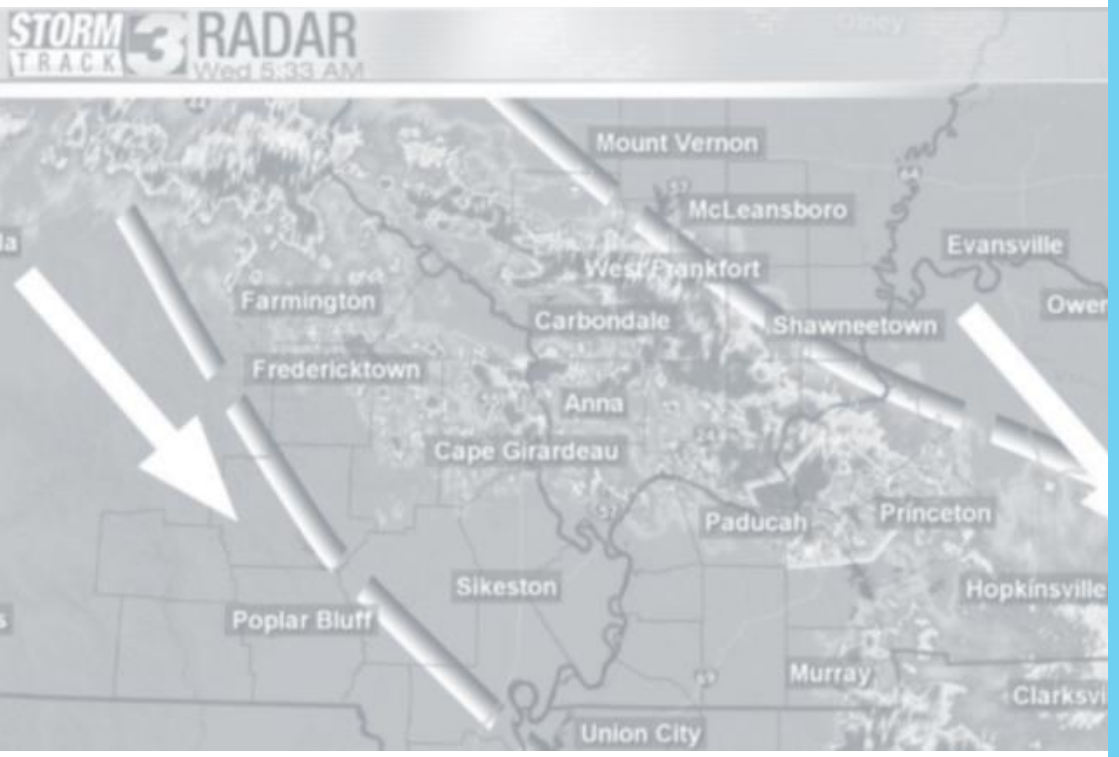


CITY OF CARBONDALE

STORMWATER MANAGEMENT PLAN

JANUARY 11, 2024

CITY OF CARBONDALE

GREATER EGYPT REGIONAL PLANNING AND DEVELOPMENT COMMISSION

REVISION: 1/10/24

Agenda

I. Welcome and Introductions
II. Greater Egypt RPDC & Grant Funding
III. Stormwater Planning Process
IV. MS4 & Other Regulations
V. Future Planning & Timeline
VI. Adjourn

Greater Egypt Overview

Five-County Planning Region

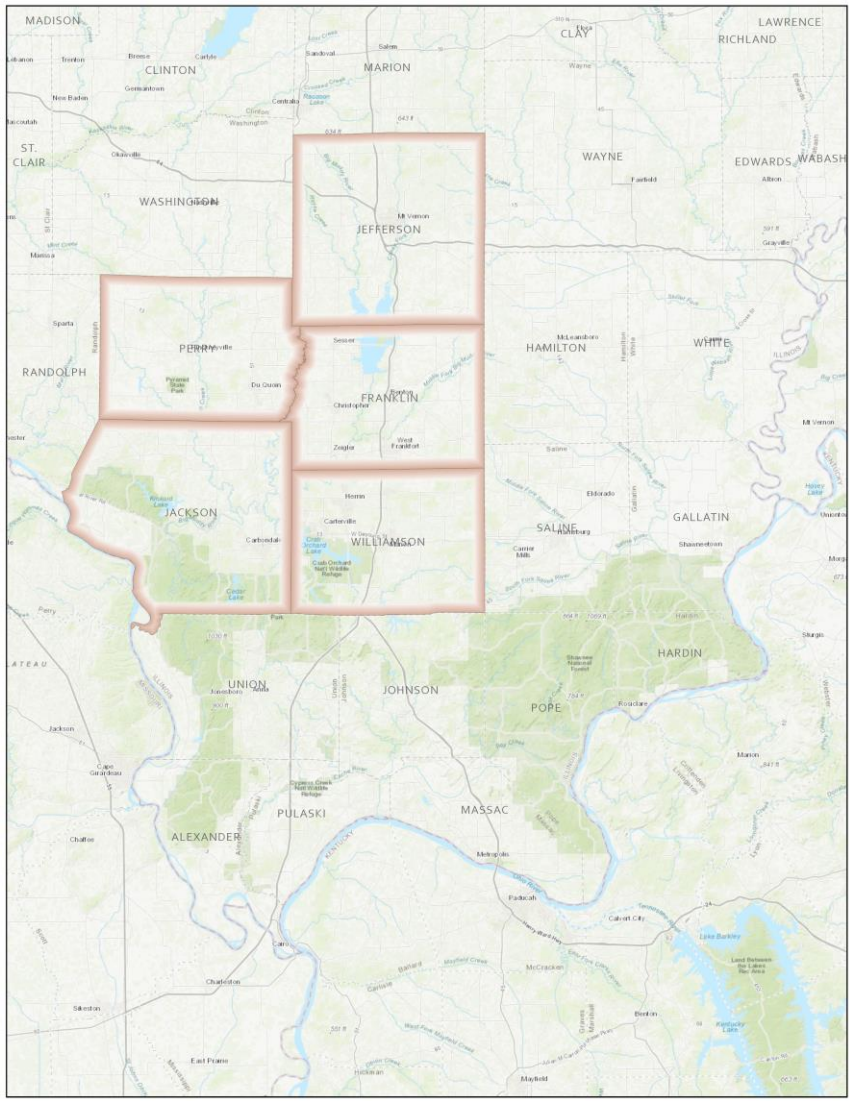
- Franklin, Jackson, Jefferson, Perry, Williamson

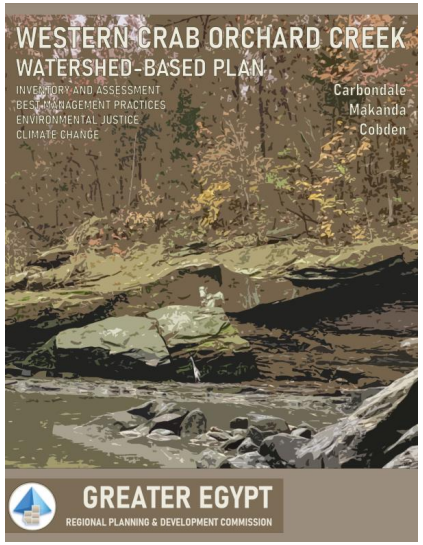
Ten County Areawide Water Quality Planning Region

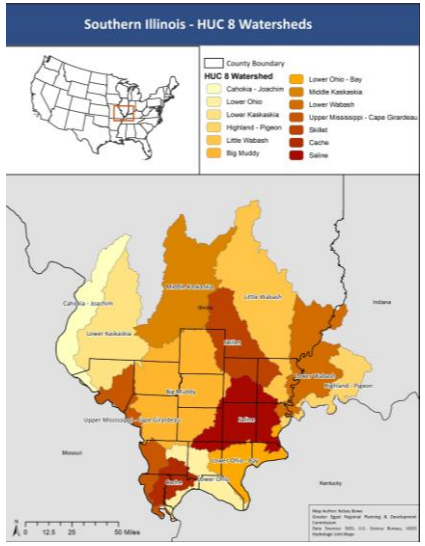
- Above counties plus Gallatin, Hamilton, Hardin, Pope, Saline

Services offered:

- Economic Development
- Transportation Planning
- Grant writing and technical services
- Environmental Planning







Environmental Planning Department

Planning services

Watersheds & Nutrient Reduction

Hazard Mitigation

Solid Waste

Community Wildfire Protection Plans

Urban Stormwater

GIS and UAS (drone) Services

Maps and web applications

Aerial photography

Education/Outreach Programming

Field trips

School visits

Handout materials

Hands-on workshops

Grant Funding

- Delta Regional Authority (DRA)
- Strategic Planning Grant
- $150,000 (max)

Stormwater Planning Process

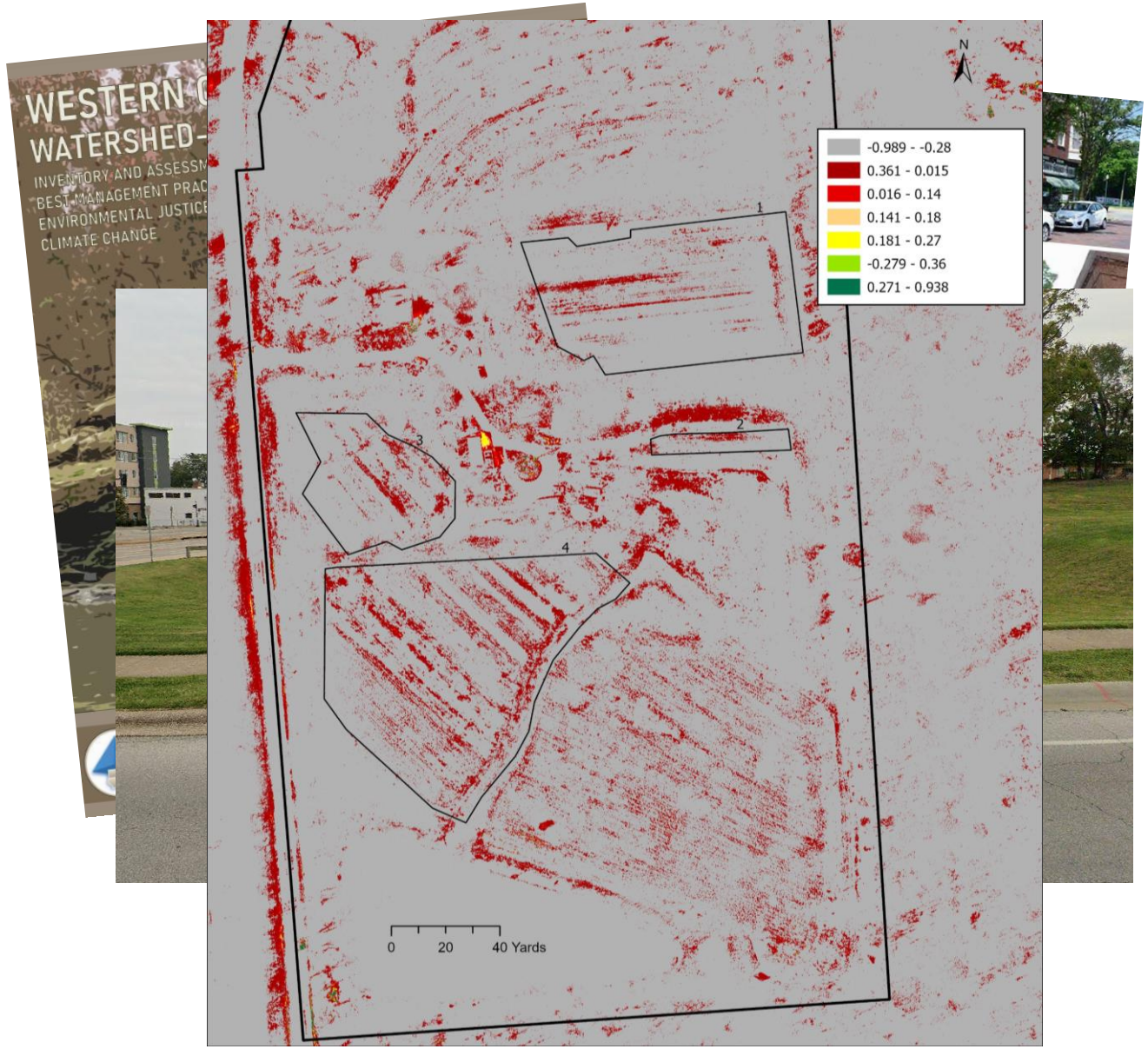
I. Form Advisory Committee
II. Organize Resources
III. Assessment of Current Conditions
IV. Water Quality/ Hydrologic Modeling
V. Meetings
VI. Review/Finalize Plan
VII. Implementation

Advisory Committee

- City Departments
- Businesses
- Organizations

Questions

- Will this group have authority?
- Meeting schedule



Organize Resources

- Prior Plans
- Implementation
- Outreach
- Water Quality Data
- GIS datasets

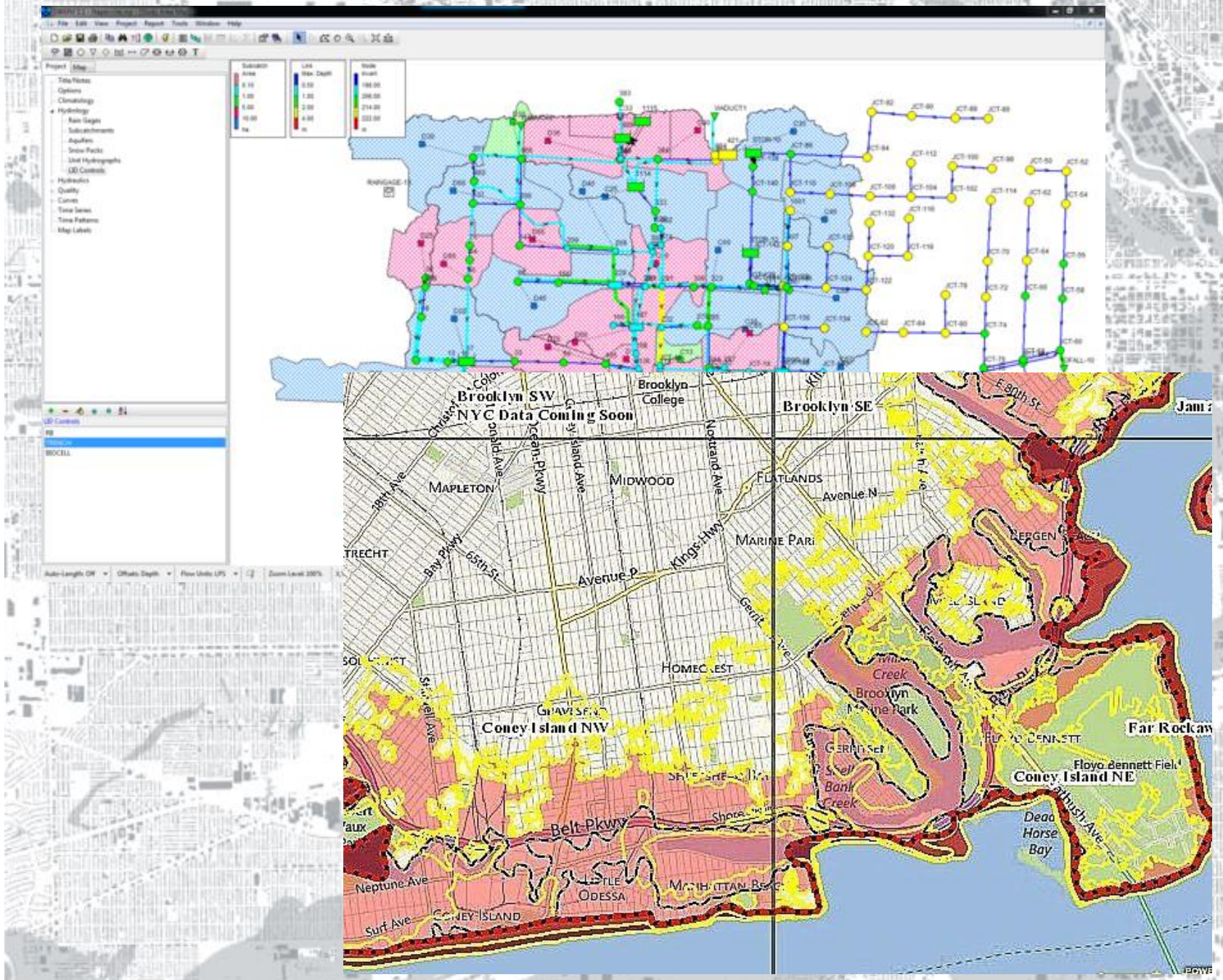
Assessment

- Inventory of current conditions of main infrastructure affected by urban stormwater
- Impervious surfaces
- Management measures
- Existing codes and ordinances

Water Quality/ Hydrologic Models

- STEPL
- SWMM

- Flood Vulnerability Index
- Suitability Score



	Planning Phase in Months																	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Form Advisory Committee																		
Organize Resources																		
Assessment of Current Conditions																		
Water Quality/ Hyrdrologic Modeling																		
Plan Development (Narrative)																		
Meetings - Public Involvement																		
Meetings - Advisory Committee																		
Review Plan																		
Finalize Plan																		
Implement Plan																		

Meetings

Advisory Committee

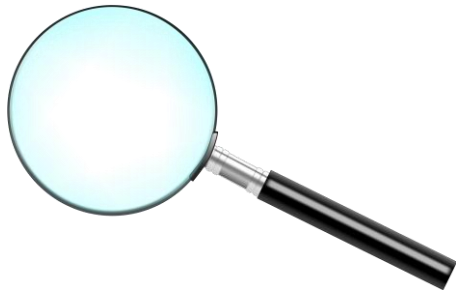
- Meeting schedule
- Progress plan development
- Recommend management measures

Public Involvement

- Informal meetings
- Local input/ knowledge of stormwater
- Management measures
- Notifications

Review

- Advisory Committee
- Public
- State/Federal Agencies



Finalize

- Incorporate final changes
- Address public comments
- Forward to State/Federal Agencies

Implement

- Apply for grants
- Assist businesses with hazard mitigation

MS4 & Other Regulations

Quick Facts

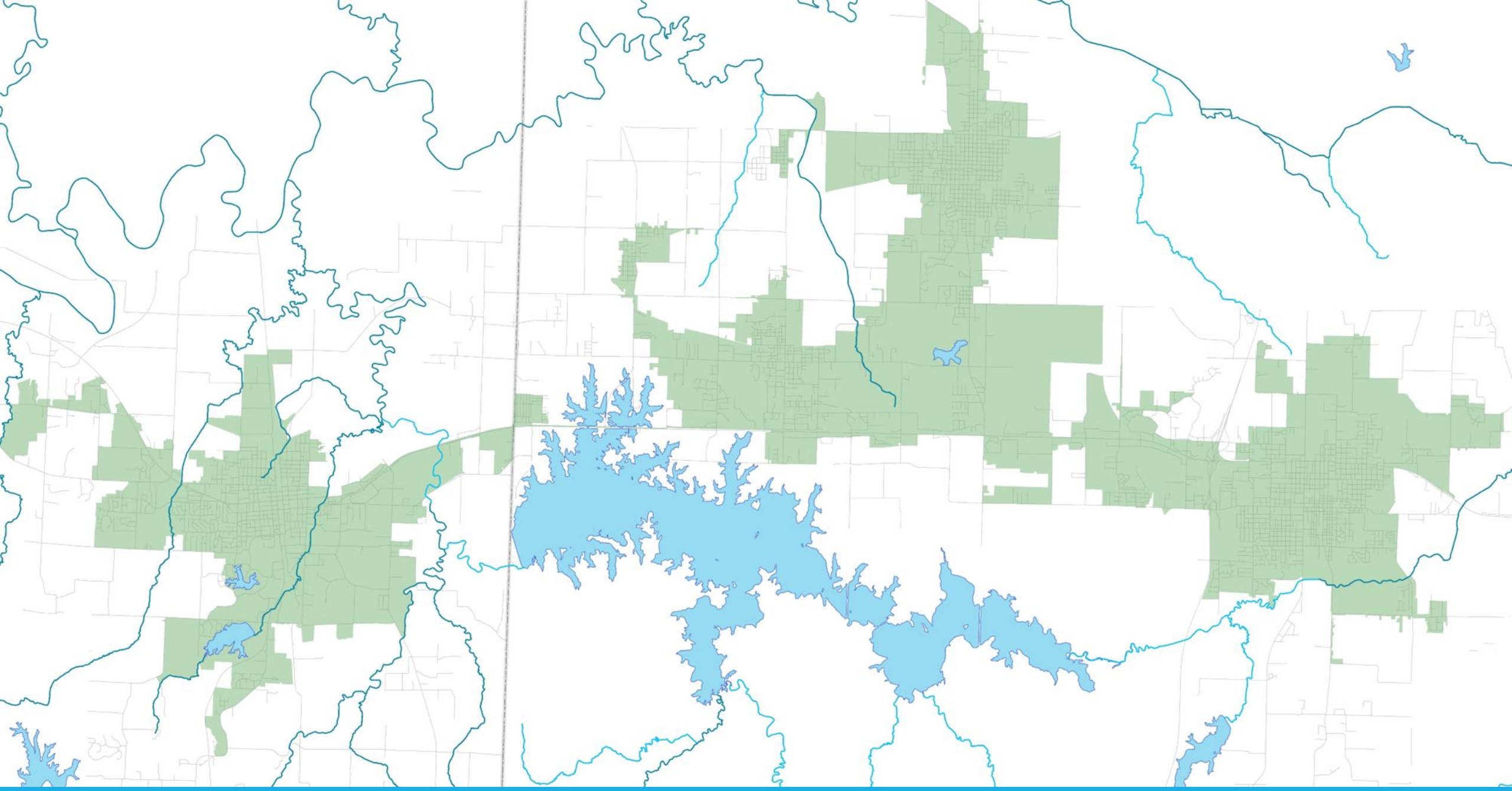
- Municipal Separate Storm Sewer Systems (MS4)
- Carbondale Urbanized Area
  - Phase II Program
- Require an NPDES General MS4 Permit

Program Requirements

- Reduce the discharge of pollutants
- Protect water quality
- Meet requirements under the Clean Water Act

MS4 Minimum Control Measures

1. Public Education and Outreach
2. Public Participation
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post-Construction Runoff Control
6. Pollution Prevention

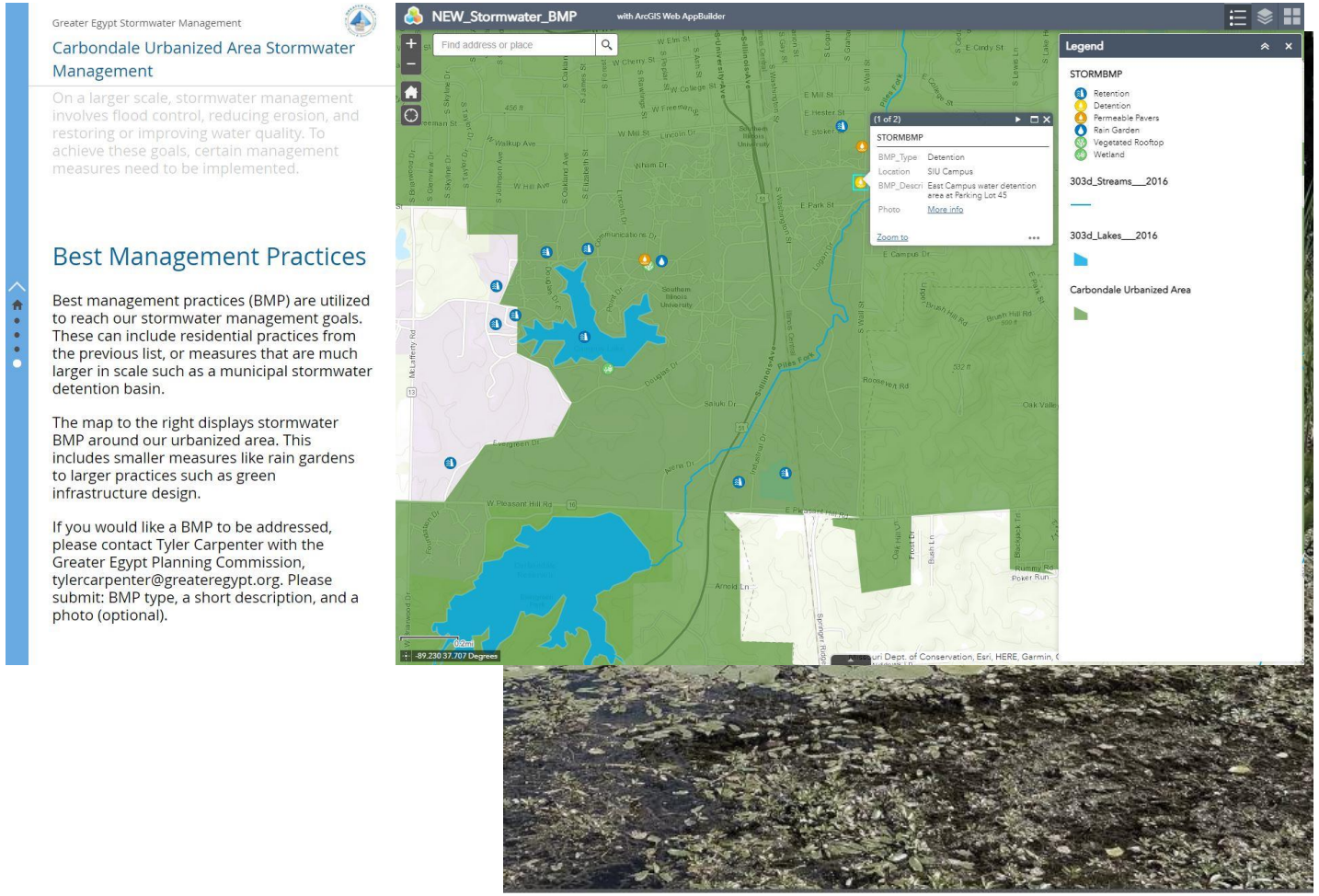


Public Education and Outreach

- Distribute educational materials
- Perform outreach
- Information about the impacts of polluted stormwater runoff and affects of water quality

Public Participation/ Involvement

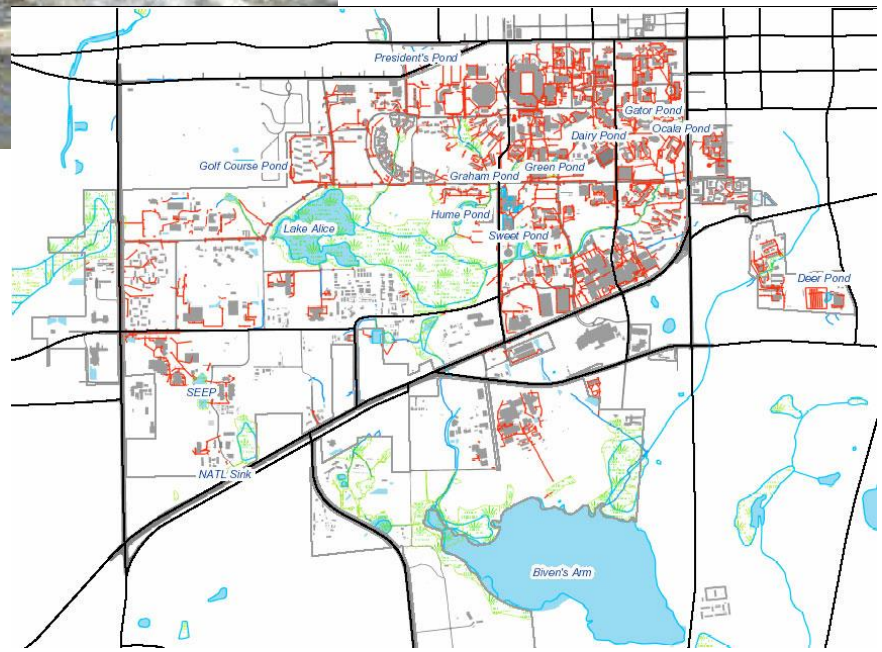
- Public participation in program development and implementation
- Publicize public hearings
- Encourage citizen representatives on a stormwater panel or forum



Illinois Environmental Protection Agency

Illicit Discharge Detection and Elimination

- Develop and implement a plan to detect and eliminate illicit discharges to storm sewer systems
- Develop a system map and inform communities about hazards associated with illegal discharges and improper disposal of waste



Construction Site Runoff Control

- Develop erosion and sediment control program for construction activities that disturb one or more acres of land
  - Implementation
  - Enforcement
- Controls could include silt fences and temporary stormwater detention ponds

Post-Construction Runoff Control

- Develop program to address discharges of post-construction stormwater runoff from new development and redevelopment areas
  - Implementation
  - Enforcement
- Controls could include preventative actions
  - Protecting sensitive areas (e.g. wetlands)
  - Structural BMPs
    - Grassed Swales
    - Permeable pavement

Pollution Prevention/ Good Housekeeping

- Develop and implement a program with the goal of preventing or reducing pollutant runoff from municipal operations
- Must include municipal staff training on pollution prevention measures and techniques
  - Street sweeping
  - Reductions of pesticide use or street salt
  - Frequent catch-basin cleaning

Future Planning

- Advisory Committee
- Gather data and information
- Meetings
- Reporting

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Review Plan																■	■	
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Implement Plan																		■

Discussion