Lower Meramec Watershed Plan

Water Resources Committee meeting

December 7, 2017

East-West Gateway Council of Governments
Core partners

9 Element plan to voluntarily improve water quality in impaired streams from non-point sources of pollution
Impaired Streams
9 Elements

A – ID causes and sources of pollution
B – Estimate load reductions expected from management actions
C – Description of actions needed to achieve load reduction and description of critical areas
D – Estimate of costs
E – Information and education
F – Schedule of implementation
G – Interim measurable milestones
H – Criteria to determine if load reductions being achieved
I – Monitoring/evaluation process
Map 13
Kiefer Creek Watershed Critical Areas
St. Louis County, Missouri
September 2017

LEGEND
- Kiefer Creek Watershed Boundary
- Critical Area
- Park or Recreational Boundary
- Municipal Boundary
- Road
- River or Stream

A - Severe sedimentation/Impaired Section of Stream in Castlewood State Park
B - Nonpoint Source Runoff in Castlewood State Park
C - Nonpoint Source Runoff in Residential Area
D - Properties with Potentially Failing On-site Wastewater Treatment Systems within 1.25 miles of Kiefer Creek
E - Properties with 10 or more horses within 400 feet of Sontag Spring Branch

Sources: United States Geological Survey, National Hydrography Dataset (NHD); St Louis County GIS; East-West Gateway Council of Governments
Reduce bacteria loading in Kiefer Creek by 38.8 % by 2038

- Streambank stabilization
- Septic system cost-share program
- Rainscaping demonstrations and cost-share program
- Horse farm manure management
- Interviews and education
- Clear Choices Clean Water pilot project
- Stream-clean ups and riparian restoration
- Long-term water quality monitoring
Reduce bacteria loading in Mattese Creek by 28% by 2038

- Geomorhpic feasibility study and implementation
- Common ground rainscaping
- Septic system cost-share program
- Residential rainscaping cost-share program
- Stream clean-ups and riparian restoration
- Water quality monitoring
Reduce bacteria loading in **Fishpot Creek** by 39% by 2038

- Valley Park streambank stabilization feasibility study and implementation
- Stream clean ups and riparian restoration
- Eliminate constructed SSOs
Demonstrate the effectiveness and feasibility of re-establishing a healthy riparian corridor and implementing stormwater BMPs to reduce bacteria loading in the lower Meramec River.

- Public land riparian restoration activities
- Public land BMP demonstrations
- Operation Clean Stream
Plan Implementation

- Core partners continue to meet to coordinate project implementation via WRC and MRRA
Contact information

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http://www.ewgateway.org/community-planning/environmental/water-resources/lower-meramec-watershed-plan/