

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

**McHenry County – Permit No. ILR400264
Permit Year 19: March 2021 through February 2022**



Contents

Part A. Changes to Best Management Practices A-1
Part B. Status of Compliance with Permit ConditionsB-1
Part C. Information and Data Collection Results C-1
Part D. BMP Effectiveness Monitoring and Assessment Results, Year 19D-1
Part E. Summary of Year 19 Proposed Stormwater ActivitiesE-1
Part F. Notice of Qualifying Local Program..... F-1
Part G. Construction Projects Conducted During Year 19, Proposed for Year 20G-1

Part A. Changes to Best Management Practices, Year 19

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 19

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

No changes were made to the BMPs described in the MS4’s SMPP during Year 19. Given the unusual circumstances, economic shut-down, and social distancing requirements due to Covid-19, the implementation of some BMP’s during Year 19 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. 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 19. 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 19

Stormwater Management Activities, Year 19

The stormwater management activities that the MS4 performed during Year 19, 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 19, 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 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. 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 the winter of Year 19, MCDOT converted four of the snow plow routes on County roads into routes that only use liquids. The use of liquids instead of solid rock salt or other granular deicers can result in significantly less chlorides being released into the environment 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. MCDOT estimates that each liquid only route reduces salt use by 38% over conventional application practices and saves approximately \$36,000. 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.

The Sensible Salting Workshops that MCDOT and the Department of Planning and Development (P&D) have been providing annually since 2009 were cancelled in Year 19 due to Covid-19. Instead, McHenry County co-sponsored an online winter snow and ice program in coordination with the Conservation Foundation, a local environmental non-profit organization, and other Counties in the Chicago Region. McHenry County plans to resume it's in-person Sensible Salting Workshops in Year 20.

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 surface waters.

McHenry County 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 are provided a number of presentations about the WRAP and water quality issues to municipal groups, clubs, and other organizations during Year 19.

In Year 19, the Annual McHenry County Water Forum was held online. 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. Approximately 160 people participated in the online event. Using a grant, County staff hired a film maker to professionally record and edit the presentations that were shown during the event. The filmmaker used multiple cameras to make the presentations visually engaging for the online audience. Videos of the event and presentations are available online where they continue to reach and educate a growing number of people www.mchenryh2o.com

The P&D, MCDOT, and the Environmental Defenders of McHenry County (EDMC) collaborated on a unique and exciting "stream sign" project. The project involves the installation of signs along roads at stream crossings across the County. Each of the signs identifies the stream being crossed, and the watershed it flows through. The Environmental Defenders and P&D staff developed the concept and obtained a sizable grant. MCDOT manufactured and installed the signs at stream crossings at each of the roads under County jurisdiction.

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 19

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 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.

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. While there were few opportunities to distribute informational brochures at “in-person” events in Year 19 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. 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 19.

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 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 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 were limited during Year 19 due to Covid-19, the NPDES Coordinators did meet 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 fourth Annual Water Forum that was held online and featured a variety of experts speaking on water resource issues. The presentations have been provided to approximately 300 people who participate in local environmental groups, clubs, municipal Committees, and the general public. Staff also participated in an Earthday celebration event that was held in person at the McHenry County Conservation District’s Prairie View Education Center that had hundreds of attendees.

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 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.

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 and the Chicago Tribune. 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 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 P&D 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 19: 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 19 of the MS4. These events included: 4 residential electronics collections events on April 17, May 22, September 11, and October 16, 2021. In addition to recycling electronic devices, each event also collected textiles, fluorescent tubes and bulbs, and clean Styrofoam for recycling. These events resulted in 65,213 pounds of electronics being collected and recycled. The Department of Health, in coordination with the Lake in the Hills Sanitary District and the Illinois EPA, also held a free Household Hazardous Waste recycling event on June 26, 2021 that resulted in the collection over 410 55-gallon drums of material.

The P&D held their annual Water Forum on June 16, 2021. Due to covid, the event was held online, using novel filming methods and an interactive meeting platform to create an engaging online experience. The Water Forum is a large annual event focused on educating the public about water resources in the region. Approximately 160 people attended the live event. Videos of the event and individual presentations are available online and continue to help educate the public. 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 19: 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. Educational programming is also provided to home-school groups. Specific curricula are established for pre-kindergarten through eighth grade. MCSEEP would also coordinate with the schools, the P&D, and the Department of Health and the Soil and Water Conservation District (SWCD) 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 were locked down, or have been restructuring after the lockdown due to Covid-19, much of MCSEEP's educational programming was limited during Year 19. As schools began to resume normal practices however, MCSEEP's programming began to be incorporated into classrooms again. During Year 19 MCSEEP provided educational programming in 8 school districts and 179 classrooms, for 134 teachers and 4,333 students. As more schools continue to 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 19: 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.

During Year 19 a published version of the McHenry County Water Resources Action Plan (WRAP) was completed. The published version was prepared by a professional graphic artist and publisher, and it included high resolution graphics and navigation capability to make it user friendly. The published 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 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.

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 158 of the 208 centerline adoptable miles, resulting in 76% of MCDOT adoptable miles being maintained. A total of 743 bags of refuse were collected by the active volunteer groups. An additional 899 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 19: 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 19: Through the County’s procedure for responding to citizen complaints regarding illicit discharges and drainage concerns, all complaints are logged and addressed as appropriate. The County 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 MCCD and McHenry County Department of Health answer all citizen complaints as they are received. MCCD 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 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.

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 also updated the inspection forms to simplify 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 19: 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 38 illicit discharge complaints, with 22 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 19: 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 19 reporting period in accordance with the updated IEPA NPDES Permit. A list of the outfalls inspected during the Year 19 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 19 reporting year.

- 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**
- 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
61. Blivin Street over Nippersink Creek Str # 056-3191
- 62. Wilmot Road over Nippersink Creek Str # 056-3001**
63. Johnsborg Road over Dutch Creek Str # 056-3159
64. Johnsborg 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. Johnsborg Roundabout, Tributary to the Fox River
- 78. Bay road over unnamed tributary to Lake Jerilyn

- A. Algonquin Road Pond at SE corner Hanson Road
- 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**
- 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.
- 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.

*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 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 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.

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 19: 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 108 NPDES

locations identified in Appendix 5.6, a total of 47 (44%) were inspected during the Year 19 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 19: The County will continue to incorporate pollution prevention and good housekeeping practices into day-to-day activities and operations.

In Year 19, the MCDOT continued using the vactor unit that was obtained in Year 13 to clean out outfalls and catch basins. The vactor 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 19

IDDE Monitoring and Data Collection, Year 19

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 38 potential illicit discharges were investigated by the MCDH. The MCDH performed inspections for all 38 potential illicit discharges in accordance with the procedures outlined in the county's SMPP. The inspections confirmed 22 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 19

BMP Monitoring and Data Collection for Year 19

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

For Year 19, 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 20
 ✓ indicates BMPs that are proposed be changed from Year 19

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

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 19. 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 20

During Year 20, 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 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 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 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 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 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.

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: 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 20: 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 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.

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 20: 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 20: 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 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.

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 20: 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 20: 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 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.

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: 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 20: 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 19.

Part G. Construction Projects Conducted During Year 19, Proposed for Year 20

Construction projects in Permit Year 19 (March 2021 – February 2022) 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 – South Phase Completed	20	2/2020	10/2021
Kishwaukee Valley Road culvert replacement	<1 acre	5/2020	10/2021
River Road grind/mill/pave shoulder widening	10.2 acres	6/2021	11/2021
Ackman Road grind/mill/pave	3.5 acres	5/2021	10/2021
Vermont Road grind/mill/pave	5 acre	6/2021	11/2021
Kishwaukee Valley Road grind/mill/pave	3 acre	5/2021	11/2021

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 20 (March 2022 - February 2023) 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