# 2012 Annual Report
# MS4 Program
# City of Beech Grove, Indiana

**Prepared for:**

**City of Beech Grove**
**806 Main Street**
**Beech Grove, IN 46107**

**By:**

**WESSLER ENGINEERING**
**6219 SOUTH EAST STREET**
**INDIANAPOLIS, IN 46227**

# Rule 13 - MS4 ANNUAL REPORT

State Form 51278 (R5 / 7-12)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

**For questions regarding this form, contact:**

IDEM Office of Water Quality , Storm Water Program
MS4 Coordinator
100 North Senate Avenue, Room 1255
MC 65-42
Indianapolis, IN 46204-2251

Telephone: (317) 234-1601 or
(800) 451-6027, ext. 41601 (within Indiana)

Web Access: http://www.IN.gov/idem/4900

**NOTE:**

- Annual reports must be submitted to the Indiana Department of Environmental Management. **Failure to submit the annual report is considered noncompliance with your permit.**
- For the **first five** (5)-year permit term, this completed form must be submitted by 1 year from the SWQMP – Part C submittal date and, thereafter, 1 year from the previous report (i.e., in years two (2) through five (5) of permit coverage).
- In the **second and subsequent** five (5)-year permit terms, this completed form must be submitted in years two (2) and four (4) of permit coverage.
- **Please type or print in ink.**
- Please answer all questions thoroughly and return the form by the due date.
- Return this form and any required attachments to the IDEM Storm Water Program, MS4 Coordinator at the address listed in the box on the upper-right.

| Five Year Permit Term | Reporting Year |
|---|---|
| ☐ 1st Permit Term<br><br>☒ Second and subsequent five (5) Year Permit Terms | **Permit Year** 2012<br>☐ 1<br>☐ 2<br>☐ 3<br>☒ 4<br>☐ 5<br>MS4s in their first permit term must submit reports annually. MS4s that are in subsequent permit terms must submit in years 2 and 4 of the permit term. |

## PART A: GENERAL INFORMATION – MS4 OPERATOR

| | | |
|---|---|---|
| **1.** Permit Number: | **INR 0 4 0 023** | **Type of MS4:** ☒ City ☐ Town ☐ County ☐ Non-traditional |
| **2.** MS4 Entity: | City of Beech Grove<br>*(Name of permit holder)* | |
| **3.** MS4 Operator: | Brad Meriwether | |
| **4.** Mailing Address: | 806 Main Street<br>Beech Grove, IN 46107 | |
| | Beech Grove, IN | ZIP: 46107 County: Marion |
| **5.** Email Address: | Brad.Meriwether@beechgrove.com | |

## PART B: GENERAL INFORMATION – MS4 COORDINATOR

| | |
|---|---|
| **6.** MS4 Coordinator (*please print*): | Brad Meriwether |
| **7.** Persons Title: | Director of Public Works and MS4 Operator |
| **8.** Mailing Address: | 806 Main Street<br>Beech Grove, IN 46107 |
| | Beech Grove ZIP: 46107 |
| **9.** Telephone Number: | 317-788-4982 |
| **10.** E-mail Address : | Brad.Meriwether@beechgrove.com |

| PART C: GENERAL INFORMATION – REPORT PREPARER | | | |
|---|---|---|---|
| **11.** Name: Wessler Engineering, Mary Atkins<br>(*Provide this information if someone other than MS4 Operator or Coordinator completed this report.*) | | | |
| **12.** Affiliation with the MS4: | Consulting Engineer | | |
| **13.** Mailing Address: | 6219 South East Street<br>Indianapolis, IN 46227 | | |
| | Indianapolis, IN | | ZIP: 46227 |
| **14.** Telephone Number: | 317-788-2453 | Extension: | |
| **15.** E-mail Address : | MaryA@wesslerengineering.com | | |

## PART D: PROGRAM MANAGEMENT
## 327 IAC 15-13-18

**16. Provide a summary of the following program management activities performed during the reporting period:**

a) If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.

**See Attached**

b) Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")

c) Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.

d) Provide updated receiving water information completed during the reporting period if applicable.

e) Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.

f) Provide a list of new active industrial sites identified during this reporting period.

g) Provide a list of facilities owned and operated by the MS4 that require Rule 6 (industrial storm water) permits.

h) Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.

i) Other:

## PART E: PUBLIC EDUCATION AND OUTREACH - MINIMUM CONTROL MEASURE

**17. Identify the best management practices (BMPs) for public education and outreach included in your Storm Water Quality Management Plan (SWQMP) Part C and then respond to the following:**

a) Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period.

**See Attached**

b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

c) Describe program BMPs that went beyond those identified in the SWQMP.

d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.

e) Describe program implementation partnerships and explain successes and barriers during this reporting period.

f) Other:

## PART F: PUBLIC PARTICIPATION AND INVOLVEMENT - MINIMUM CONTROL MEASURE

**18. Identify the best management practices for public participation and involvement included in your SWQMP Part C and then respond to the following:**

a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

**See Attached**

b) Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.

c) Describe program BMPs that went beyond those identified in the SWQMP.

d) Identify storm water BMPs installed or initiated for this MCM during this reporting period.

e) Describe program implementation partnerships and explain successes and barriers during this reporting period.

f) Other:

## PART G: ILLICIT DISCHARGE DETECTION AND ELIMINATION - MINIMUM CONTROL MEASURE

**19. Identify the best management practices for illicit discharge detection and elimination (IDDE) included in your SWQMP Part C and then respond to the following:**

a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period (mapping, screening, etc.).

**See Attached**

b) Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.

c) Identify changes made to the IDDE Plan during this reporting period if applicable.

d) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.

e) Describe level of mapping and screening completed to date and if there are unmapped or unscreened outfalls explain why and provide a timetable for completion.

f) Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during this reporting period.

g) Other:

## PART H: CONSTRUCTION SITE STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE

**20. List the best management practices for the construction site storm water run-off program identified in your SWQMP Part C and then respond to the following:**

a) Identify progress made towards development and implementation of each BMP for this MCM including timetables and measurable goals during this reporting period.

**See Attached**

b) Describe program implementation partnerships and explain successes and barriers during this reporting period.

c) Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement actions taken against construction site operators during the same period.

d) Identify the number and types of training opportunities that were provide to contractors, developers, and builders during this permit period.

e) IdentyMS4 area personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.

f) Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.

g) Other:

## PART I: POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL - MINIMUM CONTROL MEASURE

**21. List the best management practices for post-construction storm water run-off control identified in your SWQMP Part C and then respond to the following:**

a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.

**See Attached**

b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility during this reporting period.

c) Describe program implementation partnerships and explain successes and barriers.

d) Identify MS4 area personnel responsible for plan review, inspection, and enforcement of construction activities shall receive, at a minimum, annual training addressing appropriate control measures, inspection protocol, and enforcement procedures.

e) Identify training provided to MS4 personnel responsible for these activities during this reporting period.

f) Identify updates or revisions to the storm water ordinance or other regulatory mechanism made during this reporting period.

g) Other:

## PART J: MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING - MINIMUM CONTROL MEASURE

**22. List the best management practices for municipal operations pollution prevention and good housekeeping identified in your SWQMP Part C and respond to the following:**

a) Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.
**See Attached**

b) Describe implementation problems encountered and changes due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.

c) Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.

d) Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.

e) Other:

## PART K: CERTIFICATION AND SIGNATURE

**The individual listed in "PART A: GENERAL INFORMATION – MS4 OPERATOR" must sign the following certification statement:**

*"By signing this annual report, 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 Name:** Brad Meriwether

**Signature:** _____ 9/20/12 (mm/dd/yyyy)

# PART D

# PROGRAM MANAGEMENT

**A). If this is a co-permit, list all permittees and operators responsible for permit implementation for each entity.**

N/A

**B). Identify changes to the MS4 area boundaries, including areas added to or lost to the MS4 area via annexation or other similar means. Provide a current map (8.5" X 11" or 8.5" X 14")**

No changes were made to the MS4 area boundary during the reporting period. See attached City of Beech Grove Corporate Limits Map.

**C). Identify follow-up or additional water quality characterizations completed during the reporting period if applicable.**

The City of Beech Grove monitors storm water from three monitoring points: 30 Lick Creek (industrial); 80 Lick Creek (commercial); and 170 Lick Creek (residential). With the exception of two samples, total phosphorus (TP) in 2005 (80 Lick Creek) and TP in 2008 (30 Lick Creek), all samples collected since 2005 have been within the mean water quality characteristics of urban run-off for industrial, commercial, and residential areas. Please see the attached City of Beech Grove Outfall Monitoring Results.

**D). Provide updated receiving water information completed during the reporting period if applicable.**

No updated receiving water information was completed during the reporting period.

**E). Identify funding sources (utility fees, grants, enforcement fines etc) utilized for MS4 program implementation during this reporting period.**

Please see the attached City of Beech Grove Funding Sources.

**F). Provide a list of new active industrial sites identified during this reporting period.**

Please see the attached City of Beech Grove Industrial Facilities.

**G). Provide a list of facilities owned and operated my the MS4 that require Rule 6 (Industrial Storm Water) permits.**

Currently, there are no City-owned facilities regulated under Rule 6.

**H). Provide a summary of complaints received and follow-up investigation results related to storm water quality issues during this reporting period.**

The City of Beech Grove has a formal process for receiving, tracking, and following-up on drainage complaints. Several complaints are received each year. Complaints are compiled by the nature of the problem (flooding, erosion, water quality, dumping, construction site, or other). There were no complaints directly related to storm water quality issues during this reporting period. A majority of the complaints received were related to flooding issues.

**I). Other:**

N/A

# PART E

# PUBLIC EDUCATION AND OUTREACH MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals.**

See attached Measurable Goals and Programmatic Indicators Tables.

**B). Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.**

In 2010 the City of Beech Grove provided a local restaurant, the Sunshine Café, with storm water pollution prevention illustrated place-mats. In 2011 the restaurant had changed ownership, and place-mats were provided to the Main Street Café. In 2012, the restaurant had changed ownership again, the third time in three years, and place-mats were once again provided. Due to constant changes in ownership of the restaurant, the MS4 Local Planning Team is considering the relocation of storm water pollution prevention materials to another restaurant in Beech Grove.

**C). Describe program BMPs that went beyond those identified in the SWQMP.**

The City of Beech Grove set a goal to post at least one pollution prevention message at the annual Fall Festival Event during this reporting period. In 2011, the City of Beech Grove purchased 100 trash containers with the pollution prevention message, "Think before you trash it. Keep Beech Grove clean" inscribed on them. Approximately 36 trash containers were used at the Fall Festival. The remaining trash containers were placed throughout the City an in the Parks in an attempt to reach a larger audience.

During this reporting period Beech Grove Filed for and obtained a LOMR from FEMA, for an area of Town that is prone to flooding. 157 properties were affected by the flood map change and received written correspondence in 2010, 2011, and 2012.

**D). Identify storm water BMPs installed or initiated for this MCM during this reporting period.**

The City of Beech Grove has continued to seek cooperation with the City of Indianapolis and the Marion County SWCD to implement public education and public outreach efforts for residents of Marion County, including Beech Grove. Storm water educational programs including: Seasonal Tree and Shrub Sale, Stream Management Workshop, and Rain Barrel sales were made available to Marion County residents and were advertised on the Marion County SWCD website, http://marionswcd.org/. The SWCD also circulates a quarterly publication, the *Conservation at the Crossroads*, in which educational information is published and programs are advertised. Please see attached Measurable Goals and Programmatic Indicators Tables.

**E). Describe program implementation partnerships and explain successes and barriers during this reporting period.**

The City of Beech Grove is located adjacent to the City of Indianapolis and within Marion County. Storm water education and pollution prevention efforts reach residents throughout Marion County, including the City of Indianapolis and the City of Beech Grove. Please see attached Measurable Goals and Programmatic Indicators Tables.

**F). Other:**

N/A

# PART F

# PUBLIC PARTICIPATION AND INVOLVEMENT MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals.**

See attached Measurable Goals and Programmatic Indicators Tables.

**B). Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.**

The City of Beech Grove prepared a public storm water awareness survey in 2010. The MS4 attempted to distribute the surveys with little participation. In an attempt to reach a larger audience the MS4 placed the survey on Beech Grove's Department of Public Works webpage (www.beechgrove.com/public-works-department.html). The MS4 received substantially more responses the following year. In 2012, the public awareness surveys were complied and results documented. Please see the attached Measurable Goals and Programmatic Indicators Tables.

**C). Describe program BMPs that went beyond those identified in the SWQMP.**

The City of Beech Grove advertises local recycling and household hazardous waste disposal opportunities on the Department of Public Work's webpage (www.beechgrove.com/public-works-department.html). The webpage offers information on curbside recycling, a guide to Recycle and Reuse locations throughout Marion County, and the Marion County Tox Drop program and associated disposal locations. Please see attached Measurable Goals and Programmatic Indicators Tables.

**D). Identify storm water BMPs installed or initiated for this MCM during this reporting period.**

Please see attached Measurable Goals and Programmatic Indicators Tables.

**E). Describe program implementation partnerships and explain successes and barriers during this reporting period.**

The City of Beech Grove is located adjacent to the City of Indianapolis and within Marion County. Storm water education and pollution prevention efforts reach residents throughout Marion County, including the City of Indianapolis and the City of Beech Grove. Please see attached Measurable Goals and Programmatic Indicators Tables.

**F). Other:**

N/A

# PART G

# ILLICIT DISCHARGE DETECTION AND ELIMINATION

# MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals during this reporting period (mapping, screening, etc.).**

The City of Beech Grove has mapped 100% of storm sewers and ditches and has identified the latitude and longitude of all outfalls greater than 12 inches in diameter. All known outfall conveyances with a pipe diameter of 12 inches or larger and all open ditches with a 2 foot or larger bottom width were mapped within the first five year permit term. See attached Measurable Goals and Programmatic Indicators Tables.

**B). Describe implementation problems or challenges encountered, particularly as it relates to mapping and screening of outfalls during this reporting period.**

Some challenges encountered when initially mapping outfalls included: a lack of resources, time and budget constraints, and a difficulty initially identifying and then accessing all outfalls in the incorporated area of Beech Grove. However, because 100% of outfalls in were mapped in the first permit term, no notable problems or challenges were encountered during this reporting period.

**C). Identify changes made to IDDE Plan during this reporting period if applicable.**

No changes were made to the IDDE plan during this reporting period.

**D). Identify updates or revisions to IDDE ordinance or other regulatory mechanism made during the reporting period.**

The IDDE ordinance was adopted in 2004. Since that time no other IDDE ordinance revisions have been made.

**E). Describe level of mapping and screening completed to date. If there are unmapped or unscreened outfalls, provide a plan and a time table for completion.**

100% of outfalls have been identified. Please see attached Measurable Goals and Programmatic Indicators Tables.

**F). Other:**

N/A

# PART H

# CONSTRUCTION SITE STORM WATER RUN-OFF CONTROL

# MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals.**

See attached Measurable Goals and Programmatic Indicators Tables.

**B). Describe implementation partnerships and explain successes and barriers during this reporting period.**

The City of Beech Grove and the City of Indianapolis (Marion County) have entered into an agreement that the City of Indianapolis will be responsible for the construction site storm water run-off control MCM. Construction site inspections and enforcement procedures are also conducted by the City of Indianapolis. This agreement was indicated on the Part A and NOI submittal in November 2003 and was verified with a signature on the permit renewal in 2008.

Additionally, construction projects owned by the City of Beech Grove and with a land disturbance of one (1) acre or more have their plans reviewed by the City of Indianapolis for construction site runoff concerns. Please See attached Measurable Goals and Programmatic Indicators Tables.

**C). Identify the number of construction sites permitted during this reporting period and identify the number and type of enforcement action taken against construction site operators during the same period.**

Construction site storm water control best management practices are the responsibility of the City of Indianapolis.

**D). Identify the number and types of training opportunities that were provided to contractors, developers, and builders during this permit period.**

Construction site storm water control best management practices are the responsibility of the City of Indianapolis.

**E). MS4 personnel responsible for plan review, inspection, and enforcement of construction activities, shall receive at a minimum, annual training, addressing appropriate control measures, inspection protocol, and enforcement procedures. Identify training provided to MS4 personnel responsible for these activities during this reporting period.**

Construction site storm water control best management practices are the responsibility of the City of Indianapolis.

**F). Identify updates or revisions to the storm water construction ordinance or other regulatory mechanism made during this reporting period.**

Construction site storm water control best management practices are the responsibility of the City of Indianapolis.

**G). Other:**

In conjunction with the public education and outreach MCM, the City of Beech Grove has maintained an erosion and sediment control hotline for members of the community to report construction site sediment and erosion control issues. The Hotline was implemented in 2004 and has been maintained since. All calls to the Storm Water Hotline are recorded, investigated, and tracked.

Additionally, the City of Beech Grove encourages developers and contractors to attend educational workshops and provides them with educational materials on erosion and sediment control for construction sites. Educational materials and information about local workshops are distributed at the City Hall to everyone applying for a building permit.

# PART I

# POST-CONSTRUCTION STORM WATER RUN-OFF CONTROL

# MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP for this minimum control measure (MCM) including timetables and measurable goals.**

Post-construction storm water control best management practices are the responsibility of the City of Indianapolis.

**B). Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility during this reporting period.**

Neither implementation problems nor changes were encountered due to ineffectiveness or infeasibility during this reporting period. Post-construction storm water control best management practices are the responsibility of the City of Indianapolis.

**C). Describe program implementation partnerships and explain successes and barriers.**

The City of Indianapolis (Marion County) and the City of Beech Grove have entered into an agreement that the City of Indianapolis will be responsible for the post-construction storm water management in new development and redevelopment MCM. This agreement was indicated on the Part A and NOI submittal in November 2003 and was verified with a signature on the permit renewal in 2008.

In conjunction with the public education and outreach MCM, the City of Beech Grove inspects structural BMPs at a minimum of once per permit term. Recommendations for improvements are documented and kept on file until deficiencies are corrected. Structural BMPs were last inspected in 2008 and will be inspected again at the end of the permit term (2013).

The City of Indianapolis collects inspection fees for newly installed BMPs. The City of Indianapolis conducts periodic inspections of BMPs in addition to those completed by Beech Grove.

**D). MS4 personnel responsible for implementation of the post-construction minimum control measures shall receive at a minimum annual training. Identify training provided for this minimum control measure during this reporting period.**

Post-construction storm water control best management practices are the responsibility of the City of Indianapolis.

**E). Identify updates or revisions to the post-construction storm water ordinance or other regulatory mechanism made during this reporting period.**

Post-construction storm water control best management practices are the responsibility of the City of Indianapolis.

**F). Other:**

N/A

# PART J

# MUNICIPAL OPERATIONS POLLUTION PREVENTION AND GOOD HOUSEKEEPING

# MINIMUM CONTROL MEASURE

**A). Identify progress made towards development and implementation of each BMP in the SWQMP including timetables and measurable goals during this reporting period.**

See attached Measurable Goals and Programmatic Indicators Tables.

**B). Describe implementation problems encountered and changes made due to ineffectiveness or infeasibility as it relates to pollution prevention and good housekeeping at MS4 owned and operated facilities during this reporting period.**

In 2010 the City of Beech Grove eliminated the storage and application of fertilizers and pesticides by municipal employees and eliminated the use in parks. In years prior to 2010 the City estimates that approximately 2,500 lbs. of fertilizers had been used annually. The City began contracting out weed killing and fertilizing activities in 2011, during which time, neither phosphorous nor phosphates were used on City property. Phosphorous and phosphates are applied on a limited basis to maintain median vegetation on City streets, including Emerson Avenue. Approximately 500 lbs. of fertilizers were used in 2011, compared to 2,500 lbs. annually prior to 2010. Please see the attached Measurable Goals and Programmatic Indicators Tables.

**C). Identify storm water BMPs installed or initiated at MS4 owned and operated facilities.**

Overall, municipal facilities are clean and well organized. Existing storm water BMPs were maintained during this reporting period. The construction of a new deicing salt storage structure was completed during the reporting period. Additionally, SWPPP inspection checklists were developed in 2011 to be used for self-inspections. Please see the attached Measurable Goals and Programmatic Indicators Tables.

**D). Identify and describe appropriate storm water training provided to MS4 employees. Employees are required to have a minimum training once per year.**

The City of Beech Grove conducts storm water training on an annual basis. All BMPs are addressed at training sessions. Training sessions include the following topics as appropriate: street sweeping procedures; maintenance of roadside vegetation and ditch stabilization; litter pick-up; catch basin cleaning procedures; outfall inspection; outfall scouring repair; road salt storage and application; designated snow stockpile area; chemical storage practices; vehicle and equipment maintenance; spill prevention and clean-up practices; fertilizer/pesticide use; recycling and waste disposal. Please see the attached Measurable Goals and Programmatic Indicators Tables.

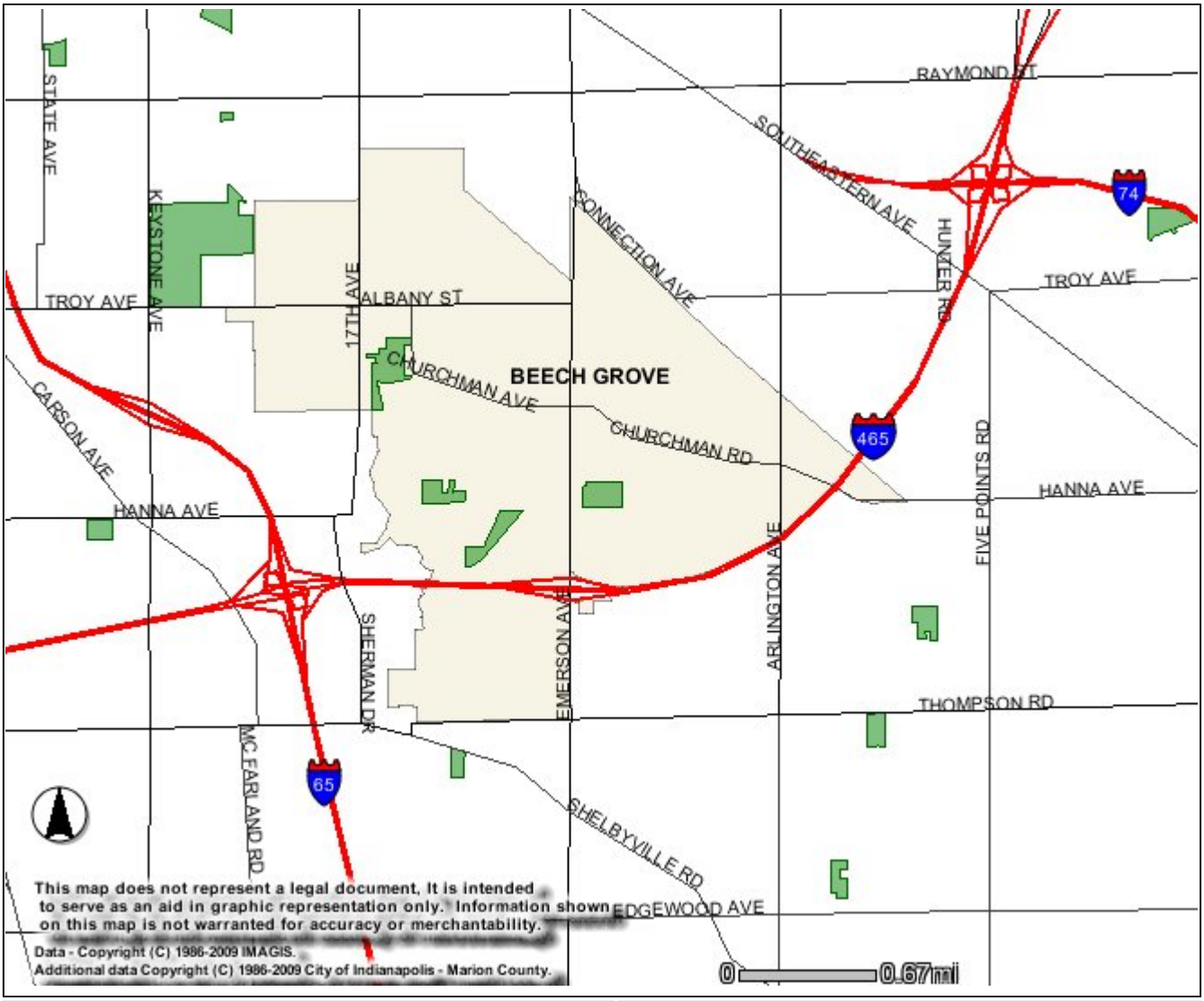
**E). Other:**

N/A

# ATTACHMENTS

- City of Beech Grove Corporate Limits Map
- City of Beech Grove Funding Sources
- City of Beech Grove Outfall Monitoring Results
- City of Beech Grove Industrial Facilities
- Measurable Goals Summary
- Programmatic Indicators Summary

# Indianapolis Custom Map




## Legend

**Major Streets**

- Interstate
- Primary Arterial
- Other

**Rivers**

**Parks**

**Included Towns**

**Excluded Cities**

- Beech Grove
- Lawrence
- Southport
- Speedway

GeoSpatial Information Services
IndyGIS
Indianapolis/Marion County
www.indygov.org/gis

**Application Source:** http://imaps.indygov.org/prod/ GeneralViewer/
This map does not represent a legal document, It is intended to serve as an aid in graphic representation only. Information shown on this map is not warranted for accuracy or merchantability.

# Funding Sources

NPDES Storm Water Phase II Permit
Rule 13 Storm Water Quality Management Plan, City of Beech Grove, Indiana
2008 Renewal application evaluation of funding sources

Primary Funding Sources for Permit Application and Program Implementation

- Local Funding – Motor Vehicle and Highway Fund
- Sewer Fees

Other Possible Funding Sources for Permit Compliance and Plan Implementation

- Local Bonds
- Taxes
- State Revolving Fund Loan - for capital improvement projects
- USDA Rural Development - for capital improvement projects
- Department of Commerce - for capital improvement projects
- Federal Road Funds - for road drainage projects
- U.S. Army Corps of Engineers - for flood control projects
- Economic Development Corporation - for projects related to economic development
- Working with Private Developers

Contact State Legislature and/or Federal Congressmen for alternate funding sources

Beech Grove has developed a Storm Water Master Plan and is assessing the need to implement a storm water user fee.

Revised 8/7/2008

**City of Beech Grove Outfall Monitoring Results (Lick Creek 30)**

| Date collected | Outfall | TSS (mg/l) | Nitrogen, Ammonia (mg/l) | Total Phosphorus (mg/l) | BOD5 (mg/l) | COD (mg/l) | Oil and Grease (mg/l) |
|---|---|---|---|---|---|---|---|
| 5/30/2005 | Lick Creek 30 | 11.7 | <0.5 | 0.05 | <5 | 20.8 | <5 |
| 8/22/2005 | Lick Creek 30 | 10 | 0.597 | 0.067 | <5 | 17.2 | <5 |
| 4/17/2006 | Lick Creek 30 | 9.3 | <0.5 | 0.097 | <4 | 21.5 | <5 |
| 8/3/2006 | Lick Creek 30 | 19 | <0.5 | 0.053 | <6 | 14.3 | <5 |
| 4/19/2007 | Lick Creek 30 | 26 | 0.17 | 0.1 | <5 | 25.6 | <5 |
| 7/19/2007 | Lick Creek 30 | 9 | 0.8 | 0.067 | <5 | 26.3 | <5 |
| 4/28/2008 | Lick Creek 30 | <5 | <0.1 | 0.66 | <5 | 16.5 | <5 |
| 8/5/2008 | Lick Creek 30 | 79 | 0.23 | 0.13 | <5 | 37.8 | <5 |
| 4/20/2009 | Lick Creek 30 | <5 | <0.1 | 0.2 | <5 | 10.5 | <5 |
| 5/26/2010 | Lick Creek 30 | 36 | 0.14 | 0.18 | <5 | 12.8 | <5 |
| 5/7/2012 | Lick Creek 30 | < 5 | < 0.1 | < 0.05 | < 5 | 18.7 | < 5.2 |
| 8/9/2012 | Lick Creek 30 | 67 | 1.1 | 0.16 | 7.5 | 43.8 | < 5.1 |
| Mean Water Quality of Urban Runoff (Industrial) | | 149 | 1.89 | 0.32 | 24 | 85 | N/A |

TSS - Total Suspended Solid
BOD - Biological Oxygen Demand
COD - Chemical Oxygen Demand

Data is compared with mean water quality characteristics of urban runoff according to Terrene Institute, 1996. Adapted from NURP (1983), Horner et. al. (1994), and Cave et al. (1994)

**City of Beech Grove Outfall Monitoring Results (Lick Creek 80)**

| Date collected | Outfall | TSS (mg/l) | Nitrogen, Ammonia (mg/l) | Total Phosphorus (mg/l) | BOD5 (mg/l) | COD (mg/l) | Oil and Grease (mg/l) |
|---|---|---|---|---|---|---|---|
| 5/30/2005 | Lick Creek 80 | <5 | <0.5 | <0.05 | <5 | 20.1 | <5 |
| 8/22/2005 | Lick Creek 80 | 5 | <0.5 | 0.64 | <5 | 14.3 | <5 |
| 4/17/2006 | Lick Creek 80 | 10 | <0.5 | 0.161 | <4 | 31.5 | <5 |
| 8/3/2006 | Lick Creek 80 | <5 | <0.5 | <0.05 | <6 | 17.2 | <5 |
| 4/19/2007 | Lick Creek 80 | 28 | 0.33 | 0.21 | 9.02 | 34.7 | <5 |
| 7/19/2007 | Lick Creek 80 | <5 | 0.13 | 0.064 | <5 | 12.8 | <5 |
| 4/28/2008 | Lick Creek 80 | <5 | <0.1 | <0.05 | <5 | <10 | <5 |
| 8/5/2008 | Lick Creek 80 | 22 | 0.33 | 0.073 | <5 | 30.2 | <5 |
| 4/20/2009 | Lick Creek 80 | 7 | <0.1 | 0.085 | <5 | 21.5 | <5 |
| 5/26/2010 | Lick Creek 80 | <5 | 0.23 | 0.076 | <5 | <10 | <5 |
| 5/7/2012 | Lick Creek 80 | < 5 | 0.21 | 0.06 | < 5 | 21.5 | < 5.2 |
| 8/9/2012 | Lick Creek 80 | 44 | 1.1 | 0.11 | 8 | 39.6 | < 5.2 |
| Mean Water Quality of Urban Runoff (Commercial) | | 77 | 1.23 | 0.33 | 21 | 80 | N/A |

TSS - Total Suspended Solid
BOD - Biological Oxygen Demand
COD - Chemical Oxygen Demand

Data is compared with mean water quality characteristics of urban runoff according to Terrene Institute, 1996. Adapted from NURP (1983), Horner et. al. (1994), and Cave et al. (1994)

**City of Beech Grove Outfall Monitoring Results (Lick Creek 170)**

| Date collected | Outfall | TSS (mg/l) | Nitrogen, Ammonia (mg/l) | Total Phosphorus (mg/l) | BOD5 (mg/l) | COD (mg/l) | Oil and Grease (mg/l) |
|---|---|---|---|---|---|---|---|
| 5/30/2005 | Lick Creek 170 | 8 | <0.5 | 0.073 | 5 | 25.6 | <5 |
| 8/22/2005 | Lick Creek 170 | 5.3 | <0.5 | 0.081 | <5 | 29.5 | <5 |
| 4/17/2006 | Lick Creek 170 | 20.5 | <0.5 | 0.129 | <4 | 22.2 | <5 |
| 8/3/2006 | Lick Creek 170 | 10.8 | <0.5 | 0.129 | <6 | 26.3 | <5 |
| 4/19/2007 | Lick Creek 170 | 17 | <0.05 | 0.085 | 7.92 | 20.1 | <5 |
| 7/19/2007 | Lick Creek 170 | 22 | <0.1 | 0.22 | 12 | 13.5 | <5 |
| 4/28/2008 | Lick Creek 170 | 5 | 0.5 | 0.086 | <5 | 12.8 | <5 |
| 8/5/2008 | Lick Creek 170 | 19 | <0.1 | 0.11 | <5 | 37.2 | <5 |
| 4/20/2009 | Lick Creek 170 | 5 | <0.1 | 0.05 | 5.9 | <10 | <5 |
| 5/26/2010 | Lick Creek 170 | 12 | 0.18 | 0.073 | <5 | 10.5 | <5 |
| 5/7/2012 | Lick Creek 170 | 10 | 7.4 | 0.06 | < 5 | 26.3 | < 5.2 |
| 8/9/2012 | Lick Creek 170 | 5 | < 0.1 | < 0.05 | 3.5 | 21.5 | < 5.2 |
| Mean Water Quality of Urban Runoff (Residential) | | 38 | 1.83 | 0.52 | 38 | 124 | N/A |

TSS - Total Suspended Solid
BOD - Biological Oxygen Demand
COD - Chemical Oxygen Demand

Data is compared with mean water quality characteristics of urban runoff according to Terrene Institute, 1996. Adapted from NURP (1983), Horner et. al. (1994), and Cave et al. (1994)

# Beech Grove Industrial Facilities

| Name | Facility Address | Mailing Address (if different) | Phone | SIC Code(s) |
|---|---|---|---|---|
| ADM Milling Co | 854 Bethel Ave<br>Beech Grove, IN 46107 | P.O. Box 610<br>Beech Grove, IN 46107 | 317-783-3321 | 2041 |
| All Standard Transmissioin Inc. | 201 Bethel Ave.<br>Beech Grove, IN 46107 | P.O. Box 195<br>Beech Grove, IN 46107 | 317-788-8000 | 5015 |
| Amtrack | 202 Walter A Barrick Way<br>Beech Grove, IN 46107 | | 317-263-0400 | 4789 |
| Assurance Locking Systems LLC | 106 S. 10th Ave.<br>Beech Grove, IN 46107 | | 317-786-8724 | 3429 |
| Business Art & Design Inc | 612 Main St<br>Beech Grove, IN 46107 | | 317-782-9108 | 2752, 3993 |
| Firestone Building Products | 3525 Arlington Ave.<br>Beech Grove, IN 46107 | | 317-784-1161 | 3061 |
| Fischer Woodcraft Inc. | 1024 Timber Grove<br>Beech Grove, IN 46107 | | 317-627-6035 | 2431 |
| Huser's Laminates & Custom | 304 Main St<br>Beech Grove, IN 46107 | | 317-782-3582 | 2499 |
| Indiana Oxygen Co Inc | 748 Bethel Ave<br>Beech Grove, IN 46107 | | 317-290-0003 | 2813 |
| Industrial Feeding Systems Inc | 1202 Bethel Ave<br>Beech Grove, IN 46107 | | 317-783-7836 | 3829, 3544 |
| Iron Mountain Information Management Inc. | 6120 Churhman<br>Beech Grove, IN 46107 | | 317-784-2824 | 4226 |
| JCI Jones Chemicals Inc | 600 Bethel Ave<br>Beech Grove, IN 46107 | | 317-787-8382 | 2812, 2819 |

| Name | Facility Address | Mailing Address (if different) | Phone | SIC Code(s) |
|---|---|---|---|---|
| JP Corp | 227 Main St<br>Beech Grove, IN 46107 | | 317-783-1000 | 3599, 3544 |
| Kans for Kids Inc. | 705 Andrea Dr.<br>Beech Grove, IN 46107 | | 317-538-4599 | 5093 |
| Krukemeier Machine & Tool Co | 4949 Subway St<br>Beech Grove, IN 46107 | | 317-784-7042 | 3544, 3469, 3545 |
| L & L Engineering Co Inc | 4925 Subway St<br>Beech Grove, IN 46107 | | 317-786-6886 | 3599, 3544 |
| L & R Machine Co Inc | 3136 S. Emerson Ave.<br>Beech Grove, IN 46107 | P.O. Box 160<br>Beech Grove, IN 46107 | 317-787-7251 | 3599 |
| LS Mold Inc | 846 Bethel Ave<br>Beech Grove, IN 46107 | P.O. Box 705<br>Beech Grove, IN 46107 | 317-781-8745 | 3544, 3599 |
| Midwest Glass Services | 312 Main St.<br>Beech Grove, IN 46107 | | 317-781-1957 | 3231 |
| Power Con Corp | 306 Main St.<br>Beech Grove, IN 46107 | | 317-786-2272 | 3699 |
| Overland Stamp Company | 518 Memorial Dr.<br>Beech Grove, IN 46107 | P.O. Box 84 | 317-787-5560 | 3953 |
| Redox Reactive Reagents | 1500 Albany St.<br>Beech Grove, IN 46107 | | 317-782-7193 | 2835 |
| Sonus-USA Inc. | 1615 Main St.<br>Beech Grove, IN 46107 | | 317-789-2100 | 3842 |
| Ti-Gon Corp | 305 Main St<br>Beech Grove, IN 46107 | P.O. Box 338<br>Beech Grove, IN 46107 | 317-787-1945 | 3535 |
| Times Leader Publications | 301 Main St.<br>Beech Grove, IN 46107 | | 317-787-3291 | 2711 |
| Trucker Hats | 630 Killian Dr.<br>Beech Grove, IN 46107 | | 317-784-9928 | 4213 |

| Measurable Goals Summary -- Beech Grove, Indiana | | | | |
|---|---|---|---|---|
| **Record a check in the years the task was completed or the quantity if applicable. Tasks must be completed annually unless otherwise noted.** | **Page in SWQMP** | **July 1, 2010 - December 31, 2010** | **2011** | **January 1 - June 30, 2012** |
| Post educational information on City stormwater webpage | 12 | Educational information posted (construction site information, ordinances, general storm water information, storm water hotline information, rain garden information, storm water survey, trash pick up schedule, curbside recycling, tox drop program information, street sweeping schedule, etc.) | Educational information posted (construction site information, ordinances, general storm water information, storm water hotline information, rain garden information, storm water survey, trash pick up schedule, curbside recycling, tox drop program information, street sweeping schedule, etc.) | Educational information posted (construction site information, ordinances, general storm water information, storm water hotline information, rain garden information, storm water survey, trash pick up schedule, curbside recycling, tox drop program information, street sweeping schedule, etc.) |
| a) Number of hits to webpage | 12 | In 2012, the City of Beech Grove updated their community website. The ability to track the number of webpage visitors had not been implemented as of June 30, 2012. Tracking the number of webpage views is being considered for future updates. | | |
| Representative storm drain inlets and problem areas were identified for the storm drain marking program. | 13 | Storm drains were marked in the first permit term. The MS4 will continue to evaluate the need to mark additional storm sewer inlets. | A total of seven (7) new drains were marked with pollution prevention messages in 2011. Two (2) are located at the intersection of 16th and Detroit. | No new storm drain inlets were marked with pollution prevention messages in first half of 2012. The City will continue to mark newly installed storm drains with pollution prevention messages. |
| a) Percentage of identified storm drains marked. | 13 | 100% | 100% | 100% |
| Number of pollution prevention signs posted at the Fall Festival event | 14 | Will conduct in Fall 2011 | For the 2011 Fall Festival the MS4 purchased 100 trash containers with a pollution prevention message inscribed on them. Approximately 36 were used at the Fall Festival. | 2012 Fall Festival information will be recorded on the next Annual Report. |
| Number of educational articles published by the Marion County SWCD | 15 | The Marion County SWCD posted 23 news articles to their website between July 1, and December 31, 2010. Topics ranged from Invasive plant management to stormwater conservation. The Marion County SWCD also circulates a regular newsletter quarterly. The summer 2010 and Fall 2010 newsletter were provided for this time period. | The Marion County SWCD posted 12 news articles to their website in 2011. Topics ranged from Groundwater awareness to Waste management. The Marion County SWCD also circulates a regular newsletter. The newsletter was circulated in the Spring and Winter of 2011. | The Marion County SWCD circulates a regular newsletter quarterly. There SWCD published a newsletter in the Winter and Spring of 2012. |
| Number of educational materials distributed to school-aged children and record the restaurant where materials were distributed | 16 | 120 placemats distributed to Sunshine Café | 200 placemats distributed to Main Street Café | 200 placemats were distributed to Lucky 8 Chinese Buffet. |
| Record the number of pre-schools receiving stormwater activity information | 17 | 2 (Kinder Care Learning Center and Montessori Children's House) | 2 (Kinder Care Learning Center and Montessori Children's House) | 2 (Kinder Care Learning Center and Montessori Children's House) |
| Results of the survey will be compiled and sorted by constituent group | 19 | The public awareness survey was originally conducted in 2005. The results of that survey were broken down according to target audience. Overall, 73% of those who responded to the survey had an awareness of storm water quality issues. The MS4 attempted to repeat the survey in 2008 and 2009 with very little participation. In 2010, the MS4 re-evaluated the distribution method in an attempt to get more participation. In 2010 the survey was posted on the City's web site. The goal of this BMP is to conduct a survey once per permit term to assess water quality knowledge and to assist the MS4 in targeting educational activities. 22 surveys were received in 2010. The City is waiting to receive more surveys before analyzing information. | The City received 64 surveys in 2011 with a majority of the surveys coming from the City web site. The total survey count as of 2011 was 86. The City will decide if this is an acceptable number of responses to conduct a survey analysis. | A public awareness survey was conducted in 2010 and 2011. Surveys were made available online at the City's website. A message directing community members to the website to fill out the surveys was incorporated into utilities bills. Surveys were also available at the Beech Grove City Hall and Community Center. These methods attempted to reach all constituent groups. The public awareness surveys were scored according to the population's storm water knowledge and personal habits affecting storm water. The surveyed population scored an average of 61% on their awareness and conduct regarding storm water issues. Residents of the City of Beech Grove were the only constituent group to respond to the storm water survey. Of those residents, 5% classified themselves as public service employees, 2% classified themselves as industrial employees, and 2% classified themselves as construction site personnel. |
| a) Average score of residents | 19 | | | |
| b) Average score of public service employees | 19 | | | |
| c) Average score of commercial facility employees | 19 | | | |
| d) Average score of industrial facility employees | 19 | | | |
| e) Average score of construction site personnel | 19 | | | |
| f) Average score of visitors | 19 | | | |
| Dates of Storm Water Planning Team meetings. | 20 | 4/13/2010 | 5/19/2011 | 2/22/2012 |

| Measurable Goals Summary -- Beech Grove, Indiana | | | | |
|---|---|---|---|---|
| **Record a check in the years the task was completed or the quantity if applicable. Tasks must be completed annually unless otherwise noted.** | **Page in SWQMP** | **July 1, 2010 - December 31, 2010** | **2011** | **January 1 - June 30, 2012** |
| Dates of Community Clean up events. | 21 | Every spring the Parks Board, Greenscape Commission, and Beech Grove Promoter's Club partner with the Parks Department for a Clean-Up Day in the Parks. Volunteers from other community organizations, concerned citizens, and local officials give their time to help get parks ready for the summer season. In 2010, (4/17/2010) volunteers worked many hours in Sarah T. Bolton Park, painting restroom buildings, mulching flower beds, and removing accumulated winter debris. | In 2011, efforts focused on Hartman Park and South Grove Park. Dugouts and outbuildings were painted, shelters cleaned, and winter debris picked up, while Little League parents and volunteers readied the ball diamonds and concession stand for their Opening Day. | On April 21, 2012 the Beech Grove Promoters Club, Beech Grove Board of Parks and Recreation and the Beech Grove Greenscape Commission sponsored the Annual Main Street Clean-up and Parks Clean-Up Day. Assisting the volunteers were members of the Beech Grove Parks Department and Beech Grove Sanitation Department. |
| Number of volunteers participating in the Community Clean-up. | 21 | 35 people participated in annual clean-up day in 2010 | Approximately 30 -40 people participated in annual clean-up day in 2011 | Approximately 40 people participated in annual clean-up day in 2012 |
| Amount of trash collected from the Community Clean-up. | 21 | The amount of trash was not recorded in 2010 | The amount of trash was not recorded in 2011 | The amount of trash was not recorded in 2012 |
| The number of complaints received by the hotline sorted by type (See below). | 22 | | | |
| a) Flooding | 22 | 0 | 1 | 5 |
| b) Erosion | 22 | 0 | 0 | |
| c) Water quality | 22 | 0 | 0 | 2 |
| d) Dumping | 22 | 1 | 0 | |
| e) Construction Site | 22 | 0 | 0 | |
| f) Other | 22 | 2 sink holes due to Holes in storm sewer | 0 | 1 sink hole |
| g) All calls to the Storm Water Hotline were recorded, investigated, and tracked. | 22 | A system for accepting and documenting storm water complaints was developed in the first permit term and has been incorporated into standard procedures at the Public Works Department | | |
| Demonstrate an increase in the amount of waste collected at Tox Drops, with amounts divided into the following categories: | 24 | The City of Beech Grove advertises the Marion County Tox Drop on the Public Works web site. (see attached copy of the web site). The Tox Drop located at the Perry Township Government building is conveniently located southwest of Beech Grove. The following information is for the Perry Township location. | | |
| a) gallons of automobile fluid | 24 | 9,788 lbs of used oil, 236 oil filters, and 0 lbs of antifreeze | 11,261 lbs of used oil, 845 lbs of oil filters, and 210 lbs of antifreeze | Tox Drop numbers are compiled at the end of the year. 2012 information will be reported on the next annual report. |
| b) gallons of lawn and garden chem | 24 | 18,086 lbs of pesticides and herbicides | 24,174 lbs of pesticides and herbicides | |
| c) gallons of paints | 24 | 0 lbs of latex paint | 98,480lbs of latex paint | |
| d) items containing mercury | 24 | 3,024 lbs of items containing mercury | 97 lbs of items containing mercury | |
| e) gallons of household cleaners | 24 | Specific quantities were not available. | Specific quantities were not available. | |
| Number of people participating in the Hazardous Waste Disposal opportunities. | 24 | 3,933 HHW customers. Total pounds of HHW collected 120,894 lbs. | 4,163 HHW customers. Total pounds of HHW collected 220,429 lbs. | |
| Number of outfalls screened for illicit discharges. | 30 | 34 | 25 | 25 |
| Percentage of storm sewer mapped | 34 | 100% of the storm water outfalls were identified in the first permit term | | |
| Percentage of outfalls identified in longitude and latitude. | 34 | 100% of the storm water outfalls were identified in the first permit term | | |
| The mapped and narrative description of the MS4 area and outfall locations were reviewed and updated as needed. | 34 | Complete. There have been no changes. | | |
| Percentage of the storm sewer system mapped in CADD. Entire storm sewer system will be mapped by the end of the permit term. | 34 | 100% of the storm water mapping was completed in CAD in the first permit term | | |
| All construction plans for MS4 projects greater than or equal to one acre in disturbance were reviewed by the County SWCD for construction site erosion and sediment control. | 37 | No projects required Rule 5 permitting. | | |

| Measurable Goals Summary -- Beech Grove, Indiana | | | | |
|---|---|---|---|---|
| **Record a check in the years the task was completed or the quantity if applicable. Tasks must be completed annually unless otherwise noted.** | **Page in SWQMP** | **July 1, 2010 - December 31, 2010** | **2011** | **January 1 - June 30, 2012** |
| Number of construction site runoff and pollution prevention educational materials distributed with building permits | 38 | Educational materials are available to contractors and are distributed with building permits. The City plans to stress documentation and reporting of the ratio of building permits granted by the City to the amount of educational materials distributed to contractors. 91 permits were issued in the second half of 2010 | Educational materials are available to contractors and are distributed with building permits. The City plans to stress documentation and reporting of the ratio of building permits granted by the City to the amount of educational materials distributed to contractors. 178 permits were issued in 2011. | Educational materials are available to contractors and are distributed with building permits. The City plans to stress documentation and reporting of the ratio of building permits granted by the City to the amount of educational materials distributed to contractors. 135 permits were issued in the first half of 2012. In the second half of 2012 the City plans to provide educational materials to contractors when submitting for a permit to conduct work within the City. Licenses are renewed annually, ensuring each contractor who would be legally allowed to conduct work in Beech Grove would receive stormwater educational information |
| Date Post construction BMP training for municipal employees inspecting these BMPs was conducted. | 40 | Public Works Director is involved with BMP inspections and is trained annually during stormwater planning team meetings. | | |
| Date of Structural BMP inspections. | 40 | BMP inspections are conducted once per permit term. Inspections were completed on 8/14/2008. | BMP inspections will be completed at the end of the permit term (2013) | BMP inspections will be completed at the end of the permit term (2013) |
| a) Number of recommendations for improvements to the BMPs. | 40 | There were no recommendations for improvement. | | |
| Date that municipal employees received annual storm water pollution prevention training. | 42 | Annual training was completed in the fist half of 2010. | Annual training was completed on May 19, 2011. | Annual training is to be conducted in the Fall of 2012. |
| Litter was removed from all park property prior to mowing. | 44 | SWPPPs were developed in 2008 for municipal facilities. This BMP is included in the SWPPP for each municipal department and has been incorporated as a standard procedure for mowing activities | | |
| Litter pick up was discussed with all Parks Department employees during annual storm water BMP training. | 44 | Discussed weekly during the mowing season | Discussed weekly during the mowing season | Discussed weekly during the mowing season |
| Number of the top of catch basins cleaned. | 45 | 105 | 110 | 85 |
| Amount of material removed from streets during street sweeping. | 46 | 150 cubic yards | 220 cubic yards | 140 cubic yards |
| Record the linear feet of stabilized roadside shoulders or ditches. | 47 | 0 | 0 | 0 |
| Record the square feet of total area revegetated. | 47 | None | None | None |
| Record the number of storm water outfall areas remediated from scouring conditions. | 48 | 0 | 0 | 0 |
| Number of outfalls inspected during the permit term for erosion and scouring conditions. | 48 | 0 | 25 | 25 |
| Number of outfalls with scouring repaired with riprap, or with additional measures as required. | 48 | None | None | None |
| Road salt was not stored where it can come in contact with storm water. | 49 | This BMP is included in the SWPPP for the Public Works Department. In 2008, the salt barn was damaged. In 2010, the old salt barn was replaced with a new barn. | | |
| Snow stockpiles were only deposited on grass covered snow disposal areas located away from receiving waters. | 49 | This BMP is included in the SWPPP for the Public Works Department. | | |
| a) Snow stockpile areas were discussed in annual storm water training for municipal employees | 50 | employees are trained annually | | |
| Date of inspections of chemical storage, maintenance, and fueling areas. | 51 | 4/13/2010 | 5/19/2011 | To be conducted in Fall of 2012 |
| Date of annual training for all municipal employees on chemical storage. | 51 | 4/13/2010 | 5/19/2011 | To be conducted in Fall of 2012 |
| a) Ensure that spill kits are maintained in close proximity to the refueling areas. | 52 | This BMP is included in the SWPPP for each municipal facility. Spill kits are inspected regularly and restocked when needed. | | |
| Date of annual training for all municipal employees on vehicle and equipment maintenance. | 53 | 4/13/2010 | 5/19/2011 | To be conducted in Fall of 2012 |
| BMPs were implemented to prevent wash water from all municipal vehicle and equipment washing from coming in contact with storm water. | 54 | This BMP is included in the SWPPP for each municipal facility. | | |

| Measurable Goals Summary -- Beech Grove, Indiana | | | | |
|---|---|---|---|---|
| **Record a check in the years the task was completed or the quantity if applicable. Tasks must be completed annually unless otherwise noted.** | **Page in SWQMP** | **July 1, 2010 - December 31, 2010** | **2011** | **January 1 - June 30, 2012** |
| Number of acres where pesticides and fertilizers are applied by the MS4. | 55 | The City no longer applies fertilizer at the baseball diamond and the park entrance. Fertilizers and insecticides were not used in 2010. | The City began contracting out weed killing and fertilizing activities in 2011. During this time neither phosphorous nor phosphates were used on City property. 477 lbs of fertilizer was used in 2011 and 500 lbs in 2012. | |
| a) Total amount of fertilizers and pesticides applied each year. | 55 | 0 lbs fertilizer, 0 lbs pesticides | 477 lbs fertilizer, 0 lbs pesticides | Less than 500 lbs of fertilizers, 0 lbs of pesticides |
| b) Document any change in the frequency of applying fertilizers and pesticides. | 55 | The City eliminated the use of fertilizer in 2010. Approximately 2,500 lbs of fertilizers had been used each year in previous years. | The City began contracting out weed killing and fertilizing activities in 2011. Since that time the City has consistently reduced fertilizer use by 2,000 lbs per year. | |
| 55) No canine parks will be located within 150 feet of a receiving water. | 56 | The City of Beech Grove has a Canine Park in the Sarah Bolton Park. This area is enclosed by a fence and is located greater than 150 feet from the nearest waterway. Users of the park must register to use the park and are told that they must clean up after their pet. All parks in Beech Grove have signs reminding visitors to clean up after their dogs. | | |
| 56) Amount of material recycled from municipal operations. | 57 | 120 gallons of used oil, 52 car batteries, and minimal scrap metals were recycled from municipal operations. The MS4 suspects that individuals are recycling metals on their own in exchange for cash. The MS4 feels that this is an indication that their residents are educated in recycling of metal products. | 200 gallons of used oil, car batteries, and scrap metal were recycled from municipal operations in 2011. | 110 gallons of used oil, 10 car batteries, and 20 cubic yards of scrap metal were recycled from municipal operations during the 2012 reporting period. |
| 58) Any new City-controlled flood management projects were evaluated for water quality impacts. Water quality treatment measures were implemented where feasible. | 58 | None | None | None |

| Programmatic Indicators Summary -- Beech Grove, Indiana | Minimum Control Measures | | | | | | July 1 - December 31, 2010 | 2011 | January 1 - June 30, 2012 |
|---|---|---|---|---|---|---|---|---|---|
| | Public Education and Outreach | Public Participation and Involvement | Illicit Discharge Detection and Elimination | Construction Site Run-off Control | Postconstruction Run-off Control | Pollution Prevention and Good Housekeeping | | | |
| 1) Percentage of all citizens that have an awareness of storm water quality issues | X | | | | | | The public awareness survey was originally conducted in 2005. The results of that survey were broken down according to target audience. Overall, 73% of those who responded to the survey had an awareness of storm water quality issues. The MS4 attempted to repeat the survey in 2008 and 2009 with very little participation. In 2010 and 2011, the Town will re-evaluate their distribution method in an attempt to get more participation. In 2010, ten (10) surveys were received. The MS4 is waiting on more surveys before analyzing the information. | The City received 64 surveys in 2011 with a majority of the surveys coming from the City web site. The total survey count as of 2011 was 86. The City will decide if this is an acceptable number of responses to conduct a survey analysis. | A public awareness survey was conducted in 2010 and 2011. Surveys were made available online at the City's website. A message directing community members to the website to fill out the surveys was incorporated into utilities bills. Surveys were also available at the Beech Grove City Hall and Community Center. These methods attempted to reach all constituent groups. The public awareness surveys were scored according to the population's storm water knowledge and personal habits affecting storm water. The surveyed population scored an average of 61% on their awareness and conduct regarding storm water issues. |
| a) Percentage of residents that have an awareness of storm water quality issues | X | | | | | | | | |
| b) Percentage of public service employees that have an awareness of storm water quality issues | X | | | | | | | | |
| c) Percentage of commercial facility employees that have an awareness of storm water quality issues | X | | | | | | | | |
| d) Percentage of industrial facility employees that have an awareness of storm water quality issues | X | | | | | | | | |
| e) Percentage of construction site personnel that have an awareness of storm water quality issues. | X | | | | | | | | |
| f) Percentage of visitors that have an awareness of storm water quality issues | X | | | | | | | | |
| 2) Number of meetings, training sessions, and events conducted to involve citizens | X | | | | | | 1 Storm Water Planning Team Meeting | 1 Storm Water Planning Team Meeting (5/19/2011) | 1 Storm Water Planning Team Meeting (2/24/2012) |
| 3) Number of citizens that participate in storm water quality improvement projects | | X | | | | | 35 people participated in the April of 2010 in the Clean-up Day | Approximately 30 -40 people participated in annual clean-up day in 2011 | Approximately 40 people participated in annual clean-up day in 2012 |
| 4) Location of storm drains marked with decals | | | X | | | | Storm drains were marked in the first permit term. The MS4 will continue to evaluate the need to mark additional storm sewer inlets. | A total of seven (7) new drains were marked with pollution prevention messages in 2011. Two (2) are located at the intersection of 16th and Detroit. | No new inlet castings with pollution prevention messages were installed during the reporting period. |
| a) Number of storm drains marked with decals | | | X | | | | | | |
| 5) Estimated linear feet of MS4 conveyances mapped | | | X | | | | 303,000 feet | 303,000 feet | 303,000 feet |
| a) Map of MS4 conveyances | | | X | | | | completed | completed | completed |
| 6) Number of MS4 area outfalls mapped | | | X | | | | 34 | 34 | 34 |
| a) Map of MS4 area outfalls | | | X | | | | completed | completed | completed |
| 7) Number of MS4 area outfalls screened for illicit discharges | | | X | | | | 34 | 25 | 25 |
| a) Map of outfalls screened for illicit discharge | | | X | | | | N/A | N/A | N/A |
| 8) Number of illicit discharges detected | | | X | | | | 0 | 0 | 1 |
| 9) Number of illicit discharges eliminated | | | X | | | | 0 | 0 | 1 |
| a) Location of illicit discharges detected and location of illicit discharges eliminated | | | X | | | | No illicit discharges were detected in the second half of 2010. | No illicit discharges were detected in 2011. | Beech Creek |

| Programmatic Indicators Summary -- Beech Grove, Indiana | Minimum Control Measures: Public Education and Outreach | Public Participation and Involvement | Illicit Discharge Detection and Elimination | Construction Site Run-off Control | Postconstruction Run-off Control | Pollution Prevention and Good Housekeeping | July 1 - December 31, 2010 | 2011 | January 1 - June 30, 2012 |
|---|---|---|---|---|---|---|---|---|---|
| 10) Number of local HHW collections | | X | | | | X | Residents of Beech Grove utilize the Marion County (Perry Township) Tox Drop for household hazardous waste disposal. The Tox Drop is open 2 times a month for a total of 24 waste collection opportunities for Beech Grove residents. | | |
| a) Gallons of automobile fluids collected at HHW collections | | | X | | | X | 9,788 lbs of used oil, 236 oil filters, and 0 lbs of antifreeze | 11,261 lbs of used oil, 845 lbs of oil filters, and 210 lbs of antifreeze | Information will be available at the end of 2012. |
| b) Gallons of lawn and garden chemicals collected at HHW collections | | | X | | | X | 18,086 lbs of pesticides and herbicides | 24,174 lbs of pesticides and herbicides | |
| c) Gallons of paints collected at HHW collections | | | X | | | X | 0 lbs of latex paint | 98,480 lbs of latex paint | |
| d) Items containing Mercury collected at HHW collections | | | X | | | X | 3,024 lbs of items containing mercury | 97 lbs of items containing mercury | |
| e) Gallons of household cleaners collected at HHW collections | | | X | | | X | Specific quantities were not available. | Specific quantities were not available. | |
| 11) Number of citizen drop-off centers for automotive fluids | | | | | | X | 4 | 4 | 4 |
| a) Locations of drop-off centers for automotive fluids | | | X | | | X | AutoZone, Jiffy Lube, and Master Express, Marion County Tox Drop | AutoZone, Jiffy Lube, and Master Express, Marion County Tox Drop | AutoZone, Jiffy Lube, and Master Express, Marion County Tox Drop |
| 12) Number of citizens that participate in HHW collections | | X | | | | | 3,933 HHW customers. Total pounds of HHW collected 120,894 lbs. | 4,163 HHW customers. Total pounds of HHW collected 220,429. | Information will be available at the end of 2012. |
| 13) Number of construction sites permitted for storm water quality | | | | X | | | Construction Site Run-off Control and Post-construction Run-off Control BMPs are the responsibility of the City of Indianapolis. | | |
| 14) Number of construction sites inspected | | | | X | | | | | |
| 15) Number of enforcement actions taken against construction site operators | | | | X | | | | | |
| 16) Number of public informational requests received related to construction sites | | X | | X | | | | | |
| a) Names and locations of constructions sites inquired about | | | | X | | | | | |
| 17) Number of structural BMPs installed | | | | X | X | | | | |
| a) Type and location of structural BMPs installed | | | | X | X | | | | |
| 18) Number of structural BMPs inspected | | | | X | X | | | | |
| a) Type and location of structural BMPs inspected | | | | X | X | | | | |
| 19) Number of structural BMPs maintained, or improved | | | | X | X | X | | | |
| a) Type and location of structural BMPs maintained or improved | | | | X | X | X | | | |
| 20) Type and location of nonstructural BMPs utilized | | | | X | X | X | | | |

| Programmatic Indicators Summary -- Beech Grove, Indiana | Minimum Control Measures: Public Education and Outreach | Public Participation and Involvement | Illicit Discharge Detection and Elimination | Construction Site Run-off Control | Postconstruction Run-off Control | Pollution Prevention and Good Housekeeping | July 1 - December 31, 2010 | 2011 | January 1 - June 30, 2012 |
|---|---|---|---|---|---|---|---|---|---|
| 21) Estimated acreage or square footage of open space preserved and mapped | | | | X | X | X | The City of Beech Grove has preserved 165 acres of land with City parks and recreational areas | | |
| 22) Estimated acreage or square footage of mapped pervious and impervious surfaces | | | | X | X | X | Impervious surface areas have not been mapped by the City. | | |
| 23) Number of retail gasoline outlets and municipal/state/federal/institutional refueling areas with installed BMPs | | | | X | | X | 6 locations - Beech Grove Public Works Department, Beech Grove Parks Department, Beech Grove Police Department, Phillips 66 (311 S. 1st Street), Village Pantry (3131 E. Troy Ave.), Speedway (304 S. 1st Street). In 2011, the BP Gas Station on the corner of Emerson Ave and Churchman Ave replaced and potentially added underground fuel storage tanks. | | |
| 24) Number of entity facilities that have containment for accidental releases | | | X | | X | X | 4 facilities: in 2008, the Public Works Department, Fire Department, Police Department and Parks Department developed Storm Water Pollution Prevention Plans (SWPPPs). Best management practices, spill prevention and spill response procedures have been implemented at these municipal facilities. Where practical, spill containment is utilized. | | |
| 25) Estimated or actual acreage or square footage, amount, and location where pesticides and fertilizers are applied by a regulated MS4 entity to places where storm water can be exposed within the MS4 area. | | | X | | | X | 0 acres | The City began contracting out weed killing and fertilizing activities in 2011. During this time neither phosphorous nor phosphates were used on City property. 477 lbs of fertilizer was used in 2011. Fertilizers are used on areas of roadside vegetation and City landscaping, specifically along Emerson Avenue. | The City began contracting out weed killing and fertilizing activities in 2011. During this time neither phosphorous nor phosphates were used on City property. Less than 500 lbs of fertilizer were used in 2012. Fertilizers are used on areas of roadside vegetation and City landscaping, specifically along Emerson Avenue. |
| a) Amount of pesticides and fertilizers applied by the MS4 to areas with exposure to storm water | | | X | | | X | 0 lbs fertilizer, 0 lbs pesticide | | |
| b) Locations where pesticides and fertilizers are applied with exposure to storm water | | | X | | | X | fertilizers were not used in 2010 | | |
| 26) Estimated linear feet or percentage of unvegetated swales and ditches that have an adequately sized vegetated filter strip | | | | | | X | 300 feet in front of the License Branch (4010 S. Emerson Ave.). There is an adequate vegetated buffer along this swale. | | |
| 27) Estimated linear feet or percentage and location of MS4 conveyances cleaned or repaired | | | | | | X | 0 | 0 | 0 |
| 28) Estimated linear feet of roadside shoulders and ditches stabilized | | | | | | X | 0 | 0 | 0 |

| Programmatic Indicators Summary -- Beech Grove, Indiana | Minimum Control Measures: Public Education and Outreach | Public Participation and Involvement | Illicit Discharge Detection and Elimination | Construction Site Run-off Control | Postconstruction Run-off Control | Pollution Prevention and Good Housekeeping | July 1 - December 31, 2010 | 2011 | January 1 - June 30, 2012 |
|---|---|---|---|---|---|---|---|---|---|
| a) Location of roadside shoulders and ditches stabilized | | | | | | X | N/A | N/A | N/A |
| 29) Number and location of storm water outfall areas remediated from scouring conditions, if applicable | | | | | | X | None | None | None |
| a) Location of storm water outfall areas remediated from scouring conditions, if applicable | | | | | | X | N/A | N/A | N/A |
| 30) Number of deicing salt/sand storage areas covered or improved to minimize storm water exposure | | | | | | X | 1 | 1 | 1 |
| a) Location of de-icing salt and sands storage areas | | | X | | | X | Public Works Department | Public Works Department | Public Works Department |
| 31) Estimated amount, in tons, of salt used for snow and ice control | | | X | | | X | 200 tons | 700 tons | 370 tons |
| 32) Estimated amount of material collected from catch basin, trash rack, or structural BMP cleaning | | | X | | | X | 30 cubic yards | 60 cubic yards | 30 cubic yards |
| 33) Estimated amount of material collected from street sweeping, if utilized | | | X | | | X | 150 cubic yards | 220 cubic yards | 140 cubic yards |
| 34) Number of canine parks | | | X | | | X | 1 canine park is located more than 150 feet from a waterway. Vegetation is very well established and maintained as a BMP. Users of the park are required to properly dispose of their pet waste. | | |