



Upper Guadalupe Bacteria Reduction Plan

Water Body	Guadalupe River above Canyon Lake (Seg 1806)
Location	Kerr County
River Basin	Guadalupe River (18)
Contractor	Upper Guadalupe River Authority (UGRA)
Project Period	October 13, 2011 to August 31, 2014
Project Total	\$548,851.67 (Federal 60% and Local Match 40%)

Background

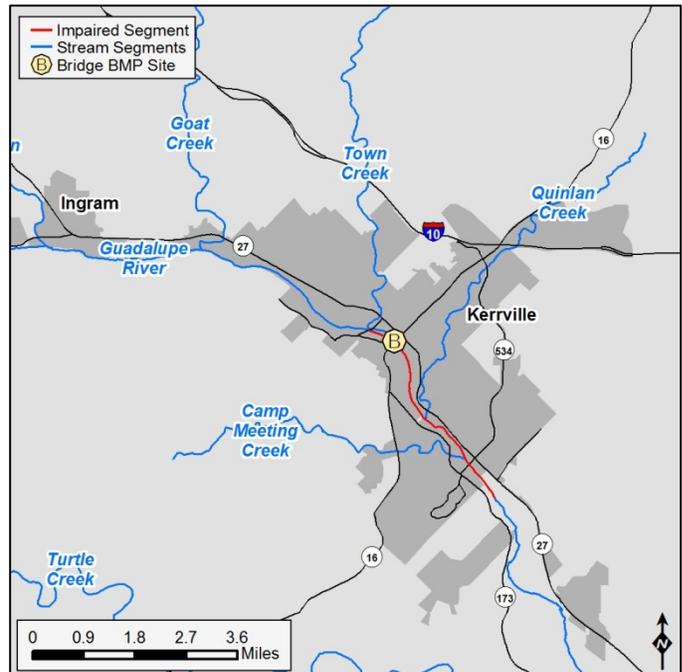
Segment 1806 is located in south-central Texas. It begins at the basin's drainage divide in western Kerr County and ends at Canyon Lake Reservoir in Comal County. However, only a small reach of Segment 1806, located within the City of Kerrville, is impaired for bacteria. The impaired reach is defined as the Guadalupe River from its confluence with Town Creek downstream to Flat Rock Lake. The Texas Commission on Environmental Quality (TCEQ) first identified the impairment to the contact recreation use in 2002.

In 2007, TCEQ approved a **Total Maximum Daily Load (TMDL)** for Segment 1806, and an Implementation Plan (I-Plan) for bacteria was subsequently approved in August 2011. The water quality goal of this project is to lower *E. coli* bacteria loading and attain the contact recreation standard in this segment.

In addition, this project outlines effective partnerships with local entities to implement best management practices (BMPs). The City of Kerrville, Kerr County, and the Texas Department of Transportation have committed to partner with UGRA to implement the BMPs.

Project Description

The bacteria reduction goal of this project will be attained through the implementation of BMPs using an adaptive management approach. BMPs include a bird deterrent structure, waterfowl management, and development of a "Homeowners Septic System Guide". A Bird deterrent BMP will be placed on the State Highway 16 bridge in the impaired reach. Routine water quality monitoring samples will be taken to assess the impact of the BMPs on *E. coli* bacteria levels. Success will also be measured by BMP implementation status, public participation, and change in attitude and behaviors, as indicated by the attendance rosters at meetings and public awareness surveys to be administered during the project.



Current Status

An amendment to the Monitoring quality assurance project plan (QAPP) is under review by TCEQ. The amendment includes additional spatially intensive monitoring in the impaired reach.

For More Information

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UGRA

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Project Highlights

- **10/2011** – Contract signed by TCEQ and UGRA.
- **11/2011** – Monitoring QAPP meeting.
- **03/2012** – Engineering subcontractor selected.
- **05/2012** – Monitoring QAPP under review
- **07/2012** – Monitoring QAPP approved.
- **07/2012** – Upper Guadalupe Bacteria Reduction Communication Plan approved.
- **08/2012** – Mapping of on-site sewage system priority areas complete.
- **12/2012** – Upper Guadalupe stakeholder meeting held.
- **12/2012** – Installation of bird deterrent netting on State Highway 16 bridge commenced.
- **01/2013** – Installation of bird deterrent netting complete.
- **04/2013** – Additional funding approved to complete project.