

# **Preamble to Notice of Intent for General Permit**

## **The McHenry County Highway Department, McHenry County Illinois**

### **Executive Summary**

The goal of the federally mandated National Pollution Discharge Elimination System (NPDES) Phase II program is to preserve, protect and improve the Nation's water resources from polluted stormwater runoff. NPDES Phase II is intended to reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. NPDES Phase II requires operators of Municipal Separate Storm Sewer Systems (MS4s) in urbanized areas to implement Best Management Practices (BMPs) defined in six minimum control measures to control polluted stormwater runoff.

The McHenry County Highway Department (MCHD) falls under the MS4 classification and therefore must submit a Notice of Intent (NOI) to the Illinois Environmental Protection Agency (IEPA) for a General Permit (General Permit ILR40) by March 10, 2003. The NOI must contain general information about the MCHD as well as the BMPs to be implemented for each of the six minimum control measures. The six minimum control measures are given below:

1. Public Education and Outreach
2. Public Involvement and Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Control
5. Post-Construction Stormwater Management in New Development and Redevelopment
6. Municipal Pollution Prevention and Good Housekeeping

The MCHD controls or owns more than 2,000 acres of County Highways and Right of Way (ROW) areas within McHenry County. The MCHD regulates access to the highways through the McHenry County Access Management Ordinance (Ordinance). The Ordinance, existing public programs and department projects are considered Qualifying Local Programs (QLPs) that count towards satisfying the requirements of the six minimum control measures. The attached NOI details the six minimum control measures, the BMPs associated with these control measures, the QLPs that the MCHD is currently employing and programs the MCHD will implement to satisfy additional requirements of the six minimum control measures.

The MCHD programs that have been proposed to meet the requirements of the NPDES Phase II rule over the next five years include:

- Making available informational brochures,
- Creating website links on the MCHD website,
- Promoting water quality and stream enhancement activities by civic groups and schools,
- Creating a Citizens Report Form on the MCHD website,
- Developing MCHD procedures for handling illicit discharges,
- Completing the MCHD drainage map,
- Modifying the Ordinance,
- Modifying engineering review and permitting procedures for developments to include stormwater BMPs, and
- Adding inspections and pollution prevention activities to the MCHD.

The measurable goals and milestones associated with each of these programs are described in the NOI. The MCHD will be required to submit an annual report detailing progress towards these goals to the IEPA on the first day of June each year for the five years until the permit expires on February 29, 2008.

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
NOTICE OF INTENT  
FOR GENERAL PERMIT FOR DISCHARGES FROM  
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS  
(MS4s)**

Input forms in Word format are available  
by via email.  
[marilyn.davenport@epa.state.il.us](mailto:marilyn.davenport@epa.state.il.us)  
or by calling the Permit Section at  
217/782-0610  
See address for mailing on page 4

For Office Use Only – Permit No. ILR40

**Part I. General Information**

1. MS4 Operator Name: McHenry County Highway Department
2. MS4 Operator Mailing Address:  
Street- 16111 Nelson Road City- Woodstock  
State- Illinois Zip Code- 60098
3. Operator Type: Highway Department
4. Operator Status: Local
5. Name(s) of Governmental Entity(ies) in which MS4 is located: McHenry County
6. Area of land that drains to your MS4 (in square miles): 3.1
5. Latitude/Longitude at approximate geographical center of MS4 for which you are requesting authorization to discharge:  
Latitude:     88            27            30     Longitude:     42            20            00  
                  DEG.            MIN.            SEC.                    DEG.            MIN.            SEC.
8. Name(s) of known receiving waters: *Attach additional sheets (Attachment 1) as necessary:*

1. <u>Nippersink Creek</u>	2. <u>Newman Creek</u>
3. <u>Slough Creek</u>	4. <u>Silver Creek</u>
5. <u>Dutch Creek</u>	6. <u>North Branch Dutch Creek</u>
7. <u>Fox River</u>	8. <u>Franklinville Creek</u>
9. <u>Kishwaukee River</u>	10. <u>Kishwaukee Creek</u>

**1. Persons Responsible for Implementation/Coordination of Storm Water Management Program:**

<u>Name</u>	<u>Title</u>	<u>Telephone No.</u>	<u>Area of Responsibility</u>
<u>Joseph R. Korpalski</u>	<u>County Engineer</u>	<u>815-334-4960</u>	<u>Overall Implementation</u>

## II. Best Management Practices (include shared responsibilities) Proposed to be Implemented in the MS4 Area

(Details of BMP implementation for each checked BMP number, e.g., A.1, E.2, is required in Part IV of NOI.)

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

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

## Part III. Qualifying Local Programs

*Attach additional sheets (Attachment 2) as necessary:*

*(Describe any qualifying local programs that you will implement in lieu of new permitting requirements.)*

### **1. Public Education and Outreach:**

The MCHD does not currently have a qualifying local program for public education and outreach.

### **2. Public Participation/Involvement:**

The McHenry County Adopt-A-Highway program is a volunteer effort directed at trash collection along sections of County Highways. Volunteer groups adopt a one-half to two-mile section of highway for a two-year period. Trash collections are conducted four times a year. The MCHD provides supplies, training and organization to volunteer groups that sign up for the program. This program relates to BMP numbers B.2, B.5 and B.6.

### **3. Illicit Discharge Detection and Elimination:**

The MCHD does not currently have a qualifying local program for illicit discharge detection and elimination.

### **4. Construction Site Runoff Control:**

The Ordinance Sections 4.4.2 (k) and 6.11 requires that erosion control measures must be incorporated into the design for access facility and highway improvement plans and reviewed by the MCHD. This relates to BMP Number D.1 and D.4. The Ordinance Section 4.4.2 requires the developer to attend two pre-application meetings and conducts periodic inspections during construction. This relates to BMP numbers D.6 and D.7.

### **5. Post-Construction Runoff Control:**

The Ordinance Section 6.9 requires a drainage study for all new county highways. This relates to BMP number E.2. The Ordinance Section 4.4.2 requires the developer to attend two pre-application meetings and conducts periodic inspections during construction. This relates to BMP number E.5. Section 4.4.3 of the Ordinance requires an inspection by MCHD staff upon completion of construction. This relates to BMP number E.6. The MCHD requires a maintenance guarantee and 1-year maintenance period from the developer before the MCHD takes over maintenance responsibilities. This relates to BMP number E.3.

### **6. Pollution Prevention/Good Housekeeping:**

The MCHD has a salt dome for road salt and runoff from the MCHD facility and building drains to stormwater detention basins that are designed for settling of pollutants. The MCHD also oversees street sweeping activities for the curb-and-gutter sections of the County highways. These relate to BMP F.3.

## Part IV. Measurable Goals (include shared responsibilities) Proposed to be Implemented by the MS4

*Attach additional sheets (Attachment 3) as necessary*

*(BMP No. should match that checked in Part II of this NOI. The applicant may repeat the same BMP No. where more than one BMP of similar type is to be implemented. Where necessary, attach additional sheets to provide more detail on each specific BMP.)*

### **BMP No. A.1**

#### **Brief Description of BMP:**

The MCHD will produce and make available brochures on public activities that can reduce stormwater pollution. These brochures will be made available for the public at the MCHD building.

#### **Measurable Goal(s), including frequencies:**

The brochures will be developed to target developers and residents. The goal of this program is to increase the awareness of impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

**Milestones: Year 1:** The MCHD will obtain the informational material and brochures.

**Years 2-5:** The MCHD will make the informational material and brochures available at the MCHD building.

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### **BMP No. A.3**

#### **Brief Description of BMP:**

The MCHD will include a stormwater and/or ambient water quality related article once a year in the county newsletter.

#### **Measurable Goal(s), including frequencies:**

The County newsletter article will be developed to target developers and residents. The goal of this program is to increase the awareness of impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

**Milestones: Years 1-5:** The MCHD will include a stormwater and/or ambient water quality related article in the County newsletter each year.

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### **BMP No. A.6**

#### **Brief Description of BMP:**

The MCHD will create a website link on the Highway Department web page of the County's website that includes public activities that can reduce stormwater pollution

#### **Measurable Goal(s), including frequencies:**

The website will be developed to target developers and residents. The goal of this program is to increase the awareness of impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

**Milestones: Year 1:** The MCHD will identify possible website links.

**Year 2:** MCHD will create a website link on the Highway Department web page to at least one of the identified links.

**Years 3-5:** The MCHD will monitor website link(s) and update as new information becomes

**BMP No. B.7**

**Brief Description of BMP:**

The MCHD will create a Citizens Report Form on the Highway Department website that includes reporting illicit discharges to the storm sewer system and maintenance problems associated with ponds, drainage structures or outfalls within the MCHD ROW. The Citizens Report Form will allow residents of McHenry County to electronically submit notification of infrastructure problems directly to the Highway Department.

**Measurable Goal(s), including frequencies:**

The goal of this program is to provide active citizen participation in detection of illicit discharges to the storm sewer system and problems with drainage features. This program will also aid the MCHD in the detection of illicit discharges and inspection of drainage features.

- Milestones:** **Years 1-3:** The MCHD will create Citizens Report Form with check boxes for reporting illicit discharges and stormwater maintenance problems. Include brief explanations next to each new check box.  
**Years 4-5:** The MCHD will track reports by location and problem and will continue to address problems in a timely manner.
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**BMP No. C.1**

**Brief Description of BMP:**

The MCHD will create a storm sewer map that includes all outfalls and names of all receiving waters within the MCHD ROW.

**Measurable Goal(s), including frequencies:**

The goal of this program is to develop a storm sewer map for the MCHD.

- Milestones:** **Years 1-2:** The MCHD will review existing storm sewer data.  
**Years 3-5:** The MCHD will complete the County Highway storm sewer map.
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**BMP No. C.2**

**Brief Description of BMP:**

The MCHD will amend the Ordinance to prohibit non-stormwater discharges to any drainage system within the MCHD ROW.

**Measurable Goal(s), including frequencies:**

The goal of this program is to eliminate any non-stormwater discharges to the storm sewer system.

- Milestones:** **Years 1-2:** The MCHD will draft Ordinance revision.  
**Years 3-4:** The County Board will approve the Ordinance revision.  
**Year 5:** The MCHD will implement and enforce the Code of Ordinances revision.
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**BMP No. C.2, C.3, C.4, C.5**

**Brief Description of BMP:**

The MCHD will put in place procedures for handling the report of a possible illicit discharge to storm sewer systems. The McHenry County Emergency Services Disaster Agency (MCESDA) responds to hazardous spills. The MCHD will develop a procedure for tracking reports of illicit discharges from the MCESDA and Citizen Report Forms. The proposed enforcement guidelines in the Ordinance will be reviewed to facilitate the elimination of illicit discharges once they are discovered, tracked and investigated.

**Measurable Goal(s), including frequencies:**

The goal of this program is to develop procedure for tracking, investigating and eliminating illicit discharges to the MCHD drainage system.

- Milestones:**
- Year 1:** The MCHD will develop procedure for cataloging all reports of illicit discharges and reports from MCESDA and the proposed Citizen Report Forms.
  - Years 2-3:** The MCHD will develop a procedure for investigating reports of illicit discharges to the drainage system.
  - Years 4-5:** The MCHD will enforce the Ordinance provisions for eliminating illicit discharges once they are reported and investigated.
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**BMP No. D.1,D.2, D.4**

**Brief Description of BMP:**

The MCHD will amend the Ordinance to require sediment and erosion control measures for all construction activities over 1 acre within the MCHD ROW and these measures will be submitted to the MCHD and IEPA. The Ordinance revisions will include a list of references for sediment and erosion control BMPs for guidance.

**Measurable Goal(s), including frequencies:**

The goal of this BMP will be to have all sediment and erosion control measure for developments greater or equal to one acre sent to IEPA.

- Milestones:**
- Years 1-2:** The MCHD will draft Ordinance revision.
  - Years 3-4:** The County Board will approve the Ordinance revision.
  - Year 5:** The MCHD will implement and enforce the Ordinance revision.
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**BMP No. E.2**

**Brief Description of BMP:**

The MCHD will amend Ordinance to require that the site design for construction activities that disturb greater than one acre must have in place controls that would protect water quality and reduce the discharge of pollutants for the life of the project. The MCHD will provide a list of references for stormwater BMPs in the Ordinance for guidance.

**Measurable Goal(s), including frequencies:**

The goal of this BMP will be to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre.

- Milestones:**
- Years 1-2:** The MCHD will draft Ordinance revision.
  - Years 3-4:** The County Board will approve the Ordinance revision.
  - Year 5:** The MCHD will implement and enforce the Ordinance revision.
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**BMP No. E.4**

**Brief Description of BMP:**

The MCHD will revise the engineering plan review procedures to specifically include review of structural and nonstructural stormwater BMPs.

**Measurable Goal(s), including frequencies:**

The goal of this BMP will be to include the review of stormwater BMPs into the review of engineering plans.

**Milestones: Years 1-5:** The MCHD will review stormwater BMPs in engineering plans.

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**BMP No. F.1, F.3**

**Brief Description of BMP:**

The MCHD will develop an education program for employees aimed at reducing or eliminating the discharge of pollutants from MCHD facilities to the drainage system.

**Measurable Goal(s), including frequencies:**

The goal of this BMP will be to educate MCHD employees of current practices that contribute to stormwater pollution and/or to develop new procedures and make revisions to existing procedures that will curtail the discharge of pollutants to drainage systems by MCHD employees.

**Milestones: Year 1:** The MCHD will identify current activities that contribute to the discharge of pollutants to drainage systems from MCHD facilities.  
**Years 2-3:** The MCHD will identify educational material and develop new procedures and/or make revisions to existing procedures that will curtail discharge of pollutants to drainage systems by MCHD employees.  
**Years 4-5:** The MCHD will distribute literature on a yearly basis that includes educational material and/or new procedures and revisions to existing procedures that will eliminate discharge of pollutants to drainage systems by MCHD employees.

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**BMP No. F.2**

**Brief Description of BMP:**

The MCHD will revise their procedures to require routine inspections of ponds, stream channels and storm sewer outfalls within the MCHD ROW once every three years by MCHD staff. Non-routine inspection visits will be required to address comments from residents and the MCESDA reports. Inspection forms will be used for each inspection and a procedure will be developed for tracking inspections. Maintenance will be performed on drainage structures that are not performing as designed.

**Measurable Goal(s), including frequencies:**

The goal of this BMP will be to require inspections of ponds, streams and outfalls once every three years.

**Milestones: Years 1-2:** The MCHD will create the Inspection Forms.  
**Years 3-5:** The MCHD will begin the inspection program. The first round of inspections for all drainage structures should be completed by the end of Year 5.

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Copy and complete this page if additional pages are necessary:

**Attachment 1  
Receiving Streams (Continued)**

**11. Coon Creek**

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**12. Riley Creek**

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**13. South Branch Kishwaukee River**

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**14. North Branch Kishwaukee River**

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**15. Rush Creek**

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**16. Piskasaw Creek**

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**17. West Branch Piskasaw Creek**

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**18. Lawrence Creek**

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**19. Boone Creek**

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## Part V. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for knowingly submitting false information, including the possibility of fine and imprisonment.

Authorized Representative Name and Title

Signature

Date

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**Mail completed form to:**

**ILLINOIS ENVIRONMENTAL PROTECTION AGENCY  
DIVISION OF WATER POLLUTION CONTROL  
ATTN: PERMIT SECTION  
POST OFFICE BOX 19276  
SPRINGFIELD, ILLINOIS 62794-9276**