TMDL Alternatives

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303(d) Vision

Plans:
- TMDL
- Watershed Based Plans
- Both
- Other
Watershed Action Planning

Process

• Initiative of water quality programs in the state (SWQM, WQS, CRP, TMDL, NPS, TSSWCB)
• Coordinate and track program’s activities in addressing water quality issues
• Review of water quality issues
• Determination of appropriate strategy for impaired waterbodies (monitoring, evaluation, WQ standards review, TMDL/I–Plan, WPP, other)
Education & Outreach

- Stakeholder meetings

- Programs:
  - Lone Star Healthy Streams
  - Texas Watershed Steward
  - Riparian and Stream Ecosystem Workshop
  - Feral Hog Management Workshop
  - OSSF Operation and Maintenance Workshop
  - Texas Well Owner Network
What Is a Watershed-Based Plan??

- Action plan designed to protect priority waters or restore waters already impaired by pollutants.
- Required by the EPA to have a WBP to be eligible for a large portion of 319 Grant funds.
- Specific components (9 Elements) required in WBP’s.
Nine Key Elements

- Pollutant Load & Sources
- Load Reductions
- Best Management Practices
- Resources Needed
- Engagement & Education
- Schedule For Action
- Measureable Milestones
- Criteria for Success
- Monitoring Progress
Schedule for Implementation

- Basic timeline
- Responsible party
- Take into account when $ will be available
Monitor Progress

- Routine and targeted monitoring
- Document accomplishments
- Education/outreach
- Interim milestones (short, mid and long term)
Adaptive Management

- Sustainable group to implement plan
- Reconvene stakeholders; check progress
- Apply for funding
- Revise WBP strategies, modify plan
Arroyo Colorado WPP

- Started as a TMDL study to address DO
- Arroyo Colorado Watershed Partnership formed
- Resistance from Ag community
- Stakeholders decided on a WPP
- Plan completed in 2007 but never officially accepted by EPA
- However, implementation activities ongoing
Stakeholders wanted to revise the WPP

Arroyo Colorado Watershed Partnership held 46 meetings from 2012–2016

10 year plan

Watershed Coordinator in place

Management Measures – implement conservation plans, address SSO’s, expand wastewater treatment, address OSSFs, stormwater management, habitat management, outreach and education

Monitoring by TCEQ and NRA
Lavaca River
Lavaca River

- Rural watershed
- Stakeholder meetings initiated in 2016
- Outreach and Education efforts
- Both WPP and TMDL and I–Plan
- Stakeholders included: local residents, landowners, businesses, local and county governments, regional entities (LNRA, SWCD staff), state and federal agencies
10 year Plan
Watershed Coordinator
Semi–annual meetings
Monitoring conducted by LNRA and TCEQ
Continue outreach and education
Lavaca River continued

- Management Measures:
  - Implement WQMPs or conservation plans
  - Feral Hog Control
  - Repair or replace failing OSSFs
  - Increase proper pet waste management
  - Implement and expand urban stormwater runoff management
  - Address inflow and infiltration
  - Reduce illicit dumping
Potential Funding sources:

- TGLO – Coastal Mgmt Program
- USDA
- TDA
- EPA – 319(h) Grants
- TSSWCB
- TPWD
- TWDB