



Deerfield Regional Storm Water District

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March 8, 2005

Annual Report – Second Permit Year Deerfield Township Storm Water Management Program

NPDES Permit Number: OHQ000001

Ohio EPA Facility Permit Number: 1GQ00036*AG

The Deerfield Regional Storm Water District started meeting in March, 2004. This first year of operation, the District Board has concentrated on administrative tasks such as establishing bylaws, hiring an administrative assistant, and contracting with an engineering consulting firm. The board members have also spent the year learning about storm water issues through various meetings with the Warren County Soil and Water Conservation Department, the Warren County Engineer, and the Deerfield Township Community Development Director.

Because the first year was spent in administrative and educational tasks, the District was not able to meet all the goals of 2004. A timeline for meeting these goals will be included under the individual BMPs.

The District has submitted a revision of Deerfield Township's Storm Water Management Plan to the Ohio EPA based on the list of deficiencies noted in their review. Despite the administrative tasks and the educational curve facing the District Board, some progress was made toward meeting the measurable goals for the different control areas.

Public Education and Outreach

1. **BMP: Storm water information distribution to the general public.**
The Township distributes a newsletter to every household in the Township four times per year. At least once per year storm water information is included. The Township's web site also contains storm water information. The District has developed a brochure that was available at Deerfield Township's annual festival. Warren County Soil and Water Conservation District also distributed brochures at the same festival. Samples of both brochures are enclosed. The monthly meetings of the Storm Water District board are also broadcast weekly on local cable. WCSWCD also held a Backyard Environment Seminar in Deerfield Township to discuss drainage around the home and things homeowners can do to prevent pollution. This seminar reached about 200 people.
2. **BMP: Develop alternative information sources such as websites, billboards, and refrigerator magnets.**
Currently the Township's website is used for storm water issues. The Storm Water District is discussing an expanded web site for Storm Water issues.
3. **BMP: Conduct storm drain stenciling, tagging project with accompanying door hangers for residents.**
The storm water district has contracted with the Warren County Soil and Water Conservation District for this service. WCSWCD tagged 150 drains in four subdivisions and distributed door

hangers in these same subdivisions using fourth graders from the local school districts in 2003. Samples of the tags and door hangers are included. Currently, WCSWCD is developing contacts with other volunteer groups to complete this project.

4. BMP: Storm water education program for school children.
The storm water district has contracted with the Warren County Soil and Water Conservation District for this service. WCSWCD worked with 200 children in the classroom at the local schools in 2004. They also conducted outside activities involving 350 school children.
5. BMP: Organize school/community sponsored action projects such as stream cleanup, riparian tree planting, stream bank stabilization.
The Landen Farms Community Services Association of Deerfield Township cleans up the area around Landen Lake annually, with a cleanup conducted in the summer of 2004. Deerfield Township's largest watershed, Simpson Creek, which feeds Landen Lake, is cleaned on an "as needed basis," with the last cleanup conducted in 2002 and the next one scheduled for 2005. This scheduled project will involve area residents and school children and will also include general cleanup of residential gutters and drains. Both Simpson Creek and Landen Lake are monitored and heavy debris is removed as necessary. Additional watershed, lake, and stream cleanups are planned for the future in conjunction with the Warren County Soil and Water Conservation District and the Landen Farms Community Services Association.
6. BMP: Create a storm water hotline.
The Township fields storm water questions through its Public Works Department.
7. BMP: Develop watershed/tributary signage to identify streams.
The Storm Water District will work with the Warren County Soil and Water Conservation District on this.

Public Participation/Involvement

1. BMP: Conduct public meetings to obtain community input.
The Board of Trustees for the Deerfield Regional Storm Water District has public meetings monthly. A joint public meeting was held 2004 with the City of Montgomery, Symmes Township, and Sycamore Township to discuss issues pertaining to the Polk Run Watershed. Community focus groups are planned to help develop a storm water fee structure. All regular meetings of the Storm Water District are broadcast on local cable.
2. BMP: Creation of "adopt a storm drain program", and "adopt a stream" within the Township.
The Storm Water District will work with the Warren County Soil and Water Conservation District on this.

Illicit Discharge Detection and Elimination

1. BMP: Create a map of the home sewage treatment systems.
As funding becomes available, the Deerfield Regional Storm Water District will work on this project.
2. BMP: Identify illicit connections through dry weather screening and targeted video inspection.
In the fall and spring, Deerfield Township road crews monitor major discharge pipes. The Storm Water District plans to formalize this monitoring and create official surveys.
3. BMP: Develop a storm drain system map.
The Warren County Engineer's Office has mapped 25-35% of the Township not including detention basins. The District will continue this mapping throughout the permit period.
4. BMP: Illicit discharge/illegal dumping hotline.
The Township fields storm water issues through its Public Works Department which works with the Warren County Health Department on illegal discharge and dumping issues.

Construction Site Runoff Control

1. BMP: The WCSWCD currently administers construction site runoff control within Deerfield Township for projects involving areas of disturbances of five (5) acres or greater in size. After the storm sewer district is formed, that district will adopt similar regulations for all projects disturbing one (1) acre or more within the Township.

The goal calls for draft regulatory guidelines within the first year of the formation of the Storm Water District with final guidelines available within two years. The District is in the process of hiring a consulting engineer who will work with the Warren County Soil and Water Conservation District and the Warren County Engineer's Office to help draft these guidelines. Also, there are 22 active construction sites in Deerfield Township. In 2004, WCSWCD conducted 115 inspections of these sites for erosion and sediment.

2. BMP: Develop a certification program for contractors.

The consulting engineer hired by the Storm Water District will work with the Warren County Soil and Water Conservation District and the Warren County Engineer's Office to develop the certification program.

Post Construction Runoff Control

1. BMP: Continue to administer, in cooperation with the Warren County Engineer's Office, the "post development runoff management" program through the existing "Warren County, Ohio Rules and Regulations for the design of sewer and storm water management systems."

Such Rules and Regulations are currently in place in the Township. The Storm Water District will work with a consultant and the Warren County Engineer's Office to modify these rules as necessary.

2. BMP: Develop master plans, comprehensive plans, and integrated zoning ordinances to promote and improve water quality by guiding the growth of the community away from sensitive areas and restricting certain types of growth to areas that can support it without compromising water quality.

Deerfield Township and the Storm Water District, working with a consultant and the Warren County Engineer's Office, will develop these plans by the end of the permit term.

Pollution Prevention/Good Housekeeping

1. BMP: Training for public employees of the Township.

The Township sent four employees for training and certification regarding proper pesticide application on Township property.

2. BMP: Develop a pollution prevention plan within the first year of the permit term.

The Township follows an unwritten pollution prevention plan. This plan should be formalized and implemented by the end of the permit period.

3. BMP: Develop spill prevention and control plans for Township facilities.

The road department self-monitors its garage area for spills. This includes inspections by the fire department. The unwritten plan should be formalized by the end of the permit term.

- 4: BMP: Incorporate the use of road salt storage control and implement road salt alternatives for roadway de-icing.

The Township is developing a plan to construct an additional salt storage barn incorporating run-off control measures.

Bi-annually, the Township road department cleans catch basins throughout the Township. They also sweep various streets to remove leaves, sand, and other debris. Twice a year, the road department has a Township-wide brush and leaf collection program. In the spring, there is a Township clean-up weekend when residents can dispose of non-hazardous materials.

During the third permit year, the Deerfield Regional Storm Water District plans to continue working on the uncompleted goals of the previous two years. In addition the District will continue to develop alternative information sources, promote another stream or lake clean-up, continue to have public meetings monthly, and work to identify illicit connections, along with beginning to map storm sewers and home treatment systems. The District will contract with the Warren County Water and Soil Conservation District to perform many of the public education, outreach, and participation tasks. The Storm Water District is in negotiations with a consulting engineer who will be able to work on construction and post construction runoff issues and make recommendations on the development of a certification program. The District also plans to begin drafting its Illicit Discharge Detection/Elimination Plan.