

**PERRY TOWNSHIP
LAKE COUNTY, OHIO**

**Phase II:
Storm Water Management Program
Addendum**



**Requesting Authorization to Discharge under a
National Pollutant Discharge Elimination System (NPDES)
General Permit for Small
Municipal Separate Storm Sewer Systems (MS4s)**

November 2005

**Perry Township
Lake County, Ohio
Phase II:
Storm Water Management Program**

**Requesting Authorization to Discharge under a
National Pollutant Discharge Elimination System (NPDES)
General Permit for
Small Municipal Separate Storm Sewer Systems (MS4s)**

November 11, 2005

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Ohio EPA Notice of Intent (NOI) For Coverage Under Ohio Environmental Protection Agency General Permit

(Read accompanying instructions carefully before completing this form)

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized to discharge into state waters under the NPDES general permit program. Becoming a permittee obligates a discharger to comply with the terms and conditions of the permit. Complete all information - THIS FORM MUST BE COMPLETELY TYPEWRITTEN AND ORIGINAL (not a copy) - NOT FOLDED OR STAPLED - FOR PROPER ELECTRONIC SCANNING. Forms transmitted by fax will not be accepted. A check in the amount of \$200, payable to "Treasurer, State of Ohio", must accompany this form.

I. Applicant Information/Mailing Address

Company Name: Perry Township
 Contact Person: Thomas Haas Phone: 440/259-5140
 Mailing Address: 3740 Center Road
 City: Perry State: Ohio Zip: 44081

II. Facility/Site Location Information

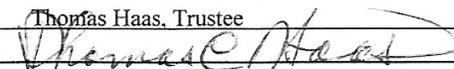
Facility Name: Perry Township
 Facility Contact Person: Thomas Haas Phone: 440/259-5140
 Facility Address/Location: 3740 Center Road
 City: Perry State: Ohio Zip: 44081
 County: Lake Township(s): Perry
 Quarter: _____ Section(s): _____ Range: _____
 Receiving Stream: See Storm Water Management Program (SWMP)
 MS4 Operator Name: _____

If aware of a state nature preserve within 1,000 feet of the facility/site, check here: _____
 Enter river code here, if discharge is to a river designated scenic, wild, or recreational, or to a tributary within 1000 feet (see instructions): _____
 General Permit Number: OH Q 0 0 0 0 0 1 Initial Coverage: Renewal Coverage: _____
 General Permit Authorization to Discharge: _____
 Type of Activity: MS4-Baseline
 SIC Code (s): _____
 Existing NPDES Permit Number: _____
 ODNR Coal Mining Application Number: _____

Outfall	Design Flow (MGD)	Latitude	Longitude
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Proposed Project Start Date (MO DY YR): _____
 Estimated Completion Date (MO DY YR): _____
 MS4 Drainage Area (Square Miles): 17.27
 Payment Information: Check # _____ Date of Check _____

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name (typed): Thomas Haas, Trustee Date: 12-22-04
 Signature: 

Introduction

In May of 2003, Perry Township received approval for coverage under the Ohio EPA NPDES General Permit OHQ000001 as part of the storm water district established in Lake County. The Ohio EPA Facility Permit Number is 3GQ00068*AG. This District regulates 16 communities including Townships, Villages, and Cities. Perry Township has elected to withdraw from the Lake County storm water district and create its own storm water management program.

This report describes the community's Storm Water Management Program. This report describes what is currently being implemented or proposed to be implemented by Perry Township. Measurable goals and other pertinent information are described in this report.

Perry Township has the legal authority to implement the following Storm Water Management Program. As a unit of local government, the Township has the authority to adopt regulations as may be necessary for promoting the peace, health, safety, and general welfare of its citizens.

Since a majority of the best management practices are continuously implemented, most measurable goals will track some kind of relevant information related to the best management practice. For example, how often or where the best management practice is implemented will be tracked or how much of a certain activity is being implemented will be tracked. Each best management practice satisfies specific requirements of one of the six minimum control measures. Each best management practice gives measurable parameters as an indication of the types of information that can be tracked and reported on in the required annual reports.

The public has been involved in the development and submittal of the NOI and SWMP. In preparing the Storm Water Management Program, opportunity for public input and comment was made available. Copies of the draft plan were made available at the library, on the Township's website, and presented at a regular meeting of the Township Trustees. In addition, a public comment meeting was held at the Township Hall, 3740 Center Road in Perry Township to provide interested persons with an opportunity to comment on the plan and submit suggestions for consideration.

According to Sections 3.2.1.2.7, 3.2.2.2.6, 3.2.3.2.7, 3.2.4.2.7, 3.2.5.2.8, and 3.2.6.2.5 of the NPDES Permit, Perry Township must identify how it selected the best management practices and the measurable goals for each minimum control measure. Perry Township examined all the policies and programs currently in place which help to improve water quality. Perry Township is pleased to state that within the Township, many practices are already in place satisfying some or all of the requirements of the Phase II Storm Water Management Program. For the most part, the Township is already in compliance with the Phase II regulations and does not have many changes to make in order to be in compliance. After inventory of the current policies, the Township assessed the requirements of the Permit and determined what other programs or activities needed to be addressed in order to comply with the OEPA General Permit. As part of the public participation process, the Township incorporated the comments and suggestions received from interested citizens, Township administration, and other entities. These ideas and suggestions helped to create our storm water management program, specifically how to evaluate

the success of each minimum control measure and the measurable goal for each best management practice.

Location

Perry Township is situated in Lake County with a 2000 US Census population of 6,220. Perry Township encompasses approximately 17.27 square miles. Perry Township is bordered by Painesville Township to the west, Madison Township and North Perry Village to the east, Leroy Township and the Grand River to the south, and Lake Erie to the north. Perry Township completely surrounds Perry Village.

Urbanized Area

The 2000 U.S. Census identified only a portion of Perry Township as an urbanized area. Our Storm Water Management Program is only for the urbanized portions of the Township. According to the Census, 5,391 of the Township's 6,220 residents live in the urbanized area. The urbanized area is located south of US Route 20 (North Ridge Road) and extends approximately the entire length of Perry Township. The southern boundary of the urbanized area follows the Red Creek west of Perry Village and State Route 84 (South Ridge Road) is the southern boundary line east of Perry Village. A small portion southeast of the Perry Village corporation line is within the designated urbanized area. A map of the 2000 Perry Township Urbanized Area is in Appendix A.

Environmental Resources

Perry Township has three (3) main watersheds, Lake Erie Watershed, Grand River Watershed, and Arcola Creek Watershed. Lake Erie is the major drainage basin for Perry Township. Red Mill Creek and several minor creeks flow directly into Lake Erie. Red Creek is the principal creek within the Lake Erie watershed. The Grand River watershed drains the southern and western portion of the Township with the divide running along Narrows Road and Webb Road and east along River Road from Webb Road. The Grand River runs along the southern border of the Township and is one of only two rivers in the State of Ohio that has been classified as a wild and scenic river. The Arcola Creek Watershed is located in a small area on the eastern side of the Township, just south of U.S. Route 20. The majority of the land within Perry Township has a high water table, with swampy areas found in the central portion of the Township. A map of the watersheds can be found in Appendix B. The US Census 2000 Perry Township Urbanized Area is identified on the map.

There are 25 streams totaling 38.51 miles in Perry Township. The table on the next page identifies the streams located in the 2000 US Census Urbanized Area portion of the Township.

STREAMS LOCATED IN PERRY TOWNSHIP 2000 URBANIZED AREA				
Name of Stream	Length (Miles)	Flows Into	Drainage Area – Main Stream (Square Miles)	Drainage Area – Tributary (Square Miles)
Unnamed	1.51	Parmly		0.69
Unnamed	2.27	Lake Erie	0.98	
Unnamed	1.51	Lake Erie	0.73	
Unnamed	0.94	Lake Erie	0.38	
Red Mill Creek	5.11	Lake Erie	6.67	
Call Hambling	1.42	Red Mill Creek		3.95
Davis	1.42	Call Hambling		1.04
Manchester Edmund	1.32	Call Hambling		1.35
Arnold	2.36	Call Hambling		1.06
Unnamed	0.66	Red Mill Creek		0.47
Red Creek	3.42	Grand River		9.64
McKinley Creek	2.17	Lake Erie	2.35	
Cooley	2.84	Arcola Creek		1.45
Arcola Creek / McMackin	0.20	Lake Erie		

Source: Gazetteer of Lake County, Ohio

Soils

Almost 25 differing soil types varying in composition can be found in Perry Township. Composition of the soil is strongly influenced by the post glacial action which deposited silts, sands, and gravels. The majority of the soil types in the Township are acidic in nature and tend to be well compacted and wet. Along the ridges a few sandy well-drained soils can be found. The ridges are composed of glacial till overlain with beach deposits, which were left by the waters of the receding lakes.

Storm Sewers

The urbanized portions of Perry Township are served by storm sewer systems which collect and convey surface runoff to the Township’s various receiving streams. All new subdivisions within Perry Township are required to provide a storm water management plan which includes provisions for detention/retention and the installation of storm sewers as part of each subdivision’s public improvements. The storm sewers are designed to collect and control runoff from the streets, homes, and building lots within each subdivision. Perry Township has worked cooperatively with officials of Lake County to institute special storm drainage requirements for new subdivisions constructed within the Township. The commercial and industrial areas within the Township also have storm sewer systems for collection of surface runoff. Most of the existing storm sewers are located in the more developed northern and western portions of the

Township. Because of its rural nature, large portions of Perry Township use roadside ditches as the principal means of collecting and conveying storm runoff. The Township has an on-going program of ditch maintenance to insure that these systems remain functional.

Sanitary Sewers

Perry Township is serviced by the Lake County Department of Utilities for both water and sanitary sewers. A map showing sanitary sewer service areas for Perry Township is in Appendix C. The US Census 2000 Perry Township Urbanized Area is identified on the map.

At the present time only a small portion of the Township has sanitary sewer service provided by the Lake County Department of Utilities. These areas are Canyon Ridge and Canyon View Drives; Murray Street, Naylor Street and Circle Drive; a short portion of S.R. 84 and Madison Avenue west of Vrooman Road; the Lane Road extension north of U.S. 20; Center Road south of Clark Road but not extending to U.S. 20; a portion of U.S. 20 from Antioch Road east and from Call Road west; Call Road from U.S. 20 to Middle Ridge Road; Middle Ridge Road west of Call Road to approximately halfway between Call Road and Center Road; Magnolia Drive, Casa Bella Drive; and the Red Mill Run Subdivision. Sanitary Sewer Service is currently being extended further north with the extension of Lane Road and expansion of the industrial park.

***Minimum Control Measure #1:
Public Education & Outreach***

Rationale Statement and Best Management Practices

Education is a good way to promote positive environmental awareness that will ultimately lead to the reduction or elimination of pollution in runoff and the subsequent contamination of surface and ground water supplies. Making an effort to stop the pollution problem initially through education rather than dealing with the results of the problem will hopefully prove to be a more environmentally friendly approach and a more economically feasible approach. Media, community newsletters, internet, various groups and entities, and school programs will provide the means to educate the residents of Perry Township on a variety of storm water related issues.

Target audiences for our education program include residents; institutional entities including governmental facilities, schools, and places of worship; commercial/business entities; and industrial entities. This will include all ethnic and economic groups. The township expects to reach all of the 5,391 residents in its urbanized areas with this outreach program by the end of the permit term.

Our public education and outreach program is designed to address target pollutant sources in Perry Township. Both the Lake Erie Protection and Restoration Plan and the Ohio Department of Natural Resources identified sediment as a problem in Lake Erie watersheds. The sediment generated by construction activities has been identified as a significant storm water pollution problem in the urbanized area of Perry Township and the remainder of Lake County. Nutrient pollution and habitat or flow alterations are found in the eastern portion of the urbanized area. The western portion of Perry Township's urbanized area has salinity/TDS/chlorides pollution and habitat or flow alterations.

Perry Township will rely on four (4) best management practices for the implementation of a public education and outreach program on storm water impacts. The Township will utilize the various forms of communication described below to inform individuals and groups about the steps they can take to reduce storm water pollution. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #1, Public Education and Outreach.

Best Management Practice: Perry Township Community Newsletter – “The Perry Bulletin Board”

The Township will utilize its quarterly community newsletter to educate the public on storm water topics such as water conservation practices for homeowners, proper disposal of household hazardous wastes, trash management, proper lawn and garden practices, stream stewardship, and the recognition and identification of pollutant sources. Additional information on how to become involved or participate in storm water-related activities will be presented. The newsletter is an invaluable tool for community development and also ensures that all citizens are

aware of community actions and activities. The newsletter is currently mailed to all Township residents and is also available on the Township's website.

Implementation Schedule: The Township newsletter will feature articles twice a year on storm water topics starting in spring 2005. The Township Administrator or his designee is responsible for the storm water-related article.

Measurable Goal: The number and nature of the storm water-related articles published in the Township newsletter will be tracked.

Best Management Practice: *Storm Water Website*

A storm water management page on the Township's website will be developed. Perry Township's website, www.perrytownship-lake.com currently lists public meetings, the Zoning Resolution and Zoning Map, the 2003 Perry Township Comprehensive Plan, upcoming events, public officials, and volunteer opportunities for the public to attend and participate in. The website will have links to other agencies storm water websites which will provide educational information or other storm water-related information. The website is advertised in the Perry Bulletin Board newsletter.

Implementation Schedule: The storm water website will be created by the Web Master and updated on a regular basis.

Measurable Goal: The Web Master will track the number of hits per month the website receives.

Best Management Practice: *Perry Township Display*

Perry Township residents may pick-up information on local events, activities and services in the Perry Township Hall located at 3740 Center Road between 8:00 am and 5:00 pm Monday through Friday. The bulletin board and the display case in the front lobby will provide storm water related booklets, handouts, educational and volunteer opportunities, and upcoming events.

Implementation Schedule: The display case and bulletin board will be updated on a regular basis. The responsible official is the Township Administrator or his designee.

Measurable Goal: The number and nature of the storm water-related information will be tracked.

Best Management Practice: *K- 12 Education Program*

In order to contribute to the success of the storm water management program, the education and involvement of students is important. Perry Township will partner with watershed organizations, environmental public interest groups, or trade organizations to provide education displays and curriculum in order to educate the students about how to protect water quality. Teachers will be able to help students develop an awareness of storm water pollution, its effects on valuable environmental resources, and the way that the public can help to protect this resource. Examples include poster contests, education videos, and displays.

Implementation Schedule: The Township Administrator or his designee will be responsible for the annual education program or activity.

Measurable Goal: The number of students and teachers involved in and participating in storm water-related education activities will be tracked annually.

***Minimum Control Measure #2:
Public Participation & Involvement***

Rationale Statement and Best Management Practices

The rationale of the public participation and involvement program is that by getting the residents of Perry Township involved in activities that reduce or eliminate pollution in storm water runoff, they will start to appreciate the environment and start to develop better environmental habits.

Target audiences for our public participation and involvement program include residents; institutional entities including governmental facilities, schools, and places of worship; commercial/business entities; and industrial entities. This will include all ethnic and economic groups. All target audiences will be reached by the end of the permit term.

Perry Township will rely on eight (8) best management practices for the implementation of a public participation and involvement program on storm water impacts. From the beginning, the public has been involved in the development and submittal of the NOI and SWMP. Perry Township will utilize the various forms of communication described below to inform individuals and groups about the steps they can take to reduce storm water pollution and become involved in and participate in storm water activities. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #2, Public Participation and Involvement.

Best Management Practice: Creek Clean-Up

The public will be invited to participate in volunteer creek clean-up projects in an effort to reduce litter in valuable water resources. The public will be notified of creek clean-up workdays through the Perry Bulletin Board newsletter and the Township website. The Creek Clean-up provides community service hours for residents, students, organizations, and court ordered service.

Implementation Schedule: This will be an annual event that will be planned and organized well in advance to maximize public involvement. The Township Administrator or his designee is responsible for organizing the creek clean-up each year.

Measurable Goals: The number of volunteers per creek clean-up event will be tracked. This information will be compiled and presented to the public in the Township newsletter.

Best Management Practice: Curb-Side Recycling Program

In an effort to reduce litter, a curbside recycling program, which includes the collection of newspaper/magazines, corrugated cardboard, plastic, glass, aluminum and other metals is currently offered by the Lake County Solid Waste District. Perry Township pays for the curbside recycling program so that this service is free for the residents of the Township.

Implementation Schedule: The Township will continue to pay for the curbside recycling pick-up for residents in Perry Township. The Township Administrator or his designee is responsible for administering the Township's payment for the recycling program.

Measurable Goal: The goal is for the Township to continue to pay for the curbside recycling program for the residents of Perry Township.

Best Management Practice: *Yard Waste Program*

The Township offers free lawn and garden waste drop-off beginning in April through late November of each year. Information regarding dates and guidelines is provided in the community newsletter and on the Township's website.

Implementation Schedule: The lawn and garden waste drop-off point is the Township Road Garage on the 1st and 3rd Saturdays of each month between 9 am and noon. Leaf drop sites are at area nurseries for the resident's convenience. Appendix D lists the nurseries participating in the leaf drop-off. The dates are advertised in the Township newsletter and on the Township's website. The Perry Township Road Department is responsible for the lawn waste program.

Measurable Goal: The goal is to continue this free service for the residents of Perry Township.

Best Management Practice: *Perry Township Spring and Fall Trash Clean-up*

Perry Township, in conjunction with Waste Management, offers curb-side clean-up for the residents of Perry Township. Tires must be dropped off at the Township Road Garage. The Fall Trash Clean-up informational flyer from the November 6 and November 13 event is in Appendix E.

Implementation Schedule: The Perry Township clean-up is offered in the spring and in the fall of each year. The event is advertised in the Perry Bulletin Board newsletter. The Township Administrator or his designee is responsible for this event.

Measurable Goal: The goal is to continue this free service for the residents of Perry Township.

Best Management Practice: *Hazardous Waste Collection Day*

The Lake County Solid Waste District currently sponsors an annual Hazardous Waste Collection Day. Perry Township will advertise each of the District's collection days in the Township newsletter and on the Township website to encourage its residents to gather unwanted household hazardous wastes and dispose of them properly at designated pick-up sites.

Implementation Schedule: This ordinarily is an annual event. In 2004, there were two (2) hazardous waste collection days. Dates for the 2005 events are currently not available. The Township Administrator or his designee is responsible for advertising this event to Township residents.

Measurable Goal: The goal is to advertise each Hazardous Waste Collection Day whenever the District sponsors it, which is currently occurring at least once per year.

Best Management Practice: Scrap Tire Collection Day

The Lake County Solid Waste District currently sponsors an annual Scrap Tire Collection Day. Perry Township will advertise each of the District's collection days in the Township newsletter and on the Township website to encourage its residents to gather unwanted tires and dispose of them properly at designated pick-up sites.

Implementation Schedule: This ordinarily is an annual event. Dates for the 2005 event(s) are currently not available. The Township Administrator or his designee is responsible for advertising this event to Township residents.

Measurable Goal: The goal is to advertise each Scrap Tire Collection Day whenever the District sponsors it, which is currently occurring at least once per year.

Best Management Practice: Computer Collection Day

The Lake County Solid Waste District currently sponsors an annual Computer Collection Day. Perry Township will advertise each of the District's collection days in the Township newsletter and on the Township website to encourage its residents to gather old and unused computers and computer parts and recycle them at designated pick-up sites.

Implementation Schedule: This ordinarily is an annual event. Dates for the 2005 event(s) are currently not available. The Township Administrator or his designee is responsible for advertising this event to Township residents.

Measurable Goal: The goal is to advertise each Computer Collection Day whenever the District sponsors it, which is currently occurring at least once per year.

Best Management Practice: Phone Book Collection Day

The Lake County Solid Waste District currently sponsors an annual Phone Book Collection Day. Perry Township will advertise each of the District's collection days in the Township newsletter and on the Township website to encourage its residents to gather outdated phone books and recycle them at designated pick-up sites.

Implementation Schedule: This ordinarily is an annual event. In 2004, there were two (2) Phone Book Collection Days. Dates for the 2005 events are currently not available. The Township Administrator or his designee is responsible for advertising this event to Township residents.

Measurable Goal: The goal is to advertise each Phone Book Collection Day whenever the District sponsors it, which is currently occurring at least once per year.

Best Management Practice: Promotion of Watershed Watch Program

The Lake County Soil and Water Conservation District administers the Watershed Watch Program. Perry Township will advertise the Watershed Watch program in the Township newsletter and on the Township website to encourage its residents to participate. The township will also include stream monitoring in its promotional materials distributed to teachers as part of its K-12 Education Program.

Implementation Schedule: . The Township Administrator or his designee is responsible for advertising the Watershed Watch program to Township residents whenever the District sponsors such an event. The Township Administrator or his designee will include stream monitoring in its promotional materials for the K-12 Education Program once annually.

Measurable Goal: The goals are to advertise each Watershed Watch whenever the District sponsors it, which is currently occurring at least once per year, and to include stream monitoring in its promotional materials in the K-12 Education Program once annually.

***Minimum Control Measure #3:
Illicit Discharge Detection & Elimination***

Rationale Statement and Best Management Practices

The objective of the illicit discharge detection and elimination program is to develop, implement, and enforce a policy to detect and eliminate illicit discharges in MS4s. Perry Township will utilize four (4) best management practices in order to implement the illicit discharge detection and elimination program. This program includes the development of maps showing the locations of all outfalls and the names and locations of all surface waters that receive discharges from those outfalls. The locations of home sewage treatment systems that are connected to MS4s will be identified and mapped. This control measure includes plans to detect and address non-storm water discharges into the MS4, including illegal dumping. The Township will educate public employees, businesses, and the general public about the hazards associated with illegal discharges and improper disposal of waste through the mechanisms adopted under Minimum Control Measure #1. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #3, Illicit Discharge Detection and Elimination.

Best Management Practice: Prohibitions against Illicit Discharges

Perry Township will enforce the provisions of its Zoning Resolution prohibiting illicit discharges into the Township's storm sewers, ditches and streams. The Township chose this mechanism to detect and address illicit discharges because it utilizes legal authority already available to the Township and because it has previously proven to be effective to prevent illicit discharges. Section 212.01 prohibits any person or entity, whether residential or commercial, from dumping or disposing of garbage, refuse, scrap metal, junk, rubbish, offal, dead animals, rubber tires, or tin cans without a certificate from the Township. This prohibition is sufficiently broad to prevent unlawful discharges from on-site sewage disposal systems, industrial operations, or any other illicit discharge. Other sections of the Resolution complement this general prohibition. Section 212.04 prevents the storage, piling, or accumulation of building materials on vacant properties without a Township certificate. Non-residential uses in the Township must also comply with an environmental performance standard in Section 400.03 that prohibits the discharge of solids, liquids, or other matter into or onto any bodies of water, streams, or the ground except in compliance with an Ohio EPA permit and the agency's water pollution control standards. Another environmental performance standard in Section 400.07 bans the discharge of any toxic or noxious matter in any form that may be detrimental to public health, safety, general welfare, or the natural environment. The same standard requires hazardous and toxic materials to be stored, used, and disposed of in accordance with Ohio EPA requirements. Under Section 216.04, the developers of non-residential properties must obtain Township approval of site plans that contain, among other things, provisions for the adequate disposition of storm water and the storage and removal of solid waste. Under Section 310.032, multi-family dwellings must submit development plans for approval by the Township that include, among other things, an evaluation

demonstrating that the quality of storm water to be discharged into the storm water drainage system will not lower water quality. These sections of the Zoning Resolution are attached in Appendix G.

Implementation Schedule: The program is on-going. The Township Administrator or his designee is responsible for this program. The Township Administrator or his designee will conduct inspections as required, including any necessary dry weather screening, to discover illicit discharges in violation of the Township's Zoning Resolution. Dye testing will be performed where necessary to trace the origin of illicit discharges. Upon detection of illicit discharges, the Township Administrator or his designee will obtain compliance under Sections 206.02, 210.01, 210.02 and/or 400.12 of the Resolution. The Township Administrator has the authority under these sections to request the Township's legal advisor to institute legal proceedings if necessary to obtain compliance. The Township also has the ability to work cooperatively with other government agencies, such as the Lake County General Health District, to terminate illicit discharges from failing septic systems and other sources.

Measurable Goal: Elimination of illicit discharges after detection. See the implementation schedule in Table 1 for specific milestones for inspections and enforcement.

Best Management Practice: *Retain Large Lots in Southern and Eastern Portions of Township*

Perry Township adopted large minimum lot sizes in the outlying areas of the Township in order to preserve the horticultural industry and maintain the rural character. The minimum lot sizes range from two (2) acres in the Estate Residential 2 District and three (3) acres in the Estate Residential 3 District which exceeds the Lake County General Health District requirements for on-site sewage systems. These large lots provide proper filtering for on-site septic systems.

Implementation Schedule: The Township Administrator or his designee is responsible for implementing the Zoning Resolution minimum lot sizes. The program is on-going.

Measurable Goal: The goal is to encourage large lot development in order to preserve the rural character of Perry Township, eliminate health hazards with on-site disposal systems on smaller lots, and ensure that on-site disposal systems have adequate areas for percolation and filtering of wastes.

Best Management Practice: *Lake Erie, Grand River, and Arcola Creek Watersheds Storm Sewer System Mapping*

Perry Township will map the location, size, slope, length, and elevation of all outfalls, storm sewers, ditches and waterways within the Lake Erie, Grand River, and Arcola Creek watersheds in the urbanized areas of the Township. A field survey will be conducted to determine location, size, slope, length, and elevation of all outfalls, storm sewers, ditches and waterways within the watersheds. The outfalls and storm drainage facilities will be mapped and labeled for the watershed areas.

Implementation Schedule: The responsible authority is Township Administrator or his designee. The mapping will be completed within the permit time period.

Measurable Goal: The goal is to have the outfalls, storm sewers, ditches, and waterways within the entire Township mapped.

Best Management Practice: Inventory and Map On-Site Sewage Disposal Systems

Perry Township will identify and map the on-site sewage disposal systems in the Township that are connected to the storm sewer system. The number, type, and location including addresses of connected home sewage treatment systems will be tracked.

Implementation Schedule: The Township Administrator or his designee is the responsible authority. The on-site sewage disposal systems will be inventoried and mapped within the permit time period.

Measurable Goal: The goal is to have listed and mapped all on-site sewage disposal systems that are connected to MS4s in the Township.

Best Management Practice: Public Education Programs

Perry Township will educate the public, including businesses susceptible to illicit discharges, about storm water practices designed to prevent illicit discharges and about the proper disposal of household hazardous waste.

Implementation Schedule: The Township Administrator or his designee will educate households and businesses about storm water practices designed to prevent illicit discharges and about the proper disposal of household hazardous waste by including articles on these topics in the township's quarterly newsletters and by posting the newsletters and other information on these topics on the township's web site.

Measurable Goal: The goals are to decrease illicit discharges and encourage the proper disposal of household hazardous waste by using these educational tools.

***Minimum Control Measure #4:
Construction Site Runoff Control***

Rationale Statement and Best Management Practices

Perry Township will utilize five (5) best management practices in order to implement a construction site storm water runoff control program. The goal is to reduce pollutants in storm water runoff that result from land disturbance associated with development activities. The program ensures that controls are in place that would prevent or minimize water quality impacts. Strategies are identified which include a combination of structural and/or non-structural best management practices are developed and implemented. Perry Township participates in a site plan review process and has a regulatory mechanism or specifications that govern new construction. The Township also has a procedure in place for receiving and considering information submitted by the public about problems at construction sites. See the Perry Township Action Form in Appendix H. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #4, Construction Site Runoff Control.

Best Management Practice: Site Plan Review for Drainage and Storm Water Runoff

Sections 216.02 to 216.05 of Perry Township's Zoning Resolution require developers to submit site plan for non-residential uses or development involving new construction, reconstruction or expansion of non-residential uses. This requirement will be enforced under the MS4 program for all multi-family, commercial, and industrial sites that are one acre or larger in size. The required plans must include provisions for storm water management and erosion control in accordance with the standards set forth in the Zoning Resolution, including compliance with Ohio EPA storm water construction standards. Periodic inspections are made during construction at which time the placement and condition of drainage improvements are verified. Failure to install and/or maintain adequate drainage improvements is a violation of the Zoning Resolution and subject to the same enforcement procedures and penalties as other Zoning Resolution violations. The Zoning Resolution language is provided in Appendix G.

Implementation Schedule: The site plan review procedure was adopted in 1994 and will continue to be enforced. The Township Administrator or his designee reviews the site plans and performs field inspections of the construction sites.

Measurable Goal: The goal is for 100% compliance by multi-family, commercial, and industrial uses with the approved storm water management requirements of the Zoning Resolution. The site plan requirements will be enforced for all multi-family, commercial, and industrial sites that are one acre or larger in size. All such sites will be inspected to determine compliance with their plans.

Best Management Practice: Site Plan Review for Water and Sanitary Sewer Improvements

Under Sections 216.02 to 216.05 of Perry Township's Zoning Resolution, the final site plan for non-residential uses or development involving new construction, reconstruction or expansion of non-residential uses must also include detailed design drawings for all proposed water and

sanitary sewer improvements. All proposed improvements shall be designed and constructed in accordance with the standards of the Lake County Department of Utilities, the Lake County General Health District, and the Ohio Environmental Protection Agency. The Zoning Resolution language is provided in Appendix G.

Implementation Schedule: Site plan review was adopted in 1994 and will continue to be enforced. The Township Administrator or his designee reviews the site plans and performs field inspections of the construction sites.

Measurable Goal: The goal is for 100% compliance by multi-family, commercial, and industrial uses with the approved water and sanitary sewer improvement requirements of the Zoning Resolution. The site plan requirements will be enforced for all multi-family, commercial, and industrial sites that are one acre or larger in size. The number of these sites is estimated to be approximately ten per year. All such sites will be inspected to determine compliance with their plans.

Best Management Practice: *Erosion and Sedimentation Control Training*

The Lake County Soil and Water Conservation District provides workshops for developers and builders in order to educate them on how to follow the Erosion and Sediment Control rules adopted by the Lake County Commissioners. When the District offers these workshops, Perry Township will encourage its developers and builders to participate in them by advertising the workshops on the Township's web site and newsletter.

Implementation Schedule: The workshops ordinarily are offered annually. The Township currently advertises them whenever they occur. The Township Administrator or his designee is responsible for advertising these workshops.

Measurable Goal: The goal is to advertise each workshop whenever the District sponsors it, which is currently occurring at least once per year.

Best Management Practice: *Control of Construction Site Wastes*

The control of construction site waste, such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste, will be accomplished under Paragraph 3.2.4.1.3 of the OEPA General Permit by implementing the activities, implementation schedule, and measurable goals for the prohibition of illicit discharges under Minimum Control Measure #3.

Best Management Practice: *Amend Zoning Resolution to Include Erosion and Sedimentation Control*

The Township will amend the Zoning Resolution to address erosion and sedimentation control during construction of residential, multi-family, commercial, and industrial developments one acre or larger.

Implementation Schedule: The schedule is for the Zoning Commission to recommend and the Township Trustees to adopt these erosion and sedimentation control standards as part of Site Plan Review by the end of 2006.

Measurable Goal: The goal is to adopt the erosion and sedimentation control standards.

Best Management Practice: *Review and Inspect Erosion and Sedimentation Control Plans*

Once the erosion and sedimentation control standards are adopted as part of the site plan review process for residential, multi-family, commercial and industrial construction sites one acre and larger, the Township Administrator or his designee will review 100% of all erosion and sedimentation control plans at these regulated sites. The Township Administrator or his designee will inspect the sites at least monthly during construction to monitor compliance with the approved erosion and sedimentation control plans.

Implementation Schedule: The schedule is for all new residential developments larger than one-acre and all multi-family, commercial, and industrial developments to have approved erosion and sediment control plans by the end of 2006. The Township administrator or his designee will be responsible for implementing this practice.

Measurable Goal: The goal is to enforce the erosion and sedimentation control standards.

***Minimum Control Measure #5:
Post-Construction Runoff Control***

Rationale Statement and Best Management Practices

Similar to the construction runoff control program, the post-construction runoff control program requires the development, implementation, and enforcement of a program to address storm water runoff into regulated MS4s from development and redevelopment projects generally disturbing one or more acres. The program ensures that controls are in place that would prevent or minimize water quality impacts, strategies are developed and implemented, and regulatory policies address post-construction runoff in order to ensure adequate long-term operation and maintenance of MS4s. Perry Township will utilize four (4) best management practices in order to implement a post-construction runoff control program. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #5, Post-Construction Runoff Control.

Best Management Practice: Non-Residential and Multi-Family Post-Construction Storm Water Management

Under the Zoning Resolution authority described in Minimum Control Measure #4, owners of multi-family, commercial, and industrial developments are required to maintain on-site drainage improvements installed pursuant to a zoning permit and approved site plan in proper working order. This includes any storage structures or mechanisms, such as detention ponds or infiltration practices, that were determined to be a necessary component of the site plans.

Implementation Schedule: This program is on-going. The Township Administrator or his designee is authorized to evaluate such systems as necessary to insure proper operation.

Measurable Goal: The goal is for all on-site storm water management facilities to be properly functioning.

Best Management Practice: Source Control Measures to Prevent Discharges

The township activities described in the BMP for the prohibition of illicit discharges under Minimum Control Measure #3 also provide good housekeeping, preventive maintenance and spill prevention under Section 3.2.5.2.3.4 of the Ohio EPA General Permit. These activities, their implementation schedule, and measurable goals are incorporated into Minimum Control Measure #5.

Best Management Practice: Non-Structural Best Management Practices

Perry Township will continue to require large minimum lot sizes in the outlying areas of the Township in order to preserve the horticultural industry and maintain the rural character, as described under Minimum Control Measure #3. The minimum lot sizes in these areas range from two (2) acres in the Estate Residential 2 District and three (3) acres in the Estate Residential 3 District. The township will also consider the adoption of a resolution for riparian and wetland setbacks.

Implementation Schedule: The Township Administrator or his designee is responsible for implementing these practices. If riparian and wetland setbacks are found to be appropriate and necessary, the Township will adopt these setbacks by March 2008. The remainder of the program is on-going.

Measurable Goal: The goal is to encourage large lot development in order to preserve the rural character of Perry Township, eliminate health hazards with on-site disposal systems on smaller lots, and ensure that on-site disposal systems have adequate areas for percolation and filtering of wastes.

Best Management Practice: *Amend Zoning Resolution to Include Water Quality*

The Township will amend the Zoning Resolution to address water quality for multi-family, commercial, and industrial developments.

Implementation Schedule: The schedule is for the Zoning Commission to recommend and the Township Trustees to adopt water quality requirements as part of Site Plan Review for multi-family, commercial, and industrial developments one acre or larger by the end of 2006.

Measurable Goal: The goal is to adopt water quality regulations.

Minimum Control Measure #6:
Pollution Prevention/Good Housekeeping

Rationale Statement and Best Management Practices

The ultimate goal of minimum control measure number six is to prevent or reduce pollutant runoff from Township operations. The pollution prevention and good housekeeping program requires the development and implementation of an operation and maintenance program that includes an employee-training component.

The Township operations that are impacted by this program include park and open space maintenance, Township Hall, vehicle and building maintenance, cemetery, and well fields.

Perry Township will rely on six (6) best management practices in order to develop and implement an operation and maintenance program. The Township Administrator is responsible for the overall management and implementation of Minimum Control Measure #6, Pollution Prevention / Good Housekeeping.

Best Management Practice: Public Employee Training

Township employees will receive mandatory formal training concerning measures to prevent or reduce pollutant runoff from Township operations, including park and open space maintenance, snow removal, vehicle and building maintenance, and sediment and debris removal from storm sewers using training materials available from the Ohio EPA or other state agency. All new Township staff will be required to complete the public employee trainings. Refresher courses will be required for all Township employees on a three-year cycle. Employee training materials are available in Appendix F.

Implementation Schedule: Training will begin in spring of 2005. Refresher courses will be required every three (3) years.

Measurable Goal: The Township employees who attend the training courses will be documented.

Best Management Practice: Maintenance of Township Vehicles and Facilities

The vehicle maintenance program will require all Township-owned or operated vehicles to be regularly inspected to eliminate the amount of oil, grease, and fluid leaks. Procedures will be developed to reduce storm water pollution from Township vehicles and maintenance facilities.

Implementation Schedule: The responsible department is the Perry Township Road Department. The program is ongoing.

Measurable Goal: Inspection and maintenance will occur at least twice per year. Maintenance records of Township-owned or operated vehicles will be available to the public at Township Hall.

Best Management Practice: Disposal of Waste Collected Through Township Operations

The fertilizers, pesticides, paint and other chemicals used in Township Operations will be stored and disposed of properly. Fertilizers, pesticides, paint and other chemicals are stored under a roof. Used oil and antifreeze from vehicle maintenance operations will be recycled.

Implementation Schedule: The program is on-going. The Perry Township Road Department is responsible for this best management practice.

Measurable Goal: The chemical use and waste disposal from Township operations will be monitored and tracked.

Best Management Practice: Road Salt Application and Storage

Salt application is controlled by spreader operations dependent on temperature, snowfall, and roadway conditions. Salt is stored in a salt bin year-round.

Implementation Schedule: The Perry Township Road Department is responsible for this best management practice. Salt application is done on an as-needed basis.

Measurable Goal: The quantity of salt applied to roadways will be tracked by the Perry Township Road Department.

Best Management Practice: Street Sweeping

Manual street sweeping will be performed at least once per year, focusing on intersections and those areas with larger traffic volumes. The best management practice is currently in place.

Implementation Schedule: The Perry Township Road Department is responsible for this best management practice. Street sweeping will be done at least once per year.

Measurable Goal: The Township will continue street sweeping at least once per year.

Best Management Practice: Cleaning and Maintenance of Storm Sewers

The Perry Township Road Department is responsible for cleaning and maintenance of locally owned storm sewers, culverts, detention basins, and ditches.

Implementation Schedule: The Perry Township Road Department is responsible for this best management practice. This program is currently in place.

Measurable Goal: The goal is for Perry Township to clean and maintain locally owned storm sewers, culverts, detention basins, and ditches on a five-year cycle and more frequently where necessary.

**Reviewing & Updating
Storm Water Management Program**

Review

Perry Township will complete an annual review of the Storm Water Management Program.

Update

The Township will notify the OEPA in writing if changes (adding components, controls, or requirements) are made to the Storm Water Management Program. The update will be in conformance with the requirements set forth in Section 3.4 of the NPDES Permit Number OHQ000001.

Evaluating, Record Keeping & Reporting

Evaluating

Perry Township will evaluate program compliance, will assess the appropriateness of the BMPs, and will track progress toward achieving the measurable goals.

Record Keeping

The Township will retain copies of all required reports, the NPDES permit, and records of all data used to complete the NOI application. The records will be available to the public if requested.

Reporting

Annual reports will be submitted to the OEPA which describe the status of compliance with permit conditions, an assessment of the appropriateness of the identified BMPs, and progress toward achieving each of the measurable goals of the minimum control measures.

**TABLE 1:
PHASE II STORM WATER MANAGEMENT PROGRAM IMPLEMENTATION SCHEDULE**

MINIMUM CONTROL MEASURE: Public Education and Outreach			
Best Management Practice	Responsible Entity	Date	Schedule
Perry Township Bulletin Board Newsletter	Township Administrator or his designee	Started in Spring 2005	Twice a year
Storm Water Website	Web Master	Created Summer 2005	Update on regular basis
Perry Township Display	Township Administrator or his designee	Started in Winter 2005	Update on regular basis
K – 12 Education Program	Township Administrator or his designee	Started in Fall 2005	Annual
MINIMUM CONTROL MEASURE: Public Participation and Involvement			
Best Management Practice	Responsible Entity	Date	Schedule
Creek Clean-Up	Township Administrator or his designee	Started in Summer 2005	Annual
Payment for Curbside Recycling Program	Township Administrator or his designee	Currently offered	Weekly
Yard Waste Program	Perry Township Road Department	Currently offered	April – November Each year
Spring and Fall Trash Clean-Up	Township Administrator or his designee	Currently offered	Spring and Fall Each year
Promotion of Hazardous Waste Collection Day	Township Administrator or his designee	Currently offered	Annual
Promotion of Scrap Tire Collection Day	Township Administrator or his designee	Currently offered	Annual
Promotion of Computer Collection Day	Township Administrator or his designee	Currently offered	Annual
Promotion of Phone Book Collection Day	Township Administrator or his designee	Currently offered	Annual
Promotion of Watershed Watch	Township Administrator or his designee	Currently offered	Annual

MINIMUM CONTROL MEASURE: <i>Illicit Discharge Detection and Elimination</i>			
Best Management Practice	Responsible Entity	Date	Schedule
Prohibitions Against Illicit Discharge	Township Administrator or his designee	Program currently in place	On-going
Detection of Illicit Discharges	Township Administrator or his designee	Program currently in place	Complete initial inspection by 3/08
Elimination of Illicit Discharges	Township Administrator or his designee	Program currently in place	Initiate process to remove 25% of known illicit discharges by 3/08. Eliminate 5% of known illicit discharges by 3/08
Public Education Program	Township Administrator or his designee	Program currently in place	On-going
Retain Large Lots in Southern and Eastern Portions of Township	Township Administrator or his designee	Program currently in place	On-going
Lake Erie, Grand River and Arcola Creek Watersheds Storm Sewer Mapping	Township Administrator or his designee		Complete within permit time period
Inventory / Map On-Site Sewage Disposal Systems	Township Administrator or his designee		Complete within permit time period
MINIMUM CONTROL MEASURE: <i>Construction Site Runoff Control</i>			
Best Management Practice	Responsible Entity	Date	Schedule
Site Plan Review for Drainage and Storm Water Runoff	Township Administrator or his designee	Program currently in place	On-going
Site Plan Review for Water and Sanitary Sewer Improvements	Township Administrator or his designee	Program currently in place	On-going
Promotion of Erosion and Sedimentation Control Trainings	Township Administrator or his designee	Program currently in place	On-going
Control of Construction Site Wastes	Township Administrator or his designee	Program currently in place	On-going
Amend Zoning Resolution to Include Erosion and Sedimentation	Zoning Commission, Board of Township Trustees	End of 2006	
Review and Inspect Erosion and Sedimentation Control Plans	Township Administrator or his designee	End of 2006	On-going

MINIMUM CONTROL MEASURE: <i>Post-Construction Storm Water Runoff Control</i>			
Best Management Practice	Responsible Entity	Date	Schedule
Non-Residential and Multi-Family Post-Construction Storm Water Management	Township Administrator or his designee	Program currently in place	On-going
Source Control Measures to Prevent Discharges	Township Administrator or his designee	Program currently in place	On-going
Non-Structural Best Management Practices	Township Administrator or his designee	Program currently in place	On-going
Amend Zoning Resolution to Include Water Quality	Zoning Commission, Board of Township Trustees	End of 2006	
MINIMUM CONTROL MEASURE: <i>Pollution Prevention/Good Housekeeping</i>			
Best Management Practice	Responsible Entity	Date	Schedule
Public Employee Training	Township Administrator or his designee	Started in Spring 2005	Complete within permit time period
Maintenance of Township Vehicles & Facilities	Perry Township Road Department	Program currently in place	Twice per year
Disposal of Waste Collected Through Township Operations	Perry Township Road Department	Program currently in place	On-going
Road Salt Application & Storage	Perry Township Road Department	Program currently in place	As-needed basis
Street Sweeping	Perry Township Road Department	Program currently in place	Once per year
Cleaning and Maintenance of Storm Sewers, etc.	Perry Township Road Department	Program currently in place	Every five years