

EPA Water Initiatives & Issues

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- Water – A Valuable Resource
 - Energy / Climate / Water
 - Stimulus Package
 - Infrastructure
 - Evolving Issues



The Cost of What We Drink (2006)

Product	Cost per 1000 Gallons
Potable (Tap) Water	\$3.61
Bottled Water	\$1260.00
Pop or Soda	\$1900.00
Milk	\$2990.00
Beer	\$9600.00

Typical Potable Water Treatment Costs

- Costs of providing potable water have typically increased 5% per year
- Cost increases typically occurred in support services (8%), treatment (3%), power (4%), and distribution
- Typically, support services, treatment, power and distribution each comprise about 25% of total production costs



Energy / Climate / Water

- OW Climate Change Policy
- Impact on Water Quantity
- Impact on Water Infrastructure Design
- Utility Energy Cost



Stimulus Package

Water Infrastructure Needs

- * National Gap
- * Region 7 Needs
- * Competition with Highways
- KC Region Has Needs
 - * KCMO
 - * UG
 - * JoCo
 - * Independence
 - * LBY / Little Blue Valley
 - * Olathe
- Regional Approach



Infrastructure

- 4 Pillars of Sustainable Infrastructure
 - * Better Management
 - * Watershed Approach
 - * Water Efficiency
 - * Full Cost Pricing
- Satellite Environmental Finance Center
- CSO / SSO
 - * 22 Communities in Region 7
 - * KCMO LTCP
 - Green vs Grey Solutions
 - Rate Impacts



Infrastructure Continued

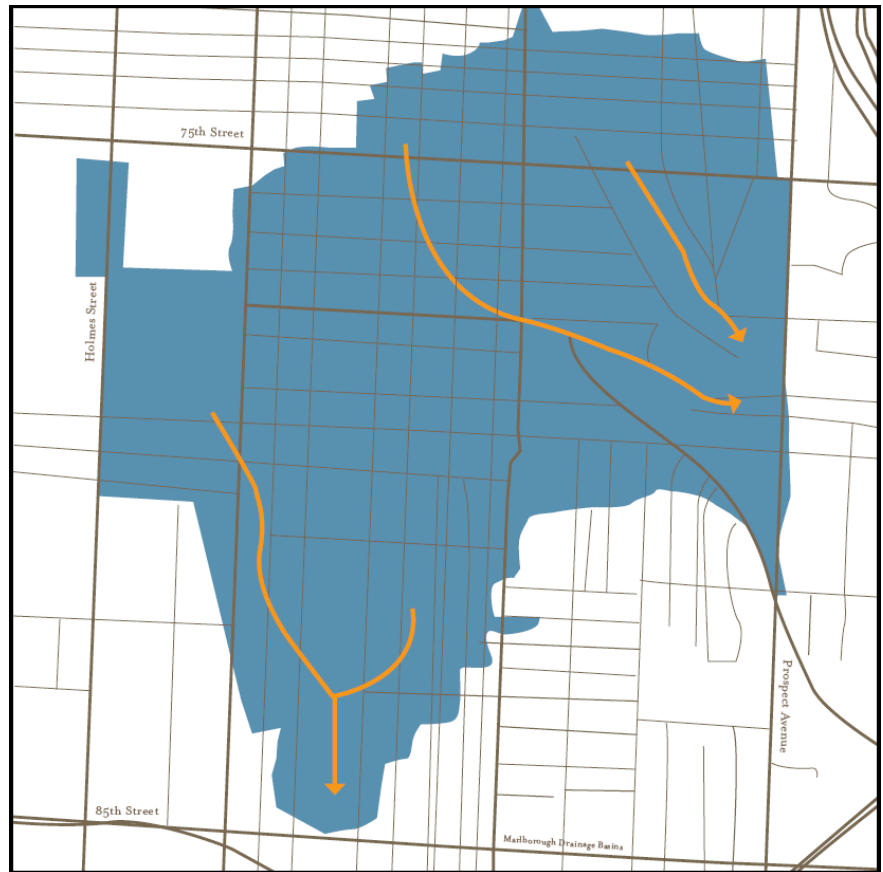
○ Middle Blue River Basin

Marlborough Green Infrastructure Project Area:

744 Acres in Total
100 Acre Pilot Project

Could include:

330 Curb Inlet Modifications, and 25 Acres of Rain Gardens, Bioswales, Permeable Pavement, and Green Roofs



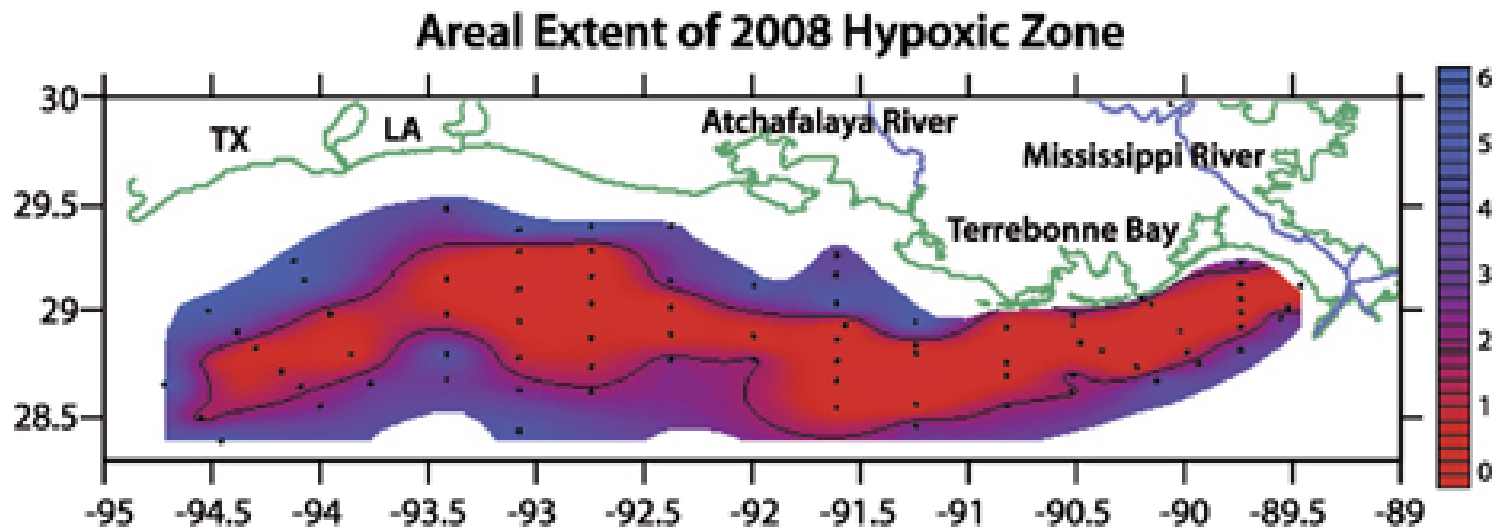
Evolving Issues

- State and Community Budget Issues
- Water Quality Standards
- Nutrients



Evolving Issues Continued

○ Hypoxia



Map of bottom water oxygen levels in mg/L (or ppm)

Data courtesy of N. Rabalais and B. Babin

Mississippi/Atchafalaya River Basin



Evolving Issues Continued

- Ammonia
- Bacteria
- CAFO Regs
 - * NMP Due February 2009
- Lagoons



Questions?

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