

# Stormwater and Drainage

## McHenry County Stormwater Management Regulations

Joanna Colletti, Chief Stormwater Engineer



# McHenry County Stormwater Regulation History



# Stormwater Management Ordinance

- Background
  - Manage and Mitigate Urban Impacts (55 ILCS 5/5-1062)
    - Consolidate Regulations
    - Minimum Standards for Floodplain & Stormwater Management
    - Countywide Plan



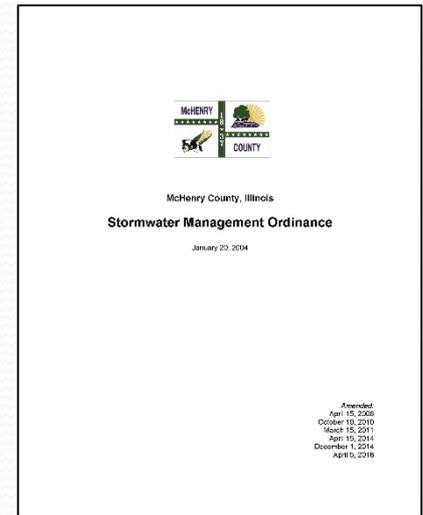
# Stormwater Management Ordinance

- Background
  - Stormwater Committee
  - Stormwater Management Plan
  - Stormwater Management Ordinance



# Stormwater Management Ordinance

- Initially adopted January 20, 2004
- Comprehensive re-write December 1, 2014
- Current version April 5, 2016
- Includes requirements for:
  - Water quality
  - Soil erosion and sediment control
  - Stormwater management (detention/overflow routes)
  - Floodplain management
  - Wetlands
- Applies Countywide!



# Stormwater Commission

- Comprised of:
  - 6 County Board Members
  - 6 Local Officials
- Helps direct stormwater goals & regulation changes

# Technical Advisory Committee

- Comprised of:
  - 15 appointed members & 2 ex-officio members
  - Diverse background
- Provides technical expertise and recommendations to Stormwater Commission



# The Primary Purposes of the Stormwater Management Ordinance



# Stormwater Management Ordinance

- Establish reasonable rules and regulations for floodplain & stormwater management
  - Protect and preserve quality & environmental values of land and water resources
  - Encourage development while minimizing impacts
  - Minimize flood damages, loss of life and property & disruptions of service and economy
  - Facilitate/require maintenance of stormwater management systems
  - Meet state/federal guidelines & minimum standards
  - Protect quantity & quality of groundwater



# Stormwater Management Ordinance

- Protect, preserve, and maintain water quality



# Stormwater Management Ordinance

- Protect, preserve, and maintain wetlands



# Stormwater Management Ordinance

- Protect, preserve, and maintain runoff direction



# Stormwater Management Ordinance

- Protect from flooding



# Stormwater Management Ordinance

- Minimize soil erosion & control sedimentation



# Stormwater Management Ordinance

- Maintain drain tile through development



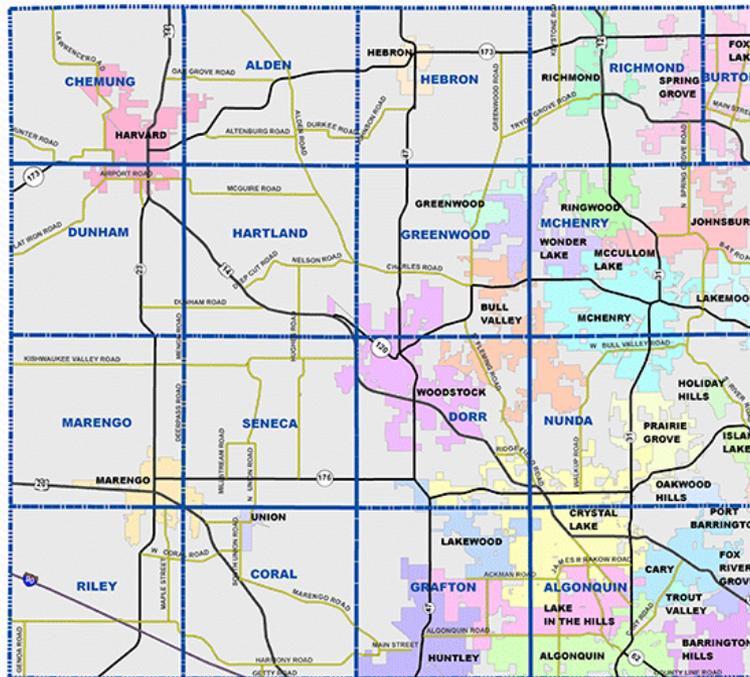
# Stormwater Management Ordinance

- Long-term maintenance of stormwater management features, compensatory storage, buffers, wetlands



# Who Enforces the Stormwater Management Ordinance

- McHenry County Department of Planning & Development in Non-certified municipalities and unincorporated areas
- Certified Communities



# What Does the SMO Regulate?

## Top Misconceptions.....

- Not to anything related to agricultural
- A failing drain tile
- Everything that ever happened in the County
- Anything that my neighbor does
- Not my property
- Illinois Drainage Law



# What Does the SMO Actually Regulate?

## Regulated Development

- Development within a floodway, floodplain or flood prone area
- Development within a wetland or water
- Hydrologic disturbance of 5,000 square feet or more
- Hydrologic disturbance of 50% or more of a parcel
- Any development that results in an additional 20,000 square feet of impervious area since January 20, 2004
- Any development on a parcel platted after 12/1/14 that results in impervious area exceeding the design parameters of an existing stormwater management facility
- Any development that is part of a larger development that would constitute regulated development



# What Are Examples of Exempted Development?

- Maintenance of existing buildings
- Maintenance of existing roads and trails
- Minor maintenance of existing facilities (including parking lots, driveways, utilities, culverts, sewers, drain tiles, ditches, dredging, stormwater management facilities)
- Gardening & landscaping that does not involve filling, grading or the construction of berms
- Tillage or similar agricultural practices that do not involve filling, grading or the construction of levees
- NRCS-approved conservation plan work outside of floodplain or wetland
- Installation, repair or replacement of an onsite waste disposal system, well, sewer or water service line or other utility service line to one existing building
- Demolition



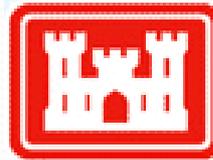
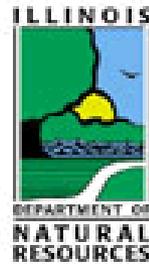
# What Are the Development Classifications?

- General Permit #1
- General Permit #2 (SFR)
- Minor
- Intermediate
- Major
- Public Road
- Mining
  
- Why does it matter???
  - Application requirements
  - Permit fees



# Stormwater Management Ordinance

Keep in mind - Other Local, State, or Federal Permits



FEMA



# Stormwater Management Ordinance Enforcement for Violations



# Stormwater-Other Activities

- Site inspections/enforcement
- Community Rating System (activities that save our residents over \$100,000/year in flood insurance premiums)
- Hazard Mitigation Grants
- Demonstration Projects (rain garden & xeriscape)
- Groundwater/surface water well monitoring/reporting
- NPDES Permit Application
- Floodplain inquiries
- Education/outreach

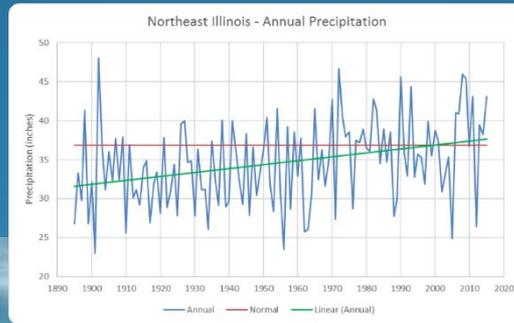




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## What Does the Future Hold?



# Questions

Joanna Colletti, P.E., CFM – Chief Stormwater Engineer

McHenry County Department of Planning and Development

2200 North Seminary Avenue, Suite 208

Woodstock, Illinois 60098

Phone: 815.334.4560

[jscolletti@mchenrycountyil.gov](mailto:jscolletti@mchenrycountyil.gov)

