TMDL and I-Plan Review and Approval Update

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TCEQ TMDL Project Manager

Navasota River Bacteria TMDLs Progress

- Initial agency review is complete
- TCEQ Management prefer that TMDLs and I-Plans move through the official review together
- TMDL is waiting for I-Plan to catch up at this point



Next Steps for TMDL and I-Plan

- I-Plan will be reviewed by multiple TCEQ programs, TCEQ regional office, and TSSWCB
- TMDL and I-Plan will go through TCEQ management review together
- Agenda date scheduled (February 2019?)

- Agenda date starts the 30-day public comment period for TMDL and I-Plan
 - Will host public comment meeting
- TCEQ will further review the documents
- Request final agenda date for adoption and approval (August 2019?)





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TMDL and I-Plan Complete; Then What?

- TCEQ coordinates annual check in meetings for the I-Plan starting in 2020 for 5 years
- If needed, adaptive management to revise the I-Plan



Navasota River Watershed Update

Lucas Gregory Texas Water Resources Institute July 11, 2018





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I-Plan Overview

- Based on Navasota River Watershed Protection Plan
- Executive Summary
 - Briefly describes I-Plan
 - Highlights management measures included
 - Denotes content provided for each management measure

- Introduction describes the TMDL, I-Plan and how they relate
- Watershed Overview
 - Defines the TMDL area and watershed as a whole
 - Land Use
 - Population distribution and projected growth





I-Plan Overview

- Source Analysis
 - Describes sources of *E. coli* in the watershed
- Regulated Sources
 - Domestic & Industrial Wastewater
 - Water Quality General Permits
 - Sanitary Sewer Overflows
 - Regulated Stormwater
 - Illicit Discharges

- Unregulated Sources
 - Grazing livestock
 - Wildlife and unmanaged animals
 - Pets
 - Onsite Sewage Facilities
- Summary of the TMDLs
 - Components of the calculations
 - Extracted from the TMDL document





I-Plan Overview

- Implementation Strategy
 - Management strategies selected based on feasibility, cost, timing and stakeholder support
- Adaptive Implementation
 - Iterative checks to see how progress is going
- Activities and Milestones

- Unregulated Sources
 - Grazing livestock
 - Wildlife and unmanaged animals
 - Pets
 - Onsite Sewage Facilities





- Management Approach
 - Address the sources that can be reasonably managed
 - Feral Hogs
 - Livestock
 - Human
 - Pets
- Feral hogs

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make every drop count

- Remove 15% of population annually
- Trap, shoot, snare, dogs
- Fence around deer feeders to limit food access
- Deliver education programs regarding trapping techniques and hog biology







- Livestock
 - Goal is to modify resource usage with voluntary practice implementation through conservation plans and water quality management plans
 - Improves forage cover and reduces runoff
 - Implement 130 plans over 10 years





Waterer between two paddocks installed on heavy use area





- Wastewater
 - OSSFs
 - Repair and replace failing systems: ~ 150 systems over 10 years
 - Education and outreach programs
 - Centralized systems
 - Address inflow and infiltration issues
 - As funding allows







- Pets & Urban Stormwater
 - Reduce dog waste not properly disposed of in the watershed
 - Information
 - Utility bill inserts
 - Signage in dog parks
 - Pet waste stations
 - Keep them stocked and maintained



IF YOU THINK PICKING UP DOG POOP IS UNPLEASANT, TRY DRINKING IT.

Pet waste washes into storm drains, polluting our rivers, lakes and drinking water sources. Get the scoop.





I-Plan Includes

- Summary Table for Each Management Measure
 - Potential load reduction
 - Technical and financial assistance needed
 - Education component
 - Schedule of implementation
 - Interim, measurable milestones
 - Indicators of progress
 - Monitoring component
 - Responsible party

- Sustainability
 - Pace of implementation
 - Practice effectiveness
 - Progress toward meeting water quality standards
- Water quality indicator
 - E. coli
- Implementation milestones





Questions About the I-Plan?





Implementation Opportunities

- Current Opportunities
 - TCEQ Clean Water Act, Nonpoint Source Pollution Grants Applications due 7/31
 - Traditionally focus on more urban non-point source issues and human associated loads
 - Cannot include items covered under MS4 permits
 - Can address failing OSSFs
 - County Designated Representatives are interested in program to repair/replace failing OSSFs
 - Can include water quality monitoring
 - TSSWCB Clean Water Act, Nonpoint Source Pollution Grants Applications due sometime early fall (late September?)
 - Traditionally focus on rural nonpoint source issues
 - Can address loadings from feral hogs, livestock and wildlife
 - Can include water quality monitoring

Project Plan #1

- OSSF Repair & Replacement Project
 - TWRI working with County DRs and AgriLife Extension
 - DRs will help ID people in need of systems
 - AgriLife Extension will inspect and design new systems
 - TWRI will request bids on system designs
 - Contractor will install systems
 - Education component regarding proper system function, maintenance, etc.

Any Other Ideas?





TEXAS A&M GRILIFE RESEARCH EXTENSION

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