Chapter Overview
Summarizes stormwater runoff and nonpoint source pollution issues in 1) developed/developing and 2) rural/agricultural areas (see map). Presents a series of regional recommendations/best management practices (BMPs), agency recommendations and NOACA policies to address such issues.

Developed & Developing Communities
Defined as “Urbanized Areas” by the United States Census Bureau and regulated by USEPA’s Phase II Municipal Separate Storm Sewer Systems (MS4) National Pollutant Discharge Elimination System (NPDES) permits (see map).

Impervious Surfaces
Common impervious surfaces include:
- Roads
- Parking lots
- Rooftops
- Driveways and sidewalks
- Compacted soils

Stormwater Runoff
Generated from rain and snowmelt events that flow over land or impervious surfaces, such as paved streets, parking lots, and building rooftops, and does not soak into the ground. The runoff picks up pollutants (nonpoint source pollution) like trash, chemicals, oils, and dirt/sediment that can harm our rivers, streams, lakes, and coastal waters.

Ohio’s Five Most Common Causes of Nonpoint Source Pollution

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<td><strong>1.</strong></td>
<td><strong>Hydromodification</strong></td>
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<td><strong>5.</strong></td>
<td><strong>Pathogens</strong></td>
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Regional Strategies
- Intercommunity stormwater planning.
- Stormwater utilities, MS4 co-permits, resources sharing resources, contracting for inspection services, and Memorandums of Understanding (MOUs).
- Support & participate in the Northeast Ohio Regional Storm Water Public Involvement and Public Education (NEOPIPE) collaboration.
- Utilize the Northeast Ohio Stormwater Training Council's (NEOSWTC) MS4 guidance to update local Storm Water Management Programs (SWMPs).
- Incorporate NEOSWTC BMPs into SWMPs.

Regional Land Use Planning BMPs
- Maintain/update regional model codes to address stormwater runoff (e.g. riparian setbacks, sediment erosion control, etc.).
- Require Nonstructural BMPs (e.g. riparian and wetland setbacks, etc.) into planning and building codes.
- Require Low Impact Development (LID) systems and practices to preserve, restore and create green spaces.
- Require/incentivize green infrastructure (GI) infill redevelopment and development.
- Require/incentives the replacement of impervious surfaces with onsite stormwater management practices (e.g. permeable pavers, rain gardens, etc.)
- Require no net increase in stormwater runoff for new development.

NOACA Ongoing Planning Policies
- Support local communities and NEOSWTC efforts to address stormwater runoff and nonpoint source pollution.
- Support and collaborate with the NEOPIPE Group to advance regional educational themes and implementation strategies.
- Support the “Lake Erie Starts Here” message.
- Support work to advance regional MS4 community guidance and training opportunities.
- Provide assistance to local communities to plan/budget for MS4 programs.
- Provide assistance to MS4 communities to address illicit discharges.
- Provide planning and technical support to communities to address SWMP deficiencies.
- Provide regional mapping standards coordination for MS4 programs.
- Provide support to MS4 communities to map illicit discharges.
- Work with MS4 communities to address illicit discharges by identifying areas “to be sewered” within five years.
- Ensure complete streets include a focus on “greening” streets.

Have Comments, Suggestions or Questions?
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