

**NPDES PHASE II  
MS4 GENERAL PERMIT  
STORM WATER QUALITY MANAGEMENT PLAN  
PART C: PROGRAM IMPLEMENTATION UPDATE**



**HANCOCK COUNTY, INDIANA**

**PERMIT #INR040128**

**OCTOBER 30, 2010**





**NPDES PHASE II MS4  
STORM WATER QUALITY MANAGEMENT PLAN (SWQMP)  
PART C: PROGRAM IMPLEMENTATION UPDATE**

Prepared for:

**Hancock County, Indiana**

Prepared by:

**Christopher B. Burke Engineering, Ltd.  
National City Center, Suite 1368-South  
115 W. Washington Street  
Indianapolis, Indiana 46204**

CBBEL Project Number 03-463

**DISCLAIMER:** Exhibits and any GIS data used within this report are not intended to be used as legal documents or references. They are intended to serve as an aid in graphic representation only. Information shown on exhibits is not warranted for accuracy or merchantability.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**TABLE OF CONTENTS**

	<b><u>Page #</u></b>
<b>1.0 INTRODUCTION</b>	<b>1</b>
<b>2.0 MS4 AREA DESCRIPTION</b>	<b>2</b>
2.1 NARRATIVE DESCRIPTION OF MS4 AREA	2
2.2 DESCRIPTION OF MS4 CONVEYANCE SYSTEMS	2
2.3 PRIORITY WATERSHED RANKING AND CONCERNS	3
<b>3.0 MCM #1 PUBLIC EDUCATION AND OUTREACH</b>	<b>4</b>
<b>4.0 MCM #2 PUBLIC PARTICIPATION AND INVOLVEMENT</b>	<b>5</b>
<b>5.0 MCM #3 ILLICIT DISCHARGE DETECTION AND ELIMINATION</b>	<b>10</b>
<b>6.0 MCM #4 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL</b>	<b>13</b>
<b>7.0 MCM #5 POST-CONSTRUCTION SITE STORMWATER RUNOFF</b>	<b>14</b>
<b>8.0 MCM #6 POLLUTION PREVENTION AND GOOD HOUSEKEEPING</b>	<b>18</b>
<b>9.0 MEASURABLE GOALS APPROACH</b>	<b>23</b>
<b>10.0 PROGRAM COSTS</b>	<b>27</b>
10.1 ANNUAL PART C IMPLEMENTATION COSTS BY MCM	27
<b>11.0 SUMMARY</b>	<b>29</b>
11.1 PROGRAMMATIC INDICATORS	29
11.2 TIMELINE	29
11.3 NEXT STEPS	29

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**LIST OF TABLES**

4-1	Public Education and Outreach & Public Participation and Involvement BMPs	6
5-1	Illicit Discharge Detection and Elimination BMPs	11
7-1	Construction & Post-construction Site Stormwater Runoff Control BMPs	15
8-1	Pollution Prevention and Good Housekeeping BMPs	19
9-1	Measurable Goals Approach Summary	23
10-1	Total Program Costs	28

**LIST OF EXHIBITS**

1. Hancock County MS4 Area

**LIST OF APPENDICES**

- A. References
- B. Acronyms
- C. Listing of Active Industrial Facilities

**SUPPLEMENTAL MATERIAL**

Illicit Discharge Detection and Elimination (IDDE) Plan (bound separately and available to Agencies upon request)

Stormwater Management Ordinance (bound separately and available to Agencies upon request)

# Hancock County, Indiana NPDES Phase II Part C Implementation Plan Update

## 1.0

## INTRODUCTION

As part of the 1987 amendments to the federal Clean Water Act (CWA), the United States Congress added Chapter 402(p) to the CWA to address the water quality impacts of stormwater discharges from industrial facilities and large to medium municipal separate storm sewer systems (MS4s). Large to medium MS4s were defined as communities serving populations of 100,000 or more and are regulated by the Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System's (NPDES) Stormwater Phase I Program.

In addition to these amendments, Congress directed the EPA to issue further regulations to identify and regulate additional stormwater discharges that were considered to be contributing to national water quality impairments. On December 8, 1999, the EPA issued regulations that expanded the existing NPDES Stormwater Program to include discharges from small MS4s in "urbanized areas" serving populations of less than 100,000 and stormwater discharges from construction activities that disturb more than one acre of land. These regulations are referred to as the NPDES Phase II Stormwater Program. The urbanized area portion of Hancock County met these criteria and was consequently designated as an MS4 entity.

In the State of Indiana, the Indiana Department of Environmental Management (IDEM) is responsible for the development and oversight of the NPDES Phase II Program. The IDEM initiated adoption of the Phase II Rules that were ultimately codified as 327 IAC 15-13 (Rule 13). Rule 13 became effective on August 6, 2003 and requires designated MS4 entities to apply for permit coverage by submitting a Notice of Intent (NOI) and developing Stormwater Quality Management Plans (SWQMPs) through a phased submittal process. The IDEM's phased submittal requirements for the SWQMP include the following three components:

- Part A: Initial Application
- Part B: Baseline Characterization Report
- Part C: Program Implementation Plan

During the first permit term, Hancock County's NOI and SWQMP Part A documents were submitted to IDEM on November 5, 2003 and the SWQMP Part B document was submitted to IDEM on May 3, 2004, and the County's original SWQMP Part C was submitted to IDEM on January 3, 2005.

Within the second permit term, Hancock County's renewal NOI and SWQMP Part A were submitted to IDEM on September 5, 2008. This report has been prepared to address Rule 13 requirements for updating the SWQMP Part C: Program Implementation Report. According to 327 IAC 15-13-19(e), "Subsequent permits will require the MS4 operator to maintain, and where possible, improve their performance in implementing the 6 MCMs." It is intended that this updated SWQMP Part C replace the information provided in the originally submitted SWQMP Part C (2005). Portions of this document are highlighted to indicate what information has changed from the development of the 2005 Part C during the first permit term, or where MCMs and/or individual BMPs have been enhanced to improve the overall program performance as intended by 327 IAC 15-13-19(e) noted above.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**2.0**

**MS4 AREA DESCRIPTION**

Rule 13 requires a narrative and mapped description of the MS4 area boundaries and an estimate of the linear feet of MS4 conveyances within the MS4 area. The following discussion provides an evaluation for the municipal stormwater conveyance system within Hancock County's MS4 area. The map of the MS4 area boundaries is shown on **Exhibit 1**.

**2.1 NARRATIVE DESCRIPTION OF MS4 AREA**

Hancock County is located in central Indiana, approximately 30 miles east of Indianapolis, Indiana. The MS4 area covered by this permit includes unincorporated areas surrounding Cumberland, Fortville, Greenfield, McCordsville, New Palestine, and Spring Lake. Spring Lake is an urbanized area community that is conditionally exempt from having to comply with Rule 13 based on low population or no MS4.

The Hancock County MS4 boundary is comprised of four separate polygons, as shown in Exhibit 1. The first and largest polygon starts at the southwest corner of Section 26 Township 15N Range 5E. It goes east to the southeast corner of Section 29 Township 15N Range 6E. It turns north to the northeast corner of Section 17 Township 15N Range 6E. It goes east for one section to the southeast corner of Section 9 Township 15N Range 6E. It follows this section around to its northeast corner and then goes east for one section to the southeast corner of Section 3 Township 15N Range 6E. It goes north to the northeast corner of Section 34 Township 16N Range 6E. It goes west to the northwest corner of Section 34 Township 16N Range 6E and then goes north one section to the northeast corner of Section 28 Township 16N Range 6E. It follows this section all the way around to its southwest corner and then continues one more section south to the northwest corner of Section 4 Township 15N Range 6E. It goes west for two sections to the southeast corner of Section 36 Township 16N Range 5E. It follows this section around to its northwest corner and then goes north to the northeast corner of Section 23 Township 16N Range 5E. It goes west to the northwest corner of Section 23 Township 16N Range 5E and then goes south back where it began at the southwest corner of Section 26 Township 15N Range 5E. There are three city/town boundaries that are not included in this polygon: Cumberland, Spring Lake, and New Palestine.

The second polygon is adjacent to the Town of McCordsville. This polygon touches portions of Sections 13, 24, 25, and 26 of Township 17N Range 5E, excluding all incorporated areas.

The third polygon is adjacent to the Town of Fortville. This polygon includes portions of Sections 9, 10, 11, 15, and 16 of Township 17N range 6E, excluding all incorporated areas.

The fourth polygon consists of the northwest corner of Section 9 Township 17N Range 6E between the section northwestern edges and the Town of Fortville boundary.

**2.2 DESCRIPTION OF MS4 CONVEYANCE SYSTEMS**

Hancock County was required by 327 IAC 15-13-14 to "...develop a storm sewer system map showing the location of all outfalls and MS4 conveyances in the particular MS4 area under the MS4 operator's control and the names and locations of all waters that receive discharges from those outfalls." During the first permit term, "All known conveyance systems with a pipe diameter of 12 inches or larger and open ditches with 2 foot or larger bottom width" were to be mapped. During subsequent permit terms, the remaining outfall conveyance systems need to

## Hancock County, Indiana NPDES Phase II Part C Implementation Plan Update

---

be mapped. These requirements do not include private or mutual drains, yard swales that are not maintained by a regulated MS4 entity, or curbs and gutters.

### **2.3 PRIORITY AREAS AND CONCERNS**

The Rule 13 SWQMP-Part B required the identification of areas having reasonable potential for or actually causing stormwater quality problems based upon relevant land use data and identified sensitive areas, as well as, existing and available water quality data.

The County identified agricultural and urbanizing land uses (in relation to the potential impacts to highly erodible soils, soils unsuitable for septic systems, and wetlands) as potential problem areas in their Part B submittal. In order to address potential water quality impacts associated with agricultural land uses, the County will continue to work with the Hancock County Soil and Water Conservation District (SWCD) to provide education and outreach and assistance to agricultural and suburban landowners.

The County's original Part B (2004) submittal also identified 5 priority watersheds. The County's intent was to focus initial stormwater program implementation within these priority watersheds. However, after further evaluation, the County has determined that all watersheds within the MS4 area will be considered priorities for initial program implementation. This approach will simplify program implementation and should maximize the overall benefit that the stormwater program has on all local receiving waters.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**3.0**

**MCM #1  
PUBLIC EDUCATION AND OUTREACH**

Rule 13 requires that residents, visitors, public service employees, commercial and industrial facilities, and construction site personnel within the MS4 area be informed about the impacts that polluted stormwater runoff can have on water quality and ways they can minimize their impact on stormwater quality. A reasonable attempt must be made to reach all constituents with the MS4 area. The following discussion provides information on Hancock County's MS4 area Public Education and Outreach Program.

Public Education and Outreach BMPs, outlined in **Table 4-1** located in **Section 4.0**, will be implemented by Hancock County in order to comply with the minimum requirements of this MCM. These BMPs have been combined with the BMPs outlined for Public Participation and Involvement (MCM #2) for ease of presentation and discussion. The table provides a summary of the Public Education, Outreach, Participation, and Involvement BMPs to be implemented and identifies the associated measurable goals, programmatic indicator numbers, timelines, priority areas, and responsible parties.

The County's MS4 area, as discussed in Section 2.0, is comprised of both agricultural and urbanizing lands. The County's Public Education, Outreach, Participation, and Involvement Program has therefore been designed to minimize stormwater impacts originating from both urban and rural land uses. This program informs citizens about the impacts of stormwater discharges on waterbodies and steps that can be taken to reduce pollutants in stormwater runoff.

Within Table 4-1, responsible parties are listed for each BMP. To date, the Hancock County Surveyor's Office continues to work closely with the Hancock County Soil and Water Conservation District (SWCD) and the Hancock County Solid Waste Management District (SWMD). Both of these agencies provide public education and outreach services while also playing a major role in the public involvement and participation activities.

Further, the Hancock County Surveyor's Office has entered into a Memorandum of Agreement (MOA) with other MS4 entities within Hancock County for the implementation of Rule 13's MCMs #1 and #2. Those signing the MOA include: Hancock County, Town of Fortville, Town of McCordsville, Town of New Palestine, Town of Cumberland, City of Greenfield, the Hancock County SWCD, and the Hancock County SWMD.

## Hancock County, Indiana NPDES Phase II Part C Implementation Plan Update

---

4.0

### MCM #2 PUBLIC PARTICIPATION & INVOLVEMENT

Rule 13 requires that documented opportunities are given to constituents within the MS4 area to participate in the stormwater management program development and implementation. The MS4 entity must comply with public notice requirements to allow public comment.

Compliance with this MCM requires MS4s to demonstrate that citizens and community members were provided with ample opportunities to participate in the development and implementation of the SWQMP.

Public Participation and Involvement BMPs, outlined in **Table 4-1**, will be implemented by Hancock County in order to comply with the minimum requirements of this MCM. **These BMPs have been combined with the BMPs outlined for Public Education and Outreach (MCM #1) for ease of presentation and discussion.** The Table provides a summary of the Public Education, Outreach, Participation, and Involvement BMPs to be implemented and identifies the associated measurable goals, programmatic indicators, timeline, priority areas, and responsible parties.

Within Table 4-1, responsible parties are listed for each BMP. To date, the Hancock County Surveyor's Office continues to work closely with the Hancock County SWCD and the Hancock County SWMD. Both of these agencies provide public education and outreach services while also playing a major role in the public involvement and participation activities.

**Further, the Hancock County Surveyor's Office has entered into a Memorandum of Agreement (MOA) with other MS4 entities within Hancock County for the implementation of Rule 13's MCMs #1 and #2. Those signing the MOA include: Hancock County, Town of Fortville, Town of McCordsville, Town of New Palestine, Town of Cumberland, City of Greenfield, the Hancock County SWCD, and the Hancock County SWMD.**

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Table 4-1: Public Education and Outreach BMPS & Public Participation and Involvement BMPs**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Clean-up Events</b>	<ul style="list-style-type: none"> <li>County will partner with local agencies or offices to conduct Clean-up Event</li> <li>Clean-up areas will be identified by SWCD and SWMD Offices</li> </ul>	<ul style="list-style-type: none"> <li>Partner, advertise, and conduct one event annually</li> <li>Track using Programmatic Indicators #2 and #3</li> </ul>	Held annually	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>Training for Construction Professionals</b>	<ul style="list-style-type: none"> <li>County will advertise and promote education and training opportunities for local construction and development community</li> </ul>	<ul style="list-style-type: none"> <li>Track using Programmatic Indicator #2</li> </ul>	As opportunities arise	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>Web Site</b>	<ul style="list-style-type: none"> <li>Hancock County Stormwater Management website will continue to be maintained. Updates will include appropriate stormwater program documentation, articles developed, brochures, and calendar updates</li> </ul>	<ul style="list-style-type: none"> <li>Update with new information, as needed</li> <li>Track total number of hits site receives</li> </ul>	Updated as needed	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>Stormwater Survey</b>	<ul style="list-style-type: none"> <li>Provide surveys to partners to be distributed during County Fair, trainings, or other public events as applicable</li> </ul>	<ul style="list-style-type: none"> <li>Surveys will be distributed where appropriate</li> <li>Track response rates from completed surveys using Programmatic Indicator #1</li> </ul>	As opportunities arise	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>Stormwater Educational Brochures</b>	<ul style="list-style-type: none"> <li>Develop 3 brochures addressing:                             <ul style="list-style-type: none"> <li>Restaurants</li> <li>Lawn Maintenance</li> <li>Motor Oil</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Distribute 3 stormwater quality brochures during the 2<sup>nd</sup> permit term</li> <li>Track # of brochures printed and distributed</li> </ul>	On-going distribution	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>SWMD Activities</b>	<ul style="list-style-type: none"> <li>Support SWMD activities to educate school children and community members on the importance of pollution prevention and recycling programs</li> <li>Support SWMD recycling and collection events</li> </ul>	<ul style="list-style-type: none"> <li>Promote on-going SWMD activities as needed</li> <li>Hold 2 recycling and/or collection events per year</li> <li>Track using Programmatic Indicators #3, #10, #11, and #12</li> </ul>	On-going	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>SWCD Activities</b>	<ul style="list-style-type: none"> <li>Support SWCD activities to educate and encourage agricultural producers to use BMPs</li> <li>Support SWCD activities to educate school children and community members on the importance of pollution prevention and recycling</li> </ul>	<ul style="list-style-type: none"> <li>Promote on-going SWCD activities as needed</li> <li>Include stormwater education information in annual “Ag Day” event</li> <li>Include stormwater education in an annual field day</li> <li>Coordinate with Hoosier Riverwatch, IDNR Natural Resources Education Center, and Indiana Department of Agriculture events</li> <li>Track using Programmatic Indicators #1, #2, and #3</li> </ul>	On-going	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>
<b>Local Media Opportunities</b>	<ul style="list-style-type: none"> <li>Include stormwater related information (both agricultural and urban) in articles provided to local media (newsletters, newspapers, websites, etc.) as appropriate</li> </ul>	<ul style="list-style-type: none"> <li>Track number of articles published, topics of each article, and total number of newsletters disseminated</li> </ul>	On-going	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<p style="text-align: center;"><b>Stormwater Management Committee</b></p>	<ul style="list-style-type: none"> <li>• The Committee will coordinate between County agencies and municipalities to identify common goals and implement the stormwater program for MCMs 1 &amp; 2</li> </ul>	<ul style="list-style-type: none"> <li>• Meet as needed to identify ways to target and prioritize program activities as well as provide guidance and program direction</li> <li>• MOA will be reviewed as needed</li> <li>• Track using Programmatic Indicators #2 and #3</li> </ul>	<p style="text-align: center;">On-going</p>	<ul style="list-style-type: none"> <li>• MOA Participants</li> </ul>
<p style="text-align: center;"><b>Rule 13 Public Participation List</b></p>	<ul style="list-style-type: none"> <li>• Update and maintain list of those groups and individuals that would be most likely to have an interest in the County's Stormwater Program</li> <li>• Use Participation list to match volunteers to activities</li> <li>• Develop an email contact list of companies, groups, and individuals interested in participation</li> <li>• Develop spreadsheet to track activities and participants</li> <li>• Solicit volunteers via websites</li> </ul>	<ul style="list-style-type: none"> <li>• Track using Programmatic Indicators #2 and #3</li> </ul>	<p style="text-align: center;">On-going</p>	<ul style="list-style-type: none"> <li>• MOA Participants</li> </ul>
<p style="text-align: center;"><b>Public Meetings</b></p>	<ul style="list-style-type: none"> <li>• An annual report will be presented by the Surveyor's Office at the annual meeting of the SWCD Board and the Hancock County Drainage Board</li> </ul>	<ul style="list-style-type: none"> <li>• Track using Programmatic Indicators #2 and #3</li> </ul>	<ul style="list-style-type: none"> <li>• Annually</li> </ul>	<ul style="list-style-type: none"> <li>• MOA Participants</li> </ul>
<p style="text-align: center;"><b>Storm Drain Marking</b></p>	<ul style="list-style-type: none"> <li>• The Surveyor's Office and SWCD will coordinate storm drain marking events as necessary</li> </ul>	<ul style="list-style-type: none"> <li>• Track using Programmatic Indicators #2, #3, and #4</li> </ul>	<p style="text-align: center;">On-going</p>	<ul style="list-style-type: none"> <li>• MOA Participants</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<p style="text-align: center;"><b>Problems of Concern Form</b></p>	<ul style="list-style-type: none"> <li>Continue to provide “Problems of Concern” form in Surveyor’s Office where residents may file a complaint related to stormwater quality issues</li> </ul>	<ul style="list-style-type: none"> <li>Track citizen complaints obtained in the Problems of Concern form well as any County follow-up responses or actions</li> <li>Track using Programmatic Indicators #3 and #16</li> </ul>	<p>On-going</p>	<ul style="list-style-type: none"> <li>MOA Participants</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**5.0**

**MCM #3**

**ILLCIT DISCHARGE DETECTION AND ELIMINATION**

Rule 13 requires the development and implementation of a strategy to detect and eliminate illicit discharges to the MS4 conveyance, including illegal dumping into the MS4 conveyance. Problem areas must be located via dry weather screening or other means, the source must be determined, illicit connections must be removed or otherwise corrected, and the actions taken must be documented. All active industrial facilities within the MS4 area that discharge into the MS4 conveyance must also be documented. Through an ordinance or other regulatory mechanism, illicit discharges must be prohibited from entering the MS4 conveyances and appropriate enforcement procedures and actions are required.

All public employees, businesses, and the general public must be educated about the hazards associated with illicit discharges and the improper disposal of waste. The educational effort must include informational brochures and guidance for specific audiences and school curricula and the public reporting of illicit discharges and spills. In order to give the public alternatives to improper disposal of wastes, the MS4 entities must initiate or help coordinate existing recycling programs in the MS4 area for commonly dumped wastes, such as motor oil, antifreeze, and pesticides.

The Stormwater Illicit Discharge Detection and Elimination (IDDE) BMPs, outlined in **Table 5-1**, will be implemented by Hancock County in order to comply with the minimum requirements of this MCM. The County's program is designed to gain a thorough awareness of the County's separate storm conveyance system and thereby allowing the identification and elimination of illicit discharges entering the system. The program also establishes the legal, technical, and educational means needed to eliminate illicit discharges.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Table 5-1: Illicit Discharge Detection and Elimination BMPs**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Stormwater System Map</b>	<ul style="list-style-type: none"> <li>To continue mapping efforts, the County will enhance existing MS4 maps with additional details regarding locations, sizes, and types of outfalls as the IDDE Plan is implemented</li> <li>As new areas are developed, any new outfalls and conveyance systems will be added to the map</li> </ul>	<ul style="list-style-type: none"> <li>Track using Programmatic Indicators #5 and #6</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> <li>GIS Department</li> </ul>
<b>IDDE Ordinance</b>	<ul style="list-style-type: none"> <li>The County will periodically review the IDDE language contained in the "Hancock County Stormwater Management Ordinance" for needed updates</li> </ul>	<ul style="list-style-type: none"> <li>Continue to enforce Stormwater Management Ordinance</li> <li>Track using Programmatic Indicator #9</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>IDDE Plan</b>	<ul style="list-style-type: none"> <li>The County will update the IDDE Plan to reflect the proposed actions for illicit discharge detection and elimination in the current permit term</li> <li>The County will continue to implement the IDDE plan to detect, address, and eliminate illicit discharges into the MS4 conveyance system</li> </ul>	<ul style="list-style-type: none"> <li>Track using Programmatic Indicators #7 and #8</li> </ul>	<ul style="list-style-type: none"> <li>The IDDE Plan will be updated in 2010</li> <li>On-going IDDE Plan implementation</li> </ul>	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Pollution Prevention Program</b>	<i>This item, previously listed here, has been discussed within MCMs #1 and #2 in Table 4-1</i>			
<b>Storm Drain Marking</b>	<i>This item, previously listed here, has been discussed within MCMs #1 and #2 in Table 4-1</i>			
<b>SWMD Activities</b>	<i>This item, previously listed here, has been discussed within MCMs #1 and #2 in Table 4-1</i>			

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Annual IDDE, Good Housekeeping, and Pollution Prevention Staff Training</b>	<i>This item, previously listed here, has been moved to the discussion related to MCM #6 in Table 8-1</i>			

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**6.0**

**MCM #4**

**CONSTRUCTION SITE STORMWATER RUNOFF CONTROL**

Rule 13 requires the development of an ordinance or other regulatory mechanism and establishment of a construction program that controls polluted runoff from construction activities that disturb one or more acres of land in the MS4 area. This construction program must include a permitting process, erosion control plan review process, site inspections, and enforcement. The permitting process must include a requirement for the construction project site owner to submit a copy of the permit application directly to IDEM. MS4 entities must provide an opportunity for local SWCD to provide comments and recommendations to the MS4 operator on individual projects.

According to Rule 13, the construction program must include requirements for the implementation of appropriate BMPs on construction sites to control sediment, erosion, and other waste. MS4 entities must review and approve construction plans submitted by the construction site operator before construction activity commences. Procedures must be developed for site inspection and enforcement to ensure that BMPs are properly installed. These procedures must include a means to identify priority sites for inspection and enforcement, as well as a means to receive and consider public inquiries, concerns, and information submitted regarding local construction activities. A tracking process must be implemented in which submitted public information is documented and then given to appropriate staff for follow up. MS4 area personnel responsible for plan review, inspection, and enforcement of construction activities shall receive annual training.

Compliance with this MCM requires MS4s to develop, implement, manage, and enforce an erosion and sediment control program for construction activities that disturb one or more acres of land within the MS4 area. **Table 7.1** in **Section 7.0** provides a detailed description of the Construction and Post-Construction Site Stormwater Runoff Control BMPs to be implemented and identifies the measurable goals, programmatic indicators, timelines, priority areas, and responsible parties. These BMPs have been combined with the Post-Construction Site Stormwater Runoff Control BMPs (MCM #5) for ease of presentation and discussion.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**7.0**

**MCM #5**

**POST-CONSTRUCTION SITE STORMWATER RUNOFF CONTROL**

Rule 13 requires the development of an ordinance or other regulatory mechanism and establishment of a post-construction program that addresses runoff from new development and redevelopment areas that disturb one or more acres of land in the MS4 area. This program must include a permitting process, plan review process, site inspections, and enforcement. MS4 area personnel responsible for plan review, inspection, and enforcement of post-construction BMPs shall receive annual training.

Where appropriate, MS4 entities must use a combination of storage, infiltration, filtering, or vegetative practices to reduce the impact of pollutants in stormwater runoff on receiving waters in areas that are the responsibility of the MS4 entity. A written Operational and Maintenance (O&M) Plan must be developed and implemented for all existing stormwater structural BMPs, which are under the control of the MS4 entity. As new post-construction BMPs are added to areas under the control of the MS4 entity, the O&M Plan must be updated accordingly.

Compliance with this MCM requires MS4s to develop a program for managing Post-Construction Stormwater Runoff Control BMPs that will ensure adequate, long-term stormwater quality benefits in new development and redevelopment activities. Once construction is complete, post-construction practices specified by the MS4 must be implemented to ensure adequate stormwater quality is maintained from the developed site via an enforceable ordinance or other regulatory mechanism. **Table 7-1** provides a summary of the Construction and Post-Construction Site Stormwater Runoff Control BMPs to be implemented and identifies the associated measurable goals, programmatic indicators, timeline, priority areas and responsible parties. These BMPs have been combined with the Construction Site Stormwater Runoff Control BMPs (MCM #4) for ease of presentation and discussion.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Table 7-1: Construction & Post-construction Site Stormwater Runoff Control BMPs**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Erosion and Sediment Control Ordinance</b>	<ul style="list-style-type: none"> <li>The County will periodically review the active construction and post-construction site language contained in the "Hancock County Stormwater Management Ordinance" for needed updates and to ensure compliance with current Rule language</li> </ul>	<ul style="list-style-type: none"> <li>Continue to update and enforce the "Hancock Stormwater Management Ordinance"</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Hancock County Stormwater Technical Standards</b>	<ul style="list-style-type: none"> <li>The County will periodically review the active construction and post-construction site language contained in the "Hancock County Stormwater Technical Standards" for needed updates</li> </ul>	<ul style="list-style-type: none"> <li>Continue to review and approve proposed new and redevelopment projects for compliance with the Stormwater Technical Standards</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Operation &amp; Maintenance (O&amp;M) Manuals</b>	<ul style="list-style-type: none"> <li>The County will continue to require that O&amp;M manuals are to be submitted for all post-construction BMPs identified as part of a project submittal package</li> </ul>	<ul style="list-style-type: none"> <li>Continue to enforce ordinance requirements for O&amp; M plan submittal and plan contents</li> <li>Track using Programmatic Indicator #19</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Plan Review, Site Inspection, and Enforcement</b>	<ul style="list-style-type: none"> <li>The County will continue their review of project plans, conducting site inspections, and actively enforcing their ordinance and technical standards</li> </ul>	<ul style="list-style-type: none"> <li>Continue to review and approve proposed new and redevelopment projects</li> <li>Continue to review 100% of construction plans and inspect sites randomly for compliance</li> <li>Track using Programmatic Indicators #13, #14, #15, #17, #18, #19, and #20</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Staff Training</b>	<ul style="list-style-type: none"> <li>All staff responsible for plan review, site inspection, and enforcement related to construction and post-construction requirements will receive annual training</li> </ul>	<ul style="list-style-type: none"> <li>Continue to provide relevant training to all staff involved in plan review, site inspection, and enforcement requirements for construction and post-construction MCMs</li> <li>Track using Programmatic Indicator #2</li> </ul>	Annually	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Erosion and Sediment Control and Post-construction BMP Tracking Database</b>	<ul style="list-style-type: none"> <li>Continue tracking the status of construction projects, erosion and sediment control activities, and post-construction BMPs</li> <li>Tracking will also be completed for violations, complaints, and public information requests</li> </ul>	<ul style="list-style-type: none"> <li>Continue to track active construction and post-construction project sites</li> <li>Track using Programmatic Indicators #17, #18, and #20</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>
<b>Training for Construction Professionals</b>	<i>This item, previously listed here, has been discussed within MCMs #1 and #2 in Table 4-1</i>			
<b>Procedure for Prioritizing Program Activities</b>	<ul style="list-style-type: none"> <li>Continue inspecting 100% of all active construction sites</li> <li>Continue to re-inspect and follow-up on sites having identified problem areas and/or concerns</li> </ul>	<ul style="list-style-type: none"> <li>Continue to inspect 100% of sites once and follow up with sites having identified problem areas or concerns</li> <li>Track using Programmatic Indicators #14 &amp; #15</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<p style="text-align: center;"><b>Inspection and Enforcement Documentation</b></p>	<ul style="list-style-type: none"> <li>• Continue to complete Hancock County's active construction site inspection forms</li> <li>• <b>Begin documenting inspections of post-construction BMPs</b></li> </ul>	<ul style="list-style-type: none"> <li>• Complete forms for active construction sites and post-construction BMPs inspected</li> <li>• <b>Develop and adopt post-construction program components</b></li> <li>• <b>Enter information into database</b></li> <li>• Track using Programmatic Indicators #14 &amp; #18</li> </ul>	<ul style="list-style-type: none"> <li>• On-going for construction sites</li> <li>• Post-construction tools to ensure compliance will be developed in 2011</li> </ul>	<ul style="list-style-type: none"> <li>• Surveyor's Office</li> </ul>
<p style="text-align: center;"><b>Hancock County Rule 5 Compliance</b></p>	<ul style="list-style-type: none"> <li>• Continue to comply with Rule 5 on all County owned and operated projects that disturb land equal to 1 acre or larger in size</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to comply with Rule 5 on County owned and operated projects</li> </ul>	<p style="text-align: center;">On-going</p>	<ul style="list-style-type: none"> <li>• Highway Department</li> <li>• Surveyor's Office</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**8.0**

**MCM #6**

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING**

Rule 13 requires the development and implementation of a program to prevent or reduce polluted runoff from municipal operations within the MS4 area. The program must include written documentation of maintenance activities, maintenance schedules, and long term inspection procedures for BMPs to reduce floatables and other pollutants discharged from the separate storm sewers.

Controls must be implemented for reducing or eliminating the discharge of pollutants from operational areas, including roads, parking lots, maintenance and storage yards, and waste transfer stations. Written procedures must be developed and implemented for the proper disposal of waste or materials removed from separate storm sewer systems and operational areas. New flood management projects must be assessed via written documentation for their impacts on water quality and existing flood management projects must be examined for incorporation of additional water quality protection devices or practices. Currently, the County does not own or operate any flood control projects. This aspect of the program will be developed should any projects be proposed and installed. MS4 entity employees must be properly trained on various topics such as herbicide and insecticide application and the function of BMPs. Such training must be documented in writing.

**Table 8-1** provides a summary of the Pollution Prevention and Good Housekeeping BMPs to be implemented and identifies the associated measurable goals, programmatic indicators, environmental benefits, timeline, priority areas and responsible parties associated with each BMP. A detailed description of each BMP is provided below.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Table 8-1: Pollution Prevention and Good Housekeeping BMPs**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Maintenance Schedules and Database</b>	<ul style="list-style-type: none"> <li>• Track maintenance activities associated with Good Housekeeping and Pollution Prevention in a database</li> <li>• This will include items such as maintenance on oil/water separators, catch basin inserts, quarterly inspection reports, etc</li> </ul>	<ul style="list-style-type: none"> <li>• Continue tracking maintenance activities and schedules</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Surveyor's Office</li> <li>• Highway Department</li> </ul>
<b>Secondary Containment</b>	<ul style="list-style-type: none"> <li>• Implement secondary containment measures in areas where chemicals are stored</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to implement secondary containment measures where appropriate</li> <li>• Track using Programmatic Indicator #24</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Surveyor's Office</li> <li>• Health Department</li> <li>• Highway Department</li> </ul>
<b>MS4 Conveyance System Maintenance</b>	<ul style="list-style-type: none"> <li>• Continue program to inspect and maintain the County's MS4 conveyance system</li> </ul>	<ul style="list-style-type: none"> <li>• Continue inspection and maintenance program</li> <li>• Prioritize maintenance needs based on inspections and make conveyance systems improvements as funding allows</li> <li>• Track using Programmatic Indicators #26, #27, #28, #29, and #32</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Surveyor's Office</li> <li>• Highway Department</li> </ul>
<b>Street Sweeping Program</b>	<ul style="list-style-type: none"> <li>• The County does not have a street sweeping program. When appropriate, a program will be implemented</li> </ul>	<ul style="list-style-type: none"> <li>• Track using Programmatic Indicator #33 when applicable</li> </ul>	NA	NA

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Salt and Sand Management</b>	<ul style="list-style-type: none"> <li>• Maintain implemented salt and sand BMPs for overall containment and usage</li> <li>• This will include filters placed in stormwater inlets near the salt barns and routine sweeping of the area following loading of vehicles</li> </ul>	<ul style="list-style-type: none"> <li>• Continue to implement salt and sand management BMPs as part of on-going permit activities as budget allows</li> <li>• Track using Programmatic Indicators #30 &amp; #31</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Highway Department</li> </ul>
<b>Snow Disposal Areas</b>	<ul style="list-style-type: none"> <li>• Locate snow piles away from stormwater inlets and conveyances</li> </ul>	<ul style="list-style-type: none"> <li>• Use designated snow disposal areas as needed</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Highway Department</li> </ul>
<b>Spill Prevention and Clean Up</b>	<ul style="list-style-type: none"> <li>• Implement secondary containment as appropriate</li> <li>• Require proper spill clean up and proper disposal of used materials</li> <li>• Ensure that spill kits and relevant materials are located in areas where spills are most likely to occur</li> </ul>	<ul style="list-style-type: none"> <li>• Coordinate with appropriate office or agency to ensure proper disposal of used materials</li> <li>• Utilize quarterly inspection forms to ensure secondary containment and spill kit placement is adequate</li> <li>• Track using Programmatic Indicator #24</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Highway Department</li> <li>• Surveyor's Office</li> </ul>
<b>Vehicle Maintenance Areas</b>	<ul style="list-style-type: none"> <li>• Implement BMPs at all County-owned and operated vehicle maintenance areas</li> </ul>	<ul style="list-style-type: none"> <li>• Continue activities as part of regular good housekeeping practices</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Highway Department</li> </ul>
<b>Wash Water Management</b>	<ul style="list-style-type: none"> <li>• Implement BMPs at all County-owned and operated facilities</li> </ul>	<ul style="list-style-type: none"> <li>• Continue activities as part of regular good housekeeping practices</li> </ul>	On-going	<ul style="list-style-type: none"> <li>• Highway Department</li> <li>• Sheriff Department</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<b>Fertilizer and Pesticide Management</b>	<ul style="list-style-type: none"> <li>Ensure fertilizer and pesticide contractors are certified applicators through the OISC</li> </ul>	<ul style="list-style-type: none"> <li>Utilize contractors certified by OISC</li> <li>Track using Programmatic Indicator #25</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Surveyor's Office</li> <li>Health Department</li> <li>Highway Department</li> </ul>
<b>Canine Park Location</b>	<ul style="list-style-type: none"> <li>Currently, the County does not have any canine parks</li> <li>When proposed, the County will review any projects for Canine Parks to ensure proper location away from waterbodies</li> </ul>	<ul style="list-style-type: none"> <li>Track the number and location of canine parks sited at least one hundred fifty (150) feet away from a surface waterbody</li> <li>Track using Programmatic Indicator #34 when applicable</li> </ul>	NA	NA
<b>Waste Disposal</b>	<ul style="list-style-type: none"> <li>Dispose of waste or materials removed from separate storm systems and operational areas in a proper manner</li> </ul>	<ul style="list-style-type: none"> <li>Determine if waste can be recycled, reused, or disposed of in a landfill</li> <li>Continue to contract with private firms to perform waste disposal on appropriate items</li> <li>Track using Programmatic Indicator #32</li> </ul>	On-going	<ul style="list-style-type: none"> <li>Highway Department</li> </ul>
<b>Flood Management Projects</b>	<ul style="list-style-type: none"> <li>The County still does not own and operate any existing flood management BMPs</li> <li>When proposed, the County will assess new projects for incorporation of water quality devices or practices</li> </ul>	<ul style="list-style-type: none"> <li>Document that all new projects are assessed for incorporation of additional water quality devices or practices</li> </ul>	NA	NA

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

Best Management Practice (BMP)	BMP Description	Measurable Goals, Tracking, and Programmatic Indicators	Timeline	Responsible Party
<p style="text-align: center;"><b>Annual Good Housekeeping, &amp; Pollution Prevention Staff Training</b></p>	<ul style="list-style-type: none"> <li>• Offer annual training to appropriate staff on good housekeeping and pollution prevention topics</li> </ul>	<ul style="list-style-type: none"> <li>• Continue annual training program</li> <li>• Track using Programmatic Indicators #2 and #3</li> </ul>	<p>Annually</p>	<ul style="list-style-type: none"> <li>• Surveyor's Office</li> </ul>
<p style="text-align: center;"><b>Stormwater Pollution Prevention Plans (SWPPPs)</b></p>	<ul style="list-style-type: none"> <li>• Evaluate listing of County owned or operated properties, lots, storage facilities, etc.</li> <li>• Develop additional SWPPPs or SOPs if necessary</li> <li>• Include facility inspection sheets, employee training form, spill documentation</li> </ul>	<ul style="list-style-type: none"> <li>• Utilize SWPPP and sheets to track inspections, training, etc for each facility</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation and SWPPP development will occur in 2010</li> <li>• Additional SWPPPs will be developed as necessary</li> </ul>	<ul style="list-style-type: none"> <li>• Highway Department</li> <li>• Surveyor's Office</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**9.0 RULE 13 MEASURABLE GOALS APPROACH**

The presumptive approach of implementing the Rule 13 program assumes that overall stormwater quality will improve each year by reducing the amounts of pollutants entering the conveyance system. Specific target outreach, reduction goal percentages, compliance goals, and/or implementation goals will be correlated to amounts of BMPs conducted, installed, or implemented, as well as, amounts of material collected from BMPs, and/or plans implemented. For example:

- Specific target outreach can focus on educating either a specific population sector or a pollutant of concern, thereby assuming that a knowledgeable public will be inclined to help reduce their impacts on pollutant loadings.
- Greater constituent participation will result in greater reductions of certain stormwater pollutants.
- When a certain amount of street sweeping material is collected, it is assumed that the unknown total amount of material entering the conveyance system is reduced by the amount collected.

**Table 9-1** highlights the individual MCMs, the Rule 13 language associated with each MCM, and the approach taken by Hancock County to comply with the Rule. Timelines and detailed goals for each BMP will vary and this information can be found in the individual MCM tables in previous sections.

**Table 9-1: Measurable Goals Approach Summary**

MCM	Rule 13 Language	Hancock County Approach
Education/ Outreach  15-13-12(c)	<ul style="list-style-type: none"> <li>• Must identify specific target outreach <b>or</b> reduction goal percentages <b>and</b> timetables</li> <li>• Goals must address relevant targeted audience improvement:                             <ol style="list-style-type: none"> <li>1. Disposal practices</li> <li>2. Cast storm drain cover installations</li> <li>3. School curricula or website implementation</li> <li>4. Outreach to every population sector</li> <li>5. Educational material distribution</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Specific target outreach</b> BMPs: Training for Construction Professionals SWCD Newsletter Articles Website Brochures (Sector &amp; Pollutant specific) SWMD Activities SWCD Activities Local Media Opportunities</li> </ul>
Participation/ Involvement  15-13-13(c)	<ul style="list-style-type: none"> <li>• Must identify specific outreach <b>and</b> reduction goal percentages <b>and</b> timetables</li> <li>• Goals must address relevant community participation in:                             <ol style="list-style-type: none"> <li>1. Citizen panels</li> <li>2. Community clean-ups</li> <li>3. Citizen watch groups and drain marking projects</li> <li>4. Public meeting notification</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Specific outreach</b> BMPs: Clean-up Events Stormwater Survey Stormwater Management Committee Rule 13 Public Participation List Public Meetings Storm Drain Marking Pollution Prevention Program</li> <li>• <b>Reduction goal percentages</b></li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

MCM	Rule 13 Language	Hancock County Approach
		<p><u>Tracking:</u> Tons of trash/debris collected Increase in participation (<i>survey, Committee, listing, meetings, complaints</i>)</p>
<p><b>IDDE</b>  15-13-14(j)</p>	<ul style="list-style-type: none"> <li>• Must identify specific outreach <b>and</b> reduction percentages <b>and</b> timetables</li> <li>• Goals must address relevant:               <ol style="list-style-type: none"> <li>1. Collection system mapping</li> <li>2. Regulatory mechanism implementation</li> <li>3. Employee training</li> <li>4. Household hazardous waste programs</li> <li>5. Illicit discharge detection</li> <li>6. Illicit discharge elimination</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Specific outreach</b> <u>BMPs:</u> Stormwater System Map IDDE Ordinance IDDE Plan Pollution Prevention Program Storm Drain Marking SWMD Activities Staff Training</li> <li>• <b>Reduction percentages</b> <u>Tracking:</u> Outfalls with added information IDDE Ordinance enforcement IDDE Plan activities (<i>screening, follow up, eliminations</i>) Complaints received Drains marked (<i>participants and groups involved</i>) Materials collected by SWMD Staff trained</li> </ul>
<p><b>Construction</b>  15-13-15(h)</p>	<ul style="list-style-type: none"> <li>• Must identify specific outreach, compliance, <b>and</b> implementation goal percentages <b>and</b> timetables</li> <li>• Goals must address relevant:               <ol style="list-style-type: none"> <li>1. Regulatory mechanism implementation</li> <li>2. Public informational request procedure implementation</li> <li>3. Site inspection procedure implementation</li> <li>4. Construction site operator compliance improvement</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>Specific outreach</b> <u>BMPs:</u> Staff Training Training for Construction Professionals</li> <li>• <b>Compliance goals</b> <u>BMPs:</u> Plan review, Site Inspection, and Enforcement BMP Tracking Database Inspection and Enforcement Documentation Hancock County Rule 5 Compliance</li> <li>• <b>Implementation goals</b> <u>BMPs:</u> Ordinance and Technical Standards Procedure for Prioritizing Program Activities</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

<b>MCM</b>	<b>Rule 13 Language</b>	<b>Hancock County Approach</b>
<p>Post-Construction 15-13-16(f)</p>	<ul style="list-style-type: none"> <li>• Must identify specific reduction percentages <b>and</b> timetables</li> <li>• Goals must address relevant:               <ol style="list-style-type: none"> <li>1. Regulatory mechanism implementation</li> <li>2. Planning and structural BMP strategies</li> <li>3. New impervious surface reduction</li> <li>4. Discharge quality improvement</li> </ol> </li> </ul>	<p><u>BMPs:</u> Ordinance and Technical Standards (<i>requires 80% TSS removal</i>) Staff Training BMP Tracking Database Training for Construction Professionals Procedure for Prioritizing Program Activities Inspection and Enforcement Documentation</p> <ul style="list-style-type: none"> <li>• <b>Reduction percentages</b> <u>Tracking:</u> Review of Ordinance and Technical Standards Staff and Construction professionals attending training Development of a Post-Construction inspection and enforcement program, including procedures, forms, and tracking database</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

<b>MCM</b>	<b>Rule 13 Language</b>	<b>Hancock County Approach</b>
<p>Pollution Prevention and Good Housekeeping  15-13-17(c)</p>	<ul style="list-style-type: none"> <li>• Must identify specific reduction percentages <b>and</b> timetables</li> <li>• Goals must address relevant:               <ol style="list-style-type: none"> <li>1. Catch basin cleaning and street sweeping procedures</li> <li>2. Employee training</li> <li>3. Recycling program implementation</li> <li>4. Pesticide, fertilizer, and sand or salt usage reductions</li> <li>5. Floatables reduction</li> <li>6. Maintenance schedule for BMPs</li> </ol> </li> </ul>	<p><b>BMPs</b>            Maintenance Schedules and Database            Secondary Containment            MS4 Conveyance System Maintenance  <i>Street Sweeping Program</i>            Salt and Sand Management            Snow Disposal Areas            Spill Prevention and Clean Up            Vehicle Maintenance Area            Wash Water Management            Fertilizer and Pesticide Management  <i>Canine Park Location</i>            Waste Disposal            Flood Management Projects            Annual Good Housekeeping &amp; Pollution Prevention Staff Training            Stormwater Pollution Prevention Plans</p> <ul style="list-style-type: none"> <li>• <b>Reduction percentages</b>  <b>Tracking:</b>            Information collected from inspection reports (<i>disposal methods, amounts of materials used and disposed of, areas in good standing, etc.</i>)            Tons of material removed from MSS4 Conveyance System            Tons of salt/sand utilized            Spill prevention and clean up materials provided, utilized, and associated training            BMPs implemented in maintenance area and wash area            Quantities of fertilizer/pesticide utilized and OISC certified individuals            Number of trainings held, staff attendance, and topic</li> </ul>

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**10.0**

**PROGRAM COSTS**

Rule 13 requires a summary of the current stormwater budget, expected or actual funding sources, and a projection of the budget for each year within the five (5) year permit term. Resources used for developing and implementing the stormwater program should be documented in order to demonstrate that monies, equipment, and staff are being and will be utilized for the program.

**10.1 ANNUAL PART C IMPLEMENTATION COSTS BY MCM**

This section highlights the cost of implementing the program described in this document. These estimates are taken from the County's SWQMP Part A submitted in September 2008, and are based on the County's experience in implementing their Stormwater Program during the first permit term. These are estimates of what the County may spend on the program and should not be utilized for compliance purposes.

MCM #1 Public Education and Outreach and MCM #2 Public Participation and Involvement: The annual cost to implement these 2 MCMs is estimated to be \$4,200. This funding will be utilized to coordinate education activities and support the development of education materials along with other BMPs listed in Table 4-1.

MCM #3 Illicit Discharge Detection and Elimination: The annual cost to implement this MCM is estimated to be \$4,600. This funding will be utilized to conduct dry weather screening and stormwater outfall mapping efforts.

MCM #4 Construction Site Runoff Control and MCM #5 Post-Construction Stormwater Management: The annual cost to implement these 2 MCMs is estimated to be \$4,000. Funding will be utilized to continue plan review and site inspection procedures and for the promotion of contractor and development community education.

MCM #6 Pollution Prevention and Good Housekeeping: The annual cost to implement this MCM is estimated to be \$3,000. Funding will be utilized to provide Good Housekeeping and Pollution Prevention training programs, to develop a Highway Department SWPPP, and to conduct MS4 Facility Assessments.

Other Costs: In addition to the costs associated with MCMs 1 through 6, there are numerous additional annual costs associated with implementing the County's Stormwater Program. These costs are associated with completing reports, purchasing office supplies and equipment, and the general coordination of the County's Stormwater Program to ensure the program runs as efficiently as possible.

**Table 10-1** summarizes the total program costs as identified above. All funding for this program comes from a combination of general fund and permit fee dollars.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Table 10-1: Total Program Costs\***

	Nov. 2008- Oct. 2009	Nov. 2009- Oct. 2010	Nov. 2010- Oct. 2011	Nov. 2011- Oct. 2012	Nov. 2012- Oct. 2013	Total
Implement MCM1	\$4,200	\$4,200	\$4,200	\$4,200	\$4,200	\$21,000
Implement MCM2						
Implement MCM3	\$4,600	\$4,600	\$4,600	\$4,600	\$4,600	\$23,000
Implement MCM4	\$4,000	\$4,000	\$4,000	\$4,000	\$4,000	\$20,000
Implement MCM5						
Implement MCM6	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
Other	\$4,100	\$16,000	\$4,100	\$4,100	\$4,100	\$32,400
<b>Total</b>	<b>\$19,900</b>	<b>\$31,800</b>	<b>\$19,900</b>	<b>\$19,900</b>	<b>\$19,900</b>	<b>\$111,400</b>

\*The costs identified in this section of the document are estimates on what the County may spend on their Stormwater Program over the next several years. Actual expenditures are likely to vary from those indicated above. The explanation of the stormwater programs and services listed in this section is intended to provide a broad-based overview of the County's program for each MCM and is not a comprehensive explanation of the County's Stormwater Program.

# Hancock County, Indiana NPDES Phase II Part C Implementation Plan Update

## 11.0

## SUMMARY

Implementation of Hancock County's Rule 13 required stormwater quality program will improve the overall quality of stormwater discharges entering into the County's separate storm sewer system. In order to successfully implement the Rule 13 program, the County must pay attention to reporting requirements contained in the programmatic indicators and adhere to the developed time lines.

### 11.1 PROGRAMMATIC INDICATORS

Programmatic Indicators are defined by IDEM as any data collected by an MS4 entity that is used to indicate implementation of one (1) or more minimum control measures. Programmatic Indicators pertain to specific environmental gauges that focus on the impacts of stormwater runoff. IDEM utilizes the Programmatic Indicators to determine the degree of success achieved by the County's stormwater management program. IDEM requires the identification of Programmatic Indicators and that they are grouped by corresponding MCM. IDEM further states that if an indicator is not applicable to the MS4 operator, then the operator shall provide rationale for the nonapplicability.

Hancock County will meet all indicators except Programmatic Indicators 22, 23, 33, and 34. For Programmatic Indicators 22 and 23, the County is not set up to track impervious and pervious areas nor retail gasoline outlets/refueling area storage tanks. For Programmatic Indicators 33 and 34, the County does not have a street sweeping program or any canine parks at this time. All other Programmatic Indicators have been addressed in the tables within previous sections detailing BMPs for each MCM.

### 11.2 TIMELINE

Information related to the timeline for the implementation of each BMP is included within the tables in previous sections outlining each MCM.

### 11.3 NEXT STEPS

As progress is made in implementing Hancock County's Storm Water Quality Management Plan, elements contained in required annual program reports and on-going water quality characterizations will need to be tracked. Rule 13 does provide program flexibility in that if a BMP proves to be ineffective or infeasible, then Hancock County may change their program and incorporate a different BMP.

#### **Annual Reports**

Beginning in the second permit term and going forward, MS4s are required to submit their Annual Reports in the 2<sup>nd</sup> and 4<sup>th</sup> years of the permit term. For the second permit term, Hancock County's Annual Reports will be due on October 30, 2010 and 2012. These Annual Reports must include information from the time the last Annual Report was submitted to the current reporting period. These reports must account for:

- Progress towards development, implementation, and enforcement of all MCMs, including updated programmatic indicator data;
- A summary of complaints received and follow-up investigation results related to stormwater quality issues;
- Updated measurable goals;
- Stormwater BMPs installed or initiated;

## Hancock County, Indiana NPDES Phase II Part C Implementation Plan Update

---

- Follow-up or additional water quality characterization information;
- An updated active industrial facilities list;
- Implementation problems encountered, including BMP changes due to ineffectiveness or infeasibility;
- Funding sources and expenditures;
- Changes to MS4 area boundaries, including land areas added to the MS4 area via annexation or other similar means;
- Identified stormwater quality improvement projects; and
- Updated receiving water information.

### **Monthly Construction Site Activity Reports**

During the previous permit term, monthly construction reports were required to be submitted to IDEM. Despite the submittal waiver, MS4s are still required to document any new permit applications that are received as well as any new notices of termination that are issued. At a minimum documentation must include:

- A list of all construction and post-construction project site names;
- Project site addresses;
- Project site construction duration timeframes; and
- An indication of enforcement actions undertaken.

### **Agency Inspections**

To evaluate Rule 13 permit compliance, IDEM and/or IDNR staff may periodically inspect Hancock County and audit its stormwater program. The MS4 Operator for Hancock County should be prepared to answer questions and provide documentation of program elements. The point of contact for such inspections and audits will be the County Surveyor's Office. The Surveyor's Office may call upon responsible entities identified in the BMP tables for assistance in such inspections and audits. IDEM may request data to facilitate the identification or qualification of pollutants that may be released to the environment from an MS4 conveyance or to determine effectiveness of the MCMs.

### **On-going Water Quality Characterization**

As new water quality information becomes available and updates are made to data sources that were reviewed as part of the County's SWQMP – Part B: Baseline Water Quality Report, Hancock County will review that information, adjust their Rule 13 program accordingly, and include it with their Annual Report submittals.

### **Rule 13 Permit Renewal**

Permit renewal applications are due at least sixty days prior to the expiration date for the Rule 13 permit. Hancock County's renewal will be due in early September, 2013. Permit coverage under the renewal NOI will begin on the date of expiration from the previous five-year permit term. IDEM may reissue permits on a watershed basis, which may change these dates. Subsequent permits will require Hancock County to maintain and, where possible, improve their performance in implementing the six MCMs.

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**Appendix A**

**REFERENCES**

Center for Watershed Protection. MCM Specific Guidance Documents. [www.cwp.org](http://www.cwp.org)

Christopher B. Burke Engineering, Ltd. NPDES Phase II General Permit Application, Stormwater Quality Management Plan, Part B: Baseline Characterization Report, Hancock County, Indiana. May 2004.

Christopher B. Burke Engineering, Ltd. NPDES Phase II General Permit Application, Stormwater Quality Management Plan, Part C: Program Implementation, Hancock County, Indiana. May 2004.

Indiana Department of Environmental Management. 327 IAC 15-13 Final Rule. August 2003.

Indiana Department of Environmental Management. Rule 13 Guidance Document. May 2003.

U.S. EPA – Office of Water. Stormwater Phase II Compliance Assistance Guide. March 2000.

U.S. EPA – Office of Water, Stormwater Phase II Final Rule. January 2000.

U.S. EPA – Office of Water, MS4 Program Evaluation Guidance. January 2007.

Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update

---

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

---

**Appendix B**

**ACRONYMS**

<b>BMP</b>	Best Management Practice
<b>CBBEL</b>	Christopher B. Burke Engineering, Ltd.
<b>CWA</b>	Clean Water Act
<b>EPA</b>	Environmental Protection Agency
<b>GIS</b>	Geographical Information System
<b>GPS</b>	Global Positioning System
<b>IDDE</b>	Illicit Discharge Detection and Elimination
<b>IDEM</b>	Indiana Department of Environmental Management
<b>IDNR</b>	Indiana Department of Natural Resources
<b>MCM</b>	Minimum Control Measure
<b>MS4</b>	Municipal Separate Storm Sewers
<b>NOI</b>	Notice of Intent
<b>NPDES</b>	National Pollution Discharge Elimination System
<b>SWCD</b>	Soil and Water Conservation District
<b>SWMD</b>	Solid Waste Management District
<b>SWQMP</b>	Storm Water Quality Management Plan

Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update

---

**Hancock County, Indiana  
NPDES Phase II Part C Implementation Plan Update**

**Appendix C LISTING OF ACTIVE INDUSTRIAL FACILITIES**

**Active Industrial Facilities in the MS4 Area**

<b>Facility Name</b>	<b>Street Address</b>	<b>Mailing Address</b>	<b>Telephone Number (317)</b>	<b>SIC Code</b>
Armstrong & Son Hauling Svc	6844 W Stinemyer Rd New Palestine, IN 46163	6844 Stinemyer Rd New Palestine, IN 46163	861-6324	4212
Browns Vibratory Feeder Bowl	646 S. 600 W. New Palestine, IN 46163	646 S. 600 W. New Palestine, IN 46163	894-4610	3559
Gem Self Storage LLC	4943 W US Highway 40 Greenfield, IN 46140	4943 W US Highway 40 Greenfield, IN 46140	894-7738	4225
Greenfield Feeders Inc.	3599 W US Highway 40 Greenfield, IN 46140	3599 W US Highway 40 Greenfield, IN 46140	462-6363	3535
Hammons Equipment Co. Inc	3282 W US Highway 40 Greenfield, IN 46140	3282 W US Highway 40 Greenfield, IN 46140	462-0095	4213
Impressions	5839 W US Highway 40 Greenfield, IN 46140	5839 W US Highway 40 Greenfield, IN 46140	894-0492	3993
J & B Storage Inc	5774 W US Highway 52 New Palestine, IN 46163	5774 W US Highway 52 New Palestine, IN 46163	861-8777	4226
TSE Brakes Inc	3511 W US Highway 40 Greenfield IN 46140	3511 W US Highway 40 Greenfield IN 46140	462-7633	4225

(Indiana Chamber of Commerce, verified by Hancock County Surveyor's Office, 2010)