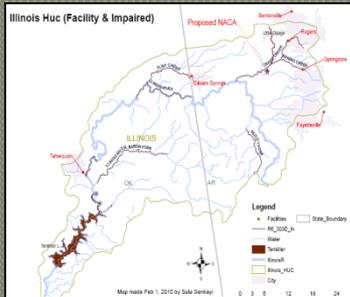


Illinois River Watershed Projects



Tahlequah, Oklahoma
January 6, 2011

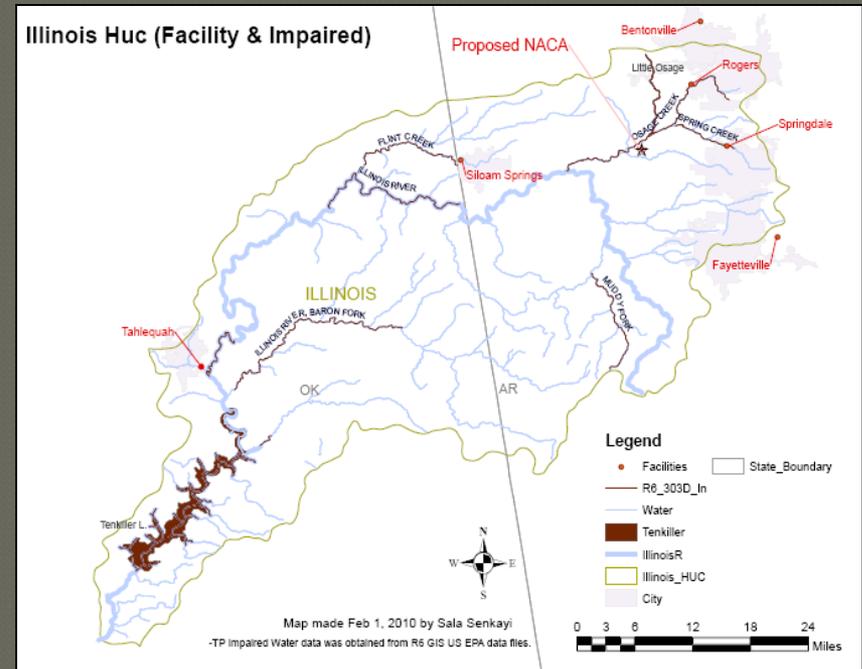
Illinois River Watershed: Phosphorus Impaired Waters

Oklahoma

- Impaired Waters
 - Illinois River
 - Illinois River, Baron Fork
 - Flint Creek
 - Lake Tenkiller

Arkansas

- Impaired Waters
 - Osage Creek
 - Spring Creek
 - Muddy Fork



Actions to Restore and Protect IRW



- **Ongoing Model and TMDL Development – EPA Region 6**
- **Ongoing Upper IRW Management Plan Development – ANRC and IRWP**
- **Ongoing Lower IRW Management Plan Development – OCC**



Illinois River Watershed Management Plans



Arkansas & Oklahoma have developed two separate watershed plans with common goals and objectives.

- **Goal:**

- Plan to restore water quality to the [upper and lower] Illinois River Watershed – Non Point Sources

- **Objectives:**

- Conduct scientifically based evaluation of conditions
 - Strategies for a healthy, productive watershed with specific implementation actions & BMPs
 - Utilize adaptive management approach
 - Promote stewardship by developing educational and implementation tools, and incentives

Illinois River Watershed Management Plans



- **Timeframe 2008 – 2010**
- **Partially funded by EPA through CWA Nonpoint Source Control grants to the Arkansas Natural Resources Conservation Commission (ANRC) and Oklahoma Conservation Commission (OCC)**
 - Sub-award from ANRC to Illinois River Watershed Partnership (IRWP)



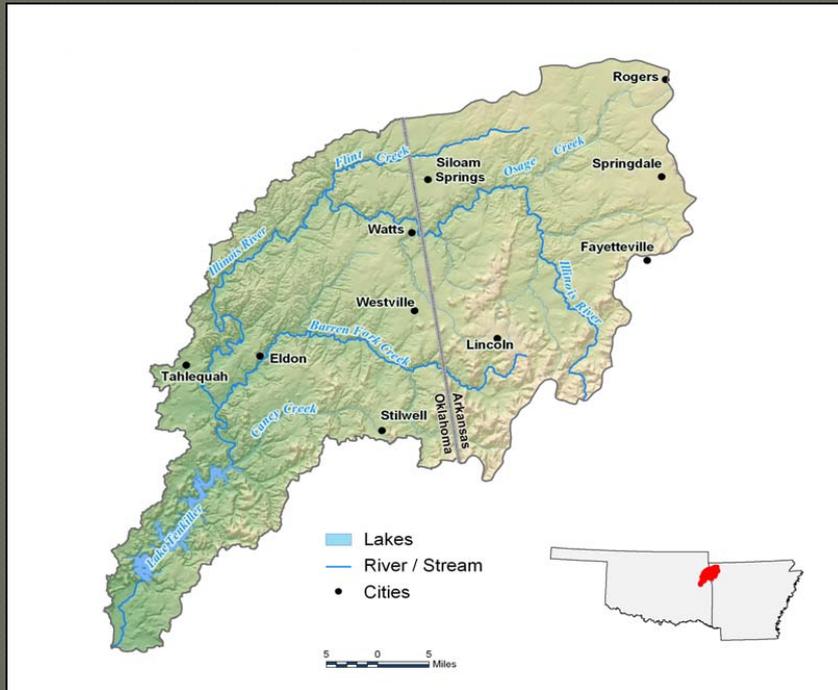
Illinois River Watershed Management Plans



- **Next Steps**

- Watershed planning, a dynamic/cooperative process
- EPA is recommending implementation activities at 12-digit subwatersheds
- EPA is finalizing review of Oklahoma's IRWBP
- TMDL may result in recommended revisions to the watershed plans
- Consistency

Model and TMDL Development



- Watershed Model Covering Both States
- May lead to one or more TMDLs in the watershed



Modeling Goals



- Identify sources of nutrients in watershed
- Quantify reductions needed to meet water quality goals
- Tool to guide non-point source and point source implementation



Working with Our Partners

- Partners in Project
 - OK, AR, Tribal Agencies and other Federal Agencies





Stakeholder Involvement

- Jan. 2010 EPA published a request for data in the Federal Register, Tulsa World, and Arkansas Democrat Gazette
- Informational public meetings to provide project updates
 - February 4, 2010
 - September 14, 2010
 - January 6, 2011
 - Others TBD
- Input on project deliverables through state agencies.
- Project website:
<http://www.epa.gov/region6/water/npdes/illinoisriverwatershed/index.htm>



Modeling Project Team

Project Lead: EPA Region 6 Permits & TMDL Branch,
Water Quality Protection Division

- AQUA TERRA Consultants (Prime Contractor)
- Sub-Contractors:
 - Eco Modeling – AQUATOX Developer
 - R. Srinivasan, TAMU – SWAT Developer
 - Dynamic Solutions LLC
 - Tetra Tech – EFDC Developer



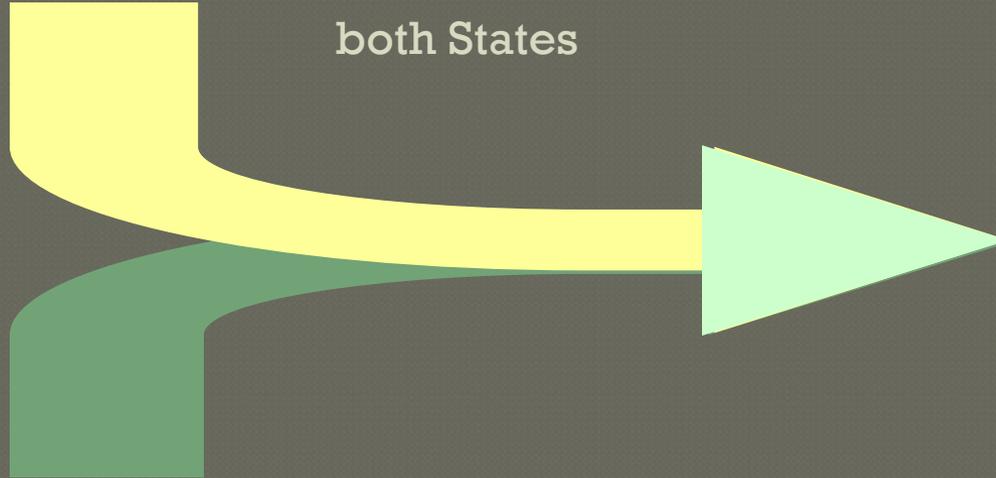
TETRA TECH, INC.



How Do We Create Success in the Illinois River Watershed

TMDLS

Provides a basin wide characterization and budget to address nutrients between both States

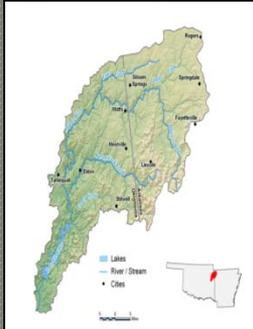


Comprehensive Plan for the Illinois River Watershed

Watershed Based Plans

Provide road map to on-the-ground implementation activities in Arkansas and Oklahoma

Questions



For Further Information

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