GREEN INFRASTRUCTURE IMPLEMENTATION IN NORTH TEXAS

Mikel Wilkins, PE, ENV SP
PUBLIC WORKS ROUNDUP

History

• 1996 – Upper Trinity and Lower West Fork 303d Listed

• 2006 – Cottonwood Branch and Grapevine Creek 303d Listed

• 2011 - TMDL for Upper Trinity Approved

• 2012 - TMDL for Cottonwood Branch and Grapevine Creek Approved

• 2013 – TMDL for Lower West Fork Approved
The 303d List

Too Many To List
(22 in North Texas)
Concerns for Use Attainment

Way
Too
Many
To
List
(43 in North Texas)
TRINITY RIVER, DALLAS
Investment in Green Infrastructure Creates Economic Benefits

Revenue
Neighborhood Development
Quality of Life
Fiscal Benefits

Cost Savings
Real Estate Premiums
Job Creation
Economic Competitiveness

Property / Site Neighborhood City/Regional
Evaluation and Benchmarking Assessment
of the Dallas Park System

Value of Dallas Parks
• Investment in GI yields positive return on investment across all typologies

• Enhancing existing natural systems increase quality and value of ecosystem services provided.

• Parks and open spaces with lower density programming benefit from broader array of lower cost and intensity GI solutions
PUBLIC WORKS ROUNDPUP

Rockwall County Open Space
PUBLIC WORKS ROUNDUP

Park/Open Space Retrofit
Focus Areas for Advancement

- Balancing economic development and environment
- Prioritization of regional scale green infrastructure implementation
- Balance maintenance program needs with financial benefits associated with broader implementation
- Metrics to account for regional growth and added costs for water treatment associated with stormwater pollution
- Advanced/Creative BMP’s beyond those developed in the early 90’s