



RULE 13 NOTICE OF INTENT (NOI) LETTER

State Form 51270 (R2 / 10-03)
Form Approved by State Board of Accounts, 2003
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

NOTE:

- This form must be used to apply for a general NPDES permit pursuant to 327 IAC 15-13.
- **Please type or print in ink.**
- This completed form must be submitted with the **Rule 13 Storm Water Quality Management Plan (SWQMP) – Part A: Initial Application Certification Submittal and Checklist**, and proof of publication.
- Return this form, required addenda, and payment by mail to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

For questions regarding this form, contact:

IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
P.O. Box 6015
Indianapolis, IN 46206-6015
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)

Web Access:

<http://www.in.gov/idem/water/npdes/permits/wetwthr/storm/rule13.html>

APPLICABILITY

Permit coverage under 327 IAC 15-13 applies to all entities that:

1. are not required to obtain an individual NPDES permit under 327 IAC 15-2-9(b);
2. meet the general permit rule applicability requirements under 327 IAC 15-2-3;
3. do not have coverage under an individual MS4 permit; and
4. operate, maintain, or otherwise have responsibility for an MS4 conveyance within a designated MS4 area.

APPLICATION TYPE (check one)

- ☐ Initial NOI letter
- ☒ Renewal NOI letter

PART A: GENERAL INFORMATION FOR MS4 OPERATOR

1. Operator Name:	Mayor Douglas B. England		
2. Operator Title:	Mayor of the City of New Albany		
3. Represented Entity ¹ :	City of New Albany		
4. Mailing Address	Address: 311 Hauss Square		
<input checked="" type="checkbox"/> City <input type="checkbox"/> Town	Of: New Albany	Zip: 47150	County: Floyd
5. Phone Number:	812-948-5333		
6. Facsimile Number (if applicable):	812-948-1596		
7. E-mail Address (if applicable):	mayor@cityofnewalbany.com		

PART B: GENERAL INFORMATION FOR PRIMARY CONTACT PERSON FOR THE MS4 AREA

8. Is the primary contact person for the MS4 area the same as the operator listed in Part A?	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No** * If yes, omit items #9-15 below and skip to Part C. ** If no, fill out items #9-15 below.		
9. Contact Person Name:	Brad Kessans		
10. Contact Person Title:	City of New Albany Utility Director		
11. Represented Entity ¹ :	City of New Albany		
12. Mailing Address	Address: 38th West Tenth Street		
<input checked="" type="checkbox"/> City <input type="checkbox"/> Town	Of: New Albany	Zip: 47150	County: Floyd
13. Phone Number:	812-945-5320		
14. Facsimile Number (if applicable):			
15. E-mail Address (if applicable):	bkessans@cityofnewalbany.com		

¹ The "Represented Entity" is the name of the facility and/or organization that you are representing for purposes of this application. This can be a business, municipality, university, etc.

PART C: GENERAL INFORMATION FOR MS4 ENTITIES

- 16. Receiving Water: List all separate storm water outfall receiving waters for all entities seeking coverage under this NOI submittal and corresponding outfall designations.** Attach separate sheets as necessary. If all receiving waters and outfalls are not known at the time of the NOI letter submittal, state known ones and provide the information in the corresponding annual report.

	Entity	Receiving Water	Outfall(s)
a.	City of New Albany	Fall Run (HUC 05140101150020)	2238-1 to 2238-209 (209 Outfalls)
b.	City of New Albany	Jacob's Creek (HUC 05140101140160)	2205-1 to 2205-3 (3 Outfalls)
c.	City of New Albany	Middle Creek (HUC 05140101150040)	2261-1 to 2261-38 (38 Outfalls)
d.	City of New Albany	Middle Creek (HUC 05140101150030)	2284-1 (1 Outfall)
e.	City of New Albany	Ohio River (HUC 05140101150010)	2263-1 to 2263-21 (21 Outfalls)
f.	City of New Albany	Silver Creek (HUC 05140101140170)	2226-1 to 2226-93 (93 Outfalls)
g.			
h.			
i.			
j.			
k.			
l.			
m.			
n.			
o.			
p.			

- 17. Do any outfalls discharge to another MS4 conveyance?** (These conveyances may either be regulated or non-regulated under Rule 13.)
If yes, provide the name of the responsible individual for the storm sewer and provide the name of the initial receiving water.

☐ Yes*☒ No**

* If yes, fill in items #18-22 below.

** If no, omit items #18-22, and advance to item #23 below.

18. Responsible Individual Name:

19. Responsible Individual Title:

20. Responsible MS4 Entity
(e.g. municipality):

21. Phone Number:

22. Initial Receiving Water(s):

- 23. Has a TMDL study been completed on any of the receiving water(s)?** (To determine if a TMDL study has been completed, you may contact IDEM's TMDL program area by phone at 1-317-308-3173.) If yes, note which outfall(s) is subject to effluent limitations and identify the impairment parameter(s) in the table provided below.
(attach separate sheets as necessary)

☐ Yes*☒ No**

* If yes, fill in items a.-m. below.

** If no, omit items a.-m. and advance to Part D.

	Receiving Water	Outfall(s)	Parameter(s)
a.			
b.			
c.			
d.			
e.			
f.			
g.			
h.			
i.			
j.			
k.			
l.			
m.			

PART D: MATERIALS TO BE SUBMITTED WITH THIS NOI LETTER

► In addition to the information in Parts A, B, and C, an MS4 operator must provide the following.

(Check when completed, or check "NA" if an item is not applicable. For the first of the numbered items below, the requirement must be met and "not applicable" is not provided as an option.):

X	NA	ITEM
1) <input checked="" type="checkbox"/>	---	A copy of the Storm Water Quality Management Plan – Part A: Initial Application Certification Submittal and Checklist .
2) <input checked="" type="checkbox"/>	---	Proof of publication in a newspaper of largest circulation in the affected area ¹ .
3) <input checked="" type="checkbox"/>	<input type="checkbox"/>	Certification that appropriate legally-binding agreements or contracts between MS4 entities have been obtained (see APPENDIX A).

PART E: APPLICATION FEE

- Upon submission of this NOI letter, the MS4 Operator shall pay a fee in the amount of fifty dollars (\$50). Make all checks and money orders payable to "IDEM".
- Pursuant to 327 IAC 15, the fee is **NOT**:
 - Transferable from one (1) MS4 operator to another;
 - Transferable from one (1) person to another;
 - Transferable to any other type of permit issued by IDEM; or
 - Refundable.

Unless requested by the MS4 operator and approved by IDEM within three (3) days of submittal to IDEM or prior to the NOI letter processing by IDEM, whichever is earlier.

PART F: CERTIFICATION AND SIGNATURE

- Allow a minimum of four (4) weeks for processing the NOI letter information and receipt of your Notice of Sufficiency.
- Make sure you have completed all appropriate sections of this NOI letter and have included all required addenda. Sign and date the NOI letter and return it to the address shown on page one (1) of this NOI letter. Incomplete or incorrect NOI letters may result in a delay in processing and issuance of your Notice of Sufficiency.
- All information requested in this NOI letter is MANDATORY for the administration and processing of your permit pursuant to 327 IAC 15-13. All data received will be regarded as a public record subject to disclosure in accordance with IC 5-14-3 and 327 IAC 12.1.

► The Operator listed in "Part A: GENERAL INFORMATION FOR MS4 OPERATOR" must sign the following certification statement:

"By signing this NOI letter, I hereby 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 submitting false information, including the possibility of fine and imprisonment for knowing violations."

Type or print Operator Name: Mayor Douglas B. England

Signature of Operator: _____

Douglas B England

Date: _____

08/28/2008
(mm/dd/year)

¹ The notice must be published one (1) time in at least one (1) newspaper of general circulation in each of the counties comprising the MS4 area represented by the entities seeking coverage under this NOI letter submittal. The publication of notice must, at a minimum, include the language specified in 327 IAC 15-13-6(a)(4).

APPENDIX A: LEGALLY-BINDING AGREEMENT/CONTRACT CERTIFICATION FOR IMPLEMENTATION OF A SWQMP

On January 8, 2007 (date),

- | | |
|---|-----------|
| 1. <u>Floyd County Soil and Water Conservation District</u> | 2. _____ |
| 3. _____ | 4. _____ |
| 5. _____ | 6. _____ |
| 7. _____ | 8. _____ |
| 9. _____ | 10. _____ |
| 11. _____ | 12. _____ |

(List entity names above)

Entered into an agreement or contract to satisfy the implementation requirements in Parts B and C of the Storm Water Quality Management Plan (SWQMP).

As stated in the agreement or contract, entities agree to the following responsibilities

Please check the boxes corresponding with responsibilities, or portions thereof, of each entity (entity numbers correspond to entity name numbers listed above) entering into this agreement in the table below.

RESPONSIBILITY	ENTITY											
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
a. Public Education and Outreach	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b. Public Involvement and Participation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c. Illicit Discharge Detection and Elimination	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d. Construction Site Storm Water Run-off Control	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e. Postconstruction Storm Water Management in New Development and Redevelopment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f. Pollution Prevention and Good Housekeeping for Municipal Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g. Baseline Characterization and On-Going Monitoring Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
h. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Specify:												

If any entity(s) is agreeing to accomplish only a portion of an aforementioned responsibility in the table, please elaborate below on the exact responsibility portion (e.g. entity 1 is responsible for storm drain marking in the MS4 area, entity 2 is responsible for conducting behavioral phone surveys for item (a) in the table). Attach separate sheets as needed.

Please see attached Technical Services Agreement between the New Albany Stormwater Board and Floyd County Soil and Water Conservation District.

The following statement and the accompanying signatures serve as the required certification that an agreement or contract has been developed and agreed upon per the requirements of 327 IAC 15-13.

"By signing this certification, I hereby certify under penalty of law that this document and all attachments are, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Entity	Authorized Signature	Date	Entity	Authorized Signature	Date
1.	<u>Matthew L. Hager</u>	<u>8/17/08</u>	2.	_____	_____
3.	_____	_____	4.	_____	_____
5.	_____	_____	6.	_____	_____
7.	_____	_____	8.	_____	_____
9.	_____	_____	10.	_____	_____
11.	_____	_____	12.	_____	_____

TECHNICAL SERVICES AGREEMENT

WHEREAS, the New Albany Stormwater Board, through the City's building commissioner, is responsible for issuing building permits for New Albany; and

WHEREAS, new federal Stormwater Program for Municipal Separate Storm Sewer Systems (MS4) requirements 327 IAC 15-13 require a person seeking to disturb over one (1) acre of soil to obtain certain permits; and

WHEREAS, the Soil and Water Conservation District is organized and existing by virtue of the provisions of I.C. 14-32-1 et seq. to administer the current provisions of Rule 5; and

WHEREAS, the New Albany Stormwater Board has agreed to be responsible for accepting applications for permits required by MS4 requirements; and

WHEREAS, under I.C. 36-1-7-2, Indiana governmental entities that want only to buy, sell or exchange services between or among themselves may enter into contracts to do this without complying with the provisions of I.C. 36-1-7-2 pertaining to interlocal cooperation agreements; and

WHEREAS, the New Albany Stormwater Board desires to use the expertise of the Floyd County Soil and Water Conservation District to perform inspections on the present construction sites, the parties do hereby enter into this Agreement on the 8 day of JANUARY, 2008.

WHEREAS, Owners of new development within the City of New Albany will be responsible for paying user fees to the City of New Albany based on the impervious area of the development.

ARTICLE I

This Agreement shall remain in full force and effect until terminated by either party. Notice of termination shall be in writing and tendered at least 180 days before the date upon which the termination is to occur.

ARTICLE II - PURPOSE

The purpose of this Agreement is to delineate the services to be provided to the New Albany Stormwater Board by the Soil and Water Conservation District (SWCD) of Floyd County.

ARTICLE III - FUNCTIONS PROVIDED BY THE NEW ALBANY STORMWATER BOARD

The New Albany Building Commissioner shall be responsible for providing applications for Stormwater Quality Management Permits. The SWCD shall be responsible for the issuance of Stormwater Quality Management Permits. The New Albany Stormwater Board will provide legal counsel to assist the SWCD in enforcing the terms of any ordinances dealing with Stormwater Quality Management Permits.

ARTICLE IV - RESPONSIBILITIES OF THE SOIL AND WATER CONSERVATION DISTRICT

The SWCD shall inspect all properties that have applied for a Stormwater Quality Management Permit and shall prepare appropriate documentation indicating whether the applicant's property complies with the terms of the MS4 requirements.

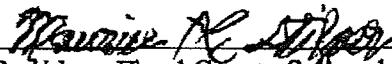
The SWCD shall investigate all complaints made regarding an applicant's compliance with the terms of the permit. Any consultation with the Stormwater Control Liaison and the SWCD shall determine which applicants or permit holders should be referred to the New Albany Stormwater Board for enforcement of the Ordinance. The SWCD shall ensure that all Stormwater Pollution Prevention Plans are reviewed for compliance with local ordinance and Indiana law pertaining to such plans. The SWCD shall also provide education programs for the public regarding MS4 requirements.

ARTICLE V - FINANCING

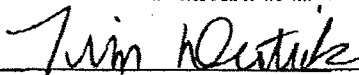
The New Albany Stormwater Board shall, in conjunction with the implementation and adoption of this Agreement, pass a fee schedule for permits as indicated on Exhibit "A". The fees shall be paid into a separate New Albany Stormwater Board Surface and Stormwater Administration Fund. The SWCD shall receive a fee for their services as indicated on Exhibit "B". Any penalties collected in connection with the enforcement of the New Albany Stormwater Quality Ordinance's provisions pertaining to Surface and Stormwater shall be remitted to the New Albany Stormwater Board Surface and Stormwater Administration Fund.

ARTICLE VI - ENFORCEMENT

The SWCD shall be responsible for raising awareness and issuing warnings to the violating Permit holder. The Stormwater Board shall be responsible and have the discretion to determine the appropriate enforcement mechanism should the Permit holder not be responsive to the SWCD warnings. The New Albany Stormwater Board shall be responsible for enforcement of any other actions aside from those which are the subject of this Agreement. Any attorney fees awarded as the result of an enforcement action shall be returned to New Albany or the Stormwater Board.



President, Floyd County Soil and
Water Conservation District



President, New Albany
Stormwater Board



**RULE 13 STORM WATER QUALITY
MANAGEMENT PLAN (SWQMP) -
PART A: INITIAL APPLICATION CERTIFICATION
SUBMITTAL AND CHECKLIST**
State Form 51277 (R2 / 11-03)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:

IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
P.O. Box 6015
Indianapolis, IN 46206-6015
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)
Web Access:
<http://www.in.gov/idem/water/npdes/permits/wetwthr/storm/rule13.htm>

NOTE:

- This form must be used for compliance with a general NPDES permit pursuant to 327 IAC 15-13.
- This completed form must be submitted with a complete NOI letter.
- Return this form, and any required addenda by mail to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

PART A: STORM WATER QUALITY MANAGEMENT PLAN CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met.

X	NA	ITEM
<input checked="" type="checkbox"/>		1. On page 2 of this form (TABLE 1: RESPONSIBLE ENTITY), provide a listing of entities that are covered under the attached NOI letter submittal. Duplicate the table if more entries are necessary and attach to this form.
<input checked="" type="checkbox"/>		2. On page 3 of this form (TABLE 2: SCHEDULE OF ACTIVITIES), provide an itemized schedule of activities related to SWQMP implementation, with a corresponding milestone date. Duplicate the table if more entries are necessary and attach to this form.
<input checked="" type="checkbox"/>		3. At a minimum, the schedule complies with the compliance schedule found in 327 IAC 15-13-11.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. On page 4 of this form (TABLE 3: PROPOSED BUDGET), provide an actual or estimated, proposed, itemized budget for the storm water program. Duplicate the table if more entity entries are necessary and attach to this form.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. For NOI letter submittals covering multiple entities, the budget allocation is separated by each entity covered under this NOI letter submittal.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	6. The budget identifies funding sources.
<input checked="" type="checkbox"/>		7. The "SWQMP – Part A: Initial Application" was submitted within 90 days of Rule 13's effective date or within 180 days of becoming aware of changed entity designation conditions.
<input checked="" type="checkbox"/>		8. The "SWQMP – Part A: Initial Application" has been certified by a Qualified Professional and the MS4 Operator.

PART B: CERTIFICATION AND SIGNATURE

► The Qualified Professional and MS4 Operator (referenced in PART A, Item #8 of this form) must sign the following certification statement and provide the pertinent NPDES permit number:

"By signing this form, I hereby certify under penalty of law that this document was 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 submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name of Qualified Professional: Brad Kessans
(typed or printed)

NPDES Permit #: INR040077

Signature of Qualified Professional: _____

Date: 9/28/08
(mm/dd/year)

Name of MS4 Operator: Mayor Douglas B. England
(typed or printed)

Signature of MS4 Operator: _____

Date: 08/28/08
(mm/dd/year)

TABLE 1: RESPONSIBLE ENTITY

	Represented Entity Name	Entity Representative Name	Entity Representative Title	Mailing Address	Phone Number:	Facsimile Number (if applicable)	E-mail Address (if applicable)
1.	City of New Albany	Mayor Douglas B. England	Mayor	Street address: 311 Hauss Square <input checked="" type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: New Albany Zip: 47150 County: Floyd Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____	812-948-5333		mayor@cityofnewalbany.com
2.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			
3.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			
4.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			
5.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			
6.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			
7.				Street address: _____ <input type="checkbox"/> City <input type="checkbox"/> Town <input type="checkbox"/> Village Of: _____ Zip: _____ County: _____			

TABLE 2: SCHEDULE OF ACTIVITIES

	Milestone Date	Activity Name
1.	Ongoing	MCM 1 Public Education and Outreach: Continue active participation with the Southern Indiana Stormwater Advisory Committee. Continue to publish and distribute stormwater education materials via hard copy and internet. Continue to utilize the Floyd County Soil and Water Conservation District to assist with educational materials, newsletters and events. Continue to coordinate with the Floyd County Solid Waste Management District to educate citizens and expand collection of household hazardous wastes.
2.	Ongoing	MCM 2 Public Involvement and Participation: Continue to implement the following best management practices: stormwater public knowledge / input survey; stormwater hotline for reporting stormwater concerns; continue participation with Floyd County Solid Waste Management District, for household hazardous waste collection; continue public notification of stormwater meetings and events. Continue to utilize the Floyd County Soil and Water Conservation District to staff a stormwater exhibit at one or more events per year. Continue to coordinate with other city departments to further expand citizen involvement and participation.
3.	Ongoing	MCM 3 Illicit Discharge Detection and Elimination: Continue to implement the Stormwater Management: Illicit Discharge Detection and Elimination Ordinance. Continue to update the GIS database with new stormwater infrastructure (collection system, outfalls, post-construction BMPs). Continue to respond to illicit discharge complaints. Continue to implement the IDDE Standard Operating Procedure to screen new outfalls, identify and eliminate illicit discharges. Continue IDDE education for the public and City employees through the stormwater website and publications. Continue to encourage collection of household hazardous waste through the Floyd County Solid Waste Management District.
4.	Ongoing	MCM 4 Construction Site Stormwater Run-off Control: Continue to implement the Stormwater Management: Construction Site Run-off Control Ordinance (i.e., plan review, permit issuance, inspection, enforcement, reporting). Continue to utilize the Floyd County Soil and Water Conservation District to review and approve Stormwater Pollution Prevention Plans, inspect active construction sites and provide site inspection reports. Continue to develop and implement the Qualified Professional Ordinance. Continue construction site stormwater control training and education for City employees and construction industry.
5.	Ongoing	MCM 5 Post-Construction Stormwater Management in New Development and Redevelopment: Continue to implement and assess the Stormwater Management: Post-Construction Run-off Control Ordinance, including post-construction BMP plan review and implement the execution of Long Term Operation and Maintenance Agreements. Continue post-construction stormwater management training and education for the public, construction industry and City employees.
6.	Ongoing	MCM 6 Pollution Prevention and Good Housekeeping: Continue to maintain and clean the stormwater drainage system, street sweeping, leaf and woody debris collections. Continue to reduce discharges from municipal facilities and operations by maintaining municipal fueling station BMPs, minimizing the use of herbicides, pesticides and fertilizers at municipal facilities, storing de-icing salts in covered facilities and minimizing their usage. Continue to train City employees on stormwater pollution prevention.
7.	Ongoing	Ongoing Water Quality Characterization – The City of New Albany will continue to implement the Stream Visual Assessment Protocol to assess stormwater receiving water bodies using a field form that supports collection of field data and GIS locations.
8.	Ongoing	Reporting – The City of New Albany will submit an MS4 program report in Permit Year 2 and Year 4 and monthly construction site reports, as required by 327 IAC 15-13-18.
9.	Ongoing	Part B – Baseline Characterization Report – The City of New Albany will update the Stormwater Quality Management Plan Part B: Baseline Characterization Report to characterize the water quality of known receiving waters, as required by 327 IAC 15-13-7.
10.	Ongoing	Part C – Program Implementation Plan – The City of New Albany will update the Stormwater Quality Management Plan Part C: Program Implementation, as required by 327 IAC 15-13-8.

TABLE 3: PROPOSED BUDGET

↑ ENTITY: City of New Albany

Control Measure/Item		Proposed Budget
1.	Public Education and Outreach	Average Annual Costs: \$12,500; Anticipated 5-year costs: \$62,500
2.	Public Participation/Involvement	Average Annual Costs: \$ 12,000; Anticipated 5-year costs: \$60,000
3.	Illicit Discharge Detection and Elimination	Average Annual Costs: \$30,000; Anticipated 5-year costs: \$150,000
4.	Construction Site Run-Off Control	Average Annual Costs: \$35,000; Anticipated 5-year costs: \$175,000
5.	Post-construction Run-Off Control	Average Annual Costs: \$30,000; Anticipated 5-year costs: \$150,000
6.	Municipal Operations Pollution Prevention and Good Housekeeping	Average Annual Costs: \$ 30,000; Anticipated 5-year costs: \$150,000
7.	On-Going Water Quality Characterization	Average Annual Costs: \$ 6,000; Anticipated 5-year costs: \$30,000
8.	Other	Average Annual Costs: Stormwater Utility Manager and one billing office staff member: \$112,620 salaries and benefits; Capital Improvement Projects: \$579,000; Maintenance Contract Services: \$507,000; Legal services \$24,500; Ordinance and Policy Review: \$8,000.00.
9.	Funding Source(s)	City of New Albany Stormwater Utility User Fee for residential and non-residential properties.

**Proof of
Publication**

PUBLIC NOTICE

The City of New Albany (311 Hauss Square, New Albany, IN 47150) intends to discharge stormwater into Falling Run (HUC #05140101150020), Jacob's Creek (HUC #05140101140160), Middle Creek (#05140101150040) and #05140101150030), Silver Creek-Slate Run (HUC #05140101140170), and the Ohio River (HUC #05140101150010) watersheds, and is submitting a Notice of Intent letter to notify the Indiana Department of Environmental Management of its intent to comply with the requirements under 327 IAC 15-13 to discharge stormwater run-off associated with municipal separate storm sewer systems.

**STATE OF INDIANA
COUNTY OF FLOYD - SS**

Melissa Tolnay On oath says that she is the
bookkeeper of The Tribune and in the employ of the
publisher of

THE TRIBUNE,

a daily newspaper of general circulation printed and
published in the city of New Albany, Floyd County,
State of Indiana, and further says that the annexed
advertisement was published in said paper for #()
time(s) to-wit: In issue of said Tribune
dated: August 15, 22, 2007.

(X) Melissa Tolnay

**STATE OF INDIANA
COUNTY OF FLOYD**

subscribed and sworn to before me this
25TH day of August, 2007.

(X) Joan Galligan
JOAN GALLIGAN

Notary Public, Clark County, Indiana
(My Commission Expires August 27, 2014.)

Publication

Fee \$ 29.54

06518491



**RULE 13 STORM WATER QUALITY
MANAGEMENT PLAN (SWQMP) -
PART B: BASELINE CHARACTERIZATION AND
REPORT CERTIFICATION CHECKLIST**
State Form 51275 (R2 / 11-03)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:

IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
P.O. Box 6015
Indianapolis, IN 46206-6015
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)
Web Access:
<http://www.idem.state.in.us/permits/water/MS4/rule13.html>

NOTE:

- This form must be used for compliance with a general NPDES permit pursuant to 327 IAC 15-13.
- Submit this completed form with a complete "SWQMP – Part B: Baseline Characterization and Report" in accordance with 327 IAC 15-13-7.
- Return this form, and any required addenda by mail to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

PART A: SWQMP CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.

X	NA	ITEM
<input checked="" type="checkbox"/>		1. Plan submitted within one hundred eighty (180) days of the NOI letter submittal or the expiration date of the previous 5-year permit term
		2. Baseline characterization includes:
<input checked="" type="checkbox"/>		a) An investigation of land usage within the MS4 area.
<input checked="" type="checkbox"/>		b) The identification and assessment of structural and nonstructural stormwater BMP locations.
<input checked="" type="checkbox"/>		c) The identification of known sensitive water areas.
<input checked="" type="checkbox"/>		d) A review of known existing and available monitoring data of the MS4 area receiving waters.
<input checked="" type="checkbox"/>		e) The identification of areas having reasonable potential for, or actually causing, stormwater quality problems.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	f) Other (please specify):
		3. Characterization report includes:
<input checked="" type="checkbox"/>		a) Conclusions, such as key observations or monitoring points in the MS4 conveyances, derived from the land usage investigation.
<input checked="" type="checkbox"/>		b) Characterization results of BMP locations and, as appropriate, the structural condition of the BMP, related to the BMP's potential or actual effectiveness in improving storm water quality.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	c) The characterization includes recommendations for placement and implementation of additional BMPs.
<input checked="" type="checkbox"/>		d) Identification of areas, such as public beaches or surface drinking water sources that potentially or actually require added water quality protection considerations.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	e) Any correlative conclusions that can be drawn from a review of existing monitoring data that assists the MS4 Operator in identifying potential or actual stormwater quality problem areas.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	f) The identification of areas or sources potentially or actually causing stormwater quality problems.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	g) Other (please specify):
<input checked="" type="checkbox"/>		4. SWQMP - Part B: Baseline Characterization and Report has been signed by a Qualified Professional and the MS4 Operator.

PART B: CERTIFICATION AND SIGNATURE

► The Qualified Professional and the MS4 Operator (referenced in Part A, Item #4 of this form) must sign the following certification statement and provide the pertinent NPDES permit number:

"By signing this checklist, I hereby certify under penalty of law that this protocol was 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 submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name of Qualified Professional:
(typed or printed)

Brad A. Kessans

NPDES
Permit #:

INR040
077

Signature of Qualified Professional:



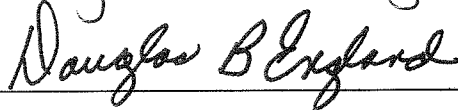
Date:

10/31/08
(mm/dd/year)

Name of MS4 Operator:
(typed or printed)

Douglas B. England

Signature of MS4 Operator:



Date:

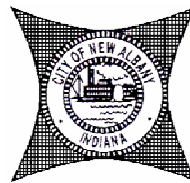
10/31/08
(mm/dd/year)



**City of New Albany
Stormwater Quality Management
Plan
MS4 Permit #: INR040077**

Part B – Baseline Characterization
Report

Prepared for the City of New Albany,
Indiana



November, 2008

Executive Summary

The City of New Albany is located in Floyd County, Indiana and within the larger Louisville, Kentucky metropolitan area. New Albany is the largest city in Floyd County and encompasses approximately 14.6 square miles (9,344 acres). The population of New Albany is approximately 37,600 (2000 census), with a population density of 2,575 people per square mile. For the purposes of this report, the City of New Albany's MS4 area refers to the entirety of the City's corporate boundaries.

The main surface waterbody in the City of New Albany is Silver Creek, which runs along the east boundary of the City and drains into the Ohio River. Jacobs Creek and Slate Run are tributaries of Silver Creek that drain the northern portions of the City. Falling Run drains the western portion of the City, while Middle Creek drains the southwestern portion of the City before emptying into the Ohio River.

During the first MS4 permit term, 353 stormwater outfalls and 1,736,068 feet (328.8 miles) of MS4 conveyances were mapped by the City of New Albany in compliance with Rule 13 (327 IAC 15-13). Mapping edits were completed after the NOI submission date; these data represent an update to the information presented in the NOI. This mapping effort represents 100% of the total stormwater system.

Within the City of New Albany, a number of existing BMPs for stormwater management have been installed through other regulatory programs, but these measures were not documented prior to the City of New Albany's Phase II designation. The City has initiated a Post-Construction Stormwater Quality Plan review to identify and evaluate these BMPs.

The City of New Albany has implemented many different types of non-structural BMPs during the initial permit term, which includes coordinating with the Floyd County Soil and Water Conservation District (SWCD) to distribute newsletters, flyers and brochures concerning various stormwater related topics, as well as maintaining an informational stormwater webpage and implementing storm drain marking projects. The City displays a stormwater quality exhibit at local events, and in coordination with the Floyd County Solid Waste Management District (FCSWMD), has promoted a Household Hazardous Waste (HHW) and automotive fluid collection site. The City also performs regular stormwater system maintenance activities and has implemented a standard operating procedure to address Spill Prevention and Control Countermeasures (SPCC) to reduce discharges from fueling stations and storage facilities.

The City of New Albany has adopted and is enforcing the necessary stormwater ordinances including: the Illicit Discharge Ordinance, the Construction Site Runoff Control Ordinance, and the Post-Construction Stormwater Management Ordinance. The City has also developed and

utilizes a BMP Design Manual, as well as an Illicit Discharge Detection and Elimination Standard Operating Procedure.

In compliance with Rule 13, all project site owners are required to develop construction plans that include appropriate stormwater BMPs as well as an existing project site layout describing the location and name of all wetlands, lakes, and water courses on or adjacent to the project site. Stormwater discharges exposed to industrial activity are regulated under Rule 6 (327 IAC 15-6). Within the City of New Albany, there are twenty-six (26) facilities regulated under Rule 6.

Based on the findings discussed in Chapter 3, the City plans to continue to implement and enhance the MS4 program initiated in permit term one. The following additional BMPs are recommended for consideration during the development of Part C: Stormwater Quality Management Plan for Permit Term Two:

- Formalize and enhance the SVAP monitoring protocol and expand the monitoring program to collect additional data in potentially impacted streams to help distinguish between stormwater, point, and non-point pollution sources. The enhanced SVAP can also be used to identify potential remediation projects, as well as additional priority locations.
- Continue to discover, analyze, design, and execute stormwater capital improvement projects. The City is implementing watershed-based stormwater master planning to assist with identification, prioritization, scheduling, and implementation of capital improvement projects.
- Finalize the development of the Qualified Professional program and implement the plan during Permit Term Two.
- Assess the feasibility for requiring digital submittals of as-builts for all new developments in the City for rapid and efficient stormwater infrastructure tracking, updating, and integrating.
- Incorporate publicly and privately-owned stormwater BMPs into the City of New Albany's GIS in order to facilitate better tracking and monitoring of water quality BMPs.

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1.0 Introduction

1.1 GENERAL INFORMATION

1.1.1 Contact List

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City of New Albany Utility Director
38 West Tenth Street
New Albany, IN 47150
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bkessans@cityofnewalbany.com

1.1.2 Acronym List

BMP	Best Management Practice
CFU	Colony Forming Unit
ERU	Equivalent Residential Unit
HUC	Hydrologic Unit Code
IAC	Indiana Administrative Code
IDEM	Indiana Department of Environmental Management
IDNR	Indiana Department of Natural Resources
MCM	Minimum Control Measure
Mg/l	Milligram per Liter
MOA	Memorandum of Agreement
MS4	Municipal Separate Storm Sewer System
NWI	National Wetland Inventory
ORSANCO	Ohio River Sanitation Commission
POTW	Publicly Owned Treatment Works
QP	Qualified Professional
RBP	Rapid Bioassessment Protocol
SIC	Standard Industrial Code
SOP	Standard Operating Procedure
SPCC	Spill Prevention and Control Countermeasures

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SVAP	Stream Visual Assessment Protocol
SWAC	Storm Water Advisory Committee
SWCD	Soil and Water Conservation District
SWMD	Solid Waste Management District
SWQMP	Storm Water Quality Management Plan
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey
WHPA	Wellhead Protection Area
WHPP	Wellhead Protection Plan

1.2 LOCATION AND DESCRIPTION

The City of New Albany is located in the central portion of southern Indiana along the north shore of the Ohio River and west of Interstate 65. The downtown New Albany area extends along the Ohio River across from Louisville, Kentucky, and is bounded to the north and west by the urbanized area of Floyd County and to the east by Silver Creek and the Town of Clarksville. New Albany is the largest city in Floyd County and encompasses approximately 14.6 square miles (9,344 acres). The population of New Albany is approximately 37,600 (2000 census), with a population density of 2,575 people per square mile. For the purposes of this report, the City of New Albany's Municipal Separate Storm Sewer System (MS4) area refers to the entirety of the City's municipal boundaries as shown on the MS4 Area Map (**Appendix 1**).

The majority of the New Albany MS4 area is an upland plain with topographic elevations ranging from 400 to 900 feet above mean sea level. This area rises out of the Ohio River valley and ascends approximately 300 to 400 feet over a distance of two to three miles onto the more predominant upland plain.

The transitional areas between the broad Ohio River valley and the upland plains lies a physiographic area of knob and kettle topography described as an undulating landscape in which a disordered assemblage of knolls, mounds, or ridges of glacial drift is interspersed with irregular depressions. Within this Knobs region, streams are relatively steep and tend to be located within deeply dissected valleys.

The Knobs region lies along the northwestern fringe of New Albany's MS4 area and includes the primarily undeveloped portions of the City's jurisdiction. As referenced by the City's 1999 Comprehensive Plan, the Knobs region is considered to pose a significant environmental constraint to new development. The City currently requires detailed geotechnical analyses to be completed for any proposed developments to minimize erosion potential and ensure construction feasibility.

Soils in within the City of New Albany's MS4 area are comprised mostly of five (5) different soil series, which are described below.

Beanblossom Series These soils consist primarily of silt and loam overlying siltstone. These soils typically are well drained and have a hydrologic soil group of B.

Coolville Series Soils in this series consist primarily of silt loam and clay over siltstone. These soils are classified as hydrologic soil group C.

Gnawbone Series The Gnawbone Series consists of silt loam and clay over siltstone. Soils belonging to this series classify as hydrologic soil group B.

Kurtz Series The soils in this series consist primarily of silt loam over siltstone. These soils are classified as hydrologic soil group C.

Rarden Series The Rarden Series consists of silty clay loam over shale bedrock. Soils belonging to this series classify as hydrologic soil group C.

1.3 DRAINAGE SYSTEM DESCRIPTION

The watersheds that drain portions of the City of New Albany include Falling Run, Middle Creek, Jacobs Creek, Silver Creek—Slate Run, Ohio River—New Albany, and Ohio River—Louisville. These watersheds are shown on the MS4 Area Map in **Appendix 1**.

The City of New Albany does not have any areas served by combined sewers. Stormwater is collected by catch basins and roadside ditches and transported to the Ohio River. During the first MS4 permit term, 353 stormwater outfalls and 1,736,068 feet (328.8 miles) of MS4 conveyances representing 100% of the stormwater system have been mapped by the City of New Albany in compliance with Rule 13 (327 IAC 15-13). Mapping edits were completed after the NOI submission date; these data represent an update to the information presented in the NOI. Based on visual infrastructure screening conducted during system mapping, 96% (338 of 353) of the mapped outfalls were structurally sound, and 96% (339 of 353) were less than 50% obstructed. The number of MS4 outfalls discharging to each receiving water are shown on **Table 1**.

Table 1. Watersheds in the City of New Albany

Watershed Name	Hydrologic Unit Code	# Mapped MS4 Outfalls in New Albany
Falling Run	05140101150020	204
Jacob's Creek	05140101140160	3
Middle Creek (Floyd)	05140101150040	38
Ohio River—Louisville	05140101150030	1
Ohio River—New Albany	05140101150010	19
Silver Creek—Slate Run	05140101140170	88
	Total	353

Within the City of New Albany, twenty-six (26) facilities hold Rule 6 permits to discharge stormwater from industrial activities (IDEM, 2008a). Twelve (12) of these permits are active or non-exempt (Exemption Status “No”), while fourteen (14) permits are inactive (Exemption Status “Yes”). Permit exemption is typically due to facility closure, ownership change, or coverage under another permit. All facilities holding Rule 6 permits are shown in **Table 2**.

Table 2. Facilities Holding Rule 6 Permits in the City of New Albany

Permit Number	Facility Name	Address	SIC Code	SIC Code Detail	Exemption Status	Reason for Exemption
INR00J015	J&J Pallet Inc.	P.O. Box 0583	2448	Wood Pallets and Skids	No	
INR00W018	W-M Lumber and Wood Products, Inc	228 Galt St.	2498	Wood Products, Not Elsewhere Classified	No	
INR120167	General Mills	707 Pillsbury Lane	2041	Flour and Other Grain Mill Products	No	
INR150001	Forth Technologies, Inc.	20 East 9th Street	2869	Industrial Organic Chemicals, Not Elsewhere Classified	No	
INR200215	Bert R. Huncilman and Son, Inc.	2072 McDonald Avenue	3444	Sheet Metal Work	No	
INR210147	Irving Materials, Inc.	1732 Lincoln Avenue	3273	Ready-Mixed Concrete	No	
INR220081	Stemwood Corporation	2710 Grant Line Road	2421	Sawmills and Planing Mills, General	No	
INR220117	FireKing International, Inc.	900 Park Place	2522	Office Furniture, Except Wood	No	
INR230054	Hitachi Cable Indiana, Inc.	5300 Grant Line Road	3052	Rubber and Plastics Hose and Belting	No	
INR230109	Blue Grass Chemical Specialties, LLC	895 Industrial Blvd.	2899	Chemicals and Chemical Preparations, Not Elsewhere Classified	No	
INR600092	Riverside Recycling Inc.	1001 Floyd Street	5093	Scrap and Waste Materials	No	
INR600184	GEA, Inc. / D. Andres Enterprise	615 State Street	5015	Motor Vehicle Parts, Used	No	
INR00A022	Adams Custom Veneers, Inc.	300 Culbertson Ave.	2431	Millwork	Yes	Terminated
INR00B045	B-Bar-B Corporation	10th & McBeth St	2673	Plastics, Foil, and Coated Paper Bags	Yes	
INR00C168	Conforma Clad-Coatings Division	4201 Reas Lane	3291	Abrasive Products	Yes	
INR00I090	ITAPCO-Kentuckiana Terminal Division	20 Jackson St.	4226	Special Warehousing and Storage, Not Elsewhere Classified	Yes	

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Permit Number	Facility Name	Address	SIC Code	SIC Code Detail	Exemption Status	Reason for Exemption
INR00N005	Northern Star Company Indiana, Inc.	2910 Grant Line Road	2874	Phosphatic Fertilizers	Yes	Facility Closed (4)
INR00P025	Pillsbury Company	707 Pillsbury Lane	2041	Flour and Other Grain Mill Products	Yes	Ownership Change (5)
INR00S140	Sonoco Products Co-CPD	705 Pillsbury Lane	2655	Fiber Cans, Tubes, Drums, and Similar Products	Yes	
INR00T083	Transmontaigne Terminals, Inc.	20 Jackson St.	4226	Special Warehousing and Storage, Not Elsewhere Classified	Yes	Alt NPDES Permit (7)
INR200214	Bert R. Huncilman and Sons, Inc.	115 Security Pkwy	3444	Sheet Metal Work	Yes	No Exposure (2)
INR20X049	Conforma Clad-Machining Division	501 Park East Blvd.	3470	Electroplating, Plating, Polishing, Anodizing, and Coloring	Yes	No Exposure (2)
INR20X214	Bert R. Huncilman and Sons, Inc.	115 Security Pkwy	3444	Sheet Metal Work	Yes	No Exposure (2)
INR230115	Flint Ink North America Corporation - New Albany	800 Industrial Blvd.	2893	Printing Ink	Yes	Facility Closed (3)
INR23X205	Product Specialties, Inc.	2073 McDonald Avenue	3081	Unsupported Plastics Film and Sheet	Yes	No Exposure
INR600049	Bennetts Salvage	1216 Floyd Street	5015	Motor Vehicle Parts, Used	Yes	No Discharge

Source: Indiana Department of Environmental Management, 2008, R. Braun electronic communication.

2.0 Baseline Characterization

In order to effectively evaluate the City of New Albany's stormwater program within the context of the characteristics and activities of the City as a whole, a baseline characterization approach was employed. This baseline characterization evaluated land use data, BMPs, known sensitive areas and available monitoring data to determine actual or potential stormwater quality problem areas in the City of New Albany.

2.1 LAND USE WITHIN THE MS4 AREA

The City of New Albany consists of approximately 14.6 square miles (9,344 acres) of land. The City of New Albany's 1999 Comprehensive Plan states that nearly 50% of existing land uses are dedicated to single and multi-family residential uses. In addition, 20% of the City's land uses are considered to be "environmental uses", which have been defined as areas with steep slopes (Knobs region) and floodplain areas along the Ohio River. Consequently, it has been estimated that less than 10% of the City's buildable land area is open to new construction and development.

Table 3 shows land use acreages within the City of New Albany (USGS, 2001). Though these data are the most current land use data available, recent development is not reflected. Aerial imagery from 2005, shown on the map in **Appendix 1**, better highlights the level of development in the City of New Albany.

Table 3. 2001 City of New Albany Land Use

Category	Acres	Percentage
Low Intensity Residential	2,232.3	23.9%
High Intensity Residential	1,441.0	15.4%
Commercial/Industrial/Transportation	554.7	5.9%
Urban/Recreational Grasses	1,891.4	20.2%
Agriculture	484.0	5.2%
Forest	2,539.8	27.2%
Wetlands/Water	201.2	2.2%
TOTAL	9,344.4	100.0%

Source: Land Cover for Indiana, USGS (2001)

Land use beyond the boundaries of the City of New Albany consists of the Town of Clarksville in Clark County to the east and unincorporated areas of Floyd County to the north and west.

2.2 BEST MANAGEMENT PRACTICES

The following section describes the City's efforts to improve stormwater quality through the MS4 program by implementing the six (6) Minimum Control Measures (MCMs), including structural and non-structural best management practices (BMPs). The 6 MCMs include:

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Stormwater Runoff Controls
5. Post-Construction Stormwater Management

6. Municipal Operations Pollution Prevention and Good Housekeeping

2.2.1 Structural BMPs

The City of New Albany adopted the Post-Construction Stormwater Management Ordinance (Ordinance No. G-06-12) in April of 2006. The program includes plan submittal, review, site inspections, compliance and escalating enforcement authorities as required by Rule 13. This Ordinance includes the post-construction requirements of Rule 5 (327 IAC 15-5) for all projects disturbing one (1) or more acres of land within the City. As part of the Post-Construction Stormwater Management Ordinance, the owners of approved BMPs are required to provide general routine maintenance. BMP owners are also required to maintain a perpetual, non-exclusive easement that allows access for inspection and maintenance.

The City of New Albany adopted a Stormwater BMP Design Manual which includes design specifications and selection guidance for both construction and post-construction BMPs approved for installation by the City. The BMP Manual includes fact sheets that describe BMP operations and maintenance requirements to be implemented by the final BMP owner.

Within the City of New Albany, a number of existing BMPs for stormwater management have been installed through other regulatory programs, but these measures were not documented prior to the City of New Albany's Phase II designation. The City has initiated a Post-Construction Stormwater Quality Plan review to identify and evaluate these BMPs.

2.2.2 Non-Structural BMPs

The City of New Albany has implemented many non-structural BMPs during Permit Term One. Non-structural BMPs included implementation of activities related to MCM 1 Public Education and Outreach and MCM 2 Public Participation and Involvement. The City has maintained a Memorandum of Agreement (MOA) with the Floyd County Soil and Water Conservation District (SWCD) for assistance with implementing MCMs 1 and 2.

The City actively participates in the Southern Indiana Stormwater Advisory Committee (SWAC), which provided a forum for public education, outreach, participation and involvement as well as coordinated implementation of the MS4 program in participating communities. Participating communities currently include: the City of Jeffersonville, the Town of Clarksville, the Town of Sellersburg, Floyd County, the Oak Park Conservancy District, and most recently the City of Madison.

With assistance from the Floyd County SWCD, the City published and distributed stormwater information in newsletters, flyers and brochures focused on educating residents, commercial entities, the construction industry and children. The City has developed and is maintaining a stormwater website (www.newalbanystormwater.com). To assess the effectiveness of the public education program, the City has a stormwater baseline survey posted on the City's stormwater website.

The SWCD educated residents and students about stormwater at several events during the first permit term using stormwater exhibits, presentations at local schools and the annual county fair. The SWCD also initiated a storm drain marking program for volunteers. In coordination with the Floyd County Solid Waste District, the City encouraged and tracked the amount of household hazardous waste collected. Automotive fluids were collected at two (2) drop-off centers, and an event to dispose of expired and unused pharmaceuticals was organized.

The City adopted the Illicit Discharge Ordinance in April 2006 (Ordinance No. G-06-10), which defines and prohibits illicit discharges to the MS4 and establishes an escalating enforcement policy. The City has mapped 100% of the stormwater drainage system, including outfalls and conveyances. The City developed and implemented an Illicit Discharge Detection and Elimination Standard Operating Procedure (SOP) to specify procedures for identifying illicit discharges via a dry weather screening program, conducted in conjunction with MS4 mapping.

The City has educated citizens and trained public employees about the hazards associated with illicit discharges and improper waste disposal. The SWAC hosted a workshop for IDDE which was attended by regulatory agencies, contractors, developers, engineers, public employees and elected officials.

The City adopted the Construction Site Runoff Control Ordinance in April 2006 (Ordinance No. G-06-10) in compliance with Rule 13 and amendments to Rule 5, which govern stormwater runoff associated with construction activity. The City continues to implement this ordinance, which specifies the requirements for submitting stormwater pollution prevention plans (SWPPP), reviewing construction site BMP plans, installing erosion prevention and sediment control BMPs, as well as inspecting sites and implementing enforcement procedures.

The City of New Albany adopted a Stormwater BMP Design Manual, which includes design specifications and selection guidance for both construction and post-construction BMPs approved for installation by the City.

Via a memorandum of agreement (MOA) with the Floyd County SWCD, the City of New Albany reviews construction plans and associated SWPPPs and issues Perimeter Control Permits and Stormwater Quality Management Permits. The Construction Site Runoff Control Ordinance implements additional controls to minimize the impact of construction site wastes on stormwater runoff by requiring appropriate waste management BMPs.

The SWAC, with participation from the City, has offered workshops to the construction industry, public employees, and others regarding the requirements of the Construction Site Runoff Control Ordinance. The BMP Manual and related educational materials have been distributed and are available on the City's stormwater website.

The City of New Albany has implemented many pollution prevention and good housekeeping practices to prevent or reduce pollutant runoff from municipal operations, such as regular stormwater drainage system maintenance and cleaning, street sweeping, and leaf and woody debris collections. Also, controls for reducing discharges from municipal facilities and

operations have been put in place though developing and implementing an SOP to address Spill Prevention and Control Countermeasures (SPCC), minimizing the use of herbicides, pesticides and fertilizers, and minimizing the impact of deicing material storage and utilization. The City is also developing a Pollution Prevention Training and Education program to educate public employees on the impacts that municipal activities have on stormwater quality.

2.3 KNOWN SENSITIVE AREAS

Rule 13 (327 IAC 15-13-7) defines sensitive areas as follows:

- Public swimming areas
- Surface drinking water intakes
- Threatened or endangered species or their habitat
- State outstanding resource waters
- Exceptional use waters

Public Beaches/ Full Body Contact Recreation: There are no beaches or lakes with public swimming or recreational facilities other than enclosed public swimming pools. The City is currently not aware of any locations within the MS4 area where full body contact recreation occurs. Due to the proximity and location of the Ohio River boat launch and outfall as discussed below, this is a priority within the MS4 area.

Surface Drinking Water Intakes: Drinking water sources within the City are derived primarily from groundwater resources. Also, according to the Public Water Supply Information System maintained by the IDEM, the nearest surface water intake on the Ohio River is more than twenty (20) miles downstream of the City of New Albany. Consequently, the protection of surficial drinking water sources is not a priority within the MS4 area.

Threatened Or Endangered Species Or Their Habitat: A list of Threatened, Endangered and Rare Species in Floyd County from the Indiana Department of Natural Resources (IDNR) is found in **Appendix 2**. Information concerning Threatened, Endangered and Rare Species within the City of New Albany is available upon request from IDNR. Since there are no federally threatened or endangered aquatic species, this is not a priority within the MS4 area.

Outstanding Resource Waters: According to the Indiana Department of Natural Resources (IDNR) list of Outstanding Waters (<http://www.in.gov/nrc/policy/outstand.html>), there are no outstanding resources waters within the MS4 area. The protection of Outstanding Resource Waters will not be a priority within the MS4 area.

Exceptional Use Waters: According to IDNR list of Exceptional Use Waters (http://www.in.gov/dnr/water/files/Appdix_F-2.pdf), there are no exceptional use waters within the MS4 area. The protection of Exceptional Use Waters will not be a priority within the MS4 area.

In addition to these sensitive features specifically identified in Rule 13, the City of New Albany also considered wetlands, wellhead protection areas, sinkhole areas and boat launches.

Wetlands: Wetland areas are considered to be environmentally sensitive features and are protected by the Clean Water Act. National Wetland Inventory (NWI) data were used to estimate the extent and locations of wetlands and deepwaters in the City of New Albany. Based on these data, there are 209 acres of wetlands and deepwater habitats in the City, all relatively small, limited and isolated, as shown in **Appendix 1. Table 4** shows the different types of wetlands within the City of New Albany, as classified by the NWI (Cowardin et. al., 1979). The locations and names of all wetlands must be included in construction plans submitted prior to the initiation of construction activities. Wetlands must also be protected from pollutants associated with stormwater runoff as a part of the construction plan's required stormwater quality control measures. The protection of wetlands will continue to be a priority within the MS4 area during Permit Term Two.

Table 4. Types of wetland areas in the City of New Albany.

Type	Acres
Lacustrine (Lake systems)	22.2
Palustrine (Wetland and Marsh systems)	166.3
Riverine (River systems)	20.5
Total	209.0

Source: NWI, 2003.

Wellhead Protection Areas: There are currently no wellhead protection areas (WHPAs) in the City of New Albany. The Indiana American Water Company (IAWC) is the primary drinking water service provider for the majority of southern Indiana, including the City of New Albany. The IAWC relies on groundwater withdrawn from nineteen (19) wells east of the City of New Albany located along the Ohio River corridor within the City of Jeffersonville, Indiana. The protection of WHPAs will not be a priority within the MS4 area during Permit Term Two.

Sinkhole Areas: Sinkholes are of special concern because surface runoff is typically transported rapidly to underground channels without the benefit of filtration through soil. If sinkholes are modified to provide stormwater drainage, they are regulated under the USEPA's Underground Injection Control (UIC) Program. Based on a review of Indiana Geological Survey (IGS) data, there are no sinkhole areas in the City of New Albany. However, sinkhole areas are found adjacent to the City's MS4 Boundary. The protection of sinkhole areas will not be a priority within the MS4 area during Permit Term Two.

Boat Launches: There is one (1) known boat launch within the City of New Albany just east of the I-64 Bridge on East Water Street. Eight (8) MS4 outfalls are on the Ohio River within one (1) mile upstream of the boat launch, while two (2) MS4 outfalls are within one (1) mile downstream of the Water Street boat launch. The protection of boat launches will continue to be a priority within the MS4 area during Permit Term Two.

2.4 EXISTING AND AVAILABLE MONITORING DATA

Rule 13 requires a review of known existing and available monitoring data for the MS4 area receiving waters, including, as applicable, data that can be correlated from chemical, biological, physical, land use, and complaint data. The following discussion provides an evaluation of known and available data for the City of New Albany's MS4 area receiving waters.

Database Review: A search for water quality and related data was performed using publicly accessible reports and databases published by the Indiana Department of Environmental Management (IDEM), Indiana Department of Natural Resources (IDNR), United States Environmental Protection Agency (USEPA), and the United States Geological Survey (USGS). No monitoring data or reports for streams in the City of New Albany were found from IDNR and USEPA. Applicable data and reports published by IDEM and USGS are summarized below.

IDEM Data and Reports: Indiana's 2008 Integrated Water Monitoring and Assessment Report provided an assessment of subwatersheds and listed impaired waterbodies (IDEM, 2008b). One (1) stream segment receiving stormwater discharge from the City of New Albany was listed on the 2008 303(d) List of Impaired Streams. A 6.4 mile segment of Silver Creek in the Silver Creek—Slate Run subwatershed (Assessment Unit INN01EH_T1003) is impaired for mercury and PCBs in fish tissue (see **Appendix 1**). PCBs and mercury are considered legacy pollutants that have been transported to streams from non-stormwater discharges, including direct discharges from industrial facilities or wastewater treatment plants and air deposition. Consequently, streams with these impairments are not likely to be considered a major priority for the City of New Albany's Stormwater Program.

USGS: Physical, chemical and bacterial monitoring data were collected from Silver Creek at Blackiston Mill, Site # OSK140-0007, near the City of New Albany. Five (5) samples were collected during July and August of 2000. Data are summarized in **Table 5** below.

Table 5. Water Quality Data Summary for Silver Creek at Blackiston Mill

Parameter	USGS Data Range	Indiana Water Quality Criterion
Dissolved Oxygen (mg/L)	7.31 to 9.27	Greater than or equal to 4.0
Temperature (Deg C)	25.68 to 27.29	Less than 32.2
pH (SU)	7.84 to 8.22	Between 6.0 and 9.0
Specific Conductivity (µS/cm)	528 to 900	1,200
Turbidity (NTU)	12.35 to 18.62	NA
E. coli (CFU/100mL)	19 to 1,567	Geomean < 125 / 100 ml and no single sample can exceed 576 / 100 ml

Sources: USGS, 2000; 327 IAC 2

These data show acceptable levels of dissolved oxygen, temperature, pH, and conductivity as well as potentially elevated levels of *E. coli*. The geometric mean of the five samples was 66 CFU/100 ml, which is below the Indiana water quality criteria, but one sample exceeded the single sample maximum concentration of 576 CFU / 100 ml.

Wet Weather Impact Study: The Ohio River Sanitation Commission (ORSANCO) performed a Wet Weather Impact Study of the Ohio River in the Louisville/Southern Indiana area, which focused on the sources of bacteria in the Ohio and included an examination of Silver Creek and Mill Creek. The results of the study indicate that tributaries contribute significant bacterial loads to the Ohio River. These findings were primarily based on testing performed in the mixing zone, at the mouth or just downstream of the study tributary. The study did not identify the portion of the bacterial loads to the Ohio River that could be attributed to stormwater discharges from the City of New Albany.

Volunteer Monitoring: A number of volunteer monitoring groups are active in Indiana, many organized as Hoosier Riverwatch. Chemical, biological and habitat data were collected from Fall Run Creek at three (3) sampling locations within the City of New Albany in June of 2001. The data are summarized in **Table 6**.

Table 6. Water Quality Data Summary for Fall Run Creek

Parameter	Floyd County Fairgrounds @ Green Valley Rd	Binford Park 2nd bridge to north	Main Street @ Robert E Lee Park	Indiana Water Quality Criterion
Dissolved Oxygen (ppm)	2	4		Greater than or equal to 4.0
Dissolved Oxygen (%Sat)	20	41		NA
pH (SU)	8	8.23		Between 6.0 and 9.0
5-Day Biological Oxygen Demand (mg/L)	1	1		
Total Phosphorus (mg/L)	0	0		
Nitrate (mg/L)	0	0		10
Turbidity (NTU)	20	11		NA
E. coli (CFU/100mL)	100	100		Geomean < 125 / 100 ml and no single sample can exceed 576 / 100 ml
Pollution Tolerance Score	4	0	3	<10: Poor 11-16: Fair 17-22: Good >23: Excellent
CQHEI (Citizen's Qualitative Habitat Evaluation Index)	59	55	65.5	> 60: Generally conducive to the existence of warmwater fauna >100: High quality stream

Sources: Hoosier Riverwatch, 2008; 327 IAC 2

Stream Visual Assessment Protocol (SVAP): The goal of the SVAP is to provide an efficient and economical solution for On-Going Water Quality Characterization Activities required in the Storm Water Quality Management Plan (SWQMP). In order to gain a better understanding of how the City of New Albany's MS4 impacts the overall quality of nearby surface waters, the City will continue to implement and enhance the SVAP during Permit Term Two. The City of New Albany has implemented a preliminary SVAP and performed inspections on three (3) occasions during Permit Term One. Findings concerning illicit discharge detection are routinely reported to the New Albany Stormwater Board. The City of New Albany continues to collect and evaluate SVAP data. Data gathered from the SVAP are intended to allow the City to detect and eliminate illicit discharges, identify areas that could potentially benefit from maintenance or remediation activities, and identify strategies for improving water quality throughout the City.

During the first permit term, the City reported six (6) potential illicit discharges, four (4) structural issues, three (3) potential maintenance issues, and three additional observations to the New Albany Stormwater Board.

The draft protocol includes visually assessing stream flow, stream channel and riparian zone condition, as well as visual indicators of water pollution such as odor, color, turbidity, excessive algae, and floatables. Stream channels are evaluated for evidence of channel alteration (e.g. straightening), erosion and sediment deposition and the quality of riffle and pool habitats. Riparian zone conditions are evaluated for the presence, extent and quality of riparian vegetation. Data are recorded using standard forms and further documented with digital photographs.

3.0 Findings

3.1 KEY OBSERVATIONS AND FINDINGS

The City of New Albany provides stormwater services in a densely urbanized setting. This continued growth has led to persistent flooding and stormwater related problems. The City has actively implemented the requirements of Rule 13. These efforts have led to the education of citizens, students, the construction industry, elected officials and public employees regarding stormwater and the requirements and benefits of the MS4 program. Adoption and implementation of stormwater ordinances for Illicit Discharge, Construction, and Post-Construction stormwater management have led to efforts to identify and eliminate illicit discharges, improve management of stormwater from construction sites, install post-construction BMPs with Long Term Operation and Maintenance Agreements. Additionally, pollution prevention and good housekeeping procedures have been enhanced at municipal facilities and throughout the community. These activities are expected to improve water quality throughout the City of New Albany.

While the MS4 program has resulted in improvements in stormwater management, available water quality data and reports provide indications that some of the streams in the City may be impacted by water quality issues. IDEM listed a 6.4 mile segment of Silver Creek as impaired due to a fish consumption advisory in place due to elevated levels of mercury and PCBs in fish tissue. The USGS found potentially elevated levels of *E. coli* bacteria in Silver Creek at Blackiston Mill during their 2000 sampling project. Hoosier Riverwatch found potentially low levels of dissolved oxygen, as well as potentially impacted habitats and macroinvertebrate communities in Fall Run Creek during sampling in 2001. ORSANCO's Wet Weather Study indicated that tributaries, including Silver Creek and Mill Creek, contribute to elevated bacteria in the Ohio River. In order to gain a better understanding of how the City of New Albany's MS4 impacts the overall quality of nearby surface waters, data will be evaluated and made available in the future from the Silver Creek Watershed Project monitoring and the City's enhancement of the Stream Visual Assessment Protocol (SVAP).

Diligent implementation of the MS4 program is required to continue and build upon these improvements over the next permit term. The City funds MS4 program implementation and capital improvement projects via an impervious area-based stormwater user fee of \$3.17 per month per equivalent residential unit (ERU).

3.2 RESULTS OF BMP CHARACTERIZATION

Within the City of New Albany, a number of existing BMPs for drainage quantity have been installed through other regulatory programs, but these measures were not documented prior to the City of New Albany's Phase II designation. The City initiated a Post-Construction Stormwater Quality Plan review to identify and evaluate these structural BMPs. Wet detention basins provide reduction in sediment, heavy metals, toxics and floatables as well as partial reductions in nutrients, oxygen demanding substances, oil and grease and bacteria. Dry detention basins provide reduction in sediment and heavy metals as well as partial reductions in toxics and floatables, nutrients, oxygen demanding substances, oil and grease. Both wet and dry detention basins attenuate stormwater flows during a storm event, reducing the velocity and scour potential to the stream.

The City of New Albany has been active in implementing non-structural BMPs. These are described in detail in **Section 2.2.2** and include numerous public education and outreach efforts. The City of New Albany has adopted and is enforcing the necessary stormwater ordinances: the Illicit Discharge Ordinance, the Construction Site Runoff Control Ordinance, and the Post-Construction Stormwater Management Ordinance. The City has also developed a BMP Design Manual, a spill response plan, and a public concern process related to stormwater issues.

3.3 WATER QUALITY PROTECTION CONSIDERATIONS

Wetland areas are considered to be environmentally sensitive features and are protected by the Clean Water Act. Wetlands in and around the City of New Albany are relatively small, and development in these areas complies with all Rule 5 and 13 requirements concerning the identification and protection of wetlands. The locations and names of all wetlands must be included in construction plans submitted prior to the initiation of construction activities. Wetlands must also be protected from pollutants associated with stormwater runoff as a part of the construction plan's required stormwater quality control measures.

3.4 ACTUAL OR POTENTIAL STORMWATER QUALITY PROBLEM AREAS

USGS data collected in 2000 from Silver Creek in the City of New Albany showed potentially elevated levels of *E. coli* bacteria. Hoosier Riverwatch found potentially low levels of dissolved oxygen, as well as potentially impacted habitats and macroinvertebrate communities in Fall Run Creek during sampling in 2001. A study conducted by ORSANCO suggested that tributaries, including Silver Creek and Mill Creek, contribute bacterial loads to the Ohio River. Additional information regarding stormwater quality problem areas will become available through the Silver Creek Watershed Project. The City of New Albany's SVAP efforts have identified potential illicit

discharges, as well as areas in need of maintenance or remediation. In order to gain a better understanding of how the City of New Albany's MS4 impacts the overall quality of nearby surface waters, the City will continue to implement and enhance the SVAP. Data gathered from the SVAP will allow the City to identify remediation and improvement projects under the purview and jurisdiction of the MS4 program.

While the City has required structural BMPs for new developments, flooding and stormwater issues occur at locations throughout the City of New Albany. Efforts to address these issues are underway through initiation of the Stormwater Master Planning project. This project is anticipated to result in identification and long term implementation of additional structural BMPs.

Silver Creek Watershed Project: Under a 319(h) grant, the Clark County Soil and Water Conservation District was awarded funds to develop a watershed plan for Silver Creek. This project includes monthly water quality monitoring at 10 locations in the Silver Creek watershed, including one (1) site near the City of New Albany. Two (2) sets of biological samples will also be collected at these locations. Data are anticipated to be available in 2009.

3.5 SOURCES OF STORMWATER QUALITY PROBLEMS

Available monitoring data for the City's MS4 receiving waters indicate potentially elevated levels of bacteria, potentially low levels of dissolved oxygen, and potentially impacted habitats and macroinvertebrate communities, which are common problems for waterbodies in densely populated areas. Also, growth and development throughout the City has led to flooding and stormwater related problems. Additional information regarding stormwater quality problem areas will become available through the Silver Creek Watershed Project and the City of New Albany's SVAP enhancement efforts. Due to the limited data available, the City can not make an accurate assessment regarding the extent of the water quality issues are MS4 related. Further scrutiny of SVAP data will assist with this evaluation of data.

4.0 Stormwater Program Recommendations: Permit Term Two

Based on the findings discussed in **Chapter 3**, the City plans to continue to implement and enhance the MS4 program initiated in Permit Term One. The following additional BMPs are recommended for consideration during the development of Part C: Stormwater Quality Management Plan for Permit Term Two:

1. Formalize and enhance the SVAP monitoring protocol and expand the monitoring program to collect additional data in potentially impacted streams to help distinguish between stormwater, point, and non-point pollution sources. The enhanced SVAP can also be used to identify potential remediation projects, as well as additional priority locations.

2. Continue to discover, analyze, design, and execute stormwater capital improvement projects. The City is implementing watershed-based stormwater master planning to assist with identification, prioritization, scheduling, and implementation of capital improvement projects.
3. Finalize the development of the Qualified Professional program and implement the plan during Permit Term Two.
4. Assess the feasibility for digital submittals of as-builts for all new developments in the City for rapid and efficient stormwater infrastructure tracking, updating, and integrating.
5. Incorporate publicly and privately-owned stormwater BMPs into the City of New Albany's GIS in order to facilitate better tracking and monitoring of water quality BMPs.

5.0 References

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**RULE 13 STORM WATER QUALITY
MANAGEMENT PLAN (SWQMP) –
PART C: PROGRAM IMPLEMENTATION CERTIFICATION
CHECKLIST**

State Form 51280 (R3 / 4-04)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

For questions regarding this form, contact:

IDEM – Rule 13 Coordinator
100 North Senate Avenue, Rm 1255
Indianapolis, IN 46206-6015
Phone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)

Web Access:

<http://www.idem.state.in.us/swqmp>

NOTE:

- This form must be used for compliance with a general NPDES permit pursuant to 327 IAC 15-13.
- Submit this completed form with a complete "SWQMP – Part C: Program Implementation" in accordance with 327 IAC 15-13-8.
- Return this completed and signed form, and any required addenda by mail to the IDEM Rule 13 Coordinator at the address listed in the box on the upper-right.

PART A: SWQMP CERTIFICATION CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.

X	NA	ITEM
<input checked="" type="checkbox"/>		1. SWQMP – Part C: Program Implementation submitted within 1 year from the submission of the NOI letter or the expiration date of the previous 5-year permit term.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Approved TMDL established for any MS4 discharge receiving water.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	* If yes, the SWQMP – Part C includes appropriate modifications to meet the TMDL
<input checked="" type="checkbox"/>		3. SWQMP – Part C identifies that the required ordinances or similar regulatory mechanisms will be developed, revised, modified, and/or implemented within two (2) years from the submission of the NOI letter
		4. The SWQMP – Part C contains:
<input checked="" type="checkbox"/>		a) An initial evaluation of the storm water program for the MS4 area
<input checked="" type="checkbox"/>		* The initial evaluation includes all known structural and nonstructural storm water BMPs
<input checked="" type="checkbox"/>		b) A detailed program description for each MCM
<input checked="" type="checkbox"/>		c) A timetable for program implementation milestones and SWQMP-Part B conclusions
<input checked="" type="checkbox"/>	<input type="checkbox"/>	d) A schedule for on-going receiving water characterization to evaluate BMP effectiveness and receiving water quality
<input checked="" type="checkbox"/>		e) A narrative and mapped description of the MS4 area boundaries
<input checked="" type="checkbox"/>		*The boundary description includes the specific section(s), or, as appropriate, street name(s)
<input checked="" type="checkbox"/>		f) An estimate of the linear feet of MS4, segregated by conveyance type
<input checked="" type="checkbox"/>		g) A narrative summary of allowed structural BMP types in new development and redevelopment
<input checked="" type="checkbox"/>		h) A summary on structural BMP selection criteria and performance standards
<input checked="" type="checkbox"/>		i) A narrative summary of the current and projected storm water budget
<input checked="" type="checkbox"/>		j) A narrative summary of measurable goals for each MCM
<input checked="" type="checkbox"/>		* Measurable goals relate to an environmental benefit
<input type="checkbox"/>	<input checked="" type="checkbox"/>	k) Appropriate, completed state-issued certification forms (only required for the initial 5-year permit term)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	i) Public education and outreach MCM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ii) Public participation and involvement MCM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	iii) Illicit discharge detection and elimination MCM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	iv) Construction site storm water run-off control MCM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	v) Postconstruction storm water run-off control MCM (not required until end of second year of permit coverage)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	vi) Pollution prevention and good housekeeping for operations MCM
<input checked="" type="checkbox"/>		l) A listing of programmatic indicators for each MCM. These indicators include:
<input checked="" type="checkbox"/>		i) Number or percentage of citizens that have an awareness of storm water quality issues
<input checked="" type="checkbox"/>		ii) Number and description of meetings, training sessions, and events conducted to involve citizens
<input checked="" type="checkbox"/>		iii) Number or percentage of citizens that participate in storm water quality improvement projects
<input checked="" type="checkbox"/>	<input type="checkbox"/>	iv) Number and location of storm drains marked or cast
<input checked="" type="checkbox"/>		v) Estimated or actual linear feet or percentage of MS4 conveyances mapped
<input checked="" type="checkbox"/>		vi) Number and location of MS4 area outfalls mapped
<input checked="" type="checkbox"/>		vii) Number and location of MS4 area outfalls screened for illicit discharges
<input checked="" type="checkbox"/>		viii) Number and location of illicit discharges detected
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ix) Number and location of illicit discharges eliminated
<input checked="" type="checkbox"/>	<input type="checkbox"/>	x) Number of, and estimated amount of material collected from, HHW collections
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xi) Number and location of citizen drop-off centers for automotive fluids

PART A: SWQMP CERTIFICATION CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.

X	NA	ITEM
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xii) Number or percentage of citizens that participate in HHW collections
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xiii) Number of construction sites permitted for storm water quality
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xiv) Number of construction sites inspected
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xv) Number and type of enforcement actions taken against construction site operators
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xvi) Number of public informational requests received related to construction sites
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xvii) Number, type, and location of structural BMPs installed
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xviii) Number, type, and location of structural BMPs inspected
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xix) Number, type, and location of structural BMPs maintained, or improved, to function properly
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xx) Type and location of nonstructural BMPs utilized
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxi) Estimated acreage or square footage of open space preserved and mapped
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxii) Estimated acreage or square footage of mapped pervious and impervious surfaces
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxiii) Number and location of retail gasoline outlets or municipal, state, federal, or institutional refueling areas with installed BMPs
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxiv) Number and location of entity facilities that have containment for accidental releases
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxv) Estimated acreage or square footage and location where pesticides and fertilizers are applied by the regulated MS4 entity
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxvi) Estimated linear feet or percentage and location of unvegetated swales and ditches that have an appropriately-sized vegetated filter strip
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxvii) Estimated linear feet or percentage and location of MS4 conveyances cleaned or repaired
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxviii) Estimated linear feet or percentage and location of roadside shoulders and ditches stabilized
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxix) Number and location of storm water outfall areas remediated from scouring conditions
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxx) Number and location of de-icing salt and sand storage areas covered or otherwise improved to minimize storm water exposure
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxxi) Estimated amount, in tons, of salt and sand used for snow and ice control
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxxii) Estimated amount of material by weight collected from catch basin, trash rack, or other structural BMP cleaning
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxxiii) Estimated amount of material by weight collected from street sweeping
<input checked="" type="checkbox"/>	<input type="checkbox"/>	xxxiv) Number or percentage and location of canine parks sited at least 150 feet away from a surface water body
<input type="checkbox"/>	<input checked="" type="checkbox"/>	xxxv) Other
<input checked="" type="checkbox"/>		5. SWQMP – Part C identifies, as a minimum, the following compliance schedule for implementation from the submission day of the NOI letter:
<input checked="" type="checkbox"/>		a) "SWQMP – Part B: Baseline Characterization and Report" submitted within 180 days
<input checked="" type="checkbox"/>		b) Public education and outreach program developed and implemented within 1 year
<input checked="" type="checkbox"/>		c) Public involvement and participation program developed and implemented within 1 year
<input checked="" type="checkbox"/>		d) Illicit discharge plan and ordinance developed and program implemented and all major outfall conveyances mapped within 1 year
<input checked="" type="checkbox"/>		e) 25% of storm water outfall conveyance systems mapped each year after 1 year
<input checked="" type="checkbox"/>		f) All known storm water outfalls with a diameter greater than 12 inches and open ditches mapped within 5 years
<input checked="" type="checkbox"/>		g) Construction site plan and ordinance developed and program implemented within 1 year
<input checked="" type="checkbox"/>		h) O&M plan developed and program implemented within 2 years
<input checked="" type="checkbox"/>		i) Postconstruction plan and ordinance developed and program implemented within 2 years
<input checked="" type="checkbox"/>		j) Operations pollution prevention program developed and implemented within 1 year
<input checked="" type="checkbox"/>		6. For the Public Education and Outreach MCM:
<input checked="" type="checkbox"/>		a) Plan identifies and schedules implementation of an informational program for constituents
<input checked="" type="checkbox"/>		b) Plan identifies initial assessment of constituents
<input checked="" type="checkbox"/>		c) Plan identifies specific target outreach or reduction goal percentages and timetables
<input type="checkbox"/>	<input checked="" type="checkbox"/>	d) For CSS communities, the current LTCP has been reviewed for ensuring that there is consistency with this MCM
<input checked="" type="checkbox"/>		7. For the Public Participation/Involvement MCM:
<input checked="" type="checkbox"/>		a) Plan identifies and schedules implementation of a public participation program
<input checked="" type="checkbox"/>		b) Plan identifies initial assessment of constituents
<input checked="" type="checkbox"/>		c) Plan identifies specific public involvement and reduction goal percentages and timetables
<input type="checkbox"/>	<input checked="" type="checkbox"/>	d) For CSS communities, the current LTCP has been reviewed for ensuring that there is consistency with this MCM
<input checked="" type="checkbox"/>		8. For the Illicit Discharge Detection and Elimination MCM:
<input checked="" type="checkbox"/>		a) Plan schedules development of a storm sewer system map

PART A: SWQMP CERTIFICATION CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.

X	NA	ITEM
<input checked="" type="checkbox"/>		b) Plan schedules development and implementation of an ordinance or other regulatory mechanism that prohibits illicit discharges into the storm sewer system
<input checked="" type="checkbox"/>		c) Plan identifies and schedules implementation of a plan to detect, address, and eliminate illicit discharges, including illegal dumping, into the storm sewer system
<input checked="" type="checkbox"/>		i) This plan requires that problem areas be located via dry weather screening or other means
<input checked="" type="checkbox"/>		ii) This plan requires that the source of the problem be located, the illicit connection be removed or corrected, and the actions taken be documented
<input checked="" type="checkbox"/>		iii) This plan identifies all known active industrial facilities that discharge into a regulated MS4 conveyance
<input checked="" type="checkbox"/>		d) Plan identifies and schedules implementation of an education program for public employees, businesses, and the general public about the hazards associated with illicit discharges and improper disposal of waste
<input checked="" type="checkbox"/>		e) Plan establishes a recycling program for commonly dumped wastes
<input checked="" type="checkbox"/>		f) Plan identifies specific outreach and reduction goal percentages and timetables
<input type="checkbox"/>	<input checked="" type="checkbox"/>	g) For CSS communities, the current CSOOP and LTCP have been reviewed for ensuring that there is consistency with this MCM
		9. For the Construction Site Storm Water Run-off Control MCM:
<input checked="" type="checkbox"/>		a) Plan schedules development and implementation of an ordinance or other regulatory mechanism that controls polluted run-off from construction sites with a land disturbance of greater than or equal to one (1) acre
<input checked="" type="checkbox"/>	<input type="checkbox"/>	b) Plan established written agreement or process to allow local SWCD input
<input checked="" type="checkbox"/>		c) Plan identifies and schedules implementation of a requirement to use appropriate BMPs on construction sites to control sediment and erosion and other waste at a site
<input checked="" type="checkbox"/>		d) Plan identifies and schedules implementation of procedures for plan review, site inspection (including prioritization of sites) and enforcement of control measures to deter infractions
<input checked="" type="checkbox"/>		e) Plan identifies procedures for plan review of projects operated by the MS4 operator
<input checked="" type="checkbox"/>		f) Plan requires annual training for MS4 personnel responsible for implementing this MCM
<input checked="" type="checkbox"/>		g) Plan identifies and schedules implementation of procedures for receipt and consideration of public inquiries, concerns, and information submitted regarding local construction activities
<input checked="" type="checkbox"/>		h) Plan identifies specific outreach, compliance, and implementation goals and timetables
		10. For the Postconstruction Storm Water Run-off Control MCM:
<input checked="" type="checkbox"/>		a) Plan schedules development and implementation of an ordinance or other regulatory mechanism that requires the implementation of planning procedures to promote improved water quality
<input checked="" type="checkbox"/>	<input type="checkbox"/>	i) Plan procedures include the postconstruction requirements of 327 IAC 15-5-6.5(a)(8)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	ii) Where appropriate, procedures include buffer strip and riparian zone preservation
<input checked="" type="checkbox"/>	<input type="checkbox"/>	iii) Where appropriate, procedures include filter strip creation
<input checked="" type="checkbox"/>	<input type="checkbox"/>	iv) Where appropriate, procedures include minimization of land disturbance and surface imperviousness
<input checked="" type="checkbox"/>	<input type="checkbox"/>	v) Where appropriate, procedures include maximization of open space
<input checked="" type="checkbox"/>	<input type="checkbox"/>	vi) Where appropriate, procedures include directing community physical growth away from sensitive areas and towards areas that can support it without compromising water quality
<input checked="" type="checkbox"/>		b) Plan identifies the use of any storage, infiltration, filtering, and/or vegetative practice to reduce the impact of pollutants on storm water run-off to meet narrative water quality standards on receiving waters
<input checked="" type="checkbox"/>		i) Plan prohibits using infiltration practices in well head protection areas
<input checked="" type="checkbox"/>		ii) As site conditions allow, plan requires an appropriately-sized vegetated filter strip width along unvegetated swales/ditches
<input checked="" type="checkbox"/>		iii) Plan prohibits discharges directly to sinkholes or fractured bedrock, without appropriate treatment to meet Indiana ground water quality standards
<input checked="" type="checkbox"/>		iv) Plan requires any discharge from a storm water practice that is a Class V injection well to meet Indiana ground water quality standards
<input checked="" type="checkbox"/>		v) Plan requires installation of appropriate BMPs to reduce metals and hydrocarbons at new retail gasoline outlets or municipal/institutional refueling areas
<input checked="" type="checkbox"/>		vi) As site conditions allow, plan regulates the rate of storm water flow through the MS4 conveyances
<input checked="" type="checkbox"/>		vii) Plan requires annual training for MS4 personnel responsible for implementing this MCM
<input checked="" type="checkbox"/>		viii) Plan identifies and schedules implementation of a written O&M plan for structural BMPs.
		c) Plan identifies specific goals for reduction percentages and timetables
		11. For the Municipal Operations Pollution Prevention and Good Housekeeping MCM:
<input checked="" type="checkbox"/>		a) Plan identifies and schedules implementation of a written program to ensure that existing municipal, State or Federal operations are performed in ways that will minimize contamination of storm water discharges
<input checked="" type="checkbox"/>		i) Program addresses written documentation of maintenance activities, maintenance schedules, and long-term inspection procedures for BMPs to reduce floatables and other pollutants discharged from the storm sewer system
<input checked="" type="checkbox"/>		ii) Program addresses controls for reducing or eliminating the discharge of pollutants from operational areas, including roads, parking lots, maintenance and storage yards, and waste transfer stations
<input type="checkbox"/>	<input checked="" type="checkbox"/>	iii) Program requires a minimum distance of 150 feet for canine parks to be sited away from a surface water body
<input checked="" type="checkbox"/>		iv) Program addresses written procedures for the proper disposal of waste removed from MS4 conveyances and operational areas
<input checked="" type="checkbox"/>		v) Program addresses written documentation to ensure that new flood management projects assess their impacts on water quality and examine existing projects for incorporation of additional water quality protection devices or practices
<input checked="" type="checkbox"/>		vi) Program addresses documentation for MS4 area personnel to attend annual training regarding this MCM
<input checked="" type="checkbox"/>		b) Plan identifies specific reduction goal percentages and timetables

PART A: SWQMP CERTIFICATION CHECKLIST

► Please check the appropriate box when the requirements for each numbered item have been met, or check "NA" if an item is not applicable. For some of the numbered items, the requirements must be met and "not applicable" is not provided as an option.

X	NA	ITEM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	c) For CSS communities, the current CSOOP and LTCP have been reviewed for ensuring that there is consistency with this MCM
<input checked="" type="checkbox"/>		12. "SWQMP – Part C: Program Implementation" has been certified by a Qualified Professional and the MS4 Operator.

PART B: CERTIFICATION AND SIGNATURE

► The Qualified Professional and MS4 Operator (referenced in Part A, Item #12 of this form) must sign the following certification statement and provide the pertinent NPDES permit number:

"By signing this checklist, I hereby certify under penalty of law that this document was 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 submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name of Qualified Professional:
(typed or printed)

[Signature]

NPDES
Permit #: INR040 77

Signature of Qualified Professional:

[Signature]

Date:

10/31/08
(mm/dd/year)

Name of MS4 Operator:
(typed or printed)

Douglas B. England

Signature of MS4 Operator:

Douglas B England

Date:

10/31/08
(mm/dd/year)

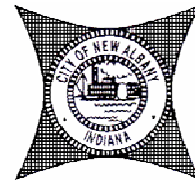


Stantec

**City of New Albany, Indiana
Stormwater Quality Management
Plan**

Part C: Program Implementation Plan
Permit # INR040077

Prepared for the City of New Albany,
Indiana



November, 2008

Acknowledgements

The following individuals and organizations have participated in the development of the City's Stormwater Quality Management Plan:

Mayor
Douglas B. England

New Albany City Common Council

Diane Benedetti
Dan Coffey
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Jeff Gahan
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Stephen Price
Kevin Zurschmiede

New Albany Stormwater Board

Ron Carroll, Chairman
Elizabeth Coyle, Vice-Chairman
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Sanitary Sewer Board

Ron Carroll, Chairman
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Floyd County Soil and Water Conservation District

Kevin Feder, Urban Conservation Specialist

Floyd County Solid Waste District

Warren Nash, Director

Executive Summary

In 1987, amendments to the Clean Water Act (CWA) established a legal framework and requirements for the U.S. Environmental Protection Agency (EPA) to develop a comprehensive, phased program for regulating municipal and industrial stormwater discharges under the National Pollutant Discharge Elimination System (NPDES) permit program. In response, the U.S. Environmental Protection Agency (EPA) instituted Phase I of the NPDES Stormwater Program in November of 1990. The Phase I program required medium to large communities with populations of at least 100,000 people and with municipal separate storm sewer systems (MS4s) to develop programs to address the quality of their stormwater discharges. These amendments to the CWA also placed stormwater management requirements on many industries based upon standard industrial classification (SIC) codes, including stormwater permitting requirements on construction activities that disturbed five or more acres of land.

The NPDES Phase II Stormwater regulations were promulgated in December 1999. The Phase II stormwater requirements affect smaller communities with municipal separate storm sewer systems (MS4s) serving populations of less than 100,000 people, as well as construction activities that disturb one or more acres of land. Only those small MS4s located in “urbanized areas”, as defined by the U.S. Bureau of the Census, are required to apply for a stormwater NPDES permit and develop a Stormwater Quality Management Program (SWQMP). The City of New Albany was designated as a regulated MS4 community.

The designated Stormwater Phase II permitting authority in the State of Indiana is the Indiana Department of Environmental Management (IDEM). IDEM was responsible for developing a rule-making work group to support the agency’s efforts to adopt federally mandated stormwater regulations under 327 IAC 15-13, which is commonly known as “Rule 13”. Rule 13 requires regulated MS4s to apply for permit coverage and develop a SWQMP. Components of the SWQMP include: Notice of Intent, Part A: Initial Application, Part B: Baseline Characterization and Part C: SWQMP Program Implementation Plan. The Stormwater Management Plan must address six Minimum Control Measures, including:

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
6. Pollution Prevention and Good Housekeeping for Municipal Operations

Stormwater Advisory Committee

During Permit Year One, the City of New Albany communicated with neighboring MS4 entities in southern Indiana, including Clark County, Floyd County, the City of Jeffersonville, the Town of Sellersburg, Oak Park Conservancy District, the Town of Clarksville and most recently, the City of Madison. The SWAC was established to maximize consistency and minimize duplication of effort among neighboring MS4 jurisdictions. SWAC membership consisted of key MS4 stakeholders and members of various local constituencies, including members of the public and the construction/development community, as well as local Health Departments and Soil and Water Conservation Districts.

SWAC meetings are used as a forum for receiving and discussing public input and comment on the issues critical to each community's Stormwater Quality Management Plan (SWQMP). The City of New Albany recently hired a Utility Director to serve as the point of contact for the New Albany stormwater program. The City of New Albany's Utility Director will participate in the Southern Indiana Stormwater Advisory Committee (SWAC) and will utilize the Floyd County Soil and Water Conservation District (FCSWCD) to implement activities associated with Public Education and Outreach, Public Involvement and Participation and Construction Site Stormwater Runoff Controls. The approach of hiring a Utility Director has consolidated many stormwater functions that were being implemented by various departments in the City and provides the City with a single point of contact for the Stormwater Program. Similarly, the City hired a City Engineer to support the utility.

Partnerships with the Floyd County Soil and Water Conservation District

The City of New Albany will continue to partner with the Floyd County Soil and Water Conservation District (FCSWCD). The partnership allows the two entities to share resources for the implementation of the SWQMP and the implementation of the six minimum control measures (MCM), with an emphasis on construction site inspection and plan review. This partnership also allows the City of New Albany to utilize and distribute stormwater education materials produced by SWCD in the City. The FCSWCD provides review of Stormwater Pollution Prevention Plans (SWPPPs) and BMP inspection of the City's construction projects.

Partnership with the Floyd County Solid Waste Management District

The City of New Albany will continue to promote the Floyd County Solid Waste Management District (FCSWMD) for household hazardous waste collections. Through this program, materials such as automotive fluids and batteries, household chemicals, and other environmentally harmful products are collected and disposed of properly. The FCSWMD provides data on materials and amounts collected at the end of each calendar year.

Description of the MS4 Area

The City of New Albany is located in the central portion of southern Indiana along the north shore of the Ohio River and west of Interstate 65. The downtown New Albany area extends along the Ohio River across from Metropolitan Louisville, Kentucky, and is bounded by the north and west by the urbanized area of Floyd County and to the east by Silver Creek and the City of Clarksville. New Albany is the largest city in Floyd County and encompasses 14.6 square miles. The population of New Albany is approximately 37,600 (2000 census).

For the purposes of this report, the City of New Albany's MS4 area refers to the entirety of the City's municipal boundaries as illustrated in **Figure 1**.



Figure 1: City of New Albany, Indiana Location Map.

Evaluation of the Stormwater Program

Prior to submittal of the Notice of Intent (NOI) and the Part A: Initial Application, the City of New Albany conducted an evaluation of its stormwater management activities to evaluate its needs for compliance with Rule 13. This assessment found that the City of New Albany is in compliance with provisions of Rule 13 and has accomplished significant improvements in stormwater management during the first permit term. Key accomplishments through 2007 are summarized below.

MCM 1 – Public Education and Outreach

The Floyd County Soil and Water Conservation District (FCSWCD) and the City of New Albany developed stormwater public education publications that were distributed throughout the community and provided access to it through the FCSWCD webpage. Issues of the Floyd County Stormwater newsletter were published and distributed to all 8,600 households in the City of New Albany two (2) times during 2007.

In addition, the New Albany Stormwater Board developed a newsletter, ***Stormwater Matters***, that is sent to elected officials, local schools, and citizens that express an interest to receive the newsletter. In addition, the newsletter is handed out at community festivals and local neighborhood events.

The City of New Albany has a website; accessible through this site are developed educational materials regarding the stormwater utility, flood insurance information, illicit discharges and other components of the MS4 program.

MCM 2 – Public Involvement and Participation

Public participation and involvement are encouraged through a water quality educational exhibit displayed at the Floyd County Fair where Mr. Kevin Feder, Urban Conservation Specialist, of the SWCD represented the City of New Albany. Additionally, Mr. Feder reached eighty (80) students at Prosser School of Technology, focusing on construction site erosion controls. The Floyd County SWCD also developed a website to educate residents about stormwater quality issues.

In addition, the City of New Albany' Stormwater Board developed a website (www.newalbanystormwater.org) to educate residents and the general public about stormwater quality issues. An original goal of achieving 1,000 website visits in 2005 and a 5% increase in website visits in subsequent years was set and has been exceeded, with 9,719 residents visiting the site between May and December of 2007.

MCM 3 – Illicit Discharge Detection and Elimination

In order to develop a geographic information system (GIS) that describes the connections between MS4 components, conveyance system mapping included pipes and ditches that were smaller than those required to be mapped under Rule 13. The City completed mapping in 2008.

The City of New Albany has provided IDDE training for City employees, including the drainage crew, construction crews, and the fire department. Through the SWAC partnership, the City also provided a training session that was publicly noticed and conducted at Kye's Water Tower Square in Jeffersonville, Indiana. The City has provided training for the street department, maintenance garage, and the stormwater utility maintenance staff.

MCM 4 – Construction Site Stormwater Runoff Controls

The City of New Albany continues to perform plan reviews on construction sites in the City. The City does have in place the Construction Site Runoff Control Ordinance to address construction activities when they occur. A link to this ordinance can be found on the New Albany Stormwater Utility Website.

A Qualified Professional Training Program, being developed with SWAC collaboration, is in the final stages of development. The program is designed to train individuals in erosion prevention and sedimentation control measures to enable them to be competent for self-inspections for construction sites. The program includes a certification and licensure process similar to that of a licensed plumber in Indiana. This program includes training sessions as well as fulfilling requirements for testing.

MCM 5 – Post-Construction Stormwater Management

The City of New Albany's Post-Construction Stormwater Management Program was established via Ordinance G-06-12 in April 2006. The program began implementation in 2006 and included appropriate plan submittal, plan review, site inspections, compliance, and enforcement authorities required by Rule 13.

MCM 6 – Municipal Operations Pollution Prevention and Good Housekeeping

The City of New Albany is actively using its street sweeper. The sweeper is operated throughout the City of New Albany, sweeping approximately 1,000 hours annually. The City of New Albany consistently sweeps major roads and thoroughfares and conducts periodic street sweeping in other areas, on an as-needed basis.

Baseline Characterization and MS4 Priority Areas

The main surface waterbodies in the City of New Albany include Silver Creek, which forms the west boundary of the City and drains into the Ohio River. Plum Run is a tributary of Silver Creek that drains the northern portion of the City, while Mill Creek and Cane Run Creek drain the southern portion of the City before emptying into the Ohio River.

During the first MS4 permit cycle, 353 stormwater outfalls and 1,736,068 feet (328.8 miles) of MS4 conveyances were mapped by the City of New Albany in compliance with Rule 13 (327 IAC 15-13). This effort represents approximately 100% of the stormwater system.

Within the City of New Albany, there are a total of seventeen (17) post-construction BMPs that have been documented since the enactment of the Post-Construction Ordinance in 2006. Four of the seventeen post-construction BMPs have been completed. There are four (4) pending structural BMPs, three (3) of which are detention basins. The City of New Albany has implemented many different types of non-structural BMPs during the initial permit term, which includes coordinating with the Floyd County Soil and Water Conservation District (FCSWCD) to distribute newsletters, flyers and brochures concerning various stormwater-related topics, as well as maintaining an informational stormwater webpage and implementing storm drain marking projects. The City displays a stormwater quality exhibit at local events and initiated a stormwater utility credit program. In coordination with the Floyd County Solid Waste Management District (FCSWMD), the City has operated a Household Hazardous Waste (HHW) and automotive fluid collection site. The City also performs regular stormwater system maintenance activities and has implemented BMPs to reduce discharges from municipal fueling stations and storage facilities.

The City of New Albany has adopted and is enforcing the necessary stormwater ordinances: the Illicit Discharge Ordinance, the Construction Site Runoff Control Ordinance, and the Post-Construction Stormwater Management Ordinance. The City has also developed a BMP Design Manual, as well as an Illicit Discharge Detection and Elimination Standard Operating Procedure.

In compliance with Rule 13, all project site owners are required to develop construction plans that include an existing project site layout describing the location and name of all wetlands, lakes, and water courses on or adjacent to the project site. Wetlands in and around the City of New Albany are relatively small, limited, and isolated.

Stormwater discharges exposed to industrial activity are regulated under Rule 6 (327 IAC 15-6). Within the City of New Albany, there are twenty-six (26) facilities regulated under Rule 6.

The City of New Albany continues to make efforts to maintain and improve its MS4. Limited monitoring data for the City's MS4 receiving waters indicate potentially elevated levels of bacteria, which is a common problem for waterbodies in densely populated areas. The

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implementation of structural BMPs in new developments, as well as the on-going maintenance of existing BMPs and continued development of the SVAP, will ensure the continued high quality of stormwater in the City of New Albany. Also, on-going public education and illicit discharge detection and elimination efforts by the City of New Albany are crucial to the continued success of the City's MS4 Program. The City of New Albany has experienced flooding and problems related to stormwater quality and quantity. Many of the problems can be attributed in large part to the rapid growth and development throughout the City. The City of New Albany has taken a major step to address many of these recurring stormwater problems by initiating a project for Stormwater Master Planning. New efforts recommended for Permit Term Two include Community Involvement; Data Collection & Compilation; Solutions Investigation and Plan Execution.

Implementation Timeline

The implementation timeline is included in the description of each minimum control measure (MCM). Implementation of the SWQMP is scheduled to be completed over the second permit term, November 4, 2008 to November 4, 2013. This SWQMP includes stormwater program activities that are continued from the first permit term, adjusted based on lessons learned and new activities designed to further reduce stormwater pollution and protect water quality.

Conclusions

This SWQMP has been prepared to meet the goals of 327 IAC 15-13, specifically the requirements for the Part C: Program Implementation Plan. This submittal includes a narrative summary of the City of New Albany's SWQMP that includes measurable goals and timelines. The plan is intended to reduce pollutant loadings from stormwater runoff to the maximum extent practical under current state law, to protect water quality, and to comply with the requirements of the NPDES Phase II Stormwater Program.

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1.0 MCM 1: Public Education and Outreach

The goal of the Public Education and Outreach Minimum Control Measure (MCM #1) is to inform MS4 constituents about the water quality impacts of polluted stormwater runoff and ways that they can minimize their impact on stormwater quality. The City has initiated practical efforts to educate constituencies within the MS4 area and to provide opportunities and mechanisms for those parties to participate in minimizing the impacts of their daily activities on water quality.

The City of New Albany has taken a proactive approach to leveraging public education and outreach opportunities by partnering with neighboring MS4s and other local organizations to achieve the objectives of this MCM. This partnering approach avoids duplication of effort and provides a consistent stormwater message throughout the area. The City of New Albany will continue to work with its partners to implement the educational BMPs discussed below.

1.1 ASSESSING PUBLIC AWARENESS OF STORMWATER MANAGEMENT

One of the keys to a successful public education program is to periodically evaluate the awareness and understanding of the public. The City of New Albany conducted a public awareness survey in 2006. The City also has a stormwater survey questionnaire on its home page at <http://www.NewAlbany.org/index.htm>.

During Permit Term Two, the City of New Albany will conduct public awareness surveys during Permit Year Two (2010) and Permit Year Five (2014). Results of the surveys will be used to estimate increase in public awareness and to tailor stormwater messages and educational efforts.

Measurable Goals: The City of New Albany will track and report the number of surveys distributed, the number of respondents, and the percent increase in knowledge as determined by comparison to the previous survey. An average increase in public awareness over the previous survey will be considered to be indicative of successful implementation of the Public Education and Outreach Minimum Control Measure (MCM).

Implementation Schedule: The City of New Albany will conduct surveys of public awareness regarding stormwater management issues in Permit Years Two and Five. Results will be assessed and reported in appropriate reporting cycles.

1.2 STORMWATER ADVISORY COMMITTEE

In 2004, the City of New Albany participated with neighboring MS4 entities, including, Floyd County, the City of Jeffersonville, the Town of Clarksville, the Town of Sellersburg, the Oak Park Conservancy District, and the City of Madison to develop a Stormwater Advisory Committee (SWAC). SWAC meetings provided a public forum to distribute educational materials, such as

brochures and handouts. These meetings were conducted in various locations throughout the area to provide opportunities for different constituents to participate and to present a consistent, regional message. Benefits of this approach included providing stormwater education to local constituencies by focusing on a particular topic and highlighting specific stormwater quality issues or innovative solutions.

Measurable Goals: The City of New Albany plans to participate in quarterly SWAC meetings during the Permit Year. All meetings will be documented as opportunities for the public to participate in the on-going development and implementation of New Albany's stormwater program. Sign-in sheets will be utilized as further documentation of the SWAC participants in attendance at each meeting.

Implementation Schedule: The City of New Albany plans to participate throughout the permit term with four (4) SWAC meetings being scheduled annually.

1.3 PARTNERSHIP WITH THE SOIL AND WATER CONSERVATION DISTRICT

The City of New Albany has Memorandum of Agreement (MOA) in place with the Floyd County Soil and Water Conservation District (FCSWCD) to achieve specific objectives of this control measure, as well as activities under several other control measures. The FCSWCD employs Mr. Kevin Feder, an Urban Conservation Specialist, who maintains and produces multiple brochures regarding stormwater and non-point source pollution that will benefit the County's program. The FCSWCD will work with New Albany to implement the following public education and outreach activities:

1.3.1 Maintain and Update Stormwater Website

The FCSWCD developed a website to educate the residents of the City of New Albany and the greater Floyd County area about stormwater quality issues. The website includes basic information about stormwater pollution and facts about activities that homeowners and other constituencies within Floyd County can do to minimize the impacts of their daily activities on water quality. The website includes contact information for the Floyd County's Stormwater Program and a link to the BMP Design Manual. The website is accessible at this address: <http://www.floydsxcd.org/>

The goal of developing this educational website is to provide the public with a valuable tool for learning about stormwater quality issues. Successful implementation of the website will be quantified by tracking use of the website via a counter. The counter will allow the FCSWCD to track the number of users accessing the site. During the First Permit Term, an initial goal was to achieve 1,000 website visits in Permit Year Two (2005), and to increase website visits by 5% in each subsequent year of the Permit Term. This goal for web hits was greatly exceeded, with just under 32,000 hits between January and November 2007.

Measurable Goals: The FCSWCD will update the website bi-annually during the permit year, and at least annually over the Permit Term. During Permit Term Two, the goal of achieving an increase in web hits per year will be continued, with over 32,000 web hits per year by the end of the Permit Term.

Implementation Schedule: Annual updates to the website and annual tracking of web hits over the Five-Year Permit Term.

1.3.2 Stormwater Education Publications

During the first Permit Term, the City of New Albany implemented plans to develop a series of instructive materials to educate the general public and targeted constituents regarding the City's stormwater program. Several brochures were adapted from the US Environmental Protection Agency's (USEPA's) recent publications for stormwater programs. Other educational materials were developed by the Floyd County SWCD and Floyd County Solid Waste Management District (FCSWMD). A listing of these publications is provided below:

- *Stormwater Matters*
- *Improving Your Stormwater Quality*
- *Flood Insurance Facts*
- *City of New Albany Stormwater Board Policy*
- *Stormwater and the Construction Industry*
- *Flood Insurance Questions for Real Estate Professionals*
- *Environmental Handbook for Municipal Facilities*
- *Build Your Own Rain Barrel*

The stormwater newsletter, ***Stormwater Matters***, was mailed to schools, elected officials, and citizens that requested copies of the newsletter within the City of New Albany and posted on the stormwater website during the first permit term. Other educational materials were distributed through several mechanisms, such as the annual Floyd County Fair and at offices of FCSWCD and FCSWMD.

Measurable Goals: Continue to educate households, citizens and the construction industry in the City through stormwater education publications annually.

Implementation Schedule: Implementation of the Stormwater Education Publications BMP will be conducted in an ongoing manner. Reports will be provided in Permit Years Two and Four.

1.4 PUBLIC EDUCATION PUBLICATIONS

FCSWCD is using a series of newsletters and brochures to educate the general public and targeted constituents regarding different aspects of the City's stormwater program. It is anticipated that more than 1000 stormwater education publications will be distributed in the County and the City each year during the course of the permit term. The number of brochures distributed and location of distribution sites will be documented and reported each year.

Semi-annual stormwater education newsletters, published as ***The Floyd County Stormwater News***, are written by the FCSWCD, highlighting the value of this partnership. The spring issue of ***The Floyd County Stormwater News***, distributed in April of 2007 to 12,000 households, featured information on the benefits of rain barrels and how residents can do their part to improve water quality in the storm system. The fall issue of ***The Floyd County Stormwater News*** highlighted rain gardens as an easy way to help reduce flooding and was made available on Floyd County's website.

Measurable Goals: Continue to educate households, citizens and the construction industry in the County and the City via distribution of 1,000 stormwater education publications that convey targeted stormwater messages annually.

Implementation Schedule: Implementation of the Stormwater Education Publications BMP will be conducted in an on-going manner. Reports will be provided in Permit Years Two and Four.

1.5 CITY OF NEW ALBANY WEBSITE DEVELOPMENT

The City of New Albany established a stormwater website that allows the City to cost-effectively disseminate public education material and program documentation to reach diverse target audiences.

The City of New Albany stormwater website (www.newalbanystormwater.org) was made publicly available in May 2006. From May 2007 through December 2007 9,719 residents have visited the website. The website includes basic information about stormwater pollution and activities that homeowners and other constituencies can do to minimize the impacts of their daily activities on water quality. It also provides access or links to stormwater related ordinances, user fee information, Best Management Practices (BMP), guidance for developers, public service announcements, EPA materials, education resources, press releases, community survey, City contact information, and maintenance request forms.

Measurable Goal: The City will continue to update and maintain the stormwater website quarterly during the Permit Year.

Implementation Schedule: Maintenance and updates to the City of New Albany's stormwater website will be conducted in an on-going manner. Reports will be provided in Permit Years Two and Four.

1.6 UTILITY PROGRAM

Just like our drinking water, sewer, and gas utilities, stormwater has pipes, ponds, and channels that must be maintained to prevent flooding and pollution problems. This system is costly to operate and maintain, and is facing stronger regulatory requirements from the EPA. Like sewer utilities, a stormwater user fee charges residents, industry, and businesses by an estimate of how much runoff leaves their property. Since the amount of runoff correlates to how developed the property is, many communities base their fees on the property's amount of 'impervious area', such as roof tops, parking lots, etc. The runoff from these impervious surfaces are diverted and drained into a stormwater system, not allowing for natural rainfall absorption into the soils surface to occur.

Consistent with the City's fairness and equitability goals, New Albany completed a process in May 2006 of measuring non-residential property impervious area and linking that to records from the Sanitary Sewer billing and the County Assessor's office, enabling the application of impervious area-based fees to all property owners in the City. In June 2006, the City implemented a long-term/permanent user fee of \$3.17/ERU/month. The impervious area method employs a base equivalent residential unit (ERU) equal to the nationally accepted average impervious area square footage of a detached single-family residential property, equal to 2,500 square feet. Residential properties are charged the base ERU of \$3.17/month, and non-residential properties are charged \$3.17/ERU/month. The Stormwater Board has been given stewardship of the funds collected by the stormwater user fee.

The Stormwater Board meetings are held bi-monthly. These meetings provide citizens the opportunity to identify drainage issues and learn about stormwater quality issues in the City.

Measurable Goal: The City will continue to update and maintain the stormwater user fee program to ensure adequate maintenance of the stormwater program is achieved and a fair rate is charged to users. The Stormwater Board will continue to provide opportunities for citizen input during this Permit Term.

Implementation Schedule: The City of New Albany's user fee program will be maintained and updated in an on-going manner. Reports will be provided in Permit Years Two and Four.

1.7 STORMWATER BOARD

The New Albany Stormwater Board was created in 2006 to administer several City ordinances, provide fiduciary oversight of the stormwater user fee, overseeing implementation of the stormwater quality/drainage board, overseeing implementation of the stormwater quality program and related permits.

Since its inception, the New Albany Stormwater Board has held regular meetings. In addition, the Stormwater Board held three public workshops to discuss specific topics related to Stormwater Master Planning, the MS4 Permit Renewal, and future drainage projects. Within this time frame, the Stormwater Board developed a newsletter that addressed illicit discharges and provided information regarding the Floyd County Household Hazardous Waste Facility. An insert for the Tribune, the local newspaper, was developed and submitted for publication for May of 2008. The insert promoted ways that citizens can improve water quality. The Stormwater Board also made public a press release to the Tribune promoting the Floyd County Household Hazardous Waste Collection Facility.

Measurable Goal: The Stormwater Board will continue to oversee and manage its responsibilities related to the City's Stormwater program. The Board will document and report on any meetings, updates, or issues that it finds yearly.

Implementation Schedule: The City of New Albany's Stormwater Board will manage, maintain and update any stormwater issues it sees fit in an on-going manner. Reports will be provided in Permit Years Two and Four.

2.0 MCM 2: Public Participation and Involvement

This chapter outlines the approach by the City of New Albany to allow citizens and other constituencies within the City to participate in the development and implementation of the SWQMP. The City has taken a proactive approach to partnering with neighboring MS4s and other local organizations to achieve the objectives of this control measure. The City will continue to work with its partners to implement the public participation and involvement BMPs discussed below.

2.1 STORMWATER ADVISORY COMMITTEE

The City of New Albany has partnered with neighboring MS4 entities, including Clark County, Floyd County, the City of Jeffersonville, the Town of Sellersburg, the Town of Clarksville, the Oak Park Conservancy District and most recently the City of Madison to

develop a Stormwater Advisory Committee (SWAC). SWAC meetings provide a public forum to discuss relevant stormwater topics and distribute educational materials, such as brochures and handouts. These meetings will continue to be conducted in various locations throughout the area to provide opportunities for different constituents to participate and to present a consistent, regional message. Benefits of this approach include providing stormwater education to local constituencies by focusing on a particular topic and highlighting specific stormwater quality issues and innovative solutions. Training on public education (i.e., social marketing) will be conducted at one or more SWAC meetings during Permit Term Two.

Measurable Goals: The City of New Albany plans to participate in SWAC meetings, anticipated to be held four (4) times per year during Permit Term Two. Meeting topics are anticipated to include social marketing, implementation of the qualified professional program, and development of a regional stormwater message. Meetings will continue to be documented as opportunities for the public to participate in the on-going implementation of City's stormwater program. Sign-in sheets will be utilized as further documentation of attendance at each meeting.

Implementation Schedule: The City plans to participate throughout the Permit Term with four (4) SWAC meetings being scheduled annually. SWAC milestones and meetings will be summarized and recorded. Reports will be provided in Permit Years Two and Four.

2.2 PARTNERSHIP WITH THE SOIL AND WATER CONSERVATION DISTRICT

The City of New Albany will encourage public participation and involvement through a stormwater quality education exhibit. The City will work in partnership with the FCSWCD to develop the exhibit for local Earth Day or other local events to emphasize local efforts to improve stormwater quality. This exhibit will provide a forum for distributing the brochures and other education handouts developed under the Public Education and Outreach (MCM #1).

2.2.1 Stormwater Quality Exhibit

On October 17, 2007, Mr. Kevin Feder of the Floyd County SWCD reached eighty (80) students at Prosser School of Technology by giving a presentation on construction site erosion controls. This target audience included Prosser students from the Construction Trades Technology, Bricklaying Masonry, Construction/Earthmoving Equipment, and Computer Aided Drafting/Design programs. The presentation focused on giving a brief overview of erosion control in the construction environment, and erosion control methods commonly found on construction sites. The morning session and afternoon sessions lasted about 45 minutes, with brief question and answer sessions following. Mr. Feder also represented the City of New Albany at the annual Floyd County Fair in 2007. FCSWCD used an interactive rain barrel display including a poster and a true-size model at the fair to demonstrate rain barrels and their function.

Measurable Goal: Through the existing MOA with FCSWCD, the City of New Albany will set up the stormwater quality exhibit during at least one local event each year. The City will document and report upon the date and location of the event, as well as provide estimates of the number of MS4 constituencies reached during the event.

Implementation Schedule: Implementation of the Stormwater Quality Exhibit will be conducted annually. Reports will be provided in Permit Years Two and Four.

2.2.2 Storm Drain Marking

Storm drain marking provides a valuable tool for educating local MS4 constituencies about the presence of waterbodies, the connectivity of storm drains to those waterbodies and the negative consequences of illegal dumping. In addition, storm drain marking events will be utilized as a public participation opportunity. The City of New Albany coordinated with the Floyd County SWCD to implement storm drain marking projects within the MS4 area. Volunteers can sign up for storm drain marking through the Floyd County SWCD website: <http://www.floydswcd.org>.

Measurable Goal: In addition to tracking the number and location of outfalls marked each year, the City of New Albany will also track and report on the number of community groups and/or individuals that participate in inlet stenciling programs each year.

Implementation Schedule: Installation of storm drain markings will be conducted in an ongoing manner. Reports will be provided in Permit Years Two and Four.

2.3 SOLID WASTE MANAGEMENT DISTRICT

The Floyd County Solid Waste Management District (FCSWMD) operates a recycling program located at 37 West 8th Street New Albany, Indiana. Floyd County transitioned from a hazardous waste collection event to a year-round drop off center for HHW. In addition, the FCSWMD has partnered with B&G Auto Parts, located at 3432 Paoli Pike, Floyds Knobs, IN, to provide local residents with a place for properly disposing of oil, oil filters, antifreeze, and auto batteries.

Measurable Goal: Each year, the FCSWMD and the City of New Albany will report on the estimated amount of material collected from recycling and/or HHW collections, the number of drop-off centers for automotive fluids, and the number of residents participating in the HHW program.

Implementation Schedule: Coordination with the Solid Waste Management District will be conducted in an on-going manner. Reports will be provided in Permit Years Two and Four.

2.4 STORMWATER HELPLINE AND WEBSITE

The City of New Albany operates a stormwater helpline and website to receive feedback, questions, and to report any stormwater contamination issues from the public. Using the website in conjunction with the helpline allows the City to receive information and more effectively document and disseminate data from the public via two modes of communication. The hotline number and website address can be found in ***Stormwater Matters*** newsletter or a link can be found through the City's website. The City has also provided an email address to citizens for submitting inquiries and complaints.

Measurable Goal: The City of New Albany will continue to make the stormwater helpline and stormwater website available to the public. The calls that are received will help reduce the impacts of stormwater contamination issues that may arise. The City will continue to track maintenance requests and report these numbers.

Implementation Schedule: Continuation of the stormwater hotline will be operated in an on-going manner. Reports will be provided in Permit Years Two and Four.

2.5 WASTEWATER TREATMENT PLANT TOURS

The City of New Albany has completed an upgrade to its wastewater treatment facilities. Beginning in 2008, the City will make plant tours available to the schools within its district.

Measurable Goals: Continue to make plant tours available to local schools to educate students on how wastewater and stormwater is managed and the importance wastewater treatment and stormwater quality plays in the City. The City will report on the number of tours held and who participated in them.

Implementation Schedule: Implementation of the wastewater treatment plant tours will be conducted in an on-going manner. Reports on attendance and the success of this program will be provided in Permit Years Two and Four.

2.6 COMMUNITY CLEANUP

The City of New Albany holds an annual ***Earth Day Cleanup*** through the Solid Waste District in April to involve community interest groups and educate participants on the benefits of cleanup activities. The cleanup allows residents to dispose of wastes including tires, electronics, paint, car batteries, oil, antifreeze, and other hazardous waste materials. The City of New Albany plans to continue support for the Annual City Cleanup and FCSWMD Earth Day Program and will document cleanup dates, estimate the amount and type of material collected, as well as the number of volunteers who participate.

The City of New Albany supported Tox-Away, Earth Day Cleanup and other cleanup events held by the Solid Waste District on April 16, April 30, May 20, and May 21, 2005. Tox-Away Day has historically been held by the Floyd County Solid Waste Management District on the 4-H Fairgrounds, located at 2818 Green Valley Road in New Albany.

The 2007 Earth Day Cleanup was canceled due to weather. However, the Stormwater Utility prepared for the event and gathered educational materials for the booth.

FCSWMD transitioned from a hazardous waste collection event to a year-round drop off center for HHW. The drop off center is located at 37 West 8th Street in New Albany, IN. Due to the transition, totals were not available for the 2007 reporting period. Two drop-off centers for automotive fluids are available to Floyd County residents. In addition, the FCSWMD has partnered with B&G Auto Parts, located at 3423 Paoli Pike, Floyds Knobs, IN, to provide County residents with a place for properly disposing of oil, oil filters, antifreeze, and auto batteries.

Additionally, the City promoted the Floyd County Solid Waste Management District, Southern Indiana TRIAD, and the Floyd County Solid Waste Management District to sponsor an Expired Drug Toss on October 12, 2007, October 29, 2007, and November 1, 2007 where pharmaceuticals were collected. The Drug Toss offered safe disposal for City residents to throw away expired, improperly stored, or unused pharmaceuticals.

More than fifty (50) people have volunteered in the Adopt-A-Highway program in 2007, collecting one-hundred and thirty-six (136) 55-gallon bags of trash along roadways in Floyd County.

Measurable Goal: The City supported Tox-Away, Earth Day Cleanup, and other cleanup events held by the Floyd County Solid Waste Management District and volunteer groups. The City will continue to encourage these programs annually and volunteer groups to help minimize the accumulation of litter and debris within the MS4. Reports will be provided in Permit Years Two and Four.

Implementation Schedule: Litter Control programs by both the City and volunteer groups will be implemented in an on-going manner. Reports will be provided in Permit Years Two and Four.

3.0 MCM 3: Illicit Discharge Detection and Elimination

This chapter outlines the approach by the City of New Albany to continue to identify and eliminate illicit discharges to the City's MS4. This approach includes measurable goals and timelines for on-going implementation of the Illicit Discharge Ordinance, maintaining and updating the stormwater system map, responding to illicit discharge complaints, continued

implementation of the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedure to screen new outfalls, identify and eliminate illicit discharges, and continued IDDE education for the public and City employees.

3.1 IMPLEMENTATION OF THE IDDE ORDINANCE

The Common Council of the City of New Albany adopted the Illicit Discharge Ordinance (Ordinance No.G-06-10) in April of 2006. The ordinance defines and prohibits illicit discharges from commercial, industrial and residential sources, including illegal dumping, and establishes a regulatory process for administration by City staff or others as authorized by the City of New Albany for applying escalating fines and penalties. The Ordinance continues to be implemented.

Measurable Goals: The City of New Albany will continue to implement the 2006 Illicit Discharge Ordinance during Permit Term Two. The City will track and report the number of illicit discharges identified, which result in compliance and/or enforcement actions in Permit Years Two and Four.

Implementation Schedule: The City of New Albany will continue to implement the 2006 Illicit Discharge Ordinance during Permit Term Two. The City will track and report the number of illicit discharges identified which result in compliance and/or enforcement actions in Permit Years Two and Four.

3.2 MAINTENANCE OF THE STORMWATER SYSTEM MAP

The City of New Albany will update changes and additions to the stormwater drainage system map, including outfalls and conveyances required via 327 IAC 15-13-14. Mapping will be consistent with the accuracy requirements and standards outlined in Rule 13, and may include, development of GIS services and requirements for digital submittals of plans. As of 2008, the entire MS4 system has been mapped.

Measurable Goal: During Permit Term Two, the City will continue to update the stormwater system map with existing and new conveyances and outfalls. The City will report upon updates to the stormwater system map in Permit Years Two and Four, as required by 327 IAC 15-13-18.

Implementation of Schedule: During Permit Term Two, the City will update the stormwater system map with existing and new conveyances and outfalls. Updates to the completed map will occur annually at a minimum. The City will report upon updates to the stormwater system map in Permit Years Two and Four.

3.3 DRY WEATHER SCREENING OF NEW OUTFALLS

The City of New Albany developed an *Illicit Discharge Detection and Elimination Standard Operating Procedure (SOP) and Guidance* that specifies the City's procedures for identifying illicit discharges via a dry weather screening program. In addition, the SOP specifies the steps to be taken to document and identify the source of an illicit discharge. The compliance and enforcement actions to be taken are based upon the authority provided by the Illicit Discharge Ordinance.

Measurable Goals: During Permit Term Two, the City of New Albany will continue to utilize the SOP to screen new outfalls, via dry weather screening, and to investigate citizen complaints regarding potential illicit discharges. Results will be reported in Permit Years Two and Four.

Implementation Schedule: During Permit Term Two, the City of New Albany will continue to utilize the SOP to screen new outfalls and to investigate citizen complaints regarding potential illicit discharges. Results will be reported in Permit Years Two and Four.

3.4 ELIMINATION OF ILLICIT DISCHARGES

The City of New Albany will continue to implement the *Illicit Discharge Detection and Elimination Standard Operating Procedure (SOP) and Guidance* to eliminate illicit discharges. During Permit Term Two, efforts will focus on illicit discharges identified at newly mapped outfalls and in response to investigations of potential illicit discharges identified by public employees, businesses and citizens.

If a dry weather discharge is determined to originate as an illicit discharge, the City will immediately work to remove the source of the illicit discharge. Removal of illicit discharges is anticipated to require both voluntary and compliance-based tactics, which may include civil fines and penalties.

Measurable Goals: Illicit discharge removal/elimination activities will evolve on an as-needed basis, in conjunction with the dry weather screening activities discussed in the previous section. The goal of this activity will be to remove 100% of known identified illicit discharges after they are discovered.

The City will track the number of illicit discharges identified, actions taken to remove the discharge and compliance and/or enforcement actions each year and provide reports in Permit Years Two and Four.

Implementation Schedule: Efforts to identify and remove illicit discharges will be conducted on-going, focused on newly mapped outfalls and complaint response. Reports on these activities will be provided in Permit Years Two and Four.

3.5 IDDE TRAINING AND EDUCATION

As identified under the Public Education MCM 1, the City of New Albany will educate the public about the impacts of illicit discharges via brochures, workshops, and SWAC meetings. In addition, the City will implement training for employees with an involvement in stormwater management activities, including the Street Department, Parks Department, and Fire Departments.

The City of New Albany will document and report upon the date and location of any public education activities specifically focused upon the IDDE program. In addition, the City will document and report on the date, location, and number of staff trained about the hazards associated with illicit discharges and improper waste disposal.

Measurable Goals: In Permit Years Two and Four, the City of New Albany will document and report the date, location and number of citizens educated regarding the IDDE program. In addition, the City will document and report on the date, location and number of staff trained about the hazards associated with illicit discharges and improper waste disposal.

Implementation Schedule: Some IDDE education efforts are conducted in an on-going manner (e.g., website, brochures). Workshops and training for public employees will be conducted annually. Reports will be provided in Permit Years Two and Four.

3.6 RECYCLING PROGRAM FOR COMMONLY DUMPED WASTES

The Floyd County Solid Waste Management District (FCSWMD) operates a recycling program located at 37 West 8th Street New Albany, Indiana. FCSWMD transitioned from a hazardous waste collection event to a year round drop off center for HHW. In addition, the FCSWMD has partnered with B&G Auto Parts located at 3432 Paoli Pike, Floyds Knobs, Indiana, to provide local residents with a place for properly disposing of oil, oil filters, antifreeze, and auto batteries.

Measurable Goals: Each year, the FCSWMD and the City of New Albany will report on the estimated amount of material collected from recycling and/or HHW collections, the number of drop-off centers for automotive fluids, and the number of residents participating in the HHW program.

Implementation Schedule: The City will report upon collected material from the recycling and Household Hazardous Waste programs in Permit Years Two and Four.

4.0 MCM 4: Construction Site Runoff Control

This chapter outlines the approach by the City of New Albany to develop and implement an erosion prevention and sediment control (EPSC) program within the City's MS4 area. This approach includes measurable goals and timelines for establishing the regulatory authority to enforce an EPSC program, reviewing EPSC plan submittals, issuing permits, and conducting field inspections ensure compliance with the program.

4.1 IMPLEMENTATION OF THE EROSION PROTECTION AND SEDIMENT CONTROL ORDINANCE

In April of 2006, the City of New Albany adopted the City of New Albany Construction Site Runoff Control Ordinance. This Ordinance adopts the minimum requirements of 327 IAC 15-5 (Rule 5) for all projects disturbing one or more acres of land within the City. The Ordinance requires the submittal of a Stormwater Pollution Prevention Plan (SWPPP) requiring construction plans to include notations regarding EPSC practices to be installed on construction sites. The Ordinance also establishes a regulatory mechanism for applying fines and penalties for those persons responsible for violating the requirements of the Ordinance.

In addition, the ordinance establishes more stringent controls than Rule 5 by requiring construction site owners to obtain a perimeter control permit and implement EPSC best management practices around the perimeter of a site before further construction may begin. The ordinance also implements additional controls to minimize the impact of construction site wastes on stormwater runoff by requiring appropriate waste management BMPs.

Measurable Goals: Since the adoption of the City of New Albany Construction Site Runoff Control Ordinance, each month the City will track and report upon the number of plans submitted, reviewed, approved and denied, as well as the number of active construction sites that have been inspected and the number of compliance and enforcement actions initiated by the City.

Implementation Schedule: The City of New Albany's Erosion and Sediment Control Regulation will continue to be implemented in an on-going manner. Permit activity will be reported monthly and progress of the program will be reported in Permit Years Two and Four.

4.2 IMPLEMENTATION OF THE STORMWATER BEST MANAGEMENT PRACTICES DESIGN MANUAL

The City of New Albany has developed and adopted a Stormwater BMP Design Manual, which includes design suggestions and selection guidance for both construction and post-construction BMPs. This manual is available by the City of New Albany to members of the local construction/development community as a guide to BMP selection and design for all projects disturbing one or more acres of land within the City.

The Stormwater BMP Design Manual was developed and adopted in 2006. The manual is available electronically through the City's Stormwater Website.

Measurable Goals: During Permit Term Two, the City of New Albany will continue to implement the Stormwater BMP Design Manual and will make the manual available to local construction and development community. The City will track the type and location of all structural and non-structural BMPs.

Implementation Schedule: The BMP Manual will continue to be implemented in an on-going manner. The City will report on implementation of the Manual in Permit Years Two and Four.

4.3 PLAN REVIEW AND PERMITTING PROCESS

Via a Memorandum of Agreement with the FCSWCD, the City of New Albany will accept and review construction plans and associated stormwater pollution prevention plans (SWPPP). Plans will be approved or denied based upon their compliance with the requirements of Construction Site Runoff Control Ordinance. Once approved, a Perimeter Control Permit and a Stormwater Quality Management Permit will be issued to the construction site owner. Once perimeter controls are in place and have been inspected and approved by the City of New Albany and the FCSWCD, construction may begin in compliance with the Ordinance.

Measurable Goal: The City of New Albany reports monthly to IDEM on all construction permits. Each month, the City will track and report upon the number of plans submitted, reviewed, approved, and denied, as well as the number of active construction sites that have been inspected and the number of compliance and enforcement actions initiated by the City.

Implementation Schedule: Plan review and processing will continue to be implemented in an on-going manner. Results will be reported during Permit Years Two and Four.

4.4 INSPECTIONS AND ENFORCEMENT

The City of New Albany, via Construction Site Runoff Control Ordinance, has implemented requirements for self-inspections by construction site operators and oversight inspections by the City to ensure compliance with the Construction Site Runoff Control Ordinance. These requirements include bi-weekly and rain event driven (after 0.5 inch rain events) inspections by the construction site operator that are accompanied by an appropriate records retention policy.

Via a MOA with the FCSWCD, the City of New Albany will conduct random inspections of construction sites to ensure compliance. Construction sites that are determined to be out of compliance with the requirements of this ordinance may be issued a range of compliance and/or enforcement actions, including a notice of violation, a stop work order, or withdrawing a building permit.

Measurable Goal: Each month, the City of New Albany will track and report upon the number of plans submitted and reviewed, as well as the number of active construction sites that have been inspected and the number of compliance and enforcement actions.

Implementation Schedule: Inspections and enforcements will continue to be implemented in an on-going manner. Results will be reported during Permit Years Two and Four.

4.5 ANNUAL EPSC TRAINING AND EDUCATION

As identified under the Public Education MCM #1, the City of New Albany will educate the public about the impacts of construction site runoff via brochures, workshops, and future SWAC meetings. In addition, the City will implement training for employees with an involvement in EPSC plan reviews and inspections. The City of New Albany adopted by ordinance requirements for qualified professionals in April 2006. This ordinance supports the Qualified Professional (QP) program, developed in conjunction with SWAC, and designed to educate individuals involved with self-inspection at job sites. The QP program continued developing through 2007 and is in the final stages before being released.

The City of New Albany will document and report upon the date and location of any public education activities specifically focused upon the EPSC program. In addition, the City will document and report on the date, location and number of staff trained about Erosion Prevention and Sediment Control Measures.

Measurable Goals: In Permit Years Two and Four, the City of New Albany will document and report the date, location and number of people educated regarding the EPSC program. In addition, the City will document and report on the date, location, and number of staff trained about the EPSC program.

Implementation Schedule: Some ESPC education efforts are conducted in an on-going manner (e.g., website, brochures). Workshops and training for public employees are conducted annually. Reports will be provided in Permit Years Two and Four.

4.6 QUALIFIED PROFESSIONAL PROGRAM

In order to provide consistent training for active construction site inspectors, the SWAC partnered to initiate development of a Qualified Professional (QP) program. The QP program will provide a system to qualify persons to inspect construction sites, as required by local ordinances, and will provide a means for consistent and comprehensive inspections throughout this region. The goal of the program is to be self-sufficient with minimal oversight costs for the host communities. The training course will be tailored to address stormwater concerns and key issues of Indiana Department of Environmental Management (IDEM) and includes, but is not limited to, the following SWAC communities: City of New Albany, Clark County, Floyd County, Town of Sellersburg, City of Madison, Oak Park Conservancy District, Town of Clarksville and the City of Jeffersonville. The course will focus on stormwater Best Management Practices (BMPs) and appropriate BMP selection and implementation.

The QP program consists of three major elements: training, qualifying examination, and program administration. A QP Training Manual was developed and includes training materials related to stormwater permitting, stormwater hydrology, procedures for BMP selection, installation, maintenance and inspection.

Upon completion of the course, a standardized examination is required to fairly and thoroughly assess the qualifications of course applicants to conduct EPSC plan inspections on construction sites in participating communities. During Permit Term One, the examination questions were drafted and an on-line examination system was developed. During Permit Term Two, the examination questions will be finalized, the on-line system tested, and the examination will be made available to those successfully completing the course.

Qualified Professional Certification will be issued to persons who achieve a passing grade on the examination. A list of Qualified Professionals will be maintained. The EPSC ordinance will be evaluated and updated, as-needed, to formalize requirements of the QP program. During Permit Term Two, the course fees will be utilized to maintain the QP program (i.e., training manual, on-line examination, certification).

Measurable Goals: The City of New Albany will work in partnership with SWAC communities to complete development of the QP program (i.e., finalize QP examination questions, test on-line QP examination, certification, EPSC regulation review and amendment, as necessary) and to implement and administer the QP program as described above. The City will track and report upon the number of people trained and certified.

Implementation Schedule: The City of New Albany will continue the Qualified Professional program in an on-going manner and will track and report upon the number of trained and licensed personal within the City in Permit Years Two and Four.

5.0 MCM 5: Post Construction Stormwater Management

This chapter outlines the approach by the City of New Albany to develop and implement a program to address discharges of post-construction stormwater runoff from new and redevelopment projects disturbing one or more acres of land within the City's MS4 area. This approach includes measurable goals and timelines for establishing the regulatory authority to enforce a post-construction stormwater management program, reviewing SWPPP plan submittals, issuing permits, enforcing BMP operation and maintenance requirements, and conducting field inspections to ensure compliance with the program.

5.1 IMPLEMENTATION OF THE POST-CONSTRUCTION SITE MANAGEMENT ORDINANCE

In April of 2006, the City of New Albany adopted its Post-Construction Stormwater Management Ordinance. This Ordinance includes the minimum post-construction requirements of 327 IAC 15-5 (Rule 5) for all projects disturbing one or more acres of land within the City. A copy of the ordinance is posted on the New Albany Stormwater Utility website. The program was implemented in May of 2006 and included appropriate plan submittal, plan review, site inspections, compliance, and enforcement authorities that are required by Rule 13.

Measurable Goals: The City will track the number and condition of permanent structural BMPs installed and inspected, the types of non-structural BMPs utilized, the amount of open space preserved and mapped and the square footage of mapped pervious and impervious areas within the City's MS4 area. Data will be tracked annually and reported in Permit Years Two and Four.

Implementation Schedule: The Post-Construction section of the Stormwater Management Ordinance will be implemented in an on-going manner. The City will report on permit activity in Permit Years Two and Four.

5.2 IMPLEMENTATION OF THE STORMWATER BEST MANAGEMENT PRACTICES DESIGN MANUAL

The City of New Albany has developed and adopted a Stormwater BMP Design Manual, which includes design specifications and selection guidance for both construction and post-construction BMPs. This manual was made available in 2006, by the City to members of the local construction/development community as a guide to BMP selection

and design for all projects disturbing one or more acres of land within the City. The manual is also available electronically through the City's Stormwater Utility Website.

Measurable Goals: The BMP Manual was adopted in 2006 and made available to the local construction/development community the same year. The City will continue to reference and utilize BMP Manual and will make the manual available to local construction and development community. The City will track the type and location of structural BMPs.

Implementation Schedule: The BMP Manual will continue to be implemented in an on-going manner. The City will report on implementation of the manual, as well as any significant changes made to the document, in Permit Years Two and Four.

5.2.1 Post-Construction BMP Selection and Performance Standards

As part of the Post-Construction Stormwater Management Ordinance, the owners of approved BMPs are required to execute a Long Term Maintenance and Operations Agreement. These BMPs are identified by using the BMP Design Manual, which includes fact sheets for each post-construction BMP approved for installation by the City. Each fact sheet includes written BMP operations and maintenance requirements that must be implemented and maintained by the final site owner. The post-construction ordinance includes requirements for maintenance agreements for owners of BMPs, such as Homeowners Associations or commercial facilities. The City will conduct annual inspections to ensure that owners are maintaining BMPs in compliance with the post-construction Stormwater Management Ordinance.

Measurable Goal: The City will continue to implement the Post-Construction section of the Stormwater Management Ordinance, require long term operation and maintenance agreements and conduct annual inspections of post-construction BMPs and implement corrective actions in an on-going manner. The City will report on the number and condition of permanent structural BMPs installed and inspected within the City's MS4 area in Permit Years Two and Four.

Implementation Schedule: The City will continue to implement the Post-Construction section of the Stormwater Management Ordinance, require long term operation and maintenance agreements and conduct annual inspections of post construction BMPs and implement corrective actions in an on-going manner. The City will report on permit activity in Permit Years Two and Four.

5.3 LONG-TERM BEST MANAGEMENT PRACTICES OPERATION AND MAINTENANCE

The City will continue to utilize the BMP design manual discussed in **Section 5.2** above, which includes written BMP operations and maintenance requirements that must be

implemented and maintained by the final site owner. The Post-Construction Ordinance includes requirements for maintenance agreements for owners of BMPs, such as Homeowners' Associations and commercial facilities. The City will require a Long Term Operation and Maintenance Agreement with the site owner and will conduct regular inspections to ensure that owners are maintaining BMPs in compliance with the Agreement.

As identified under the Public Education MCM #1, the City of New Albany will educate the public about post-construction stormwater management via brochures, workshops, and future SWAC meetings. In addition, the City will implement training for employees with an involvement in post-construction inspections. Through the participation with the SWAC, the City has assisted in the discussion and implementation of post-construction stormwater management training and education program.

Measurable Goal: The City will track and report upon the number and condition of permanent structural BMPs installed and inspected within the City's MS4 area.

Implementation Schedule: The City will continue to implement the Post-Construction Ordinance, require long term operation and maintenance agreements and conduct annual inspections of post-construction BMPs, and implement corrective actions in an on-going manner. The City will report on the number, condition, and area of permanent structural BMPs installed and inspected within the City's MS4 area in Permit Years Two and Four.

5.4 ANNUAL TRAINING AND EDUCATION

As identified under the Public Education MCM #2, the City of New Albany will continue to educate the public about post-construction stormwater management via brochures, workshops, and future targeted audience workshops. In addition, the City will implement regular training for employees involved in post-construction plan reviews and inspections. Training will include appropriate control measures, plan review procedures, approval of Long Term Operation and Maintenance Agreements, inspection protocols and enforcement procedures.

Measurable Goals: The City of New Albany will document and report on the date and location of any public education activities specifically focused upon the post-construction stormwater management program. In addition, the City will document and report on the date, location, and number of staff trained about the post-construction program.

Implementation Schedule: Some post-construction education efforts will be conducted in an on-going manner (e.g., website, brochures). Workshops and training for public employees will be conducted regularly. Results will be reported in Permit Years Two and Four.

5.5 QUALIFIED PROFESSIONAL PROGRAM

In order to provide consistent training for active construction site inspectors, the SWAC partnered to initiate development of a Qualified Professional (QP) program. The QP program will provide a system to qualify persons to inspect construction sites, as required by local ordinances, and will provide a means for consistent and comprehensive inspections throughout this region. The goal of the program is to be self-sufficient with minimal oversight costs for the host communities. The training course will be tailored to address stormwater concerns and key issues of Indiana Department of Environmental Management (IDEM) and includes, but is not limited to, the following SWAC communities: Clark County, Floyd County, the City of Jeffersonville, City of New Albany, City of Madison, Oak Park Conservancy District, City of Clarksville and Town of Sellersburg. The course will focus on Stormwater Best Management Practices (BMPs) and appropriate BMP selection and implementation.

The QP program consists of three major elements: training, qualifying examination and program administration. A QP Training Manual was developed and includes training materials related to stormwater permitting, stormwater hydrology, procedures for BMP selection, installation, maintenance and inspection. The first training course is anticipated to occur in the first half of 2009.

Upon completion of the course, a standardized examination is required to fairly and thoroughly assess the qualifications of course applicants to conduct EPSC plan inspections on construction sites in participating communities. During Permit Term One, the examination questions were drafted and an on-line examination system was developed. During Permit Term Two, the examination questions will be finalized, the on-line system assessed and the examination will be made available to those successfully completing the course.

Qualified Professional certification will be issued to persons who achieve a passing grade on the examination. A list of Qualified Professionals will be maintained. The ESPC regulation will be evaluated and updated as-needed to formalize requirements of the QP program. During Permit Term Two, the course fees will be utilized to maintain the QP program (i.e., training manual, on-line examination, certification).

Measurable Goals: The City of New Albany will work in partnership with SWAC communities to complete development of the QP program (i.e., finalize QP examination questions, test on-line QP examination, certification, ESPC regulation review and amendment as necessary). The City of New Albany will work in partnership with SWAC communities to implement and administer the QP program as described above in an on-going manner and will track and report upon the number of people trained and certified.

Implementation Schedule: The City of New Albany will implement the Qualified Professional program in an on-going manner and will track and report upon the number of trained and licensed personal within the District in Permit Years Two and Four.

6.0 MCM 6: Pollution Prevention and Good Housekeeping

This chapter outlines the approach by the City of New Albany to develop and implement a program to prevent or reduce pollutant runoff from municipal operations. This approach includes documenting maintenance activities and schedules, implementing pollution controls in operational areas, developing procedures for proper waste management, and employee training.

6.1 FLOATABLES AND OTHER POLLUTANT CONTROLS

The City of New Albany has historically been proactive in the area of maintenance activities that reduce floatables and other pollutants that could be discharged to the MS4. The City has written a program that ensures existing municipal operations are performed in ways that will minimize contamination of stormwater discharges, including the following activities:

6.1.1 Drainage System Maintenance and Cleaning

The City of New Albany is responsible for maintaining a stormwater conveyance system including underground stormwater conveyance piping, curb and gutter roadways, and side ditches and swales. In addition, the City cleans and maintains a large number of catch basins. This task reduces clogging of the stormwater drainage system. The City will continue on-going catch basin cleaning practices before and after rain events. Between January 2007 and April 2007, the City has cleaned 4,984 linear feet conveyances, including 114 catch basins. As of December 2007, the City has cleaned 16,389 linear feet of conveyances, including 762 catch basins.

Measurable Goals: The City will track and report the number of linear feet of pipe, curb and gutter roadways, and side ditches and swales maintained each year. The City will estimate the linear feet and location of roadside shoulders and ditches stabilized and MS4 conveyances cleaned or repaired during maintenance of these conveyances each year. The City will also track and report the number and location of stormwater outfall areas remediated from scouring conditions and estimated amount of material collected from catch basin cleaning each year. The City will continue to identify the total linear feet and location of unvegetated swales and ditches that have an appropriately sized vegetated filter strips.

Implementation Schedule: The City will continue to implement drainage system maintenance and cleaning in an on-going manner. Implementation of the drainage system cleaning and maintenance BMP will be reported in Permit Years Two and Four.

6.1.2 Street Sweeping

The City of New Albany consistently sweeps major roads and thoroughfares and conducts periodic street sweeping in other areas, on an as-needed basis. The City owns and operates two (2) street sweepers. The sweepers operate on a routine schedule, which due to the use of water, are only interrupted by temperatures consistently below 32 degrees Fahrenheit. The City will track and report the tonnage of material collected and miles swept each year.

Measurable Goal: The City will track and report the tonnage and/or hours/miles swept each year. In addition, the City will re-evaluate, prioritize, and map its street sweeping routes. Prioritized routes will be swept more frequently than less traveled roads.

Implementation Schedule: The City will continue to implement the street sweeping BMP in an on-going manner. Implementation of the street sweeping BMP will be reported in Permit Years Two and Four.

6.1.3 Leaf and Woody Debris Collection

Each year the City of New Albany collects and disposes of leaf and woody debris from public and private residences within the MS4 area. As a service to all residents of the City of New Albany, leaf and woody debris are collected throughout the City limits. In particular, the leaf collection program is seen as a proactive maintenance activity for maintaining the operational capacity of the storm sewer system. These wastes are transported to a compost facility where they are recycled.

Measurable Goal: The City of New Albany will track and report the tonnage of leaf and woody debris collected and disposed of each year. Implementation will be reported in Permit Years Two and Four.

Implementation Schedule: The City will continue to implement the leaf and woody debris collection BMP in an on-going manner. Implementation will be reported in Permit Years Two and Four.

6.2 CONTROLS FOR REDUCING DISCHARGES FROM MUNICIPAL OPERATIONS

The City of New Albany has many programs and activities in place which benefit the stormwater program. The City will develop a Standard Operation Procedure (SOP) to address Spill Prevention and Control Countermeasures (SPCC). In addition, several activities have been

scheduled to further evaluate and refine the City's ability to minimize the potential for stormwater contamination from municipal activities including:

6.2.1 Minimizing Use of Herbicides, Pesticides and Fertilizers

The City of New Albany has 21 municipal parks and facilities that are located on 643 acres throughout its corporate boundaries. The City of New Albany tries to minimize the use of herbicides, pesticides, and fertilizers by only applying such chemicals on an as-needed basis, rather than scheduling multiple applications each year. In addition, some herbicides are used by the Parks Department in conjunction with maintenance activities at local parks.

The City will conduct an evaluation of chemical storage/use and will document and report the number of staff trained as certified applicators. The City stores chemicals such as antifreeze, oil, and pesticides in facilities that are equipped with safety features required by the Fire Marshall and Underground Storage Tank regulations. Based upon this evaluation, the City will estimate the total acreage and location where pesticides and fertilizers are applied and develop percentage reductions that will be reported on in subsequent annual reports.

Measurable Goals: The City will continue to implement this BMP to minimize the use of herbicides, pesticides and fertilizers in an on-going manner. The City will continue to track and report on the number of staff trained as certified applicators. The City will continue to estimate the total acreage and/or location where pesticides and fertilizers are applied and develop percentage reductions that will be reported on in Permit Years Two and Four.

Implementation Schedule: The City will continue to implement this BMP to minimize the use of herbicides, pesticides and fertilizers in an on-going manner and will report on implementation in Permit Years Two and Four.

6.2.2 De-Icing Materials Storage and Utilization

The City of New Albany has been very active in minimizing the impact of de-icing activities on water quality. All salt storage areas are covered and sand is not utilized. The City of New Albany will track and report on the tonnage of salt and sand usage.

Measurable Goals: The City will continue to maintain the covered salt storage facility, track annual salt usage, and work to minimize the amount of salt applied in an on-going manner. The City will report on salt usage in Permit Years Two and Four.

Implementation Schedule: The City will continue to maintain the covered salt storage facility and work to minimize the amount of salt applied in an on-going manner. The City will report on salt usage in Permit Years Two and Four.

6.3 ANNUAL POLLUTION PREVENTION TRAINING AND EDUCATION

As identified under the Public Education MCM #1, the City of New Albany will educate the public about pollution prevention and recycling via brochures, workshops, and future SWAC meetings. In addition, the City will implement annual training for employees actively involved in the City's operational divisions.

The City of New Albany will document and report upon the date and location of any public education activities specifically focused upon pollution prevention. In addition, the City will document and report on the date, location, and number of staff trained about pollution prevention.

Measurable Goals: The City of New Albany will continue to document and report on the date and location of any public education activities specifically focused upon the pollution prevention and good housekeeping MCM.

Implementation Schedule: Some pollution prevention and good housekeeping education efforts will be conducted in an on-going manner (e.g., website, brochures). Workshops and training for public employees will be conducted annually. Reports will be provided in Permit Years Two and Four.

7.0 On-Going Receiving Water Characterization

7.1 STREAM VISUAL ASSESSMENT PROTOCOL

The goal of the Stream Visual Assessment Protocol (SVAP) is to provide an efficient and economical solution for On-Going Water Quality Characterization Activities required in the Storm Water Quality Management Plan (SWQMP). Data gathered from the SVAP will allow the City of New Albany to identify locations that could potentially benefit from maintenance or remediation activities and to identify strategies for improving water quality throughout the City.

During Permit Term Two, the City of New Albany will assess the list of SVAP monitoring sites using the MS4 map, aerial photography, watershed maps, and knowledge of the land use within each drainage area. In the City of New Albany MS4 area, approximately twenty four (24) sites were identified for SVAP monitoring. Site selection assessments will include streams receiving stormwater discharges, streams adjacent to high public use areas such as parks, sensitive areas such as wetlands. The City of New Albany plans to conduct the monitoring twice per year, during summer low flows when nutrient and sedimentation issues become apparent and during fall/winter when the lack of vegetation allows better assessments of stream bank and in-stream habitat conditions.

City of New Albany staff will receive training in conducting the SVAP, which will focus on detecting and identifying illicit discharges, as well as identifying water quality indicators such as excessive algae growth or eroding stream banks. The City of New Albany will use a hand-held GPS unit to record locations, digital photographs of conditions in-stream and in the riparian zone will be collected, and field data will be recorded on the GPS unit using forms and comment fields. Field data will include stream substrate quality (degree of siltation, bed material size), geomorphic conditions (presence and quality of riffles, pools, natural stream bends, evidence of stream straightening, erosion and bank failure), habitat conditions (presence of in-stream fish cover such as tree roots, logs, backwater, shade from riparian vegetation), surrounding conditions (forests, wetlands, shrubs, crops, pasture, rural or suburban development, urban or industrial development).

The City of New Albany will analyze these data to identify sites in need of remediation or maintenance activities, such as bank stabilization, riparian buffer improvements, or litter pickup. More broadly, The City of New Albany will use these data to develop strategies for improving or maintaining water quality throughout the area. During Permit Term Two, results will be reported Permit Years Two and Four.

8.0 Reporting and Records Retention

8.1 PERMIT REPORTS

The City of New Albany will submit monthly construction site reports, as required by 327 IAC 15-13-18. Records will be retained for at least five (5) years.

8.2 MS4 PROGRAM REPORTS

The City of New Albany will submit MS4 Program Implementation Reports in Permit Years Two and Four, as required by 327 IAC 15-13-18. These reports will describe progress on implementing the MS4 program, achieving measurable goals as well as implementation schedules.

9.0 Stormwater Program Budget

9.1 CURRENT AND PROJECTED PROGRAM IMPLEMENTATION BUDGET

The City of New Albany has estimated that full development and implementation of its proposed stormwater program will cost approximately \$6,933,100 over the course of the Five-year Permit Term. This is funded via the City's Stormwater Utility User Fee for residential and non-residential properties.

Minimum Control Measure	Description	Estimated 5-year Budget (2008 Dollars)
MCM 1. Public Education and Outreach	Stormwater Survey, SWAC, Publications, Website, Stormdrain Markers	\$62,500
MCM 2: Public Involvement and Participation	SWAC, Stormwater Hotline, Stormdrain Markers, Litter Prevention	\$60,000
MCM 3: Illicit Discharge Detection and Elimination	IDDE Ordinance Implementation, MS4 System Mapping, Dry Weather Screening, IDDE Elimination, Education and Training	\$150,000
MCM 4: Construction Site Run-Off Control	ESPC Regulation Implementation, BMP Manual Implementation, Plan Review and Permitting, Inspections and Enforcement, Education and Training, Qualified Professional Program	\$175,000
MCM 5: Post-Construction Run-Off Control	Post Construction Ordinance Implementation, BMP Manual Implementation, Long Term Operation and Maintenance Agreements, Education and Training, Qualified Professional Program	\$150,000
MCM 6: Municipal Operations Pollution Prevention and Good Housekeeping	Implement Good Housekeeping Plan and Spill Response Plan, Education and Training, MS4 System Inspection and Maintenance, Capital Improvement to the MS4	\$150,000
On-Going Water Quality Characterization	Implement the Stream Visual Assessment Protocol, Water Quality Samples	\$30,000
Subtotal: Program Implementation		\$777,500
Other	Stormwater Utility Manager and one staff member, salaries and benefits, Capital Improvement Projects, Maintenance Contract Services, Legal	\$6,155,600

	Services, Ordinance and Policy Review	
	<i>Some of these costs cover other utility services</i>	
Estimated five-year MS4 Program Budget (2008 Dollars)		\$6,933,100

9.2 USER FEE

To facilitate program compliance and longevity of the stormwater program, the New Albany City Council adopted a stormwater user fee. This user fee will provide the funding necessary to maintain the services residents deserve, while meeting EPA and IDEM requirements in the most fair and equitable way.

With the ultimate goals of achieving fairness and equitability in assessment and collection of the user fee, a number of calculations were required and processes needed to be developed. Realizing the time required to make these preparations counterbalanced by the immediate needs to fund the mandated NPDES Phase II program and existing drainage department staff, the City instituted a user fee.

Across the country it has been proven that impervious area is the most fair and equitable measure for determining a stormwater user fee. Impervious area includes hard surfaces like rooftops, driveways, sidewalks and parking lots that do not allow rain water to soak into the ground, increasing stormwater pollution and runoff. Impervious area was used as a measure so that larger properties that have a larger impact pay a larger bill. For example, if a corner drug store has five times the impervious area as the average residential property, then they will pay five times as much per month.

Consistent with the City's fairness and equitability goals, New Albany completed a process in May 2006 of measuring non-residential property impervious area and linking that to records from the Sanitary Sewer billing and the County Assessor's office, enabling the application of impervious area based fees to all property owners in the City. In June of 2006, the City implemented a long-term/permanent user fee of \$3.17/ERU/month. The impervious area method employs a base equivalent residential unit (ERU) equal to the nationally accepted average impervious area square footage of a detached single-family residential property, equal to 2,500 square feet. Residential properties are charged the base ERU of \$3.17/month, and non-residential properties are charged \$3.17/ERU/month. The Stormwater Board has been given stewardship of the funds collected by the stormwater user fee.

10.0 Programmatic Indicators

The City of New Albany will report the following programmatic indicators in Permit Years Two and Four. Programmatic indicators will be reported, as per IDEM.

1. Number or percentage of citizens that have an awareness of stormwater quality issues
2. Number and description of meetings, training sessions, and events conducted to involve citizens
3. Number or percentage of citizens that participate in stormwater quality improvement projects
4. Number and location of stormdrains marked
5. Estimated or actual linear feet or percentage of MS4 conveyances mapped
6. Number and location of MS4 area outfalls mapped
7. Number and location of MS4 area outfalls screened for illicit discharges
8. Number and location of illicit discharges detected
9. Number and location of illicit discharges eliminated
10. Number of, and estimated amount of material collected from, HHW collections
11. Number and location of citizen drop-off centers for automotive fluids
12. Number or percentage of citizens that participate in HHW collections
13. Number of construction sites permitted for stormwater quality
14. Number of construction sites inspected
15. Number and type of enforcement actions taken against construction site operators
16. Number of public informational requests received related to construction sites
17. Number, type, and location of structural BMPs installed
18. Number, type, and location of structural BMPs inspected
19. Number, type, and location of structural BMPs maintained, or improved, to function properly
20. Type and location of non-structural stormwater quality BMPs utilized
21. Estimated acreage or square footage of open space preserved and mapped
22. Estimated acreage or square footage of mapped pervious and impervious surfaces
23. Number and location of retail gasoline outlets or municipal, state, federal, or institutional refueling areas with installed BMPs
24. Number and location of entity facilities that have containment for accidental releases

25. Estimated acreage, or square footage, and location where pesticides and fertilizers are applied by the regulated MS4 entity
26. Estimated linear feet, or percentage, and location of unvegetated swales and ditches that have an appropriately-sized vegetated filter strip
27. Estimated linear feet, or percentage, and location of MS4 conveyances cleaned or repaired
28. Estimated linear feet, or percentage, and location of roadside shoulders and ditches stabilized
29. Number and location of stormwater outfall areas remediated from scouring conditions
30. Number and location of de-icing salt and sand storage areas covered, or otherwise improved, to minimize storm water exposure
31. Estimated amount, in tons, of salt and sand used for snow and ice control
32. Estimated amount of material by weight collected from catch basin, trash rack, or other structural BMP cleaning
33. Estimated amount of material by weight collected from street sweeping
34. Number, or percentage, and location of canine parks sited at least 150 feet away from a surface water body