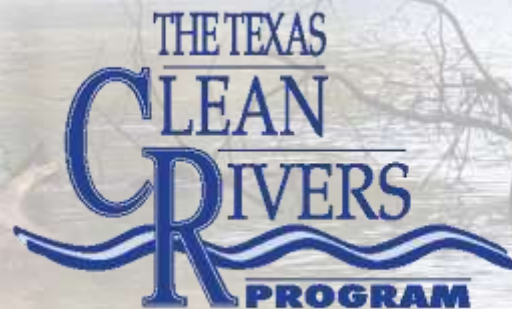




Upper Neches Basin Steering Committee Meeting

May 16, 2013

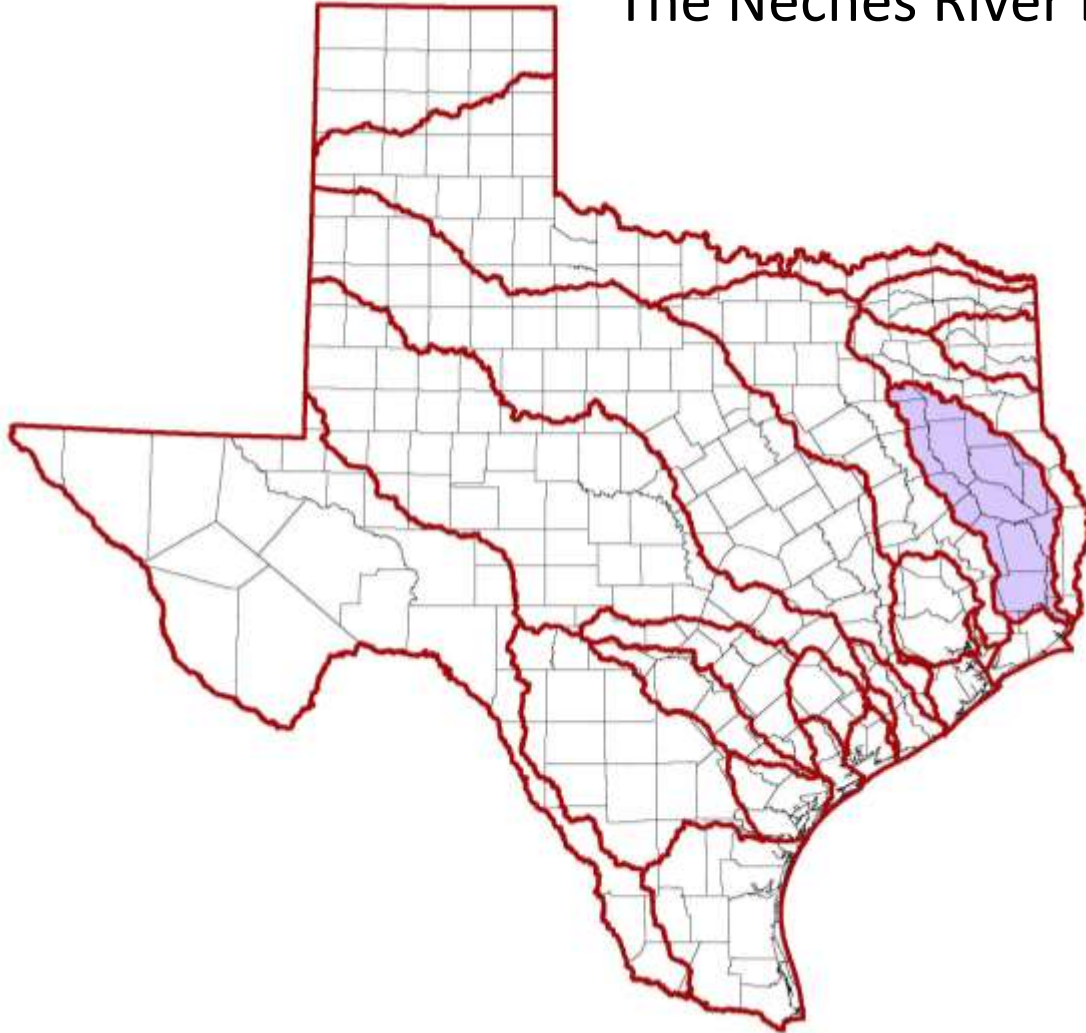




ANRA's Functions in the Neches Basin



The Neches River Basin



ANRA's Jurisdictional Service Area includes all or a portion of the following counties:

**Van Zandt
Smith
Henderson
Newton
Cherokee
Anderson
Rusk
Houston
Nacogdoches**

**San Augustine
Shelby
Angelina
Trinity
Sabine
Polk
Jasper
Orange**



ANRA's General Administration



**Coordinate with
Governments/Entities**



**Water Resource Planning and Development
Lake Columbia**



**Economic Development
Bond Issuance**



ANRA's Field Operations Division



**Regional Wastewater Treatment Facilities
and Contract Operations**



Drinking Water Utilities



**Biosolids Composting
Neches Compost Facility**



ANRA's Environmental Division



Clean Rivers Program
Water Quality Monitoring



Environmental Laboratory
Drinking Water, Surface Water, and
Wastewater Testing



Control Zone Rayburn
On-Site Sewage Facility Permitting



An Overview of the Texas Clean Rivers Program





Introduction to the Texas Clean Rivers Program (CRP)

- Established in 1991 by the 72nd Texas Legislative Session (SB 818)
- Purpose is to monitor the waters of the state and maintain and/or improve water quality
- Partially funded by fees on wastewater discharge and water rights permits
- Collaboration of the Texas Commission on Environmental Quality (TCEQ) and 15 partner agencies
- Emphasis on the collection of water quality data for assessment and regulatory purposes

<http://www.tceq.texas.gov/waterquality/clean-rivers>



ANRA Clean Rivers Program FY 2014 – 2015 Budget Allocations & Expenses





FY 2014 - 2015 Budget Allocations

<u>Planning Agency</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Total Allocation</u>
BRA (12)	398,1590	398,159	796,318
GBRA (17 & 18)	135,3781	135,378	270,756
HGAC (9, 10, 11, 13)	965,615	965,615	1,931,230
IBWC (23)	267,252	267,252	534,504
LNRA (16)	99,298	99,298	198,596
LCRA (14 & 15)	381,797	381,797	763,594
ANRA & LNVA (6 & 7)	329,766	329,766	659,532
NETMWD (4)	99,298	99,298	198,596
NRA (20, 21, & 22)	258,906	258,906	517,812
RRA (1 & 2)	311,118	311,118	622,236
SARA (19)	197,770	197,770	395,540
SRA (5)	313,074	313,074	626,148
SRBA (3)	99,297	99,297	198,594
TRA (8)	393,272	393,272	786,544
TOTALS	\$4,250,000	\$4,250,000	\$8,500,000



Clean Rivers Program Budget Reduction

- The CRP funding currently allocated to ANRA from TCEQ for FY 2012 – 2013 is \$349,164.00
- For the FY 2014 – 2015 contract period, TCEQ funding was reduced to \$329,766.00 (a reduction of \$19,398.00 compared to historical funding levels)
- ANRA has reallocated salaries and resources within its Environmental Division to address this reduction in funding
 - Shifting of salaries from CRP to the Environmental Laboratory
 - Funds made available by this reallocation used to monitor additional locations and analyze additional samples
 - Use of ANRA personnel for additional field monitoring activities (not reimbursed by CRP)
 - Reallocation process will actually result in an INCREASE in the amount of surface water quality monitoring we will be able to conduct
 - Increasing from 26 sites to 40 sites per quarter beginning in FY 2014



ANRA Clean Rivers Program Budget by Category

Current Budget

FY 2012 – FY 2013 Clean Rivers Program Budget	
Budget Category	Approved Budget
Personnel/Salary	\$201,159.08
Fringe Benefits	\$56,324.01
Travel	\$8,545.00
Supplies	\$8,920.00
Equipment	\$0.00
Contractual	\$0.00
Construction	\$0.00
Other	\$54,100.00
Total Direct Costs	\$329,048.09
Authorized Indirect Costs	\$20,115.91
Total Reimbursable Costs	\$349,164.00

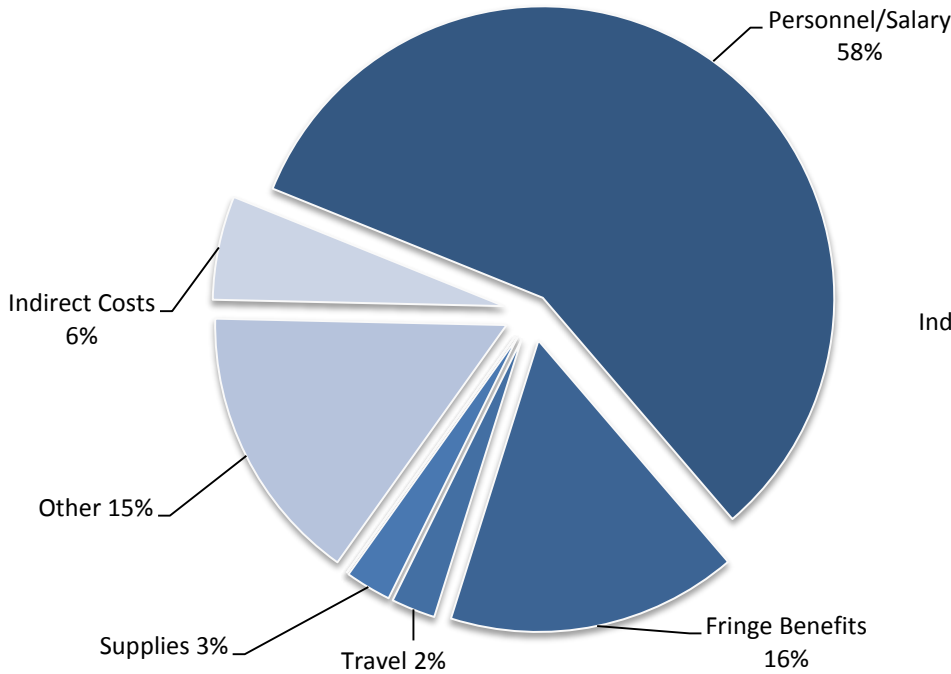
Proposed Budget

FY 2014 – FY 2015 Clean Rivers Program Budget	
Budget Category	Approved Budget
Personnel/Salary	\$155,438.38
Fringe Benefits	\$43,535.35
Travel	\$7,083.54
Supplies	\$8,395.39
Equipment	\$0.00
Contractual	\$0.00
Construction	\$0.00
Other	\$99,720.00
Total Direct Costs	\$314,217.66
Authorized Indirect Costs	\$15,548.34
Total Reimbursable Costs	\$329,766.00

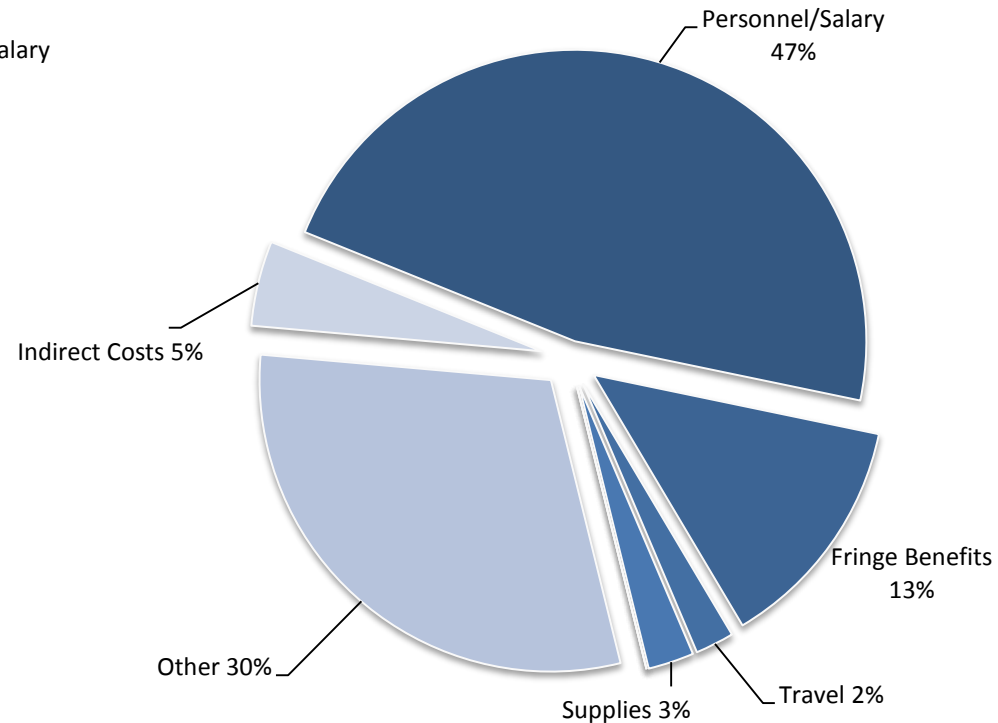


ANRA Clean Rivers Program Budget by Category

Current Budget (FY 2012 – 2013)



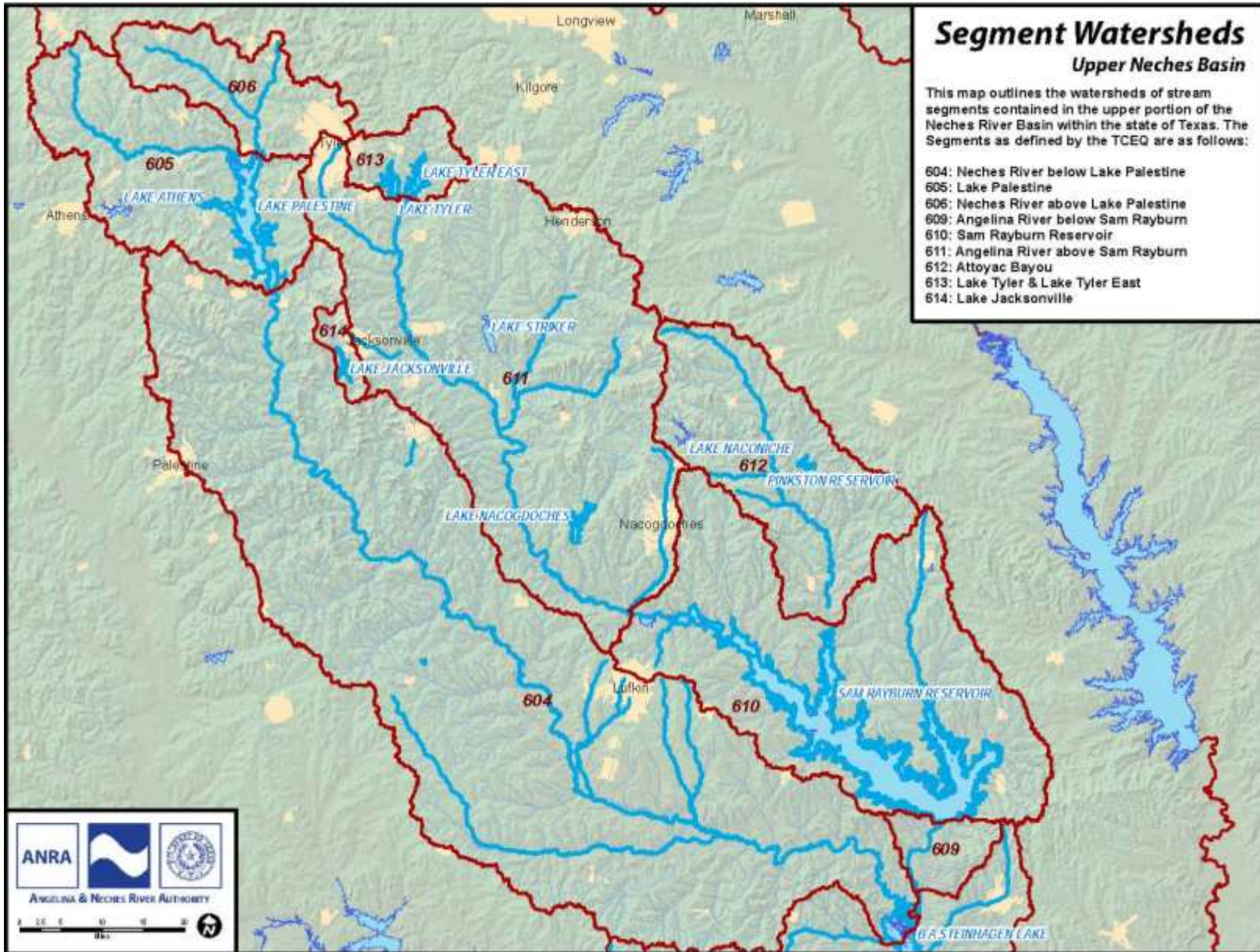
Proposed Budget (FY 2014 – 2015)





ANRA's Water Quality Monitoring Activities in the Upper Neches Basin

Fiscal Years 2014 - 2015



Segment Watersheds

Upper Neches Basin

This map outlines the watersheds of stream segments contained in the upper portion of the Neches River Basin within the state of Texas. The Segments as defined by the TCEQ are as follows:

- 604: Neches River below Lake Palestine
- 605: Lake Palestine
- 606: Neches River above Lake Palestine
- 609: Angelina River below Sam Rayburn
- 610: Sam Rayburn Reservoir
- 611: Angelina River above Sam Rayburn
- 612: Attoyac Bayou
- 613: Lake Tyler & Lake Tyler East
- 614: Lake Jacksonville

ANGELINA & NECHES RIVER AUTHORITY

0 5 10 15 20 Miles



Water Quality Monitoring in the Upper Neches Basin

- Currently, ANRA monitors 26 sites quarterly for field parameters, conventional parameters, and bacteria. An additional site is monitored bimonthly for bacteria
- Beginning in FY 2014, ANRA will begin monitoring 40 sites quarterly for field parameters, conventional parameters, and bacteria. ANRA will continue bimonthly monitoring for bacteria at the additional site
- Four monitoring stations previously sampled by the City of Tyler will now be monitored by TCEQ – Region 5



Water Quality Monitoring in the Upper Neches Basin

- Adding 14 additional sites to the monitoring schedule for FY 2014 – 2015
- Will begin monitoring 2 sites on Lake Striker that are currently being monitored by TCEQ Region 5 (Tyler)
 - Lake Striker Near Dam
 - Lake Striker Upper Lake
- Adding 2 monitoring stations on tributaries to Lake Striker
 - Bowles Creek and Johnson Creek
 - These sites have historically exhibited low pH values that may have been contributing factors to fish kills on Lake Striker



Water Quality Monitoring in the Upper Neches Basin

- Adding an additional monitoring station on Ayish Bayou
 - upstream of the City of San Augustine's WWTP
 - different assessment unit than the site currently monitored
- Will likely add additional monitoring on Attoyac Bayou (or tributaries of Attoyac Bayou) now that monitoring activities under the Attoyac Bayou Partnership/Watershed Protection Plan project have ended
- Currently consulting with City of Lufkin personnel regarding additional sampling on Cedar Creek and Hurricane Creek within the city limits



Water Quality Monitoring in the Upper Neches Basin

- Additional monitoring station locations have yet to be finalized, but locations under consideration include:
 - New sites on waterbodies not currently monitored:
 - Bayou Carrizo (flows into Sam Rayburn Reservoir)
 - Atascoso Creek (tributary of Bayou Carrizo)
 - Lake Naconiche
 - Naconiche Creek
 - Kickapoo Creek
 - Additional sites on currently monitored waterbodies:
 - Jack Creek
 - Piney Creek
 - Mud Creek



Additional Projects and Activities





Clean Water Act Section 319(h) Nonpoint Source Grant

- ANRA has been approved for a Clean Water Act (CWA) Section 319(h) Nonpoint Source Grant through EPA and TCEQ
- 319 funding is used to control nonpoint sources of pollution
- TCEQ seeks projects that implement measures to help restore water quality and achieve significant pollutant load reductions
- All 319 projects must include non-federal matching funds of 40% of the project's total costs
- Total project costs are \$699,425 (\$419,655 Federal/\$279,770 Non-Federal Match)



Clean Water Act Section 319(h) Nonpoint Source Grant

Project Goals and Objectives:

- Development of a database for storage and retrieval of information for permitted On-Site Septic Facilities (OSSFs) around Sam Rayburn Reservoir and within the unincorporated portion of San Augustine County
- Electronic capture of all OSSF permit documents, dating back to the 1970's
- Field collection of GPS data and mapping of OSSFs
- Identification and replacement of failing or non-existent OSSFs in the portion of the Attoyac Bayou watershed located in San Augustine and Nacogdoches counties
- Water Quality Monitoring in the Attoyac Bayou watershed



Additional Resources

- Texas Commission on Environmental Quality
 - Clean Rivers Program
 - <http://www.tceq.texas.gov/waterquality/clean-rivers>
- Surface Water Quality Monitoring Procedures Manual
 - Volume 1: Physical and Chemical Monitoring Methods
 - http://www.tceq.texas.gov/assets/public/comm_exec/pubs/rg/rg415/rg-415.pdf
- Upper Neches Basins Quality Assurance Project Plan (QAPP)
 - http://www.anra.org/divisions/water_quality/crp/pdfs/QAPP/ANRA_CRP_QAPP_FY_12-13.pdf
- ANRA CRP Monitoring Activities
 - http://www.anra.org/divisions/water_quality/crp/monitoring.html
- Coordinated Monitoring Schedule
 - <http://cms.lcra.org>



Comments or Questions?

- Please direct inquiries regarding ANRA's Clean Rivers Program to:

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Angelina & Neches River Authority
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Lufkin, TX 75901
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