

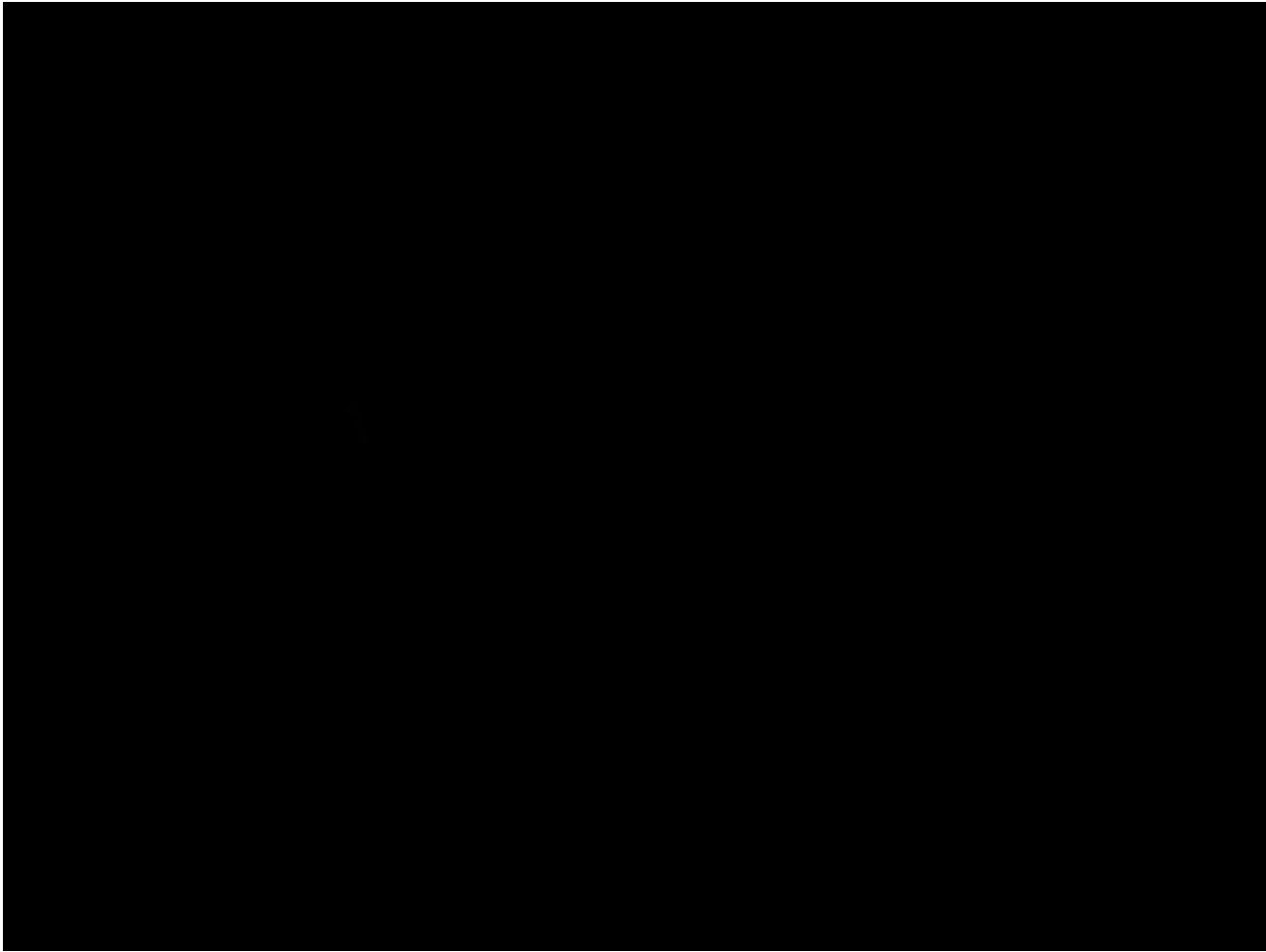
Ohio EPA Storm Water Program MS4 Program Overview

March 10, 2017

Michelle Flanagan and Jason Fyffe
Ohio EPA, Division of Surface Water

Agenda

- NPDES Storm Water Introduction
- STREAMS (online applications)
- MS4 Audit Findings



Storm Water Pollution

Oil, grease and toxic chemicals

Pesticides and nutrients

Viruses and bacteria

Road salts

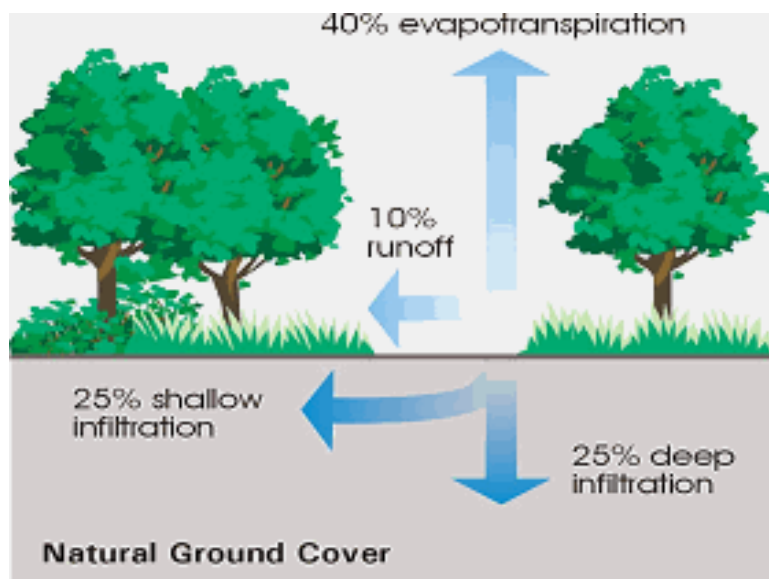
Heavy metals

Trash and litter

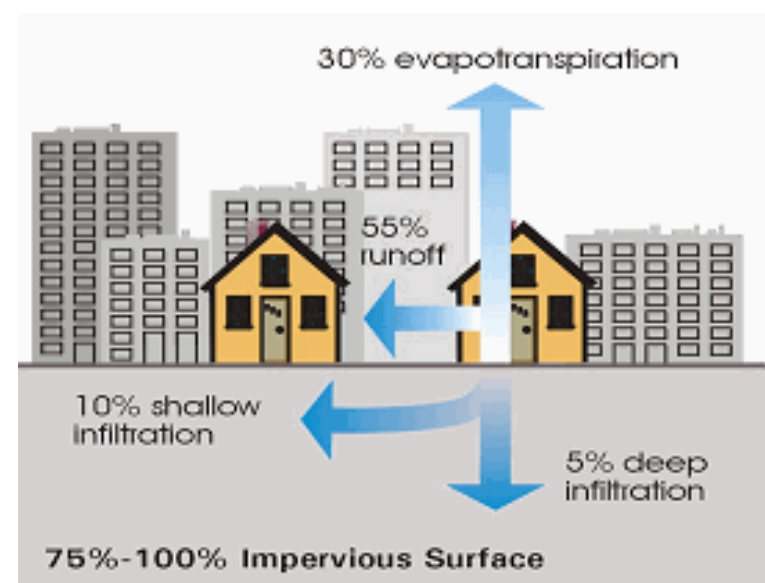
Thermal pollution



Natural Ground Cover



Impervious Surface



Ohio EPA Storm Water Program

Construction Activities



Industrial Activities



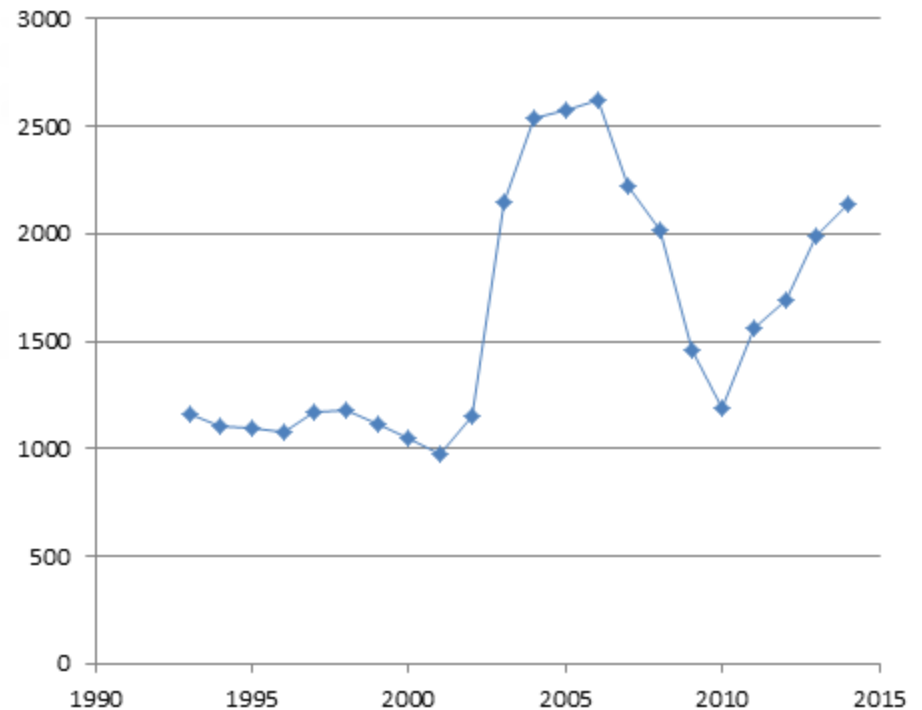
Municipal Separate Storm Sewer Systems



Construction Storm Water



Construction NOIs Issued



Construction Storm Water

Key differences

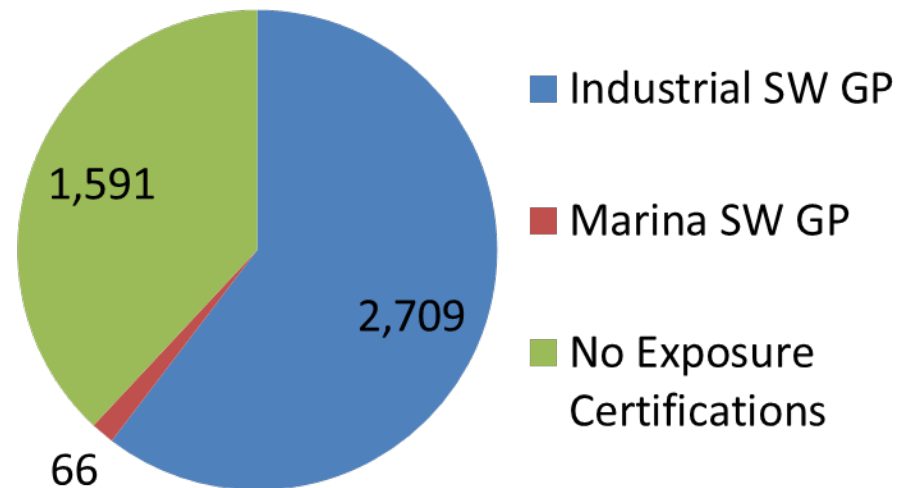


- Big Darby Creek GP
 - Statewide permit with
 - Approval of SWP3
 - Riparian setback and mitigation requirements
 - Groundwater recharge and mitigation requirements
- Olentangy River GP
 - Statewide permit with
 - Approval of SWP3
 - Riparian setback and mitigation requirements

Industrial Storm Water



Industrial Facilities



11 Categories of Industrial Activity

<http://cfpub1.epa.gov/npdes/stormwater/swsectors.cfm>

- i. Facilities with Effluent Limitations for SW
- ii. Manufacturing
- iii. Mineral, Metal, Oil & Gas Mining or Drilling
- iv. Hazardous Waste Treatment, Storage or Disposal Facilities
- v. Industrial Waste Landfills
- vi. Recycling Facilities
- vii. Steam Electric Plants
- viii. Transportation Facilities with Vehicle Maintenance
- ix. Wastewater Treatment Plants (> 1 MGD)
- x. Construction Activity
- xi. Light Industrial Activity

Check below to determine if you need coverage:

http://www.epa.ohio.gov/portals/35/permits/IndustrialStormWater_Final_GP_AppD_dec11.pdf

NPDES Small MS4 Storm Water Program

Phase I MS4s

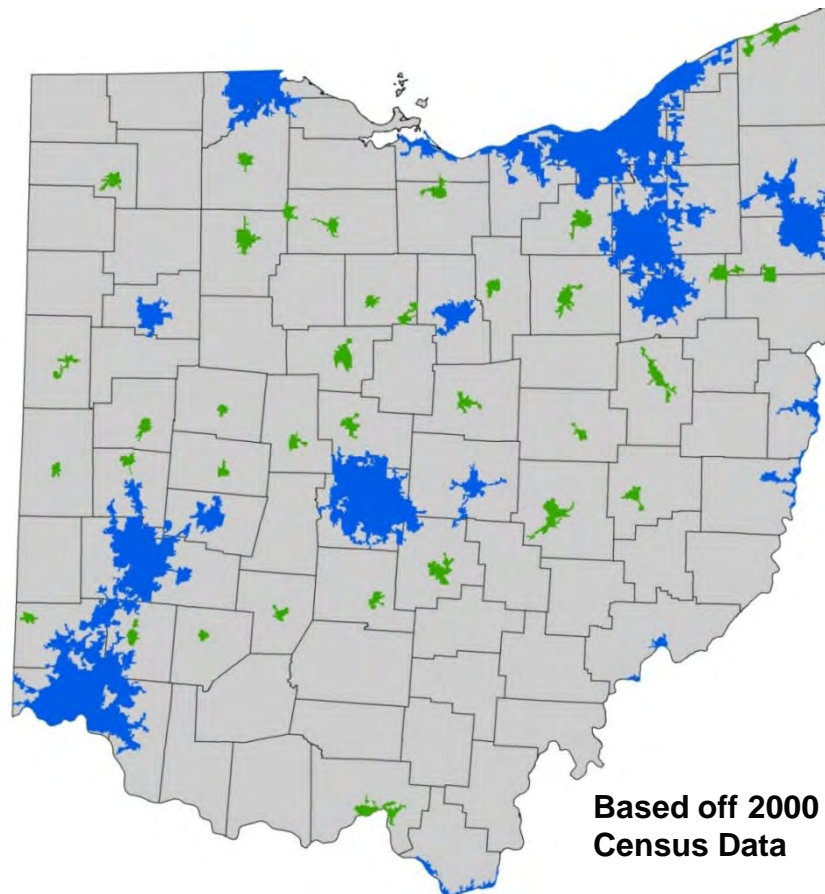
“Medium & Large MS4s

Akron, Columbus, Dayton &
Toledo

Phase II MS4s

“Small MS4s”

539 Small MS4s covered under
284 general permits



Based off 2000
Census Data

Small MS4 Program

What's Required?

- Submittal
 - Notice of Intent (NOI)
 - Storm Water Management Program (SWMP)
 - Take Credit for activities already in place
 - Lonesome or Co-Permittee
- Develop/Implement
 - SWMP
- Recordkeeping/Reporting
 - Annual Reports to Ohio EPA

SWMP

- Best Management Practices (BMPs) which address 6 Minimum Control Measures
- Legal Authority?
- Measurable Goals
- Timeframes for BMP implementation
- Responsible Person
- How evaluate the success of minimum control measures and BMPs

Six Minimum Control Measures



Public Education & Outreach



Public Involvement & Participation



Illicit Discharge Detection & Elimination



Construction Site Runoff Control



Post-Construction Storm Water Management



Pollution Prevention / Good Housekeeping

Public Education & Outreach



Public Involvement/ Participation



Public Education & Outreach / Public Involvement/Participation

- **Public Education Performance Standard:**

Storm Water Public education and outreach program shall include more than one mechanism and target at least five different storm water themes or message over the permit term. At a minimum, one theme or message shall target the development community. Program must reach 50 percent of your population of permit term

- **Public Involvement/participation Performance Standard:**

Public involvement / participation program shall include, at a minimum, five public involvement activities over the permit term.

Illicit Discharge Detection & Elimination

What is an illicit discharge?

“...any discharge to an MS4 that is not composed entirely of storm water, except for fire-fighting activities and NPDES permitted discharges.”

Model Illicit Discharge and Connection Stormwater Ordinance

ORDINANCE NO. _____

This document is downloadable in WordPerfect format.

SECTION 1. PURPOSE/INTENT.

The purpose of this ordinance is to provide for the health, safety, and general welfare of the citizens of () through the regulation of non-storm water discharges to the storm drainage system to the maximum extent practicable as required by federal and state law. This ordinance establishes methods for controlling the introduction of pollutants into the municipal separate storm sewer system (MS4) in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process. The objectives of this ordinance are:

- (1) To regulate the contribution of pollutants to the municipal separate storm sewer system (MS4) by stormwater discharges by any user
- (2) To prohibit Illicit Connections and Discharges to the municipal separate storm sewer system
- (3) To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this ordinance

SECTION 2. DEFINITIONS.

For the purposes of this ordinance, the following shall mean:

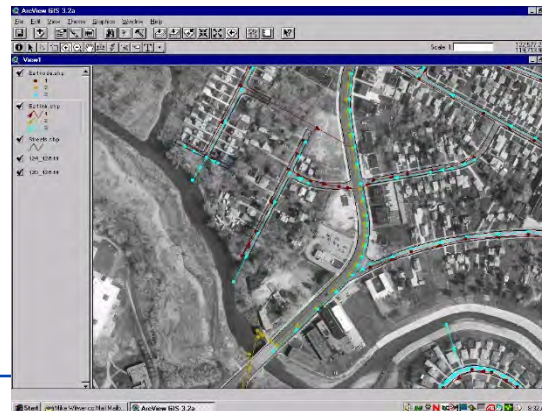
Authorized Enforcement Agency: employees or designees of the director of the municipal agency designated to enforce this ordinance.

Best Management Practices (BMPs): schedules of activities, prohibitions of practices, general good house keeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

Clean Water Act: The federal Water Pollution Control Act (33 U.S.C. ' 1251 et seq.), and any subsequent amendments thereto.

Construction Activity: Activities subject to NPDES Construction Permits. These include construction projects resulting in land disturbance of 5 acres or more. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

Hazardous Materials: Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.



Illicit Discharge Detection & Elimination

- **Performance Standard:**
 - Your storm water illicit discharge detection and elimination program shall include or have included an initial dry-weather screening of all your storm water outfalls over the permit term.
 - Your program shall establish priorities and specific goals for long-term system-wide surveillance of your MS4, as well as for specific investigations of outfalls and their tributary area where previous surveillance demonstrates a high likelihood of illicit discharges.
 - Data collected each year shall be evaluated and priorities and goals shall be revised annually based on this evaluation.
 - Your comprehensive storm sewer system map shall be updated annually as needed.

Construction Site Runoff Control



Page 1 of 36
Ohio EPA Permit No.: OHC000002
Effective Date: April 21, 2003
Expiration Date: April 20, 2008

OHIO ENVIRONMENTAL PROTECTION AGENCY
AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED
WITH CONSTRUCTION ACTIVITY UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the federal Water Pollution Control Act, as amended (33 U.S.C. Section 1251 et. seq. hereafter referred to as "the Act") and the Ohio Water Pollution Control Act [Ohio Revised Code ("ORC") Chapter 6111], dischargers of storm water from sites where construction activity is being conducted, as defined in Part I.B of this permit, are authorized by the Ohio Environmental Protection Agency, hereafter referred to as "Ohio EPA," to discharge from the outfalls at the sites and to the receiving surface waters of the state identified in their Notice of Intent ("NOI") application form on file with Ohio EPA in accordance with the conditions specified in Parts I through VII of this permit.

This permit is conditioned upon payment of applicable fees, submittal of a complete NOI application form and written approval of coverage from the director of Ohio EPA in accordance with Ohio Administrative Code ("OAC") Rule 3745-38-06.



Christopher Jones
Director



Dry Extended Detention Pond

Post-Construction Runoff Control



Construction Site & Post-Construction Runoff Control

- **Construction Performance Standard:**
 - Pre-construction SWP3 review of all applicable projects
 - Applicable sites shall be inspected initially then on at least a monthly basis
- **Post-Construction Performance Standard:**
 - Pre-construction SWP3 review of all applicable projects
 - Applicable sites shall be inspected to ensure that controls are installed per requirements
 - Ensure that long-term O&M plans are developed and agreements in place

Pollution Prevention/Good Housekeeping for Municipal Operations



Pollution Prevention/Good Housekeeping for Municipal Operations

- **Performance Standard:**
 - Include an annual employee training program
 - Your maintenance program shall include appropriate documented procedures, controls, maintenance schedules and recordkeeping

For additional information

- **Storm Water Program Web Page:**
<http://epa.ohio.gov/dsw/storm/index.aspx>
- **Storm Water Program Archived Webinars and Resources:**
<http://epa.ohio.gov/dsw/storm/index.aspx#108452497-outreach>
- **Ohio EPA eBusiness Center:**
<https://ebiz.epa.ohio.gov/login.html>
- **STREAMS Guidance Documents:**
<http://epa.ohio.gov/dsw/ebs.aspx#170645014-guidance>

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