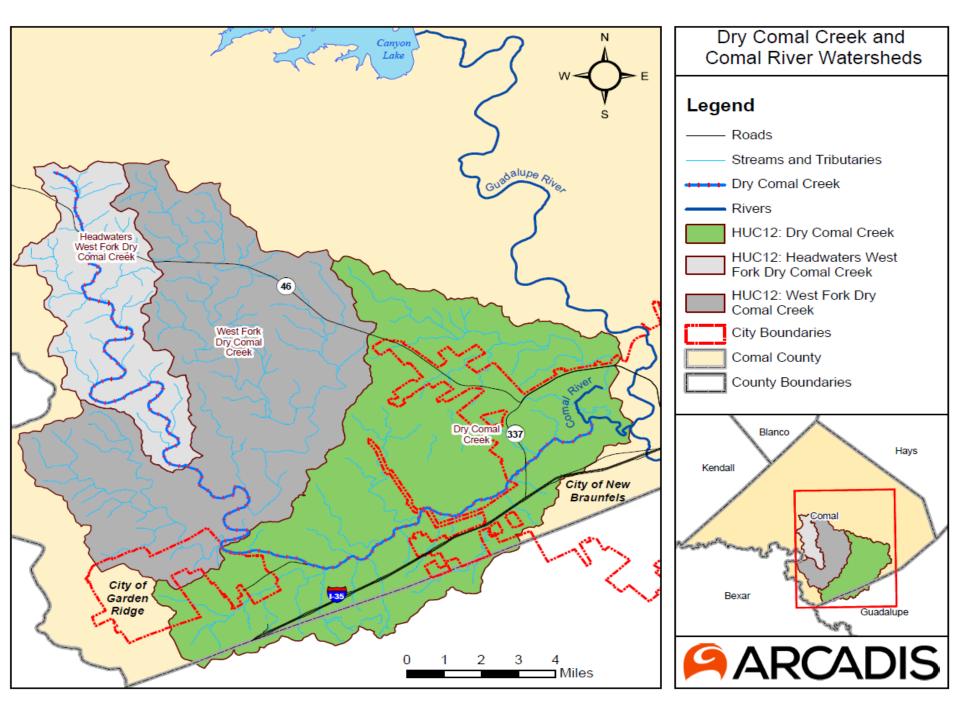


Dry Comal Creek & Comal River Watershed Protection Plan

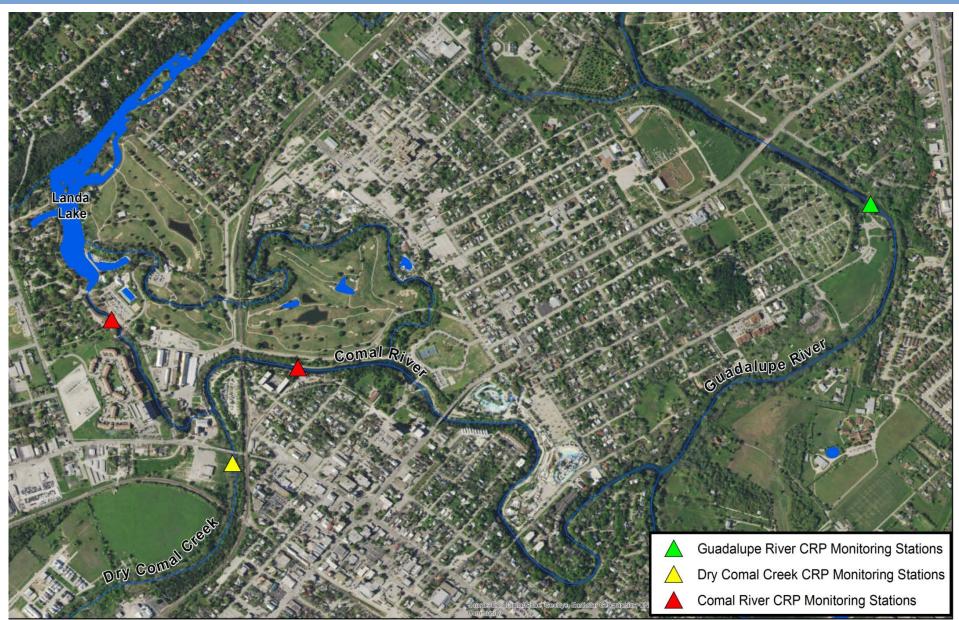
Mark Enders Watershed Program Manager March 29, 2018

Watershed Protection Planning for the Dry Comal Creek and Comal River

- Project Location
- Water Quality Issues
- Available Data
- WPP & Proposed Bacteria Mgmt Measures
- WPP Implementation



Clean Rivers Program (CRP) Water Quality Monitoring Locations



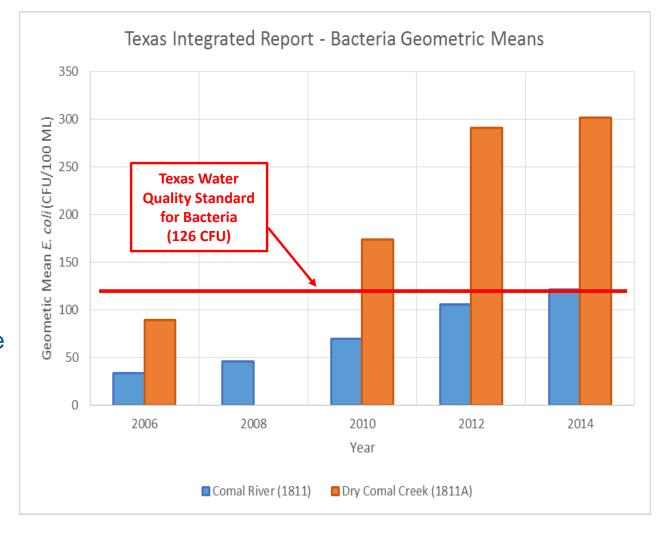
Bacteria Levels-Dry Comal Crk and Comal Rvr

Dry Comal Creek

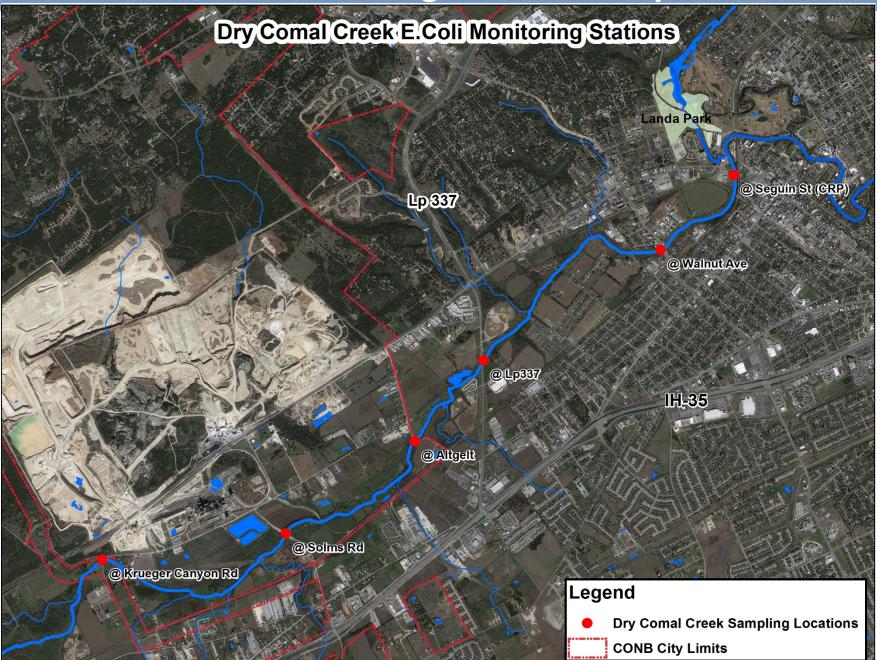
 Initially placed on the 303(d) list for bacteria in 2010.

Comal River

•Bacteria levels have been increasing over the past 10 years.



Additional E.coli Monitoring Locations - Dry Comal Creek



Additional *E.coli* Monitoring Locations –Comal River

Pecan Island

Comal River E.coli Monitoring Locations

Lake

∟anda

Landa Haus

Landa Park Area 16 (CRP)

Hinman Island (CRP)

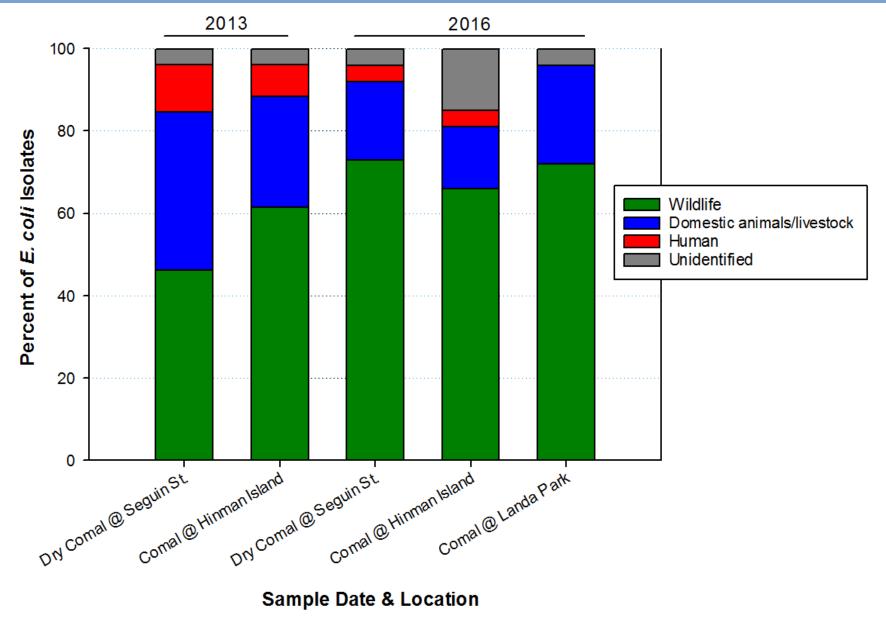
Mill Pond

@ Seguin St (CRP)

Last Tubers Exit

Garden Street

Bacteria Source Tracking Results (3-Way Split)



Sample Date & Location

Watershed Protection Planning for the Dry Comal Creek and Comal River

- The City and project partners developed a Watershed Protection Plan to address bacteria loading to the Dry Comal Creek and Comal River.
- The WPP is at TCEQ for final review & approval
- WPP to be submitted to EPA soon







Proposed Bacteria BMPs

Overabundant Urban Wildlife

- Wildlife feeding restrictions & education
- Deer & duck population management, To what extent??

Urban Stormwater

- LID and Stormwater Treatment BMPs
- Pet Waste BMPs education, ordinances, pet waste stations

Livestock

- Voluntary Water Quality Mgmt Plans (WQMPs) for individual ranches
- Education and Outreach ex. Lone Star Healthy Streams

Septic Systems/ OSSFs

- Septic system operation education
- Require inspection and maintenance be completed by trained professional

• Feral Hogs

Mgmt workshops, bounty program, track trapping rates

Education and Outreach

• Focus on students, kids, homeowners & tourists

• Develop core message that will:

- Link wildlife feeding with protecting water quality
- Teach that feeding wildlife is harmful to the wildlife
- Communicate that the WPP is a proactive solution
- Be a positive message (focus on the future, not impairment)
- Focus on benefits of taking action

• Youth activities, outreach at local events, education at NBU's new Headwaters at the Comal facility.

WPP Implementation

- The City applied for and was awarded a 319 grant from TCEQ to begin implementation of the WPP.
- Total Grant: \$739,755
 \$443,853 (federal)
 \$295,902 (match)
- Match from GBRA, EAA, City staff time and City's EAHCP projects
- Grant funding should become available in Sept 2018.
- First phase to focus on education, urban wildlife mgmt, etc

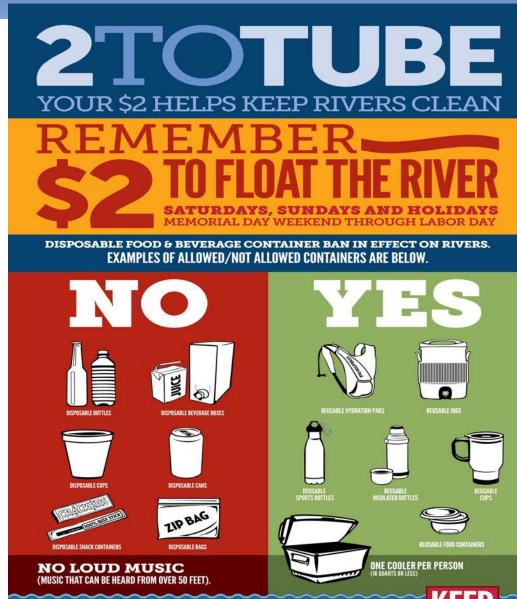
WPP Implementation

- Working with City Council, TPWD and residents to discuss urban wildlife management in New Braunfels.
- Held urban wildlife education and input workshop in conjunction with TPWD in late Feb 2018.
- Next public workshop on April 11th to discuss wildlife management options.
- Implementation of additional WPP education and outreach

Disposable Container Ordinance

- NB City Council directed staff to implement the Disposable Container Ban starting on November 1, 2017. The ban that was in effect in 2011-2012 will be reinstated.
- The City of New Braunfels in conjunction with the Convention and Visitors Bureau has been working to educate City staff, Tourism related staff, and the public.
- The Ban is expected to once again result in a reduction of litter in the Comal River.

Disposable Container Ordinance



TubeInNewBraunfels.com

Questions?

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