



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, 2020 To March, 2021

Permit No. ILR40 0264

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

Name: McHenry County Mailing Address 1: 2200 Seminary
Mailing Address 2: _____ County: McHenry
City: Woodstock State: IL Zip: 60098 Telephone: 815-334-4000
Contact Person: Peter Austin, County Administrator Email Address: pbaustin@mchenrycountyil.gov
(Person responsible for Annual Report)

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

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))

Owner Signature: _____

Peter Austin
Printed Name:

May 21, 2021
Date:

County Administrator
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

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

**McHenry County – Permit No. ILR400264
Permit Year 18: March 2020 through February 2021**



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Part A. Changes to Best Management Practices, Year 18

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 18

Year 18 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 18 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 18. Given the unusual circumstances, economic shut-down, and social distancing requirements due to Covid-19, implementation of some BMP’s during Year 18 may not be consistent with previous years. As Covid-19 becomes less of a health risk, activities involving public education, outreach, and involvement will increase.

The current version of the Permit was issued on February 10, 2016 and the effective date was March 1, 2016. Therefore, the current MS4 complies with the March 1, 2016 Permit

requirements for Year 15 and subsequent years, until the Permit expired in 2021 at the end of Year 18. 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 18

Stormwater Management Activities, Year 18

The stormwater management activities that the MS4 performed during Year 18, including the MS4's BMPs and measureable 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 18, 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

MCDOT has reduced and continues to reduce its salt usage during winter through new innovative pre-wetting and liquid mixtures in conjunction with equipment calibration. MCDOT has improved their ability to produce and safely store anti-icing liquids, including the installation of new storage tanks within a new secondary containment system.

In the winter of Year 18 MCDOT initiated three routes that only use liquids. The use of liquids instead of solid rock salt and other granular deicers can result in significantly less chlorides being released while effectively maintaining public safety on roadways. Data such as performance, chloride reduction, and cost savings of the liquid only routes are being monitored and recorded. The data is being used to promote the use of liquids by municipal transportation departments and other educational outreach and training for sensible salting practices. The Sensible Salting Workshops that MCDOT and the Department of Planning and Development have been providing annually since 2009 were cancelled in Year 18 due to Covid-19. The Workshops are expected to resume in Year 19.

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 activities

are cleaning catch basins periodically throughout the year on a rotating cycle. These programs result in a large amount of tangible waste and pollutants never reaching the surface waters of McHenry County.

McHenry County Planning and Development and a Task Force of diverse stakeholders completed a Water Resources Action Plan (WRAP) for the county. 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 is being used to raise awareness and influence municipal public policy about water pollution. The Annual McHenry County Water Forum was not held in Year 18 due to Covid-19 but will be conducted online during Year 19.

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 18

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 of stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Year 18: 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.

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 Department of Planning and Development, the Division of Transportation, and the Department of Health. While there were few opportunities to distribute informational brochures at “in-person” events in Year 18 due to Covid-19, the distribution of materials will resume in Year19 as Covid-19 restrictions relax. 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. Planning and Development Staff is 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 18.

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 18: 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 Department of Planning and Development, 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 were not feasible during Year 18 due to Covid-19, the NPDES Coordinators spoke on behalf of water quality on numerous online meetings and gave online presentations about Sensible Salting and Micro-Plastics to local environmental organizations. The Department of Planning and Development maintained correspondence with Water Resources Action Plan (WRAP) Task Force members electronically throughout the development of the WRAP. Presentations on the WRAP were also provided to

members of the McHenry County Board who voted to adopt the WRAP in November of 2020. As Covid-19 restrictions are lifted in Year 19, the County will continue to meet its measurable goal for speaking engagements by giving presentations at public events including an Earth Day celebration, presentations for numerous community organizations, an annual Green Living Festival, the County Fair, and an annual Water Forum. Groundwater Festivals for students will also resume as schools return to full in-person classes.

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 18: 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. Planning and Development staff contributed to a water resources article published in the Winter 2021 issue of the Environmental Defenders of McHenry County (EDMC) Earthconnect newsletter. The article discussed a collaborative micro-plastics study that the EDMC, Planning and Development staff, and researchers from the Illinois Sustainable Technology Center are conducting in McHenry County. 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 Department of Planning and Development – Water Resources Division and MCDOT share an NPDES website that is hosted by the County. The Water Resources website reports on Groundwater Protection activities and maintains a large number of current articles and brochures on protecting groundwater, promoting water issue awareness, and conservation of water including green infrastructure BMPs. The Water Resources Division also maintains a website that focuses on Surface Water and Stormwater. The Department of Health also has a website that includes water quality and pollution prevention information.

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 18: 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. The McHenry County Department of Health held numerous recycling and waste collection events during Year 18 of the MS4. These events included: 4 residential electronics collections events on July 25, August 29, September 19, and October 3, 2020. These events resulted in 67,758 pounds of electronics being collected and recycled. Batteries were also collected at these and other collection dates resulting in the collection of approximately 5,530 pounds of single-use alkaline batteries. Tire recycling events were held on September 10 and November 7, 2020 resulting in the collection of approximately 175 tons of tires.

Other community events that are regularly held, were not feasible in Year 18 due to Covid-19. The Department of Planning and Development usually meets or exceeds this goal with their annual Water Forum and other water related events. Community events will be held again in Year 19 as an online program or “in-person” when Covid-19 restrictions are relaxed. Videos and supporting information for past community events, such as the Water Forum and Water Resources Action Plan (WRAP) meetings can be viewed on the WRAP webpage on the County’s water resources website at www.mchenryh2o.com.

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 18: 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.

Under normal circumstances MCSEEP provides environmental education programs for schools throughout the county that includes curricula about stormwater and water quality issues. MCSEEP would also coordinate with the schools, the Department of Planning and Development, and the Department of Health to host spring and fall Groundwater Festivals that included 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 shut down and had to adapt to online learning due to Covid-19, most of MCSEEP’s educational programming could not be provided during Year 18. After Covid-19 restriction are relaxed and schools resume normal practices, MCSEEP will coordinate with schools to re-integrate environmental education programming and events.

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 18: 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 has 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. For compliance with the updated IPEA NPDES permit, the County also provided 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 122 unique visits to the NPDES website were counted during this reporting period, a 60% increase from the previous year.

During Year 18 the McHenry County Water Resources Action Plan (WRAP) was completed by the Department of Planning and Development and the WRAP Task Force. The Plan provides background information about water resources in McHenry County, identifies the different land uses in the county, the threats to water under each of the land uses, and recommends best management practices to mitigate the threats. The WRAP was officially adopted by the McHenry County Board in November 2020. The WRAP was posted on the Water Resources Division website and is available to the public. The WRAP and supporting 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 18: 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 has met its measurable goal of providing volunteer opportunities to stakeholders in the county. Through the County's Adopt-A-Highway program, 52 active volunteer groups covered 152 of the 213 centerline adoptable miles, resulting in 71.4% of MCDOT adoptable miles being maintained. A total of 438 bags of refuse were collected by the 52 active volunteer groups. The number of active volunteer groups and total of bags collected are lower than previous years. The reduced numbers during this reporting period are likely due to Covid-19. 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 18: 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 any public.

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 18: Through the County’s procedure for responding to citizen complaints regarding illicit discharges and drainage concerns and the County’s Adopt-A-Highway program, all complaints are logged and addressed as appropriate. The County will annually determine if any of the MS4’s jurisdiction may classify as an environmental justice area.

Both the McHenry County Division of Transportation and McHenry County Department of Health answer all citizen complaints as they are received. 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 18: 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. During recent MS4 reporting cycles MCDOT has surveyed the entire County Route system, updated the comprehensive GIS mapping, added watershed/sub-watershed boundaries to better facilitate watershed planning, and photographed all outfall structures from multiple angles to aid in monitoring, training, planning, or responding to illicit discharge complaints. During Year 18, the comprehensive maps were updated to reflect any changes due to recent or current construction projects.

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 Planning and Development Department, 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 18: The County 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 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 41 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 18: 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 18 reporting period in accordance with the updated IEPA NPDES Permit. A list of the outfalls inspected during the Year 18 reporting period is included below. Refer to Section 3.C.7 of the SMPP for further information.

The following list includes the outfalls identified in the Master List of Ponds, Detention/Retention Facilities, Stream Channel Outfalls, and Storm Drainage Outfalls (Appendix 5.6 of SMPP) that were inspected during the Year 18 reporting year.

- 1. Algonquin Road over Gravel Pit Creek Str # 056-3166**
- 2. Algonquin Road over Crystal Creek Str # 056-3165**
- 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
11. Harmony Road over Tributary to Coon Creek Str # 056-3170
13. Harmony Road over Coon Creek Str # 056-3138
15. Coral Road over Tributary to Riley Creek
18. Marengo Road over Tributary to West Branch Union Creek East Str # 056-3160
19. Marengo Road over East Branch Union Creek East
23. Union Road over Kishwaukee River Str # 056-3026
24. Garden Valley Road over North Branch Kishwaukee River Str # 056-3028
27. Deerpass Road over Kishwaukee River Main Channel Str # 056-3030, and
28. Deerpass Road over Kishwaukee River Auxiliary Channel Str # 056-3029
29. Kishwaukee Valley Road over Mud Creek Str # 056-3203
33. Dunham Road over North Branch Kishwaukee River Str # 056-3179
36. Flat Iron Road over Mokeler Creek Str # 056-3019
38. Lawrence Road over Tributary to Lawrence Creek Str # 056-3012
40. Lawrence Road over Piskasaw Creek Str # 056-3010
41. Lawrence Road over West Branch Piskasaw Creek Str # 056-3020
42. Lawrence Road over West Branch Piskasaw Creek (No STR #)
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)

- 50. Alden Road over Tributary to North Branch Kishwaukee River
- 52. Alden Road over Headwaters of Slough Creek
- 53. Nelson Road over Slough Creek Str # 056-3201**
- 56. Greenwood Road over Nippersink Creek Str # 056-3155
- 62. Wilmot Road over Nippersink Creek Str # 056-3001**
- 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**
- 78. Johnsbury Roundabout, Tributary to the Fox River
- D. Rakow Road pond on NW corner McHenry Avenue**
- E. Rakow Road pond on NE corner Pyott Road**
- G. Charles J. Miller Road pond west of Green Street**
- L. Walkup Road Pond east side, Outlot A of Patriot Estates**
- T. McHenry County Division of Transportation west pond**
- U. McHenry County Division of Transportation south ponds**
- 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.

*Inspection sites shown in **BOLD** above 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.*

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 Planning and Development Department 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 Department of Planning and Development and McHenry County Division of Transportation. 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 18: 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 18: 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 Appendix 5.6 of the SMPP for a master list of ponds, detention/retention facilities, stream channel outfalls, and storm drainage outfalls which fall under the jurisdiction

of the MCDOT and County Facilities as they are identified or added. Of the 107 NPDES locations identified in Appendix 5.6, a total of 43 (40%) were inspected during the Year 18 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 18: The County will continue to incorporate pollution prevention and good housekeeping practices into day-to-day activities and operations.

In Year 18, the MCDOT continued using the vacor unit that was obtained in Year 13 to clean out outfalls and catch basins. The vacor 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 18

IDDE Monitoring and Data Collection, Year 18

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 Health Department on an as-needed basis.

A total of 41 potential illicit discharges were investigated by the MCDH. The MCDH performed inspections for all 41 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 18

BMP Monitoring and Data Collection for Year 18

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

For Year 18, 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 19 Proposed Stormwater Activities

The table below indicates the stormwater management activities that the MS4 plans to undertake during Year 19. Additional information about the stormwater management activities that the MS4 will perform during Year 19 is provided in the section following the table.

Note: X indicates BMPs that will be implemented during Year 19
 ✓ indicates BMPs that are proposed be changed from Year 18

Year 19 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 19 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

The current version of the Permit Expired on February 28, 2021. A Notice of Intent was submitted to the Illinois EPA Therefore, the MS4 will comply with the March 1, 2021 Permit requirements for Year 19 and subsequent years, until the Permit expires in 2026 at the end of Year 23. The MS4 remains committed to performing activities related to the six MCMs described in the most recent version of the Permit.

Stormwater Management Activities, Year 19

During Year 19, 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 19: 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 19: 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 Department of Planning and Development, 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 19: 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 19: As in past years, the County will hold at least one public event focused on water resources including stormwater and/or water quality. Due to the Coronavirus, the event may have to be done remotely or following other social distancing protocols. 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 19: 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 19: 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 19: 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. Due to the Coronavirus, these meetings and events may have to be done remotely or following other social distancing protocols.

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 19: 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 19: 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 Planning and Development Department, 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 19: 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 Planning and Development Department 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 19: The McHenry County Department of Planning and Development, 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 Department of Planning and Development and McHenry County Division of Transportation. 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 19: 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 19: 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 19: 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 18.

Part G. Construction Projects Conducted During Year 18, Proposed for Year 19

Construction projects in Permit Year 18 (March 2020 – February 2021) 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
West Solon Bridge (Temporary Repair)	<1 acre	2/2020	10/2020
Bull Valley Road culverts and win wall retrofit	<1 acre	4/2020	10/2020
Miller/Randall Roads box culvert and drainage	<1 acre	4/2020	10/2020
Chapel Hill Road grind/mill/pave north of Bay Road to the Fox River Bridge	2.5 acres	4/2020	11/2020
Bull Valley Road grind/mill/pave from Crystal Lake Road to the Rail Road track	3.4 acres	5/2020	11/2020
Deerpass/River Roads intersection improvement	<1 acre	11/2019	7/2020
River Road grind/mill/pave	10.2 acres	8/2020	11/2020
Main Street grind/mill/pave	4.1 acre	7/2020	8/2020
Harmony Road (2 sections) grind/mill/pave	14.6 acres	7/2020	8/2020
Coral Road grind/mill/pave	13.5 acres	8/2020	10/2020
Lawrence Road extension grind/mill/pave	2.5 acre	8/2020	11/2020
Ramer Road grind/mill/pave	<1 acre	5/2020	11/2020
Harmony Road Bridge repair	<1 acre	10/2020	11/2020
Randall Road	66 acres	6/2018	8/2021
13310 Harmony Road Demolition	<1 acre	11/2020	12/2020
Cary Algonquin thin lift overlay	<15.2 acre	11/2020	12/2020

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 19 (March 2021 - February 2022) are listed below:

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Randall Road	66 acres	6/2018	6/2021
Union Road Bridge	<1 acre	4/2019	4/2021
O'Brien Road Bridge	<1 acre	4/2019	4/2021
Randall Road	66 acres	6/2018	8/2021
Ackman Road grind/mill/pave	13.2 acres	7/2021	10/2021
Vermont Road grind/mill/pave	10.1 acres	7/2021	10/2021
Kishwaukee Valley Road grind/mill/pave	18.2 acres	7/2021	10/2021
Oak Grove and Ramer thin lift overlay	7.2 acres	6/2021	7/2021
Kishwaukee Valley Road bridge replacement	<1 acre	6/2021	11/2021
Bridge Preservation Program – Various Bridges	<1 acre	9/2021	11/2021
Harmony Road culvert cleaning	<1 acre	9/2021	11/2021
Bull Valley Road culvert repair	<1 acre	9/2021	11/2021