

# **Butler County Storm Water District**

Butler County, Ohio



## **NPDES Phase II Annual Report Permit Year 2007**

Ohio EPA General NPDES General Permit: OHQ000001  
Ohio EPA Facility Permit Number: 1GQ00051\*AG  
Effective: April 7, 2003 - April 6, 2008



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## **INTRODUCTION**

The U.S. Environmental Protection Agency (EPA) in December 1999, initiated rules that after March 10, 2003 required local communities to implement and administer an NPDES Phase II Storm Water Program. This “unfunded mandate” requires that all local communities within specified urbanized areas must institute six minimum control measures and establish Best Management Practices (BMP’s) to substantially reduce storm water pollution to our lakes, rivers and streams.

In 2002, Butler County initiated a study to evaluate methods to address these new federal regulations. A Steering Committee was formed with representatives from many of the local governments in the County, including ten of the thirteen townships, five cities and one village, along with other interested parties including the Chamber of Commerce, developers, the Farm Bureau, conservation groups and the Ohio EPA. Over a nine month period, this group reviewed a number of issues including the NPDES Phase II permit requirements, alternative management structures to address this regulation, as well as methods and limits for program funding.

Based upon the recommendation of this Steering Committee, the Butler County Commissioners approved legislation in March 2003 to form the Butler County Storm Water District under Section 6117 of the Ohio Revised Code (ORC). The Commissioners also authorized submitting a permit application to Ohio EPA by March 10, 2003.

On April 7, 2003, the Ohio EPA issued a letter stating that the Butler County Storm Water District was approved for coverage under Ohio EPA NPDES General Permit OHQ000001.

Therefore, in fulfillment of the NPDES Phase II permit reporting requirements, the Butler County Storm Water District (Ohio EPA Facility Permit Number 1GQ00051\*AG) submits the following report to the Ohio EPA which includes the status of compliance with the permit conditions, an assessment of the appropriateness of the BMPs and progress towards achieving the measurable goals for each of the six minimum control measures. The report includes a summary of the activities to be undertaken during the next reporting cycle, including an implementation schedule. As required, the report also will include any changes to BMPs or measurable goals and results of information collected and analyzed, if any, during the reporting period. The report will also contain proposed changes to the SWMP, including changes to any BMPs or any identified measurable goals that apply to the program elements. Details will include notice of where we are relying on another government entity to satisfy some of our permit obligations, if applicable.

**Minimum Control Measure #1**

**PUBLIC EDUCATION AND OUTREACH ON STORM WATER IMPACTS**

**Implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities to the community, in accordance with 3.2.1.1 of Ohio's General Permit.**

**1.1 Media Awareness Packet**

**1.1a Activity: Media Release Packet**

**Date: 4/1/2007- 9/30/2007**

The Butler County Storm Water District has partnered with the Regional Storm Water Collaborative (formerly known as the South West Ohio Storm Water Collaborative) and the local media to create a radio advertising campaign informing residents of illicit discharge and non-point source pollution issues. The result is a campaign that included 6 months of advertising between April 2007 – September 2007. During that time our message was broadcast by the following radio stations: 55KRC, MIX 94.1 FM, KISS 107.1 FM, and 1360 AM The Source.

In addition to reaching residents of 67 Phase II regulated communities, who will save the expense of implementing the program individually, we were able at no added cost to reach the non-urbanized areas of Butler, Hamilton, and Warren counties. Based on information from our media partners, we estimate conservatively that 417,800 individuals in the Greater Cincinnati and tri-state area will hear one or more pieces of the non-point source pollution advertising campaign.

For more information on the South West Ohio Storm Water Collaborative and the non-point source pollution advertising campaign, please visit [www.savelocalwaters.org](http://www.savelocalwaters.org).

**1.2 Education Program for Local Schools**

**1.2a Activity: Draft a Water Curricula Program for children in grades K-3**

**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District, in conjunction with the Butler Soil and Water Conservancy District, reviewed and adopted the "Project WET Curriculum and Activity Guide" to be used as the Water Curricula Program for children in grades K-3. In order to develop a Water Curricula Program that would satisfy local school and state teaching standards as well as accommodate diverse learning styles and provide educators with a large selection of creative teaching strategies, the Butler County Storm Water District reviewed and adopted the "Project Wet Curriculum and Activity Guide".

**1.2b Activity: Education Program for Local Schools**

**Date: 4/7/2007 - 4/6/2008**

This year the Butler Soil and Water Conservation District conducted 103 education programs within NPDES Phase II affected areas in Butler County. These programs reached 2179 students and 108 adults. The Butler Soil and Water Conservation District offers programs and resources to local schools/groups. Full day workshops and introductory programs for the following programs are available: Project WET (Water Education for Teachers), Project WILD Aquatics, stream walks, stream monitoring, and On the Trail of Non-Point Pollution Sources.

**1.2c Activity: Public Education Program for Local Schools**

**Date: 4/7/2007 - 4/6/2008**

The Butler County Department of Environmental Services provides a variety of educational programs to school districts within Butler County. During 2006, the environmental educator made 194 presentations relating to water quality and litter prevention that reached over 4,897 students.

**1.2d Activity: Public Education Program - Project WILD Aquatic**

**Date: 3/16/2007**

The Butler Soil and Water Conservation District held a Project WILD Aquatic workshop for eighteen (18) teachers at the Butler SWCD offices, in Hamilton, Ohio. The Project WILD Aquatic K-12 Curriculum and Activity Guide emphasizes aquatic wildlife and aquatic ecosystems.

**1.2e Activity: Public Education Program – Southwest Ohio Science Institute (SOSI)**

**Date: 6/17/2007**

The Butler Soil and Water Conservation District held a Southwest Ohio Science Institute (SOSI) level 2 workshop for 5<sup>th</sup> grade class. The focus of the event was a water treatment plant visit along with exercises to calculate stream flow and measure water quality. This workshop provides equipment and training for 17 people.

The Southwest Ohio Science Institute is an Ohio Department of Education funded professional development program for teachers. Conducted through Miami University's Discovery Center, SOSI consists of one and two week summer workshops and online follow-up with iDiscovery during the academic year. The workshops help participants deepen their science content knowledge and gain confidence in using hands-on, inquiry based teaching methods.

**1.2f Activity: Public Education Program - Southwest Ohio Science Institute (SOSI)**

**Date: 6/18/2007**

The Butler Soil and Water Conservation District held a Southwest Ohio Science Institute (SOSI) level 1 workshop for 4<sup>th</sup> & 5<sup>th</sup> grades. The focus of the event was water quality testing. This workshop provides equipment and training for 32 people.

The Southwest Ohio Science Institute is an Ohio Department of Education funded professional development program for teachers. Conducted through Miami University's Discovery Center, SOSI consists of one and two week summer workshops and online follow-up with iDiscovery during the academic year. The workshops help participants deepen their science content knowledge and gain confidence in using hands-on, inquiry based teaching methods.

**1.2g Activity: Public Education Program - Southwest Ohio Science Institute (SOSI)**

**Date: 6/25/2007**

The Butler Soil and Water Conservation District held a Southwest Ohio Science Institute (SOSI) level 1 workshop for 6<sup>th</sup> grade at Duke Energy Pond. The focus of the event was water quality testing. This workshop provides equipment and training for 15 people.

The Southwest Ohio Science Institute is an Ohio Department of Education funded professional development program for teachers. Conducted through Miami University's Discovery Center, SOSI consists of one and two week summer workshops and online follow-up with iDiscovery during the academic year. The workshops help participants deepen their science content knowledge and gain confidence in using hands-on, inquiry based teaching methods.

**1.3 Storm Drain Labeling**

**1.3a Activity: Storm Drain Labeling**

**Date: 5/23/2007**

Village of Seven Mile - 20 storm drain labels installed. Illicit discharge information distributed by community volunteers. Storm drain labels are simple and effective best management practices to prevent non-point source pollution from entering waterways in our community and those downstream. The stencils are intended to make urban and suburban homeowners think twice before dumping material down the storm sewers and into rivers, streams, and ponds in their neighborhoods.

**1.3b Activity: Storm Drain Labeling**

**Date: 10/3/2007**

Liberty & Fairfield Township - 306 storm drain labels installed and illicit discharge information distributed by Earth Team Volunteers. Storm drain labels are simple and effective best management practices to prevent non-point source pollution from entering waterways in our community and those downstream. The stencils are intended to make urban and suburban homeowners think twice before dumping material down the storm sewers and into rivers, streams, and ponds in their neighborhoods.

**1.4 Document Decision Process**

**1.4a Activity: Phase II Application & Database Information System (PADIS)**

**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #2  
PUBLIC INVOLVEMENT/PARTICIPATION**

**Implement a public involvement and participation program which at a minimum complies with State and local public notice requirements, in accordance with 3.2.2.1 of Ohio's General Permit.**

**2.1 Public Meetings and Citizen Discussion Panels**

**2.1a Activity: Public Meetings and Citizen Discussion Panel – Butler County Fair  
Date: 7/22/2007 - 7/28/2007**

The Butler County Storm Water District presented a week long open-house forum at the Butler County Fair to allow the public an opportunity review and discuss the Butler County Storm Water Management Plan and the Annual Report. Informational brochures were also distributed about Non-point Source Pollution and Illicit Discharges. An estimated 2,500 people attended the event.

**2.1b Activity: Public Presentation - Butler Soil and Water Conservation District Annual Meeting  
Date: 10/18/2007**

The Butler County Storm Water District presented a poster display at the Butler Soil and Water Conservation District's Annual Meeting. This meeting provided an opportunity to inform the public about the District's Storm Water Management Plan and allowed for public comment. Informational brochures were also distributed about non-point source pollution and illicit discharges.

**2.1c Activity: Public Presentation - Butler County Storm Water District Annual Meeting  
Date: 10/25/2007**

The Butler County Storm Water District held an annual meeting to highlight the Phase II activities conducted during the first permit term and allow an opportunity for public comment. Additional topics of discussion included the sustainability of post construction systems and additional permit requirements for the second permit term.

**2.1d Activity: Public Presentation – Public Works Officials of Southwest Ohio 2007 Meeting  
Date: 11/15/2007**

The Butler County Storm Water District facilitated a discussion on the sustainability of post construction systems, the failure of storm water infrastructure on private property and the selection of BMPs for the Phase II program. Storm Water BMPs installed at the Butler County Engineers Office were also highlighted. The facility improvements include a bioretention area, two oil & grit separators, a water quality pond, and a test area for pervious pavement.

**2.1e Activity: Public Presentation – County Engineers Association of Ohio – 2007 Ohio Storm Water Conference and Trade Show  
Date: 10/30/2007 – 10/31/2007**

The County Storm Water Engineer participated in a discussion panel to discuss the sustainability of post construction systems, the failure of storm water infrastructure on private property and the selection of BMPs for the Phase II program.

**2.2 Stream Clean-up & Monitoring**

**2.2a Activity: Volunteer Stream Monitoring - Butler County Stream Team  
Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District teamed up with Miami University Institute for Environmental Science and the Butler Soil and Water Conservation District to promote and implement a monthly volunteer stream monitoring program to assess local stream quality. The partners jointly determined the criteria for establishing a successful volunteer monitoring program which includes a safe sample collecting method, a realistic sampling and data quality goal and a unique outreach approach. A protocol for the lab and field procedures is currently prepared and

will be submitted to the Ohio EPA Credible Data Program. The supervisors of the volunteer Stream Team program are certified by Ohio EPA as level II Credible Data Collectors for Stream Habitat and Chemistry Assessments. There are 20 fixed locations from watersheds throughout Butler County where samples are collected by Stream Team staff and volunteers each month. Additional samples are also accepted from locations chosen by the volunteer collecting the sample. When samples are returned to the lab, they are analyzed for six parameters: nitrates, phosphates, bacteria, conductivity, total dissolved solids, pH, and turbidity. For more information concerning the Butler County Stream Team, visit : [www.butlercountystreamteam.org](http://www.butlercountystreamteam.org)

**2.2b Activity: Stream Walks**

**Date: 4/7/2007 - 4/6/2008**

The Butler Soil and Water Conservation District conducted 8 challenging, yet entertaining, educational stream and/or wetland walks for 541 children and 51 adults. Local streams included Elk Creek, Indian Creek, and Dry Fork Run. The Wetland visited was the State Route 129 wetland. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

**2.2c Activity: Stream Clean-up - Clean Sweep of the Great Miami River**

**Date: 7/6/2007 - 7/7/2007**

On July 7th and 8th more than 1,000 volunteers participated watershed wide in the "Clean Sweep of the Great Miami River" – an effort to clean up the entire 160-mile river in one weekend. In the Butler County area, approximately 237 participants collected 8.0 tons of litter and 200 tires at six sites along the Great Miami River in Butler County.

**2.3 Storm Water Hotline, Database, and Response Program**

**2.3a Activity: Storm Water Database and Response Program**

**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District created a database and response program to document citizen inquiries/complaints and accurately record contact information. The database and response program recorded over 90 customer inquiries for the year 2007. The database tracks information specific to the customers address, method of contact, nature of inquiry, and detail of inquiry/complaint resolution.

**2.3b Activity: Storm Water Hotline**

**Date: 4/7/2007 - 4/6/2008**

In order to provide easy access to Storm Water District Staff and to provide a quick response to citizen inquiries and complaints concerning storm water, the Butler County Storm Water District continues to dedicate a specific telephone number to serve as the Storm Water Hotline (513) 785-4120. The Storm Water Hotline provides prompt service to the water quality concerns of residents in the Butler County Storm Water District. The hotline enables citizens to call 24-hours a day, seven days a week to report any storm water concerns. The hotline number is published on the Storm Water District website and it is included in all Media Release information.

**2.3c Activity: Storm Water Hotline – Regional Storm Water Collaborative**

**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District has partnered with the Regional Storm Water Collaborative (formerly known as the Southwest Ohio Storm Water Collaborative) to create a centralized storm water hotline number (513-946-3999) for Butler, Hamilton and Warren Counties and the newest collaborative member, Northern Kentucky. The Storm Water Hotline provides prompt service to residents in a three county region. The automated phone service directs the caller to the appropriate jurisdiction and enables citizens to call 24-hours a day, seven days a week to report any storm water concerns. Over the next six months, the hotline number will be publicized through the use of radio and billboard advertisements. For more information on the South West Ohio Storm Water Collaborative and the non-point source pollution advertising campaign, please visit <http://www.savelocalwaters.org>

## **2.4 Document the Decision Process**

### **2.4a Activity: Phase II Application & Database Information System (PADIS)**

**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #3**  
**ILLICIT DISCHARGE DETECTION AND ELIMINATION**

**Create a storm sewer system map, in accordance with 3.2.3.1.2 of Ohio's General Permit.**

**3.1 Illicit Discharge Plan**

**3.1a Activity: Illicit Discharge Plan**  
**Date: 4/7/2007 - 4/6/2008**

The Storm Water District has created an Illicit Discharge plan to document and respond to illicit discharges in a timely manner. Many times these discharges involve an accidental or unauthorized release of contaminants. Types of Illicit discharges could include spills, intentional dumping or industrial emissions. This plan details the steps to investigate, document, and report an illicit discharge as quickly as possible. The plan will be updated annually as additional BMPs are implemented.

**3.2 Locate Problem Areas**

**3.2a Activity: Locate Problem Areas**  
**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District created a database and response program to document and accurately record contact information regarding spill reports, illicit discharges, illegal dumping, and citizen complaints. The information obtained from the hotline and database can be mapped with the use of the county GIS system. Problem areas can be viewed graphically based on type, location, and frequency. This map will be updated on a regular basis to help identify problem areas.

**3.3 Storm Sewer System Map with Outfalls**

**3.3a Activity: Storm Sewer System Mapping**  
**Date: 4/7/2003 - 4/6/2008**

Using "As-Built" data originating from the 1970's and forward, 100% of known sewer systems have been mapped in the Phase II affected areas within the county. Each year as new development occurs throughout the District, the sewer map will be reviewed and updated.

**3.4 HSTS List and Map**

**3.4a Activity: HSTS List and Map**  
**Date: 4/7/2006 - 4/6/2007**

The Butler County Storm Water District researched archived HSTS records held by the Butler County Health Department. The information can be viewed graphically with the use of the county GIS system. A map has been made identifying existing HSTS within the District. Updates are made on an annual basis. All new applications for HSTS will be added to that data.

**3.5 Illicit Discharge Ordinance**

**3.5a Activity: Develop a draft of Illicit Discharge Ordinance**  
**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District has selected outside legal counsel to advise us on this project. Passage of the draft ordinance is imminent pending the county commissioner approval of the appeals board.

### **3.6 Non-Storm Water Discharge Plan**

**3.6a Activity: Non-Storm Water Discharge Plan**  
**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District has drafted a non-storm water discharge plan to detect and eliminate non-storm water discharges, including illegal dumping. The plan will be reviewed and updated on an annual basis.

### **3.7 Dry Weather Screening**

**3.7a Activity: Dry Weather Screening**  
**Date: 4/7/2007 - 11/2/2008**

The Butler County Storm Water District has contracted with the Miami University - Institute for Environmental Science for the dry weather screening and chemical testing of dry weather flows from the existing county storm sewer system. In 2007, more than 403 outfalls have been observed during dry weather.

### **3.8 Chemical Field Tests**

**3.8a Activity: Chemical Field Tests**  
**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District has contracted with the Miami University - Institute for Environmental Science for the dry weather screening and chemical testing of dry weather flows from the existing county storm sewer system. The number of chemical field tests conducted for the 2007 year permit was 200.

### **3.9 Coordinate screening & testing plan with Local Governments**

**3.9a Activity: Coordinate screening & testing plan with Local Governments**  
**Date: 4/7/2007 - 4/6/2008**

The Butler County Storm Water District contracted with DLZ Ohio, Inc. for the mapping of outfalls and the chemical testing of dry weather flows from the existing county storm sewer system. This project included the development of a Protocol manual for screening and testing. The Screening and Testing plan will be continued by the Storm Water District and local governments.

### **3.10 Provide information about the Hazards of Illicit Discharges**

**3.10a Activity: Public Presentations - Hazards of Illicit Discharges**  
**Date: 4/7/2007 - 4/6/2008**

In an effort to create awareness, Storm Water District officials conducted an informational campaign that included citizen groups placing labels on storm drains throughout neighborhoods within the District. Each labeling event includes a presentation to participants on the hazards of illicit discharges. Door hangers were also distributed to inform local residents about the purpose of the storm drain labels and the Hazards of Illicit Discharge.

**3.10b Activity: Public Presentations - Butler County Fair**  
**Date: 7/22/2007 - 7/28/2007**

The Butler Soil and Water Conservation District participated in the Butler County Fair – Farm Zone with an interactive stream table and a clean versus polluted stream display to educate children on water quality and the hazards of illicit discharges. Also displayed was the Hamilton County SWCD's Soil Tent. This tent mural showed the underground world of wildlife, pollution and much more.

**3.10c Activity: Public Presentations - Tri-County Nazarene Church**

**Date: 1/30/2007**

A 30 minute presentation was given to students of the Tri-County Nazarene Church. The students are pursuing their Environmental Badge. Topics included storm water pollution, water quality and the hazards of Illicit discharges. Approximately 5 kids and 3 adults were present.

**3.10d Activity: Public Presentations - Miami University**

**Date: 8/15/2007**

The Butler County Storm Water District participated in the Miami University Environmental Graduate Student Orientation Program. Representatives from county environmental agencies gave short presentations describing the most important environmental concerns facing the county and how their division addresses the problems. The Butler County Storm Water District discussed Non-point source pollution and illicit discharges.

**3.10e Activity: Public Presentations - Test Your Well Water Event**

**Date: 1/14/2008**

Butler County Storm Water District participated with a display and provided information on the hazards of illicit discharge. This event was a free and confidential testing of well water samples for nitrates occurred at Seven Mile Elementary School. Test Your Well events invite private well owners to bring a sample of their well water to be tested for the presence of nitrates and other contaminants at no charge. An innovative aspect of the Test Your Well concept is utilizing students, community organizations and other volunteer groups to offer a valuable service in a non-threatening atmosphere. The events also offer teachable moment for well owners. They learn about non-point source contamination, receive information about water quality and pollution prevention, and have the opportunity to ask questions while their water is tested. Those conducting the event also benefit. They learn about the importance of environmental health, better understand their role in safeguarding drinking water quality, and have a raised awareness about drinking water that can be passed on in their communities.

**3.10f Activity: Public Presentations - Cincinnati Flower Show**

**Date: 6/14/2007**

Representatives from the Butler County Storm Water District volunteered for the Cincinnati Flower Show to educate the public about the function and beauty of rain gardens and how they alleviate runoff and stormwater management concerns. Information was made available on rain gardens, native perennial plant choices and composting. The display included an installed Rain Garden, a table top "slice" through a rain garden showing soils, roots and real-time percolating water; several styles of composting bins, and a small scale green roof.

**3.10g Activity: Public Presentations - Butler County Stream Team Annual Dinner**

**Date: 6/14/2007**

Displays from the Butler County Storm Water District, Butler Soil & Water Conservation District, and the Institute of Environmental Sciences were available for browsing and the coordinators were available for questions. The Storm Water District gave a short presentation on how the monitoring data could be used by the district to locate and eliminate illicit discharges.

**3.10h Activity: Public Presentations - Earth Day (Hamilton, Ohio)**

**Date: 4/20/07**

More than 20 state, regional and local environmental organizations, including the Butler County Storm Water District, were at the event to encourage recycling, resource conservation and awareness of local environmental issues. Downtown workers and passersbys couldn't miss the action at the corner of High Street and Martin Luther King Boulevard. Hundreds of people stopped by to improve their environmental awareness.

**3.10i Activity: Public Presentations – Lakota School District**

**Date: 3/6/08 & 3/17/08**

Over the course of the 2007/2008 school year, the children of Creekside Early Childhood School monitored a stream adjacent to their school building. At the invitation of a local school teacher, a representative of the Butler County Storm Water District spent two afternoons with fifty (50) first

grade children to discuss the form and function of streams as well as the hazards of illicit discharges and non-point source pollution. Each class received copies of Project WET storm water activity workbooks.

### **3.11 Illicit Discharge Brochure**

#### **3.11a Activity: Illicit Discharge Brochure**

**Date: 7/25/2007**

In an effort to inform public employees, businesses and the general public of hazards associated with illicit discharges and improper disposal of waste, the Butler County Storm Water District has distributed "After the Storm" & "Make Your Home the Solution to Pollution" brochures to 13 member governments. Fifty copies of each brochure (1300 copies total) were provided to co-permittees for distribution at public meetings and in government building lobby areas.

#### **3.11b Activity: Illicit Discharge Brochure**

**Date: 10/19/2007**

In an effort to inform the general public of hazards associated with illicit discharges and improper disposal of waste, the Butler County Storm Water District has distributed "Discover Storm Water" Project WET activity guides to 1500 children at the Butler County Water Festival.

### **3.12 News Releases on Illicit Discharges**

#### **3.12a Activity: Illicit Discharge and Non-point Source Pollution Media campaign**

**Date: 4/1/2007 - 9/30/2007**

The Butler County Storm Water District has partnered with the Regional Storm Water Collaborative (formerly known as the South West Ohio Storm Water Collaborative) and the local media to create a radio advertising campaign informing residents of illicit discharge and non-point source pollution issues. The result is a campaign that included 6 months of advertising between April 2007 – September 2007. During that time our message was broadcast by the following radio stations: 55KRC, MIX 94.1 FM, KISS 107.1 FM, and 1360 AM The Source.

In addition to reaching residents of 67 Phase II regulated communities, who will save the expense of implementing the program individually, we were able at no added cost to reach the non-urbanized areas of Butler, Hamilton, and Warren counties. Based on information from our media partners, we estimate conservatively that 417,800 individuals in the Greater Cincinnati and tri-state area will hear one or more pieces of the non-point source pollution advertising campaign.

For more information on the South West Ohio Storm Water Collaborative and the non-point source pollution advertising campaign, please visit [www.savelocalwaters.org](http://www.savelocalwaters.org).

#### **3.12b Activity: News Releases on Illicit Discharges - Clean Sweep of the Great Miami River**

**Date: 10/2/2007**

A media release was prepared and distributed concerning Clean Sweep of the Great Miami River. The article highlighted stream clean-ups as a simple best management practice (BMP) to improve water quality in urban and suburban settings. Stream clean-ups are an excellent method to allow local citizens a chance to see and experience their rivers and streams, while at the same time providing citizens with the opportunity to understand how the impairment of water quality in their community is caused by illicit discharges and illegal dumping. This information was published in the Fall edition of the Butler Soil and Water Conservation District newsletter.

### **3.13 Monitor BMP's**

#### **3.13a Activity: Monitor BMP's**

**Date: 4/7/2007 - 4/6/2008**

Several BMPs for the Butler County Engineer's Office were designed and installed at the property located at 1921 Fairgrove Avenue in Hamilton, Ohio. The facility improvements include a bioretention area, two oil & grit separators, a water quality pond, and a test area for pervious pavement. The design of the bioretention area allows for the collection and treatment of storm water runoff from existing paved areas. In addition to providing pollutant removal, the bioretention facility will add aesthetic appeal to a currently bare area. The bioretention facility is the first of several best management practices which will be installed and monitored at this site.

### **3.14 Document the Decision Process**

#### **3.14a Activity: Phase II Application & Database Information System (PADIS)**

**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #4**  
**CONSTRUCTION SITE STORM WATER RUNOFF CONTROL**

Create an ordinance or other regulation requiring erosion and sediment controls on disturbed sites equal to or greater than one acre that includes sanctions to help ensure compliance, in accordance with 3.2.4.1.1 of Ohio's General Permit.

**4.1 Construction Control Ordinance**

**4.1a Activity: Construction Control Ordinance**

**Date: 3/12/2007 - 3/12/2007**

The Butler County Subdivision regulations were revised in March of 2007 to update sediment and erosion control requirements to current NPDES Construction General Permit requirements. This includes a permitted process with storm water pollution plan review for all parcels within the county.

**4.2 Runoff Control BMP's**

**4.2a Activity: Runoff Control BMP's**

**Date: 4/7/2007 - 4/6/2008**

The Butler County subdivision regulations currently include provisions for peak runoff control. The regulations are being reviewed to include more stringent requirements. The BMP plan will be consistent with the ODNR Rain Water and Land Development Manual and the ODOT Location and Design Manual.

**4.3 Erosion control BMP's**

**4.3a Activity: Erosion Control BMP's**

**Date: 3/12/2007**

Erosion and Sediment Control Regulations: Article VII were adopted as part of the of the Butler County Subdivision regulations on March 12, 2007. The changes were effective during the Summer of 2007. For more information, visit: <http://www.butlerswcd.org/Urban/ESC.htm>

**4.4 Sediment Control BMP's**

**4.4a Activity: Sediment Control BMP's**

**Date: 3/12/2007**

Erosion and Sediment Control Regulations: Article VII were adopted as part of the of the Butler County Subdivision regulations on March 12, 2007. The changes were effective during the Summer of 2007. For more information, visit: <http://www.butlerswcd.org/Urban/ESC.htm>

**4.5 Site Plan Review and Inspection Process**

**4.5a Activity: Site Plan Review and Inspection Process**

**Date: 4/7/2006 - 4/6/2008**

Site Plans are currently being reviewed for drainage and runoff. A mechanism is in place with the County Building Department to have the County Engineers Office and the Storm Water District to review any permit application for commercial development. As new regulations are implemented under the Butler County Subdivision regulations, the site plan review and inspection process will be updated as part of the building permit process.

#### **4.6 Document the Decision Process**

##### **4.6a Activity: Phase II Application & Database Information System (PADIS)**

**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #5**

**POST-CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT**

**Develop, implement, and enforce a program to address storm water runoff from new development and redevelopment projects that disturb greater than or equal to one acre, in accordance with 3.2.5.1.1 of the Ohio General Permit.**

**5.1 Post construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)**

**5.1a Activity: Post Construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)  
Date: 4/7/2006 - 4/6/2008**

County flood regulations currently require RC and BZ on all first order channels within FEMA defined floodplains. (Butler County Flood Damage Prevention Regulations 5.2-11 as adopted 06/10/2002). Revisions are being made to require RC and BZ on all blue line streams, second order or greater, as defined within the USGS Quadrangle. Draft Floodplain Regulations are pending approval at ODNR.

**5.2 Long Term RC and BZ Stability Plan**

**5.2a Activity: Long Term RC and BZ Stability Plan  
Date: 4/7/2003 - 4/6/2008**

Long term RC and BZ stability will be implemented and enforced within five years. Home Owner Associations (HOA), Property Owner Associations, Township Parks maintain Buffer Zones. A Flood Permit is required from the County to allow any maintenance or work occurring in these areas. County flood regulations require RC and BZ on all blue line streams. (Butler County Flood Damage Prevention Regulations 5.2-11 as adopted 06/10/2002).

**5.3 Update Zoning Ordinances**

**5.3a Activity: Update Zoning Ordinances  
Date: 4/7/2007 - 4/6/2008**

Butler County zoning ordinance was updated on April 21, 2006 to address farmland preservation, open space requirements, and planned conservation development districts. Hanover and Ross townships are evaluating the feasibility of implementing township controlled zoning. These two communities are currently under County zoning. In addition, the County has adopted an overlay district within Ross Township for the purpose of land use management, storm water runoff, wellhead protection, and density restrictions. The overlay district is more stringent than the underlying zoning. Liberty Township is modifying their zoning ordinance to update conservation development, planned unit development and corridor overlays which contain storm water requirements.

**5.3b Activity: New Miami Source Water Protection Overlay  
Date: 4/7/2007 - 4/6/2008**

In a project sponsored by the Ohio-Kentucky-Indiana Regional Council of Governments (OKI), 10 project partners, including the Butler County Storm Water District, have agreed to pool their talents for identifying potential sources of drinking water pollution in Butler county. The Village of New Miami has joined the project to develop a drinking water protection plan for the village's public water system. The purpose of this plan is to prevent contamination of New Miami's drinking water source, which is groundwater underlying a small part of the village and a larger area to the north in St. Clair Township. The relationship between surface water and ground water underlies project plans. The Great Miami River and its tributaries replenish an underground aquifer that provides drinking water to more than a 500,000 people in a 15-county region.

**5.3c Activity: St. Clair Comprehensive Plan**  
**Date: 4/7/2007 - 4/6/2008**

St. Clair Township is in the process of updating its comprehensive plan. Leading the planning effort is OKI Regional Council of Governments, whose services for this project have been made possible through funding by the Miami Conservancy District. OKI is partnering with an advisory committee which includes the Butler County Storm Water District.

The Comprehensive Plan will set the groundwork and foundation for updates to the zoning code and changes to the existing and proposed land use plan. Other items integral to the comprehensive plan include wellhead source water protection, storm water management and flood control.

**5.4 Long Term Stability of Zoning Ordinances**

**5.4a Activity: Long Term Stability of Zoning Ordinances**  
**Date: 4/7/2006 - 4/6/2007**

Long Term Stability of Zoning Ordinances is based upon the requirement in the Ohio Revised Code for changes and modification of zoning code. Zoning ordinances will always be in effect and enforced through each entities respective zoning board.

**5.5 Document the Decision Process**

**5.5a Activity: Phase II Application & Database Information System (PADIS)**  
**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

**Minimum Control Measure #6**

**POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS**

**Develop and implement an operation and maintenance program that includes a training component to prevent/reduce pollutant runoff from municipal operations, in accordance with 3.2.6.1.1 of Ohio's General Permit.**

**6.1 Train Government Employees**

**6.1a Activity: Train Government Employees - BCDES Administrative Center  
Date: 4/7/2007 - 4/6/2008**

A Pollution Prevention (P2) program has been implemented for the three floors of administrative and office space utilized by BCDES. P2 efforts focus on solid waste reduction, recycling awareness and energy efficiency. A work force of over 50 employees participates in the program. BCDES' "P2 Team" meets about twice per year to discuss the effectiveness of the program and potential areas for program expansion.

**6.1b Activity: Train Government Employees - LeSourdsville Regional Water Reclamation Facility  
Date: 4/7/2007 - 4/6/2008**

A P2 program focused on solid waste reduction, recycling awareness and energy efficiency has been implemented for this facility. Over 80 employees located at LeSourdsville participate in the program. BCDES' "P2 Team" meets about twice per year to discuss the effectiveness of the program and potential areas for program expansion.

A Storm Water Pollution Prevention Plan (SWPPP) has been developed and implemented for LeSourdsville per a requirement of the facility's general industrial storm water discharge permit. The SWPPP requires regular site monitoring, inspections, and employee training. The Plan also requires the identification of storm water pollutant sources, and the implementation of best management practices (BMPs) for the control of said sources. BCDES' Regulatory Compliance Team, which meets twice per month, ensures that all requirements related to storm water management are met.

A Spill Prevention Control and Countermeasure (SPCC) Plan has also been developed and implemented for this facility. Monthly inspections and annual training (emergency response) are also required by the Plan. BCDES' Regulatory Compliance Team, which meets twice per month, ensures that all requirements related to spill prevention and control are met.

**6.2 Maintenance Schedule**

**6.2a Activity: Maintenance Schedule  
Date: 12/21/2007**

On December 21, 2007 the Butler County Storm Water District selected URS Corporation to develop and implement a Storm Water Pollution Prevention Plan for all municipal facilities within the district. Each plan contain elements for operation and maintenance programs, pollution prevention/good housekeeping employee training programs, and a list of appropriate best management practices (BMPs) specific to each facility.

**6.3 Inspection Plan for BMP's**

**6.3a Activity: Inspection Plan for BMP's  
Date: 4/7/2004 - 4/6/2008**

In addition, the Butler County Engineers Office coordinates and plans inspections of all drainage structures within the District on an annual basis. Facilities and structures have maintenance

performed as necessary based upon inspection results. A report is issued annually to the County commissioners on all inspection and maintenance activities.

#### **6.4 Illegal Dumping and Control Program**

**6.4a Activity: Illegal Dumping and Control Program**

**Date: 4/7/2007 - 4/6/2008**

An Illegal Dumping and Control Program has been drafted to include radio advertising, billboard advertising, clean-up events, recycling events, and anti-dumping signage posted at local stream crossings. Program activities are reviewed annually and additional elements will be added as needed.

**6.4b Activity: P.R.I.D.E. Program**

**Date: 1/1/2007 - 12/31/2007**

PRIDE stands for "Providing Responsibilities for Inmates through Duties for the Environment". Led by the litter crew supervisor, inmates from the Resolutions medium security prison collect litter along public rights-of-ways and in parks and, sometimes, assist in the removal of waste from illegal dumpsites.

• PRIDE Crew "common litter" collected in 2007 (in pounds):

1st Qtr 1,039  
2nd Qtr 1,421  
3rd Qtr 822  
4th Qtr 819

•PRIDE Crew hours worked in 2007:

1st Qtr 433  
2nd Qtr 456  
3rd Qtr 304  
4th Qtr 336

•PRIDE Crew miles traveled in 2007:

1st Qtr 50.5  
2nd Qtr 60.35  
3rd Qtr 73.4  
4th Qtr 157.5

**6.4c Activity: Computer Recycling Event**

**Date: 3/1/2007 - 9/30/2007**

Computer Recycling events are sponsored by Butler County's Solid Waste Management District. The 2007 events were held at the Butler County Filling Station (1715 Fairgrove Ave.) resulted in the collection of 81.74 tons of electronics and computer equipment.

**6.4d Activity: Household Hazardous Waste Program**

**Date: 6/1/2007 - 9/30/2007**

Household Hazardous Waste Recycling Events are sponsored by Butler County's Solid Waste Management District. The 2007 events resulted in 106 tons of household hazardous waste collected for safe processing, disposal, or recycling.

**6.4e Activity: Curbside Freon Appliance Collection Program**

**Date: 4/1/07 – 12/31/07**

Curbside freon appliance collection is sponsored by Butler County's Solid Waste Management District. The 2007 program resulted in the collection of 76.01 tons of freon containing appliances.

**6.4f Activity: Cleanup Event - Clean Sweep of the Great Miami River**

**Date: 7/7/2007**

Butler County agencies participated in a volunteer stream cleanup in Butler and Hamilton Counties. Approximately 237 participants collected 8.0 tons of litter at six sites along the Great

Miami River in Butler. The event was coordinated in conjunction with the Clean Sweep of the Great Miami River.

**6.4g Activity: Tire Collection at Ross High School**

**Date: 11/3/2006**

Tire collection is sponsored by Butler County's Solid Waste Management District. The November event held at the Ross Township High School resulted in the collection of 81.56 tons of tons of tires.

**6.5 Document the decision process**

**6.5a Activity: Phase II Application & Database Information System (PADIS)**

**Date: 4/7/2007 - 4/6/2008**

The Storm Water District's annual reporting activities were recorded and documented with the use of the Phase II Application & Database Information System (PADIS) provided by the Miami Conservancy District. The Butler Storm Water District documented the decision process for the development of a storm water public education and outreach program through the use of PADIS. The decision process documentation includes individual BMP's, measurable goals, and persons responsible for the program.

## **Butler County Storm Water District Additional Bonus Activities**

### **B1**

#### **Activity Title: Watershed Signage**

**Date:** 2007

The Butler County Storm Water District is involved with public awareness and education of the watersheds throughout Butler County. This is accomplished in part by coordinating stream crossing sign installation with public awareness and education programs. In the year 2007, Butler County Storm Water District was responsible for installing and replacing stream crossing signage at 30 locations.

### **B2**

#### **Activity Title: Butler County Water Festival**

**Activity Description:** Classroom Presenter

**Date:** 10/19/2007

The Butler County Water Festival was held October 13, 2006 at Miami University Hamilton. The "Hands on Day of Discovery" was attended by over 1,000 fourth, fifth and sixth graders, and over 100 presenters and volunteers from across Butler County. A representative from the Butler County Storm Water District assisted with water related activities for 5 classes of children. Children learned about various topics such as watersheds, aquifers, storm water, and non-point source pollution. The Butler County Storm Water District also supported the festival financially with a donation of \$2000.

### **B3**

#### **Activity Title: Great Miami River Festival**

**Activity Description:** Great Miami River Festival Committee

**Date:** 2007 - Monthly Meetings

The Butler County Storm Water District is a major sponsor and a participating member of the Great Miami River Days Festival Committee. Great Miami River Days features historical and recreational events while conservation and recreation organizations participate with hands-on displays to help citizens understand the value of the river – both as a natural resource and an economic-development tool. It is estimated that 25,000 people attended last year's event. Since October of 2003 a member of the Butler County Storm Water District has participated in all monthly meetings. Other groups participating in the Festival Planning committee include Friends of the Great Miami; Miami Conservancy District; Hamilton SWCD; St. Clair Township, Butler County; Butler SWCD, Butler County Storm Water District; Butler County Department of Environmental Services; Land Conservancy of Hamilton County. The event is used to promote watershed education and recreational activities associated with the Great Miami River. A portion of the proceeds from Great Miami River Days will be donated to the Great Miami River Recreation Trail project, which will ultimately connect existing trails in Montgomery, Greene, Clark, Warren and Clermont Counties with Butler County. To find out more about River Days, visit <http://www.greatmiamiriverdays.org/>

### **B4**

#### **Activity Title: Mill Creek Watershed Council**

**Activity Description:** Quarterly Council Meetings

**Date:** 2007 - Quarterly Meetings

A representative from the Butler County Storm Water District participated in quarterly meetings of the Mill Creek Watershed Council. The purpose of the Mill Creek Watershed Council is to maintain and enhance the asset-value of the Mill Creek by providing resources to the communities and the region to realize lasting benefits. The Mill Creek Watershed Council is a publicly funded, non-profit corporation representing all 37 political jurisdictions in the Mill Creek watershed. The Council acts as a forum for making watershed-based decisions by convening and coordinating meetings and projects related to the improvement of the Mill Creek. Through these forums, the Council invites public input on watershed-related issues. The full council meets quarterly at locations throughout the watershed and creates a quarterly newsletter, Voice of the Mill Creek, that is mailed to approximately 1400 addresses throughout the watershed. Please visit the following website for additional information:  
<http://www.millcreekwatershed.org/home.html>

### **B5**

**Activity Title: Mill Creek Watershed Council Executive Committee**

**Activity Description:** Executive Committee Meetings

**Date:** 2007 Monthly Meetings

A representative from the Butler County Storm Water District participated in monthly meetings of the Mill Creek Watershed Council Executive Committee. The Mill Creek Watershed Council's Executive Committee is comprised of the three council officers, chairs of the standing committees and five members at large. This group coordinates activities of the standing committees and provides oversight of council activities.

**B6**

**Activity Title: Local restoration and habitat improvement projects**

**Activity Description:** Stream Stabilization projects

**Date:** 04/07/2006 – 04/06/2007

Butler County Department of Environmental Services has continued involvement in local restoration and habitat improvement projects, including post-implementation water quality monitoring activities. Such projects include:

*West Chester Township Stream Restoration, Wetlands Improvement and Habitat Reconstruction project (FY-2005 319 & Clean Ohio project):* BCDES assisted with grant application process, as well as project funding and planning. Engineering, design and construction will occur in 2008 for the West Chester Service Center site and possibly another location reviewed during the planning process.

*The Mill Creek Confluence Restoration Project* collaborated between MCWCC, Butler County Dept. of Environmental Services, Metropolitan Sewer District of Greater Cincinnati, and the City of Sharonville received a \$1.7 million Ohio Water Pollution Control Loan Fund through the Water Resource Restoration Sponsor Program (WRRSP). This project will bring the confluence on the Mill Creek (main stem) and East Fork into attainment with Warm Water Habitat Aquatic Life Use standards.

**B7**

**Activity Title: Local restoration and habitat improvement projects**

**Activity Description:** Five Star Restoration Grant - Wetland Extended Detention Basin Project

**Date:** 04/07/2007 – 04/06/2008

**Responsible Party:** Multiple Local Partners

Project partners continue to monitor an existing detention basin which was restored to a riparian wetland, principally to provide habitat and treat upland runoff before entering the Upper Mill Creek. The monitoring program was enacted by the partners to evaluate the efficiency of the wetland in its assimilation of pollutants following storm events. Serving as a natural method to treat non-point source runoff, the project also provides a local example of the type of palustrine environment that once existed in the Mill Creek Watershed before urban and suburban land uses dominated the landscape.

Project partners include the Butler SWCD, Butler County Stormwater District, Beckett Ridge HOA, Mill Creek Watershed Council, Ohio Department of Natural Resources, and Miami (OH) University's Institute of Environmental Sciences (IES)

**B9**

**Activity Title: Southwest Ohio Sediment and Erosion Control Field Day**

**Activity Description:** Construction and Post Construction BMP workshop

**Date:** 6/12/2007

This event was sponsored by Butler County Storm Water District, Butler Soil and Water Conservation District, Hamilton Soil and Water Conservation District, Warren Soil and Water Conservation District, Miami Conservancy District and Warren County Career Center. Nearly 150 developers, home builders, engineers, contractors, and construction site inspectors attended. The format of the day included a plenary session with several guest speakers, concurrent sessions, and live outdoor demonstrations. This year's Field Day featured expert speakers addressing topics such as homebuilder enforcement information, water quality structures, and a guide to plan reviews, as well as an outside tour and vendors highlighting innovative sediment, erosion, and runoff controls.

**B11**

**Activity Title: Water Management Association of Ohio**

**Activity Description:** Ohio Storm Water Task Force

**Date:** 2007 – Quarterly

A representative from the Butler County Storm Water District attended Ohio Storm Water Taskforce Committee Meetings. The Ohio Storm Water Task Force is a grassroots organization made up of a wide variety of stakeholders throughout the state. Membership includes township, municipal and county officials, representatives from development organizations, state government, environmental groups, consultants and other interested persons. The group's mission is to reduce the negative impact of storm water on society and natural resources by promoting its effective management through education, leadership, watershed-based coordination, and technical assistance throughout the state of Ohio.

**B11**

**Activity Title: Greater Cincinnati Rain Garden Alliance**

**Activity Description:** Steering committee and Technical Committee

**Date:** 2007 Meetings

The Greater Cincinnati Rain Garden Alliance is an initiative launched by the Mill Creek Watershed Council of Communities to promote Rain Gardens and green design in the region. The Alliance is a resource for information and technical assistance regarding rain gardens. We promote rain gardens and other natural systems as a way to help manage storm water concerns and to beautify our landscapes. The Rain Garden Alliance is a collaboration among local governments, organizations, interested citizens, and Master Gardeners.

## Miami Conservancy District's 2007 Phase II Stormwater Activities for Collaborating Communities

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In order to comply with Phase II Storm Water regulations, the Miami Conservancy District completed the attached list of activities in the areas of education, public involvement, and outfall identification.

Since the Butler County Storm Water District is a partner in the storm water compliance collaborative within the Great Miami River Watershed, these activities are included in the Annual Report as compliance activities.

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### Minimum Control Measure #1

#### Public Education and Outreach on Storm Water Impacts

**1.3 \*Hold training opportunities for technical audiences &/or facilitate the attendance of key professionals at regional training opportunities**

**Activity Title: Environmental Forum: Low Impact Development**

**Activity Description:** Miami Conservancy District partnered with several local agencies and a statewide professional association (the Environmental Education Council of Ohio) to host an Environmental Forum featuring Low Impact Development.

**Start Date:** 4/26/2007

**End Date:** 4/26/2007

**Result Statement:** The format of the day allowed participants to express and hear different perspectives about Low Impact Development, and to tour a local site incorporating low impact design. Speakers for the event included local site designers including landscape architects and civil engineers. This educational event targeted stormwater professionals who are likely to have significant storm water impacts in the Great Miami River Watershed. Twenty-nine individuals attended the forum.

**Activity Title: Southwest Ohio Sediment and Erosion Control Field Day**

**Activity Description:** Miami Conservancy District provided financial and promotional support for the Southwest Ohio Sediment and Erosion Control Field Day, held at the Warren County Career Center.

**Start Date:** 6/12/2007

**End Date:** 6/12/2007

**Result Statement:** More than 100 construction erosion control professionals attended, learning firsthand about the value of controlling the quality and quantity of storm water runoff from construction sites both during and after construction. This educational event targets the development community, design firms, homebuilders, regulators from various jurisdictions, vendors of current erosion and sediment control products and other construction erosion control professionals.

**Activity Title: Great Miami River Watershed Stormwater Collaboration Meeting**

**Activity Description:** MCD staff developed and hosted a workshop for local government employees and policymakers responsible for complying with federal stormwater regulations under the Clean Water Act.

**Start Date:** 11/1/2007

**End Date:** 11/1/2007

**Result Statement:** The agenda dealt with the needs identified by the audience in a survey taken earlier in the year. Participants learned about the Ohio EPA's expectations for the next fiveyear

permit cycle beginning in 2008, as well as local initiatives to improve yard waste disposal and better communicate with local fire departments and Ohio EPA emergency responders. Sixtyseven individuals attended. This educational event targeted stormwater professionals who are likely to have significant storm water impacts in the Great Miami River Watershed.

#### **1.4 \*Coordinate a tour of storm water BMPs for practitioners**

##### **Activity Title: Stormwater BMP Tour**

**Activity Description:** Miami Conservancy District coordinated a tour of Best Management Practices on September 9, 2007. Featured during the tour were rain gardens, pervious pavers, wetlands and discussions regarding their design and maintenance. Stops included Fairborn's Hidden Hills Wetland, the Fairborn Senior Center rain gardens and Wenger Woods pervious pavers and rain gardens in Brookville.

**Start Date:** 9/6/2007

**End Date:** 9/6/2007

**Result Statement:** Approximately 30 people attended the Best Management Practices tour. Attendees included developers, site designers, and stormwater managers. This educational event targeted stormwater professionals who are likely to have significant storm water impacts in the Great Miami River Watershed.

### **Minimum Control Measure #2**

#### **Public Involvement and Participation**

#### **2.1 \*Stream Team volunteer BMP monitors collect data and report on stream health**

##### **Activity Title: Stream Team**

**Activity Description:** The Miami Valley Stream Team is a volunteer water quality monitoring program. Stream Team trainings were held to train volunteers how to monitor the health of our rivers and streams. The training sponsored by the Hebble Creek Watershed Group and the Fairborn Parks and Recreation Department, trained volunteers who will collect data on the Hebble Creek. The Stream Teams are managed by local community organizations but MCD staff provides information and resources at their request.

**Start Date:** 7/28/2007

**End Date:** 7/28/2007

**Result Statement:** In 2007, Miami Conservancy District trained more than 30 volunteers on how to collect data about the chemical, biological and physical condition of their local streams. The goals of the Miami Valley Stream Team are to: increase public involvement in water quality issues through handson training of volunteers, including instream monitoring and cleanup activities, educate local communities about the relationship between land use and water quality and to provide water quality information to citizens and organizations working to protect the Miami Valley's rivers and streams. MCD staff instruct volunteers in specific urban stormwater pollution sources and ways they can reduce their personal contribution to stormwater runoff problems. This community collaboration involves and educates the public.

#### **2.2 \*Great Miami River Watershed Network meets to strategize and share resources**

##### **Activity Title: Great Miami River Watershed Network**

**Activity Description:** Miami Conservancy District hosted three meetings of the Great Miami River Watershed Network in 2007. Formal discussion topics included; Financial Stability for Watershed Management, Working with Planning and Zoning to Protect Natural Resources and Effective Education and Outreach for Protecting the Environment.

**Start Date:** 1/24/2007

**End Date:** 1/24/2008

**Result Statement:** Seventy eight individuals participated in the Network in 2007, with each meeting averaging 29 participants. Miami Conservancy District maintained information about the group's meetings on MCD's Web site, including Network minutes and presentations of past meetings. This community collaboration involves and educates the public.

#### **2.4 \*Support existing water festivals for children and the general public**

##### **Activity Title: Dayton Children's Water Festival**

**Activity Description:** Miami Conservancy District staff served on the planning committee for the

Dayton Children's Water Festival held in May on the campus of the University of Dayton. This festival reaches students from Miamisburg, Fairborn, Beavercreek, and Dayton.

**Start Date:** 5/9/2007

**End Date:** 5/9/2007

**Result Statement:** Staff recruited and managed 40 presenters. These presenters made several 30minute presentations to classes of fourth graders. Approximately 1,500 children benefited from the learning experience. This community event involves and educates the public.

**Activity Title:** Water Festivals

**Activity Description:** Miami Conservancy District staff participated in several water festivals throughout the Great Miami River Watershed. Participation included financial sponsorship, advice, displays, and presentations.

**Start Date:** 1/24/2007

**End Date:** 1/24/2008

**Result Statement:** These events included the Honey Creek Watershed Festival, the Stillwater River Festival, the Great Miami River Days and the Butler County Water Festival. These community collaborations involve and educate the public.

### **Minimum Control Measure #3**

#### **Illicit Discharge Detection and Elimination**

##### **3.1 \*Become familiar with storm sewer system**

**Activity Title:** Outfall Identification

**Activity Description:** Outfall identification included the following: gathering existing storm sewer maps and other data on known outfall locations from municipalities, field locating the outfalls and establishing coordinates using GPS receivers, gathering pertinent information about each outfall including description and receiving stream, and entering data into the Phase II Application and Database Information System (PADIS).

**Start Date:** 1/24/2007

**End Date:** 1/24/2008

**Result Statement:** In 2007, Miami Conservancy District located outfall locations in the following municipalities: Carlisle, Clayton, Englewood, Fairborn, Germantown, German Township in Clark County, Monroe Township in Miami County, Moorefield Township in Clark County, Riverside and Union.

MCM No.	Minimum Control Measure	BMP No.	BMP's	2008	Responsibility
1	Public Education and Outreach	*1.1.1	<u>Media Awareness Packet</u>	Revise Press Release and redistribute to local media	District
		*1.1.2	<u>Education Program for Local Schools</u>	Implement K-12 program by distributing materials to schools and training educators.	BSWCD
		*1.1.3	<u>Storm Drain Labeling</u>	Coordinate program, choose locations, purchase labels, and oversee instillation of 300 labels	BSWCD
		1.2.1	Document Decision Process	Yearly documentation	District
2	Public Involvement / Participation	*2.1.1	<u>Public Meeting</u>	Set and facilitate Annual Storm Water District Public Meeting	District
		*2.2.2	<u>Stream Clean-up &amp; Monitoring</u>	Build volunteer base, facilitate and oversee Clean-Up and Monitoring activities	District
		*2.2.3	<u>Storm Water Hotline, Database, and Response Program</u>	Answer calls, build database, perform field re-con and/or interviews in a timely manner	District
		1.2.1	Document Decision Process	Yearly documentation	District
3	Illicit Discharge Detection and Elimination	3.1.1	Illicit Discharge Plan	Continue to implement illicit discharge plan and coordinate with local governments	District
		*3.1.1.1	<u>Locate Problem Areas</u>	Interview complainants, research site history, and update database	District
		3.2.1	Storm Sewer System Map with Outfalls	Annual update of GIS mapping, field work, and surveying	District
		3.3.1	HSTS List and Map	Annual update of GIS mapping, field work, and surveying	District
		3.4.1	Illicit Discharge Ordinance	Public notice and adoption of Illicit Discharge Ordinance	District Local
		3.5.1	Non-Storm Water Discharge Plan	Continue to implement non-storm water discharge plan to detect and monitor discharges	District
		3.5.1.1	Dry Weather Screening	Monitor and sample outfalls while mapping and documenting findings for 400 outfalls	District
		3.5.1.2	Chemical Field Tests	Conduct field tests, and monitor results of 200 samples in various stream miles	District
		3.5.1.3	Coordinate screening & testing plan with Local Governments	Organize Plan with Local Governments	District Local
		3.6.1	Provide information about Hazards of Illicit Discharges	Prepare and make 2 presentations to the public, government employees, and business groups	District
		*3.6.1.1	<u>Illicit Discharge Brochure</u>	Prepare, print, and distribute 200 brochures on Illicit Discharges	District
		*3.6.1.2	<u>News Releases on Illicit Discharges</u>	Prepare and distribute a News Release on Illicit Discharges	District
		3.7.1	Monitor BMP's	Review BMP's and prepare effectiveness reports as part of municipal facility pollution prevention plan	District
		3.8.1	List and Restrict Non-Storm Water Discharges	Review and update Plan and list of Non-Storm Water Discharges	District
		3.9.1	Document the Decision Process	Yearly documentation	District

MCM No.	Minimum Control Measure	BMP No.	BMP's	Year 5 (2007)	Responsibility
4	Construction Site Storm Water Runoff Control	4.1.1	Construction Control Ordinance	Review and update Ordinance and review program as needed	District Local
		*4.1.1.1	<u>Runoff Control BMP's</u>	Enforce BMP Plan	District
		*4.1.1.2	<u>Erosion Control BMP's</u>	Enforce BMP Plan	District
		*4.1.1.3	<u>Sediment Control BMP's</u>	Enforce BMP Plan	District
		4.1.2	Site Plan Review and Inspection Process	Enforce Site Plan Review and Inspection Plan and review program	District
		4.2.1	Document the Decision Process	Yearly documentation	District
5	Post Construction Storm Water Management	*5.1.1	<u>Post construction Ordinance with Riparian Corridor (RC) and Buffer Zone (BZ)</u>	Enforce RC and BZ ordinance and review program	District County
		*5.1.2	<u>Update Zoning Ordinances</u>	Implement new Zoning Ordinances	District County
		5.2.1	Document the Decision Process	Yearly documentation	District
6	Pollution Prevention / Good Housekeeping	6.1.1	Train Government Employees	Produce training materials and hold training sessions for 100% of government maintenance employees	District County Local
		*6.1.1.1	<u>Maintenance Schedule</u>	Implement Maintenance Plan and Schedule	District County
		6.1.1.2	Inspection Plan for BMP's	Coordinate with local entities to develop Plan and schedule inspection of 50% of BMP's	District County
		6.1.2	Illegal Dumping and Control Program	Continue Illegal Dumping and Control Program and incorporate Butler County Hazardous waste collection	District County
		6.2.1	Document the Decision Process	Yearly documentation	District