered to accomplish this BMP.

BMP A.4 Community Event

The goal of this program is to increase awareness of impacts from stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 21: As in past years, the County will hold at least one public event focused on water resources including stormwater and/or water quality. The number of attendees will be monitored to evaluate effectiveness of the BMP.

BMP A.6 Other Public Education - Website Links

The goal of this program is to increase awareness of impacts of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 21: All information and website links will be monitored for accuracy and usage. As new information is published, the website will be updated accordingly.

2. Public Involvement/Participation

BMPs B.2 Educational Volunteer, B.5 Volunteer Monitoring, B.6 Program Involvement

The goal of this program is to provide public involvement opportunities and participation programs that allow input from citizens during the development and implementation of the MS4's permit activities. Refer to Section 3.B of the SMPP for further information.

Year 21: The Adopt-A-Highway program will continue with the oversight of MCDOT. New volunteer groups will be added when the requests are approved by the County.

BMPs B.3 Stakeholder Meeting

The goal of this program is to offer a venue for citizens to provide feedback on the MS4's permit and activities associated with it. Additionally, this BMP would also cover outside organization meetings that the MS4 attends. Refer to Section 3.B of the SMPP for further information.

Year 21: The County will provide a public forum on the County's MS4 program in conjunction with a regularly scheduled meeting. The County will also continue to attend outside organization meetings, as appropriate.

BMP B.7 Other Public Involvement

The goal of this program is to document any other public involvement activities that citizens may assist the MS4 in detecting illicit discharges and drainage issues. Refer to Section 3.B.7 of the SMPP for further information.

Year 21: The County will continue to provide active citizen participation in detection of illicit discharges to the storm sewer system and problems with drainage infrastructure. Both MCDOT and the Department of Health will continue to be the primary contacts for this minimum control measure. The County will verify if any areas of the MS4 jurisdiction qualify as an environmental justice area.

3. Illicit Discharge Detection and Elimination

BMP C.1 Sewer Map Preparation

The goal of this program is to maintain a storm sewer and structure map of all drainage and outfalls to receiving streams in the County's rights-of-way for ease in tracking the source of any illicit discharge.

Year 21: The MCDOT will maintain and update, as needed, the master list in SMPP Appendix 5.6, which includes all outfalls and names of receiving waters within the MCDOT rights-of-way and County facility detention/retention ponds. The MCDOT GIS specialist will continue to populate the drainage database with the entire MCDOT drainage system into the CarteGraph Drainage Module and ArcGIS.

BMPs C.2 Regulatory Control Program, C.3 Detection/Elimination Prioritization Plan, C.4 Illicit Discharge Tracing Procedures, and C.5 Illicit Source Removal Procedures

See Qualifying Local Program – McHenry County P&D, McHenry County Department of Health, McHenry County Emergency Management Agency, Illinois Environmental Protection Agency, and State Attorney's Office. Refer to Sections 3.C.2, 3.C.3, 3.C.4, and 3.C.5 of the SMPP for further information.

BMP C.7 Visual Dry Weather Screening

The goal of this program is to conduct periodic inspections of all storm sewer outfalls during dry weather conditions for detection of non-storm water discharges and illegal dumping.

Year 21: The MCDOT will conduct periodic inspections of the storm sewer outfalls listed in Appendix 5.6, which includes all outfalls and names of receiving waters within the MCDOT rights-of-way and County facility detention/retention ponds. During appropriate times of the year, the MCDOT will visit all high priority outfalls for annual inspections and the remaining outfalls will be inspected on a rolling basis over five-year intervals.

4. Construction Site Storm Water Runoff Control

BMPs D.1 Regulatory Control Program, D.2 Erosion and Sediment Control BMPs, and D.4 Site Plan Review Procedures

See Qualifying Local Program – McHenry County P&D Stormwater Management Ordinance, Illinois Environmental Protection Agency, United States Army Corps of Engineers, Illinois Urban Manual, and McHenry-Lake County Soil & Water Conservation District. Refer to Sections 3.D.1, 3.D.2 and 3.D.4 of the SMPP for further information.

Year 21: The McHenry County P&D, Water Resources Division will ensure that all regulated development within their jurisdictional boundaries acquires the necessary Stormwater Management Permits for construction. Through the permitting process, construction site storm water runoff controls will be reviewed and monitored for compliance with the NPDES permit requirements.

BMPs D.6 Site Inspection/Enforcement Procedures and D.7 Other Construction Site Runoff Controls

See Qualifying Local Program – McHenry County Stormwater Management Ordinance, Illinois Department of Transportation Construction Memoranda. Refer to Sections 3.D.6 and 3.D.7 of the SMPP for further information.

5. Post-Construction Storm Water Management in New Development and Redevelopment

BMP E.2 Regulatory Control Program

See Qualifying Local Program – McHenry County Stormwater Management Ordinance and Technical Reference Manual, McHenry County Unified Development Ordinance, Illinois Environmental Protection Agency, United States Army Corps of Engineers, Illinois Urban Manual, and McHenry-Lake County Soil & Water Conservation District. Refer to Section 3.E.2 of the SMPP for further information.

BMP E.4 Pre-Construction Review of BMP Designs

See Qualifying Local Program – McHenry County P&D and MCDOT. Refer to Section 3.E.4 of the SMPP for further information.

BMPs E.3 Long Term O&M Procedures, E.5 Site Inspection During Construction, and E.6 Post-Construction Inspections

See Qualifying Local Program – E.3 McHenry County Access Management Ordinance; E.5 McHenry County Stormwater Management Ordinance and Illinois Department of Transportation Construction Memorandum; E.6 McHenry County Stormwater Management Ordinance and IDOT Standard Specifications for Road & Bridge Construction. Refer to Sections 3.E.3, 3.E.5, & 3.E.6 of the SMPP for further information.

6. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP F.1 Employee Training Program

The goal of this BMP is to identify current practices that contribute to stormwater pollution and implement programs and procedures for MCDOT activities that curtail the discharge of pollutants to storm sewer systems.

Year 21: The County will continue in-house training and modify procedures as necessary to prevent the discharge of pollutants to the storm sewer systems from County facilities and rights-of-way.

BMP F.2 Inspection and Maintenance Program

The goal of this BMP is to complete inspections of outfalls and detention/retention facilities once every five years.

Year 21: During the summer months the MCDOT will conduct periodic inspections of the storm sewer outfalls listed in Appendix 5.6, which includes all outfalls and names of receiving waters within the MCDOT rights-of-way and County facility detention/retention ponds.

The MCDOT will visit all high priority outfalls for annual inspections and the remaining outfalls will be inspected on a rolling basis during appropriate times of the year over five-year intervals.

BMP F.3 Municipal Operations Storm Water Control

See Qualifying Local Program - McHenry County Division of Transportation Policies and Procedures, Street Sweeping Program, Drainageways, Landscape Maintenance, Snow Removal and Ice Control, Salt and Liquid Storage and Handling Policy in conjunction with Groundwater Protection Program, vehicle and equipment operations, pet waste, and animal nuisance control. Refer to Section 3.F.3 of the SMPP for further information.

Year 21: The County will continue to incorporate pollution prevention and good housekeeping practices into day-to-day activities and operations.

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

Not applicable during Year 20.

Part G. Construction Projects Conducted During Year 20, Proposed for Year 21

Construction projects in Permit Year 20 (March 2022 – February 2023) funded by the McHenry County Division of Transportation (MCDOT) and covered by General Permit No. ILR400264 are listed below:

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Randall Road (County Paving) Grind/Mill/Pave	7.7 acres	5/2022	10/2022
Algonquin Road (County Paving) Grind/Mill/Pave	61.1 acre	5/2022	10/2022
Traffic Signal Modernization (Various Intersections)	4.49 acres	5/2022	8/2023
Kishwaukee Valley Road culverts repair/preserve	<1 acres	6/2022	10/2022
Harmony Road culvert repair/preserve	<1 acre	6/2022	10/2022

There have been no incidents of non-compliance associated with any of these projects during this reporting year.

Pending future construction projects to be conducted during Permit Year 21 (March 2023 - February 2024) are listed below:

Project Name	Project Size (Acres)	Construction Start Date	Construction End Date
Johnsburg Rd – Superstructure Replacement & Pavement Resurfacing.	< 1.5 acre	6/2023	7/2023
Pyott Road (County Paving) Grind/Mill/Pave	14.1 acres	05/2023	09/2023
Lakewood Road (County Paving) Grind/Mill/Pave	10.8 acres	05/2023	09/2023
North Union Road (County Paving) Grind/Mill/Pave	6.1 acres	05/2023	09/2023
South Union Road (County Paving) Grind/Mill/Pave	4.1 acres	05/2023	09/2023
West Union Road (County Paving) Grind/Mill/Pave	8.1 acre	05/2023	09/2023
Traffic Signal Modernization (Various Intersections)	4.49 acres	5/2022	8/2023

Part F. Construction Projects Conducted During Year 20

[illegible]