

**Clean Rivers Program
Guadalupe River Basin**

2012 Update

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March 21, 2013

Clean Rivers Program

- Project Administration
- Quality Assurance
- Water Quality Monitoring
- Data Review and Reporting
- Annual Reports
- Public Participation



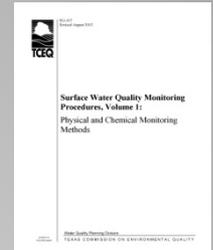
Clean Rivers Program

- Partners:
 - Guadalupe Blanco River Authority
 - Upper Guadalupe River Authority
 - Wimberley Valley Watershed Association
 - Hays County Environmental (one yr)



Water Quality Monitoring Program

- Collected under an approved Quality Assurance Project Plan
 - Trained personnel
 - Specified methods
 - Quality control objectives
 - Review and verified data
 - Data to SWQMIS
 - Used for assessment of streams





Water Quality Monitoring

Water Quality Monitoring:

- 19 sites - Monthly (GBRA)
- 8 sites - Quarterly (GBRA)
- 11 sites - Quarterly (UGRA)
- 9 sites - Monthly (UGRA)
- 2 sites Biological/Habitat – 2x/yr
- 2 sites Metals in Water - 2x/yr; 1/yr
- 1 site Metals in Sediment – 1/yr
- 4 site Organics in Sediment – Annually
- 2 sites Organics in Water - Annually
- 2 sites 24 hr DO – 2x/yr
- 8 sites – Monthly, March - Oct (WVWA)

Changes in 2012-13

GBRA picked up two sites from TCEQ

Guadalupe River at Cypress Bend Park – New Braunfels

Guadalupe River at CR306 – Downstream of Canyon Reservoir

UGRA picked up one site from TCEQ

Guadalupe River at Waring

TCEQ monitoring quarterly at 2 GBRA sites

San Marcos River at IH 35 – San Marcos

Blanco River at FM 165 – Blanco

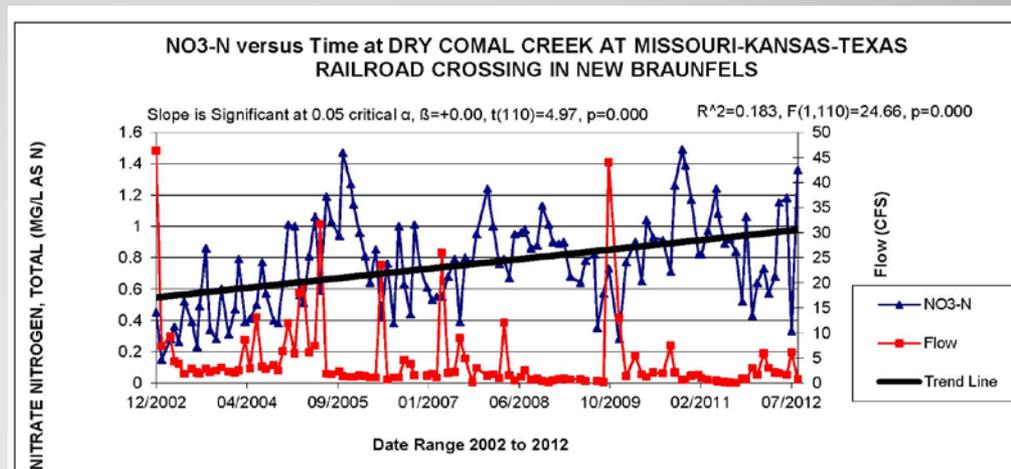
Monitoring Data

Stream assessments – Texas Water Quality Inventory

Segment Number	Water Body	Impairment or Concern	Category (if assigned)	Year First Listed
1801	Guadalupe River Tidal	Depressed Dissolved Oxygen; Nitrate-Nitrogen	Note 2	2002
1802	Guadalupe River below San Antonio River	Nitrate-Nitrogen	Note 2	2002
1803	Guadalupe River below San Marcos River	Bacteria	Note 2	2012
1803A	Elm Creek	Depressed Dissolved Oxygen	5b	1999
1803B	Sandies Creek	Depressed Dissolved Oxygen; Impaired Biological Habitat and Communities; Bacteria	5b	1999
1803C	Peach Creek	Depressed Dissolved Oxygen; Bacteria; Aluminum; Chlorophyll a	5b and 5c	2002
1804A	Geronimo Creek	Bacteria; Nitrate-Nitrogen	5c	2006
1805	Canyon Lake	Mercury in Edible Fish Tissue	5c	2006
1806	Guadalupe River above Canyon Reservoir	Bacteria; Impaired Habitat	4a; Note 2	1999; 2012
1806D	Quinlan Creek	Bacteria	5a	2010
1806E	Town Creek	Bacteria; Depressed Dissolved Oxygen	5a; Note 2	2010; 2012
1810	Plum Creek	Bacteria; Nitrate-Nitrogen; Total Phosphorus; Impaired Habitat ; Ortho-phosphorus; Depressed Dissolved Oxygen	4b	2004; 2012
1811A	Dry Comal Creek	Bacteria	5c	2010
1813	Upper Blanco River	Depressed Dissolved Oxygen	Note 2	2012
1814	Upper San Marcos River	Total Dissolved Solids	5c	2010
1815	Cypress Creek	Depressed Dissolved Oxygen; Impaired Habitat ; Macrobenthic and Fish Communities	Note 2	2010; 2012
<p>1 Listing was carried over from a previous assessment due to inadequate data for this method in this assessment.</p> <p>2 No category assigned if listed for a concern rather than a use impairment.</p> <p>3 Bold text indicates additions as of 2012 assessment.</p>				

Monitoring Data

Historical data – trends – Basin Summary Report



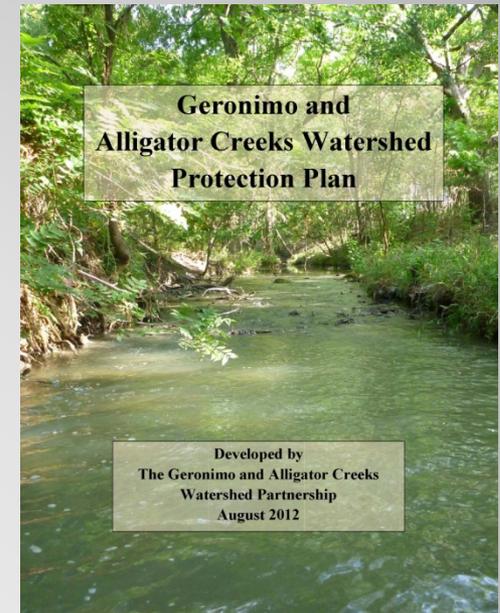
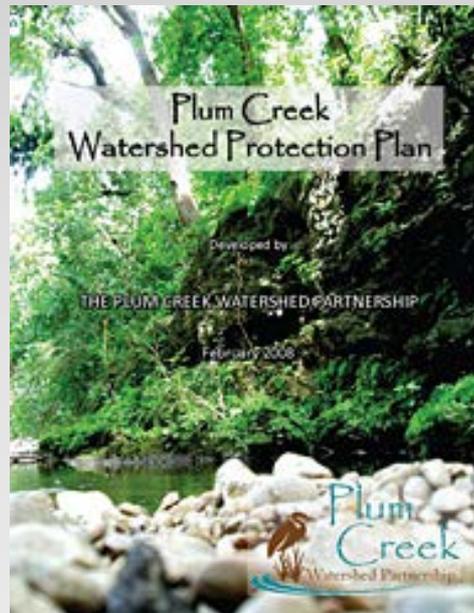
Monitoring Data

Special studies – Stakeholder concerns



Monitoring Data

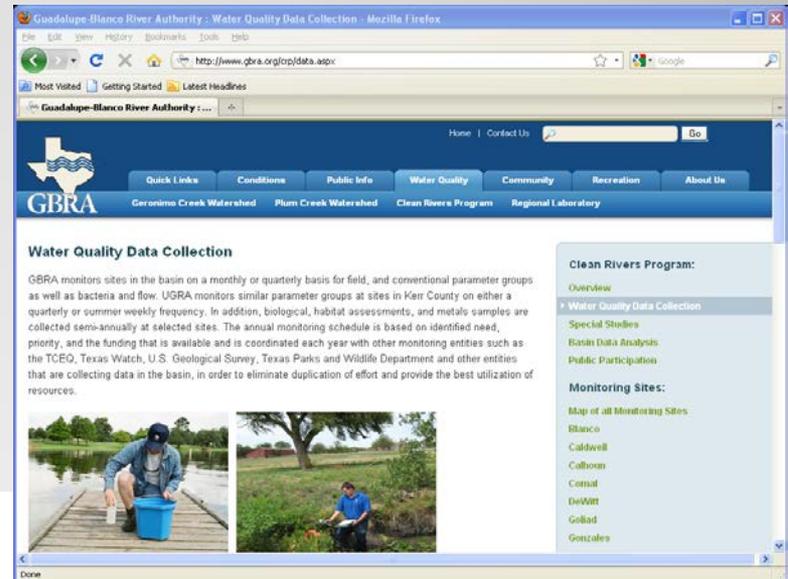
Watershed protection plans and implementation – WPPs and TMDLs



Data Reporting

Monthly-quarterly data submittals
to TCEQ's SWQMIS

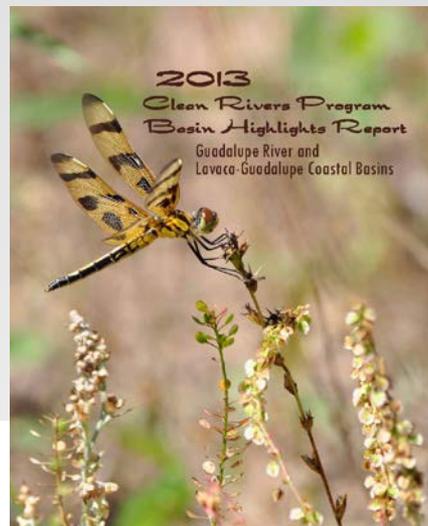
Posting on GBRA website



Data Reporting

Basin Highlights Report -report of activities

Basin Summary Report – every five years



Stakeholder Input

Annual meeting

Concerns about water quality

Direct program or special studies