

Butler County Storm Water District

Butler County, Ohio



NPDES Phase II Annual Report Permit Year 2005

Ohio EPA General NPDES General Permit: OHQ000001

Ohio EPA Facility Permit Number: 1GQ00051*AG

Effective: April 7, 2003 - April 6, 2008

Butler County Storm Sewer District

Certification

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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, information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

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Storm Water Engineer
Butler County

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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. Public Education and Outreach on Storm Water Impacts

1.1 Media Awareness Packet

1.1a Activity: Media Release Packet

Date: 3/27/2005

The Butler County Storm Water District has partnered with the South West Ohio Storm Water Collaborative and the local media to create a radio advertising campaign informing residents of non-point source pollution issues. The result is a campaign that includes 6 months of advertising between March 27, 2006 – September 25, 2006. During that time our message will be broadcast 464 times by the following radio stations: WAQZ, WUBE, WKRQ, WGRR.

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.saveohiowater.org.

1.2 Education Program for Local Schools

1.2a Activity: Draft a Water Curricula Program for children in grades 4-6

Date: 4/7/2005 - 4/6/2006

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 4-6. 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 – Project WET Workshop

Date: 2/26/2005

The Butler Soil and Water Conservation District held a Project WET (Water Education for Teachers) workshop for eleven (11) teachers at the Butler SWCD offices, in Hamilton, Ohio. Project WET focuses on the importance and value of water throughout our lives, as well as introducing the concept of watersheds and how water flows through and affects them. It shows educators how to integrate these ideas into almost any subject, including science, math, language arts, social studies and environmental studies. During the six-hour session, educators participated in several "hands-on, minds-on" activities, both indoors and out.

1.2c Bonus Activity: Education Program – Healthy Water Healthy People Workshop

Date: 10/25/2005

The Butler Soil and Water Conservation District held a Healthy Water, Healthy People workshop for fifteen (15) teachers at the Butler SWCD offices, in Hamilton, Ohio. Healthy Water, Healthy

People - an innovative water quality education program sponsored by Project WET and the Hach Scientific Foundation, offers hands-on activity guides, testing kits, training, and much more. Unit topics cover: Water Quality Monitoring; General Science Principles; Drinking Water, Healthy People and Communities; Internet-based Research and Activities: Science Projects/ Scientific Methods; Aquatic Ecology; Restoration; Non-point Source Pollution; and Water Management.

1.2d Bonus Activity: Education Program for Local Schools – Project WILD Aquatic
Date: 8/2/2005

The Butler Soil and Water Conservation District held a Project WILD Aquatic workshop for thirteen (13) 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 Bonus Activity: Education Program for Local Schools
Date: 4/7/2005 - 4/6/2006

This year the Butler Soil and Water Conservation District conducted 139 education programs which reached 3740 students and 140 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.

1.2f. Bonus Activity: Education Program for Local Schools
Date: 4/7/2005 - 4/6/2006

The Butler County Department of Environmental Services provides a variety of educational programs to school districts within Butler County. During 2004, the environmental educator made 162 presentations relating to water quality and litter prevention that reached over 4,798 students.

1.3 Storm Drain Labeling

1.3a Activity: Storm Drain Labeling
Date: 5/7/2005

City of Trenton - 302 storm drain labels installed. Illicit Discharge information distributed by the Edgewood High School Honor Students. 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: 10/3/2005

General Electric - West Chester Township facility - Distributed 15 storm drain labels and provided Illicit discharge information. 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: 4/7/2003 - Permit Expiration

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. Public Involvement/Participation

2.1 Public Meetings and Citizen Discussion Panels

2.1a Activity: Public Presentation - OKI Groundwater Committee
Date: 11/30/2005

At a public meeting held by the OKI Groundwater Committee, the Butler County Storm Water District provided an update on the Trenton Area Storm Water Study.

The goal of the study is to assess stormwater runoff, flooding, groundwater recharge, and water quality associated with Jackson Ditch and its tributary streams. The results of the study will predict future conditions in the watershed and provide increased protection of the area's water resources, as well as flood protection for residents and stakeholders along the stream.

OKI's Groundwater Committee promotes coordinated groundwater management for the Great Miami/Little Miami Buried Valley Aquifer System, a resource that supplies two-thirds of a million people with drinking water in OKI's southwest Ohio region. The committee focuses on such issues such as technical studies of groundwater quality, impacts of drought conditions, pumping trends, surface water and groundwater interactions, and emerging state and federal regulations.

Committee members include public and private water suppliers, businesses and industries, health districts, and planning organizations, and representatives from several relevant state agencies serve in an ex officio capacity.

2.1b Activity: Public Meetings and Citizen Discussion Panel
Date: 2/4/2005

The Butler County Storm Water District met with the Ohio Valley Development Council to discuss draft subdivision regulations, detention requirements, and post-construction best management practices.

2.1c Activity: Public Meetings and Citizen Discussion Panel
Date: 5/24/2005

The Butler County Storm Water District met with the Ohio Valley Development Council to discuss drainage easement encroachments and setbacks.

2.1d Activity: Butler County Fair - Public Presentation
Date: 7/24/2005 – 7/30/2005

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 2500 people attended the event.

2.1e Bonus Activity: Butler Soil and Water Conservation District Annual Meeting
Date: 10/20/2005

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.

2.2 Stream Clean-up & Monitoring

2.2a Activity: Stream Clean-up - Clean Sweep of the Great Miami River Date: 7/23/2005

On July 22 and 23 more than 1,200 volunteers participated in the “Clean Sweep of the Great Miami River” – a first-time effort to clean up the entire 160-mile river in one weekend. Private citizens, businesses, conservation organizations, and government agencies retrieved more than 400,000 pounds of trash and about 1,000 tires. In the lower Great Miami River area (Butler, Hamilton and Dearborn Counties) over 400 volunteers were responsible for the collection of 140 tons of litter and 510 tires.

2.2b Bonus Activity: Stream Walk - Mill Creek Date: 4/24/2005

The Butler Soil and Water Conservation District conducted a challenging, yet entertaining, educational stream walk for 17 children and 2 adults from the Academy of World Languages. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

2.2c Bonus Activity: Stream Walk - Indian Creek Date: 5/20/2005

The Butler Soil and Water Conservation District conducted a challenging, yet entertaining, educational stream walk for 175 children and 10 adults from Ross Middle School. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

2.2d Bonus Activity: Stream Walk – Elk Creek Date: 7/20/2005

The Butler Soil and Water Conservation District conducted a challenging, yet entertaining, educational stream walk in Seebold Park for 140 children and 10 adults from Madison Junior/High School. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

2.2e Bonus Activity: Stream Walk - Mill Creek Date: 11/16/2005

The Butler Soil and Water Conservation District conducted a challenging, yet entertaining, educational stream walk in Keehner Park for 15 children and 3 adults from Woodward High School. Topics included water quality (chemical, biological, physical attributes) stream ecology, stream attributes, and watershed mapping.

2.3 Storm Water Hotline, Database, and Response Program

2.3a Activity: Storm Water Hotline Date: 04/07/2005 – 04/06/2006

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.

2.3b Activity: Storm Water Hotline - South West Ohio Storm Water Collaborative
Date: 03/27/2005

The Butler County Storm Water District has partnered with the South West Ohio Storm Water Collaborative to create a centralized storm water hotline number (513-946 3999) for Butler, Hamilton and Warren Counties. 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 www.saveohiowater.org.

2.3c Activity: Storm Water Database and Response Program
Date: 04/07/2005 – 04/06/2006

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 to date has recorded over 360 customer inquiries. The database tracks information specific to the customers address, method of contact, nature of inquiry, and detail of inquiry/complaint resolution.

2.4 Document the Decision Process

2.4a Activity: Phase II Application & Database Information System (PADIS)
Date: 4/7/2003 - Permit Expiration

Annual reporting activities 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 involvement/participation program through the use of PADIS. The decision process documentation includes the overall public involvement/participation program, 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. Illicit Discharge Detection and Elimination

3.1 Illicit Discharge Plan

3.1a Activity: Illicit Discharge Plan

Date: 4/7/2005 – 04/06/2006

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: 4/7/2005 – 04/06/2006

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 with Outfalls

Date: 4/7/2005 – 04/06/2006

The Butler County Storm Water District has 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 will consist of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. The work described herein is anticipated to be completed prior to March 2008. Project updates and crew locations will be posted on the Storm Water District website: www.stormwaterdistrict.org.

3.3b Activity: Storm Sewer System Mapping

Date: 4/7/2003 - Permit Expiration

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: 04/07/2005 – 4/06/2006

The Butler County Storm Water District researched archived HSTS records held by the Butler County Health Department. 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: 04/07/2005 – 4/06/2006

Ordinance is scheduled to be implemented and enforced within five years. In 2004, a draft Illicit Discharge Ordinance was distributed for review and comment. The ordinance is currently being reviewed by the County Prosecutors Office. The latest estimate is that the ordinance will be adopted by mid year 2006.

3.6 Non-Storm Water Discharge Plan

3.6a Activity: Non-Storm Water Discharge Plan
Date: 4/7/2007 - Permit Expiration

Non-Storm Water Discharge Plan activity deferred to year 5 (2007). BMP's are scheduled to be implemented and enforced within five years.

3.7 Dry Weather Screening

3.7a Activity: Dry Weather Screening
Date: 04/07/2005 – 4/06/2006

The Butler County Storm Water District has 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 will consist of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. To date, more than 1197 outfalls have been mapped and more than 439 outfalls have been observed for dry weather flow. The work described herein is anticipated to be completed prior to March 2008. Project updates and crew locations will be posted on the Storm Water District website: www.stormwaterdistrict.org.

3.8 Chemical Field Tests

3.8a Activity: Chemical Field Tests
Date: 04/07/2005 – 4/06/2006

The Butler County Storm Water District has 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 will consist of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. The work described herein is anticipated to be completed prior to March 2008. To date, the number of chemical field tests conducted has exceeded 200 for the year permit year 2005. Project updates and crew locations will be posted on the Storm Water District website: www.stormwaterdistrict.org.

3.9 Coordinate screening & testing plan with Local Governments

3.9a Activity: Coordinate screening & testing plan with Local Governments
Date: 04/07/2005 – 4/06/2006

The Butler County Storm Water District has 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 will consist of crews walking local streams to note the location of existing storm drain outfalls, to note the location of illicit connections, and to conduct water quality sampling. The work described herein is anticipated to be completed prior to March 2008. This project includes the development of a Protocol manual for screening and testing. The Screening and Testing plan will be adopted and continued by the Storm Water District and local governments at the completion of the project.

3.10 Provide information about the Hazards of Illicit Discharges

3.10a Activity: Public Presentations - Hazards of Illicit Discharges
Date: 04/07/2005 – 04/06/2006

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 Bonus Activity: Public Presentations - Hazards of Illicit Discharges – Kiwanis Club
Date: 7/13/2005

The Butler County Storm Water District presented an overview of 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.

3.10c Bonus Activity: Public Presentations - Hazards of Illicit Discharges - Butler County Fair
Date: 7/24/2005 – 7/30/2005

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

3.10d Bonus Activity: Public Presentations - Hazards of Illicit Discharges – City of Middletown
Date: 8/2/2005

The Butler County Storm Water District presented a poster display at the City of Middletown "2005 National Night Out". NNO is a unique crime prevention event sponsored by the National Association of Town Watch (NATW). NNO is designed to strengthen neighborhood spirit and generate support for, and participation in, local programs. This event 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. It is estimated that 5,000 people attended the event.

3.10e Bonus Activity: Public Presentations - Hazards of Illicit Discharges - Tri-County Nazarene Church
Date: 3/9/2005

A representative from the Butler County Storm Water District participated in the Tri-County Nazarene Church Caravan program. A presentation concerning the Environment and Recycling was given to 6 children and 3 adults. Topics discussed included recycling, non-point source pollution, and trash in local waterways.

3.10f Bonus Activity: Public Presentations - Hazards of Illicit Discharges - Tri-County Nazarene Church
Date: 3/29/2006

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 7 kids and 3 adults were present.

3.10g Bonus Activity: Public Presentations - Hazards of Illicit Discharges – Boy Scouts
Date: 4/3/2006

A representative from the Butler County Storm Water District participated in the Boy Scouts - Fort Hamilton District Meeting to speak to adult scout leaders about volunteer opportunities available to help reduce illicit discharges.

3.11 Illicit Discharge Brochure

3.11a Activity: Illicit Discharge Brochure
Date: 4/15/2005

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 were provided for distribution at public meetings and in government building lobby areas.

3.12 News Releases on Illicit Discharges

3.12a Activity: News Releases on Illicit Discharges
Date: 7/27/2005

A media release was prepared and distributed concerning Clean Sweep of the Great Miami River, the hazards of illicit discharge, and the problems of non-point source pollution. 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.

3.13 Monitor BMP's

3.13a Activity: Monitor BMP's
Date: 4/7/2003 - Permit Expiration

No physical BMPs were installed as part of second year implementation. As part of the Illicit Discharge Ordinance, BMP's are scheduled to be implemented and enforced by permit year 5 (2007).

3.14 Document the Decision Process

3.14a Activity: Phase II Application & Database Information System (PADIS)
Date: 4/7/2003 - Permit Expiration

Annual reporting activities 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 illicit discharge detection and elimination 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. Construction Site Storm Water Runoff Control

4.1 Construction Control Ordinance

4.1a Activity: Construction Control Ordinance

Date: 4/7/2003 - 4/6/2008

Ordinance is scheduled to be implemented and enforced within five years. Current County subdivision regulations address runoff, erosion, and sediment control for platted subdivisions. The regulations are being reviewed to include all other property types and to include the authority of the County to regulate construction projects that disturb less than 5 acres (H.B. #411). In the last year, draft ordinance was distributed for review and comment. The ordinance is being revised based on comments. The ordinance is projected to be adopted by mid year 2006.

4.2 Runoff Control BMP's

4.2a Activity: Runoff Control BMP's

Date: 4/7/2005 – 4/6/2006

The Runoff Control BMP Plan is currently being drafted. The BMP plan will be consistent with the ODNR Rain Water and Land Development Manual and the ODOT Location and Design Manual. Final adoption and implementation of the runoff control BMPs will take place through the update of the Butler County Subdivision regulations by January 1, 2007.

4.3 Erosion control BMP's

4.3a Activity: Erosion Control BMP's

Date: 4/7/2005 – 4/6/2006

The Erosion Control BMP Plan is currently being drafted. The BMP plan will be consistent with the ODNR Rain Water and Land Development Manual and the ODOT Location and Design Manual. Final adoption and implementation of the erosion control BMPs will take place through the update of the Butler County Subdivision regulations by January 1, 2007.

4.4 Sediment Control BMP's

4.4a Activity: Sediment Control BMP's

Date: 4/7/2005 – 4/6/2006

The Sediment Control BMP Plan is currently being drafted. The BMP plan will be consistent with the ODNR Rain Water and Land Development Manual and the ODOT Location and Design Manual. Final adoption and implementation of the sediment control BMPs will take place through the update of the Butler County Subdivision regulations by January 1, 2007.

4.5 Site Plan Review and Inspection Process

4.5a Activity: Site Plan Review and Inspection Process

Date: 4/7/2003 - Permit Expiration

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: 4/7/2003 - Permit Expiration

Annual reporting activities 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 construction site storm water control 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. Post-Construction Storm Water Management in New Development and Redevelopment

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: 4/7/2003 - Permit Expiration

Draft ordinance for RC and BZ is scheduled to be implemented and enforced within five years. 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).

5.2 Long Term RC and BZ Stability Plan

5.2a Activity: Long Term RC and BZ Stability Plan

Date: 4/7/2003 - Permit Expiration

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: 4/7/2005 – 04/06/2006

Copies of existing Zoning Ordinances have been obtained from local governments and are under review. A draft update of Zoning Ordinances is scheduled for permit year 4 (2006).

5.4 Long Term Long Term Stability of Zoning Ordinances

5.4a Activity: Long Term Stability of Zoning Ordinances

Date: 4/7/2006 - Permit Expiration

Activity to begin Permit Year 4 (2006).

Please refer to Storm Water Management Plan Implementation Matrix.

5.5 Document the Decision Process

5.5a Activity: Phase II Application & Database Information System (PADIS)

Date: 4/7/2003 - Permit Expiration

Annual reporting activities 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 the post-construction storm water management 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. Pollution Prevention/Good Housekeeping for Municipal Operations

6.1 Train Government Employees

6.1a Activity: Train Government Employees

Date: 6/1/2005 – 6/30/2005

During the month of June, a representative of the Butler County Storm Water District traveled to each of the thirteen member governments and presented a pollution prevention training session for the municipal maintenance employees. The presentation included an overview of the County Storm Water Management Plan, a description of illicit discharges, and a discussion on how municipal work practices can help prevent illicit discharges from government operations. The training included the use of a training video titled, "Storm Watch - Municipal Storm Water Pollution Prevention and Everyday Best Management Practices."

6.1b Activity: Train Government Employees

Date: 10/20/2005 - 12/8/2005

The Cleaner Government Pollution Prevention Workshop Series was provided by the Butler County Department of Environmental Services. In these workshops participants learned: How to reduce waste through pollution prevention and how this reduces operating costs; What best practices are being used in government to reduce waste; Case studies and resources for waste reduction techniques; and What is the true cost of waste. The result was 100% participation from Storm Water District member governments.

6.1c Activity: Train Government Employees

Date: 4/7/2004 – 04/06/2005

BCDES Administrative Center

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.

6.1d Activity: Train Government Employees

Date: 4/7/2004 – 04/06/2005

LeSourdsville Regional Water Reclamation Facility

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: 4/7/2004 - Permit Expiration

The Storm Water District has compiled existing maintenance plan information for fleet vehicles and operation/construction equipment in the Butler County Engineers Office. This plan describes the number and types of vehicles, the recommended maintenance checklists, and record keeping practices. The plan will be expanded to include participating government maintenance facilities and it will be updated annually as additional BMPs are implemented.

6.3 Inspection Plan for BMP's

6.3a Activity: Inspection Plan for BMP's Date: 4/7/2004 - Permit Expiration

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: 4/7/2005 – 4/6/2006

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 will be reviewed and is scheduled to be implemented in permit year 4 (2006).

6.4b Activity: Household Appliance Recycling Event Date: 5/28/2005

Although this activity is scheduled to begin in the fourth permit year, the following activity is applicable to the Illegal Dumping and Control Program BMP requirement. Household Hazardous Waste Recycling Event is sponsored by Butler County's Solid Waste Management District. The event resulted in the collection of 212,276 pounds of household hazardous waste.

6.4c Activity: Household Hazardous Waste Recycling Event Date: 6/11/2005

Although this activity is scheduled to begin in the fourth permit year, the following activity is applicable to the Illegal Dumping and Control Program BMP requirement. Household Appliance Collection Day is sponsored by Butler County's Solid Waste Management District. The event resulted in the collection of 104,510 pounds of computer equipment and 48.57 tons of household appliances.

6.4d Bonus Activity: P.R.I.D.E. Program Date: 4/7/2007 - Permit Expiration

Although this activity is scheduled to begin in the fifth permit year, the following activity is applicable to the Illegal Dumping and Control Program BMP requirement. 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 2005 (in pounds):

| | |
|---------|--------|
| 1st Qtr | 10,500 |
| 2nd Qtr | 10,180 |
| 3rd Qtr | 20,645 |
| 4th Qtr | 15,705 |

- PRIDE Crew “other materials” collected in 2005 (in pounds):

| | |
|-------------|-------|
| Scrap metal | 3,405 |
| Cans | 3,127 |
| Tires | 2,660 |
| Wood | 2,280 |

- PRIDE Crew miles traveled in 2005:

| | |
|---------|-------|
| 1st Qtr | 28 |
| 2nd Qtr | 60.6 |
| 3rd Qtr | 134.1 |
| 4th Qtr | 104.3 |

6.5 Document the decision process

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

Date: 4/7/2003 - Permit Expiration

Annual reporting activities 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 the pollution prevention /good housekeeping program through the use of PADIS. The decision process documentation includes the overall public education program, individual BMP's, measurable goals, and persons responsible for the program.

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

B1

Activity Title: Mill Creek Signage Committee

Activity Description: Committee member

Date: 2005 - Monthly Meetings

Responsible Party: Butler County Storm Water District

The Mill Creek Signage Committee is involved with public awareness and education of the Mill Creek Watershed. This is accomplished by coordinating stream crossing sign installation with public awareness and education programs. In the year 2005, Butler County Storm Water District was responsible for stream crossing signage at a minimum of 14 locations.

B2

Activity Title: Butler County Water Festival

Activity Description: Classroom Coordinator.

Date: 10/14/2005

Responsible Party: Butler County Storm Water District

The Butler County Water Festival was held October 14, 2005 at Miami University Hamilton. The "Hands on Day of Discovery" was attended by 1,000 fourth, fifth and sixth graders, 49 presenters, and 75 volunteers from across Butler County. As a classroom coordinator, a representative from the Butler County Storm Water District guided approximately 30 children through classroom presentations. Children learned about various activities such as flooding, storm water, rain gauges and the importance of monitoring the quantity of rainfall.

B3

Activity Title: Great Miami River Festival

Activity Description: Great Miami River Festival Committee

Date: 2005 - Monthly Meetings

Responsible Party: Butler County Storm Water District

The Butler County Storm Water District is a major sponsor and a participating member of the Great Miami River 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 between 5,000 and 10,000 people attended last years 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:** 2005 - Quarterly Meetings**Responsible Party:** Butler County Storm Water District

A representative from the Butler County Storm Water District attended 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:** 2004 Monthly Meetings**Responsible Party:** Butler County Storm Water District

A representative from the Butler County Storm Water District attended 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. The Executive Committee slate of candidates includes Bob Lentz of the Butler County Storm Water District.

B6**Activity Title:** Trenton Area Storm Water Management Project**Activity Description:** Drainage Study**Date:** 8/03/2004**Responsible Party:** Butler County Storm Water District

The Butler County Storm Water District is conducting a study for the purpose of identifying water quality and quantity issues in this watershed area. The study will provide data that is related to storm water quality and quantity as well as ground water quality within the study area. The study will provide maps showing the ground features in the study area along with ground water infiltration areas. The drainage area will be analyzed to show flooding characteristics and any drainage structures that impact flow characteristics of the channels in the area.

B7**Activity Title:** Local restoration and habitat improvement projects**Activity Description:** Stream Stabilization projects**Date:** 04/07/2005 – 04/06/2006**Responsible Party:** Butler County Department of Environmental Services

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:

Beckett Ridge Stream Stabilization project (FY-2001 319 project): Restoration and enhancement of 1000-foot stretch of highly entrenched and unstable headwater stream within the Mill Creek Watershed; involved stabilization of severely-eroding stream banks using bioengineering technologies and geo-grid faced slopes, and installation of 8 in-stream flow/grade control structures including Newbury riffles, J-hook weirs and rock cross vanes.

Upper Mill Creek Basin Constructed Wetlands and Stream Restoration project (FY-2002 319 & Clean Ohio project): BCDES assisted with project funding, planning, design and coordination.

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. Final site selection, engineering and design, and construction will occur in 2006-2007.

B8

Activity Title: Local restoration and habitat improvement projects

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

Date: 04/07/2005 – 04/06/2006

Responsible Party: Multiple Local Partners

Butler County will restore 420 linear feet of riparian corridor in a rapidly developing suburban watershed, replacing the existing barren and concrete-lined stormwater detention facility with a fully functioning 1.1-acre wetland to treat stormwater pollutants and provide habitat. The project will consist of two key phases. First, the existing detention basin will be transformed and properly restored to a riparian wetland, principally to provide habitat and treat upland runoff before entering the Upper Mill Creek. Second, a monitoring program will be 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 will also provide 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: 6/7/2005

This event was sponsored by 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 100 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. The speakers were from Ohio EPA, The Natural Resources Conservation Service, US Army Corps of Engineers and Robin Green of Hidden Creek at the Darby.

B10

Activity Title: Managing Storm Water Quantity for Water Quality

Activity Description: Post Construction Water Quality workshop

Date: April 28 & 29, 2005

Responsible Party: Multiple Local Partners

A two day short course was conducted at Indiana Wesleyan University in Butler County Ohio.

Day 1 – Designing Storm Water Detention Basins. Participants learned to perform the hydrologic and hydraulic design of a storm water detention basin, which will minimize the effects of urbanization on the downstream channel, will function effectively during severe floods, and will meet the requirements of the NPDES Phase II permit related to water quality.

Day 2 - Essential Hydrology for Storm Water Management. Participants were able to perform the hydrologic calculations related to rainfall and storm water run-off as applied to land development. You will learn about the design method used for rainfall depths, storm return periods, rainfall temporal distributions, the NRCS curve number method, the NRCS method for the time of concentration, the NRCS unit hydrograph method, the Ohio critical storm method, and the techniques for managing storm water quantity.

B11

Activity Title: Earth Day Event

Activity Description: Izaak Walton League – Hamilton Chapter

Date: 4/16/2005

Result Statement: The Butler SWCD and the Butler County Storm Water District provided interactive displays and distributed non-point source pollution and illicit discharge information. Over 100 people attended the Hamilton Izaak Walton League event with numerous interactive displays and activities.

B12

Activity Title: Three Valley Conservation Trust

Activity Description: Watershed Action Plan Advisory Board

Date: 2005 - Monthly

Responsible Party: Butler County Storm Water District

Representatives from the Butler County Storm Water District participate on the Watershed Action Plan Advisory Board for the Three Valley Conservation Trust. The mission of the Three Valley Conservation Trust works is to conserve the natural environment and cultural heritage in Four Mile-Seven Mile, Indian and Twin Creek valleys throughout Butler, Preble, parts of Darke and Montgomery counties.

Miami Conservancy District's 2005 Phase II Stormwater Activities for Collaborating Communities

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.

Minimum Control Measure #1

Public Education & Outreach on Stormwater Impacts

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

1.3a

Activity Title: Low Impact Development Workshop

Activity Description: In November 2005, Miami Conservancy District hosted a two-day workshop titled, Low Impact Development; Protecting Water...Building Community. The event was a capstone of a two-and-a-half year effort to educate decision-makers and citizens on better stormwater management practices. The Ohio Environmental Education Fund of the Ohio Environmental Protection Agency funded the workshop.

Start Date: 11/17/2005 **End Date:** 11/18/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: The nation's foremost expert on Low Impact Development, Larry Coffman, formerly of Prince George's County, Maryland, facilitated the workshop. Sixty-eight people registered from 47 different organizations.

1.3b

Activity Title: Southwest Ohio Sediment and Erosion Control Field Day

Activity Description: The Southwest Ohio Sediment and Erosion Control Field Day was held on June 7, 2005 at the Warren County Career Center. This event was sponsored by 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.

Start Date: 6/7/2005 **End Date:** 6/7/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Nearly 100 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. The speakers were from Ohio EPA, The Natural Resources Conservation Service, US Army Corps of Engineers and Robin Green of Hidden Creek at the Darby.

1.4 Coordinate a tour of stormwater BMPs for practitioners

1.4a

Activity Title: Tour of Stormwater Best Management Practices

Activity Description: On September 1, 2005, the Great Miami River Watershed Network took a tour of Best Management Practices and visited several projects of the Mad River Steering Committee.

Start Date: 9/1/2005 **End Date:** 9/1/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: The projects on the tour included: innovative water treatment processes, agricultural projects reducing nitrate application, in-stream habitat improvements and Ohio Department of Natural Resources' Game Farm demonstrating a wetland and warm season grasses.

Minimum Control Measure #2
Public Involvement and Participation

2.1 Stream Team volunteer monitors collect data and report on stream health during field season

2.1a

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 streams and rivers.

Start Date: 5/7/2005 **End Date:** 5/7/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Over thirty volunteers were trained on how to monitor stream health through water quality monitoring. These volunteers collect information on their local streams in order to increase public involvement in water quality issues; educate local communities about the relationship between land use and water quality; and provide water quality information to citizens and organizations working to protect the Great Miami Valley's rivers and streams. To learn more about the Miami Valley Stream Team, go to http://www.miamiconservancy.org/water/mv_stream.asp

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

2.2a

Activity Title: Great Miami River Watershed Network Meetings

Activity Description: The Great Miami River Watershed Network met four times in 2005 to facilitate resource-sharing and limit duplication of effort.

Start Date: 3/3/2005 **End Date:** 3/3/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Approximately 40 people attended the meeting which included: MCD water quality credit trading progress report, US EPA targeted watershed grant update, an update from MVRPC on Air Quality Advisory Committee and Area-wide Facility Planning Sub Committee and a presentation by Greenways of Greater Dayton. A list of attendees, the agenda and meeting minutes are available via Miami Conservancy District's web-site at http://www.miamiconservancy.org/water/gmrw_network.asp

2.2b

Activity Title: Great Miami River Watershed Network Meetings

Activity Description: The Great Miami River Watershed Network met four times in 2005 to facilitate resource-sharing and limit duplication of effort.

Start Date: 6/2/2005 **End Date:** 6/2/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Approximately 45 people attended the meeting which included: an update on the US EPA targeted watershed grant, a report on the progress of MCD's water quality credit trading program and a presentation on Ohio Water Resource Protection by Sam Speck, Director of the Ohio Department of Natural Resources. A list of attendees, the agenda and meeting minutes are available via Miami Conservancy District's web-site at http://www.miamiconservancy.org/water/gmrw_network.asp

2.2c

Activity Title: Great Miami River Watershed Network Meetings

Activity Description: The Great Miami River Watershed Network met four times in 2005 to facilitate resource-sharing and limit duplication of effort.

Start Date: 9/1/2005 **End Date:** 9/1/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Approximately 22 people attended the meeting which included a Best Management Tour of projects in the Upper Mad River Watershed. The projects on the tour included: innovative water treatment processes, agricultural projects reducing nitrate application, in-stream habitat improvements and Ohio Department of Natural Resources' Game Farm demonstrating a wetland and warm season grasses. A list of attendees, the agenda and meeting minutes are available via Miami Conservancy District's web-site at http://www.miamiconservancy.org/water/gmrw_network.asp

2.2d

Activity Title: Great Miami River Watershed Network Meetings

Activity Description: The Great Miami River Watershed Network met four times in 2005 to facilitate resource-sharing and limit duplication of effort.

Start Date: 12/1/2005 **End Date:** 12/1/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Approximately 34 people attended the meeting which included: a US EPA targeted watershed grant update, a progress report on MCD's water quality credit trading program, an update on the MVRPC Area-wide Facility Planning Sub Committee, Darke County Health Department's septic system project, Miami County's Health Department septic system project and Ohio's new septic system rules. A list of attendees, the agenda and meeting minutes are available via Miami Conservancy District's web-site at http://www.miamiconservancy.org/water/gmrw_network.asp

2.4 Support existing water festivals for children and the general public

2.4a

Activity Title: Children Water Festival in Dayton, Ohio

Activity Description: Miami Conservancy District supported the 2005 Children's Water Festival by being a member of the planning committee with the responsibility of recruiting and coordinating presenters, giving one presentation, providing a volunteer and a monetary donation.

Start Date: 5/11/2005 **End Date:** 5/11/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Miami Conservancy District presented to approximately 100 children on using your senses to determine surface water quality. MCD also supported the festival financially with a cash donation of \$1000 and a staff leadership role valued at approximately \$1600. This person recruited and coordinated over 40 volunteers and educational programs.

2.4b

Activity Title: Butler County WaterFest

Activity Description: Miami Conservancy District supported the Butler County WaterFest with a monetary donation and provided eight 30-minute presentations.

Start Date: 10/15/2005 **End Date:** 10/15/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Miami Conservancy District presented to approximately 200 children. The presentation topics included the diversity of values and opinions surrounding water use and groundwater and the permeability of soils. MCD also supported the festival financially with a cash donation of \$1000.

Minimum Control Measure #3

Illicit Discharge Detection and Elimination

3.1 Become familiar with storm sewer system

3.1a

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 digital photograph, description and receiving stream, and entering data into the Phase II Application and Database Information System (PADIS).

Start Date: 1/24/2005 **End Date:** 1/24/2006

Lead Responsible Party: Miami Conservancy District

Result Statement: In 2005, Miami Conservancy District located outfalls in the City of Springfield and West Milton. In addition, The University of Dayton's Berry Scholars completed a community project and identified outfalls in the Wolf Creek Watershed. The students worked in partnership with cities, the Wolf Creek Stream Team and The Miami Conservancy District, recording the location of storm sewer outfalls as part of their studies at the University of Dayton. During this project, the students identified outfalls in the Cities of Clayton, Dayton, Englewood and Trotwood.

BONUS ACTIVITIES

Activity Title: Healthy Water Healthy People Workshop

Activity Description: A partnership developed to educate Dayton's young people about the health and value of our local rivers. This partnership was between Dayton Public Schools, Miami Conservancy District, Boonshoft Museum of Discovery, the Montgomery Soil and Water Conservation District, Montana State University, Rotary Club of Dayton and the Environmental Education Council of Ohio.

Start Date: 2/24/2005 **End Date:** 5/12/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: On February 24, 2005 a Healthy Water Healthy People (HWHP) Workshop was conducted at Adventure Central in Dayton, Ohio. Approximately 20 teachers from Dayton Public Schools attended the workshop to learn the HWHP curriculum. All participants received a HWHP Educator's Guide, a Test Kit Manual and a Watershed Testing Kit and three Rivers, Streams, Ponds and Lakes Testing Kits were given to Dayton Public Schools. In addition, two evening sessions were conducted to show teachers how to use the testing kits and activities in the stream.

Activity Title: Preble County Earth Day Event

Activity Description: Miami Conservancy District staff gave eight 25-minute presentations at the Preble County Earth Day event.

Start Date: 4/21/2005 **End Date:** 4/21/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Miami Conservancy District presented to approximately 160 sixth-graders on groundwater and the permeability of various soils.

Activity Title: Honey Creek Watershed Festival

Activity Description: Miami Conservancy District supported the Honey Creek Watershed Festival with a monetary donation and participated with a display.

Start Date: 4/23/2005 **End Date:** 4/23/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: The Honey Creek Watershed Festival was held on April 23, 2005. The event included student presentations, educational displays and other activities. Miami Conservancy District supported the festival with a \$500 cash donation. It is estimated that 600 people were in attendance at the festival. To find out more about the Honey Creek Watershed Festival, visit <http://www.miamicountyparks.com/Honey%20Creek%20Watershed/Honey%20Creek%20Watershed%20Festival.htm>

Activity Title: River Days

Activity Description: The Great Miami River Days was held on September 10, 2005. The event was a regional celebration that encouraged visitors to gain a better appreciation for the Great Miami River and its resources, to help protect the beauty of the river and its corridor, to encourage recreational opportunities and to recognize the Great Miami River as an important natural amenity.

Start Date: 1/24/2005 **End Date:** 9/10/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Miami Conservancy District supported River Days with a monetary cash donation of \$500 and served on the planning committee. Featured that day was a 2000 gallon river fish tank, dozens of interactive displays, a fishing derby and educational entertainers. It is estimated that between 5,000 and 10,000 people attended the festival. To find out more about River Days, visit <http://www.greatmiamiriverdays.org/>

Activity Title: Stream Testing Equipment Donated

Activity Description: Miami Conservancy District donated \$1000 worth of water quality testing equipment to Honey Creek Watershed Association.

Start Date: 4/12/2005 **End Date:** 4/12/2005

Lead Responsible Party: Miami Conservancy District

Result Statement: Miami Conservancy District donated water quality testing equipment to Honey Creek Watershed Association to increase public involvement in water quality issues, educate local communities about the relationship between land use and water quality and provide water quality information to citizens and organizations working to protect the Great Miami Valley's rivers and streams.