



# Agenda

#### **Welcome and Introductions**

Jeremiah Poling, Angelina & Neches River Authority

#### **Overview of the Clean Rivers Program**

Jeremiah Poling, Angelina & Neches River Authority

#### **Updates to ANRA's Water Quality Monitoring Program and The 2018 Basin Highlights Report**

Jeremiah Poling, Angelina & Neches River Authority

#### **Updates on Nonpoint Source Grant Projects in the Neches River Basin**

Attoyac Bayou Projects Update – Amy Truong, Texas Water Resources Institute

Attoyac Bayou Presentation – Cheryl Scott, Stephen F. Austin State University

**Angelina River Project Update** – Kirby Young, Texas Water Resources Institute

La Nana Bayou Project Update – Ed Rhodes, Texas Water Resources Institute

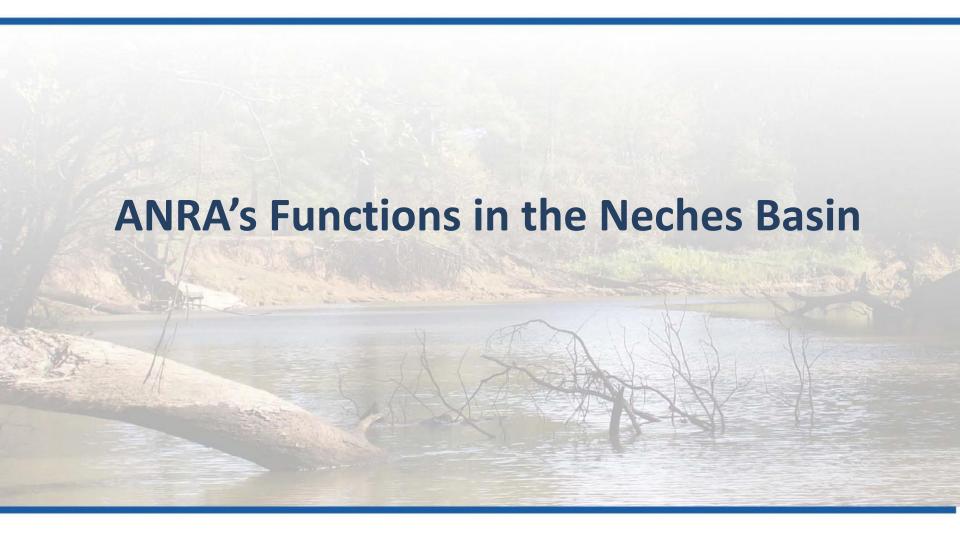
Overview of upcoming projects – Dr. Lucas Gregory, Texas Water Resources Institute

#### **Texas Stream Team Program**

Michael Jones, Texas Stream Team

#### **Open Discussion for Steering Committee Member Recommendations and Concerns**

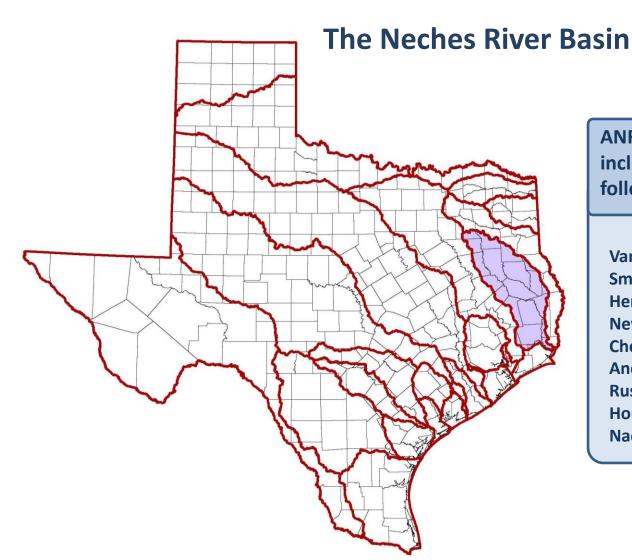












**ANRA's Jurisdictional Service Area** includes all or a portion of the following counties:

**Van Zandt** 

**San Augustine** Shelby

**Smith** Henderson

**Angelina** 

Newton

**Trinity** 

Cherokee

Sabine

**Anderson** 

Polk

Rusk

**Jasper** 

Houston

**Orange** 

**Nacogdoches** 







## **ANRA's General Administration**



Coordinate with Governments/Entities



**Water Resource Planning and Development** 



**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**

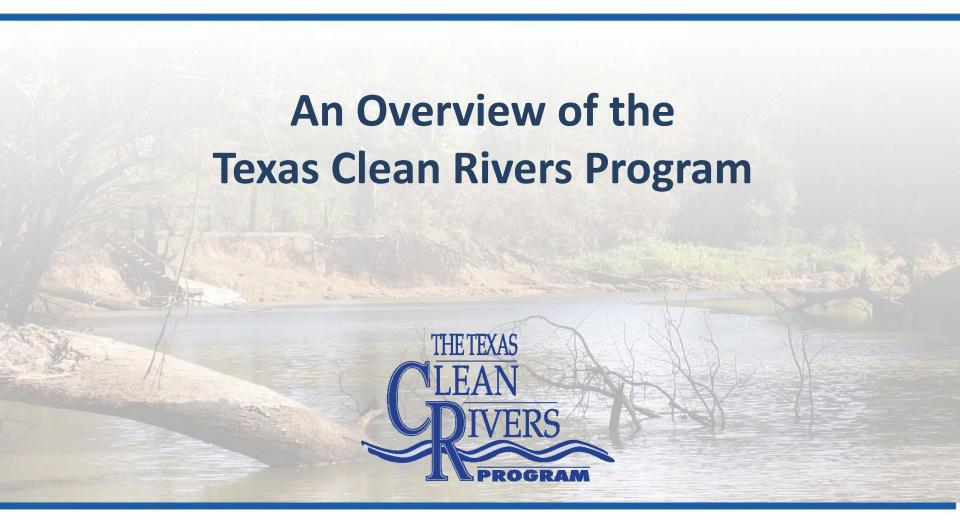
Drinking Water, Surface Water, and Wastewater Testing



### **On-Site Sewage Facilities Program**

**OSSF Permitting & Investigations** 











# The Texas Clean Rivers Program (CRP)

- Established in 1991 by the 72<sup>nd</sup> 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





### FY 2018 - 2019 Budget Allocations

Planning Agency	FY 2018	FY 2019	<b>Total Allocation</b>
BRA (12)	\$3,981,590.00	\$398,159.00	\$796,318.00
GBRA (17 & 18)	\$1,353,781.00	\$135,378.00	\$270,756.00
HGAC (9, 10, 11, 13)	\$965,615.00	\$965,615.00	\$1,931,230.00
IBWC (23)	\$267,252.00	\$267,252.00	\$534,504.00
LNRA (16)	\$99,298.00	\$99,298.00	\$198,596.00
LCRA (14 & 15)	\$381,797.00	\$381,797.00	\$763,594.00
ANRA & LNVA (6 & 7)	\$329,766.00	\$329,766.00	\$659,532.00
NETMWD (4)	\$99,298.00	\$99,298.00	\$198,596.00
NRA (20, 21, & 22)	\$258,906.00	\$258,906.00	\$517,812.00
RRA (1 & 2)	\$311,118.00	\$311,118.00	\$622,236.00
SARA (19)	\$197,770.00	\$197,770.00	\$395,540.00
SRA (5)	\$313,074.00	\$313,074.00	\$626,148.00
SRBA (3)	\$99,297.00	\$99,297.00	\$198,594.00
TRA (8)	\$393,272.00	\$393,272.00	\$786,544.00
TOTALS	\$4,250,000.00	\$4,250,000.00	\$8,500,000.00

### **A**NGELINA & NECHES RIVER AUTHORITY



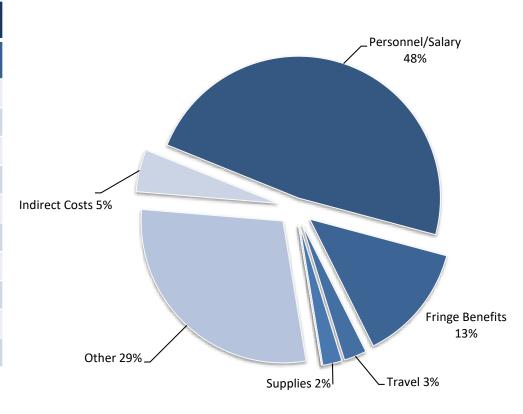




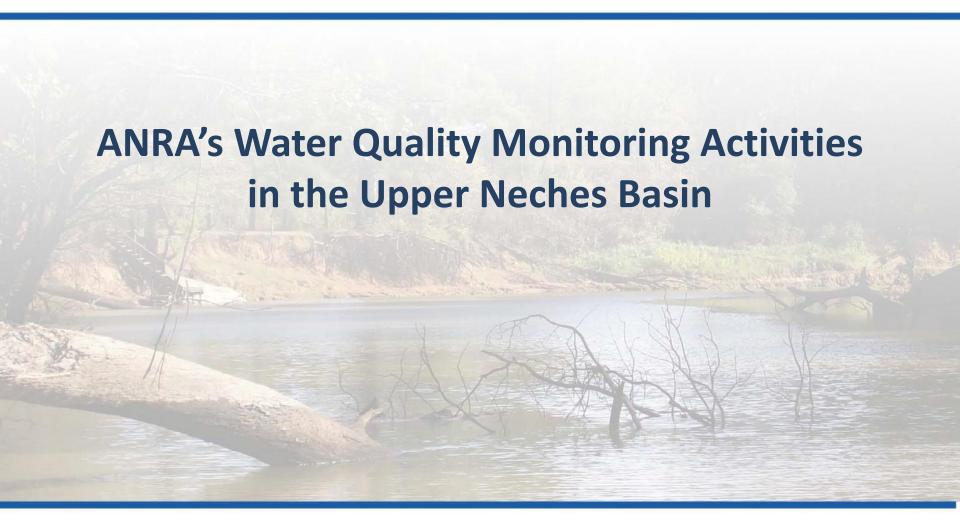
# ANRA Clean Rivers Program Budget by Category

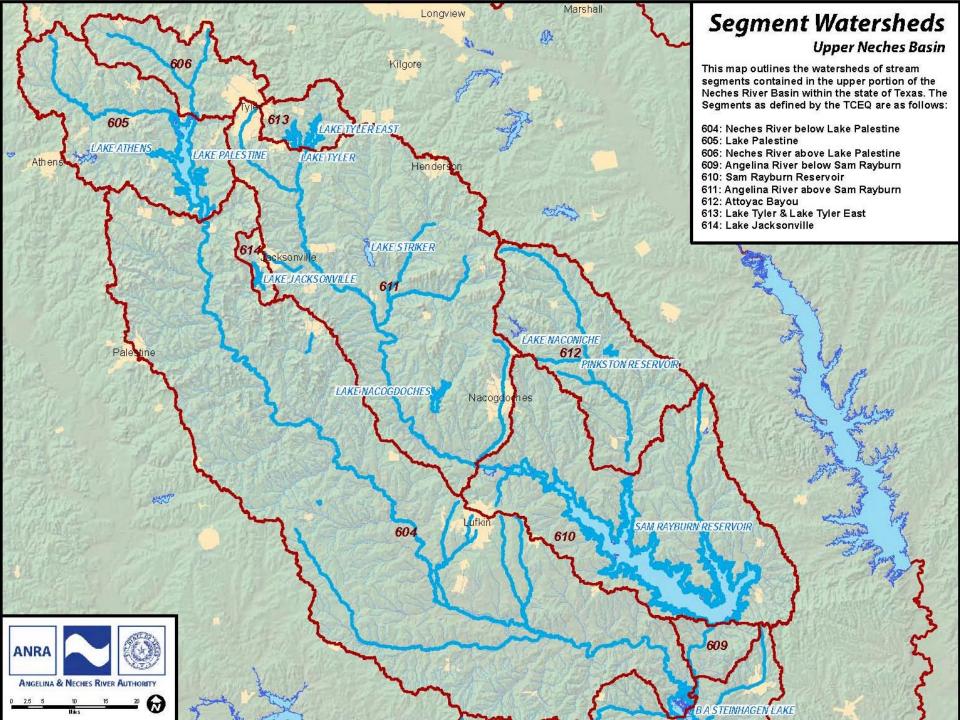
FY 2018 – FY 2019 Clean Rivers Progra	am Budget
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Budget Category	Approved Budget
Personnel/Salary	\$158,437.50
Fringe Benefits	\$44,362.50
Travel	\$8,520.00
Supplies	\$7,242.24
Equipment	\$0.00
Contractual	\$0.00
Construction	\$0.00
Other	\$95,360.00
Indirect Costs	\$15,843.76
<b>Total Reimbursable Costs</b>	\$329,766.00















# FY 2018 Water Quality Monitoring in the Neches Basin

- Currently, ANRA monitors 40 sites quarterly for field parameters, conventional parameters, and bacteria, and one site for field parameters and bacteria only.
- Additional monitoring in the Upper Neches Basin is performed by TCEQ (Region 5 in Tyler and Region 10 in Beaumont), as well as the Lower Neches Valley Authority (LNVA).

FY 2018 Number of Monitoring Stations in the Neches Basin				
Sampling Entity	Field	Conventional	Bacteria	Flow
ANRA	41	40	41	32
TCEQ – Region 5	25	21	25	15
TCEQ – Region 10	26	20	23	8
LNVA	25	25	25	20

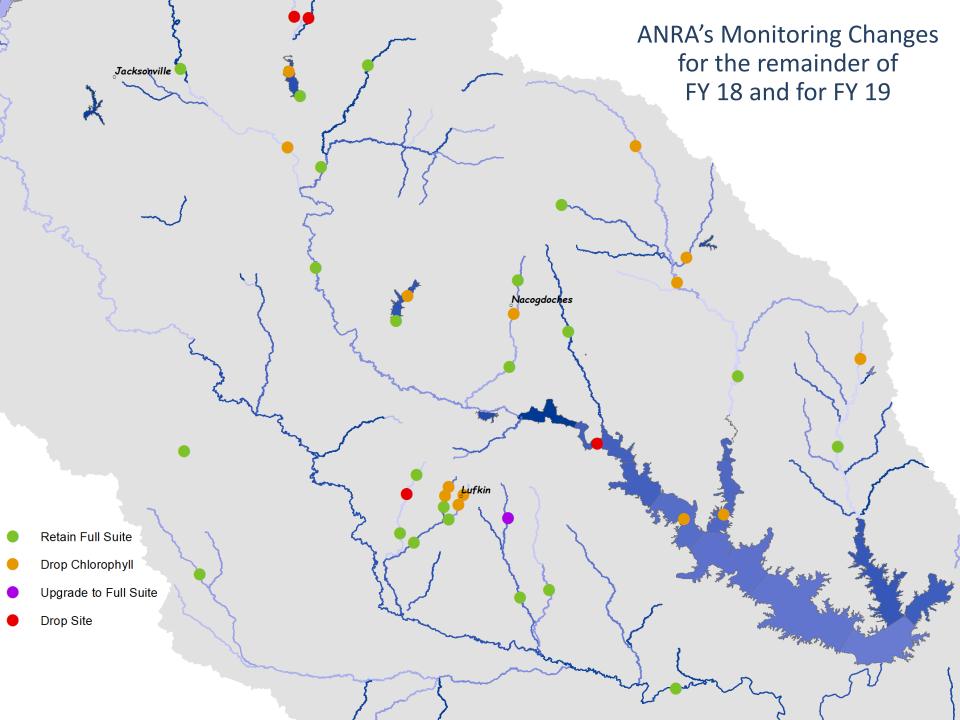


## FY 2019 Water Quality Monitoring Changes

- Due to significant cost increases, for the remainder of FY 18 and for FY 19, ANRA will discontinue the collection of Chlorophyll-a and Pheophytin samples for 19 of the 41 sites that we monitor.
- For FY 19 ANRA, will discontinue monitoring on four sites. Two have achieved their monitoring goals, and the other two were determined to be redundant.
- ANRA will begin monitoring conventional parameters at the site that had previously been field parameters and bacteria only.

FY 2019 Number of Monitoring Stations in the Neches Basin				
Sampling Entity	Field	Conventional	Bacteria	Flow
ANRA	37	37	37	29
TCEQ – Region 5	24	20	24	14
TCEQ – Region 10	26	20	23	8
LNVA	23	23	23	20

The Coordinated
Monitoring Schedule (CMS)
is available online at
cms.lcra.org

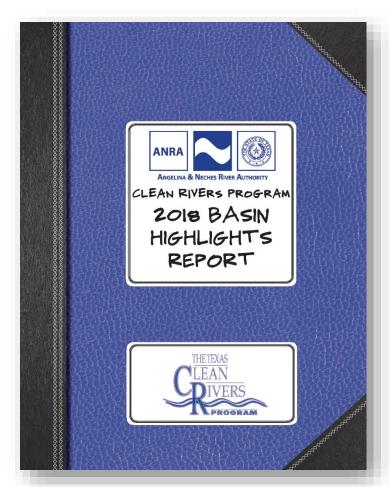


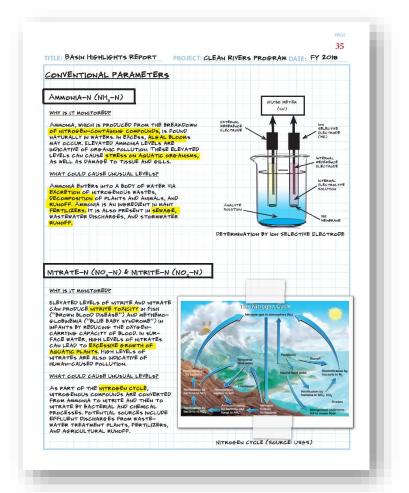
## ANRA's Water Quality Monitoring in the Neches Basin for the remainder of FY 18 & for FY 19

Site Description	AU	Station ID	Chlorophyll-a /Pheophytin	Changes for FY 2019
Neches at US 69	0604_01	10585		
Cedar at FM 2497	0604A_02	10478		
Cedar at FM 1336	0604A_02	13528		
Cedar at Loop 287	0604A_03	10479	DROP	
Cedar at Ellis	0604A_03	21434	DROP	
Hurricane at Loop 287	0604B_01	10487	DROP	
Hurricane at SH 324	0604B_01	13529		
Hurricane below Kiwanis Park	0604B_02	21433	DROP	
ack at FM 2497	0604C_01	10492		
ack at SH 94	0604C_01	10493	DROP	Site to be dropped. Same AU as Jack at 3150
ack at FM 3150	0604C_01	10494		
iney at FM 358	0604D_02	16096		
Biloxi at FM 1818	0604M_02	16097		
Biloxi at CR 216	0604M_03	10499	DROP	Was E. coli and Field params only. Adding conventionals
Buck at FM 1818	0604N_01	16098		
ake Ratcliff	0604T_01	17339		
am Rayburn near Shirley Creek	0610_04	15524	DROP	
am Rayburn at Alligator Cove	0610_05	15523	DROP	
am Rayburn near Marion's Ferry	0610_07	21100	DROP	Site to be dropped. Same AU as Sam Rayburn at 103
yish at SH 103	0610A_01	15361		
yish at Columbia St	0610A_02	21431	DROP	
Carrizo at SH 21	0610P_01	21432		
ingelina at SH 21	0611_02	10630		
ngelina at SH 204	0611_03	10633		
Angelina at FM 1798	0611_04	10635		
a Nana at CR 526	0611B_01	10474		
a Nana at East Main	0611B_02	20792	DROP	
a Nana at Loop 224 North	0611B_03	16301		
Mud at US 84	0611C_01	10532	DROP	
Mud at US 79	0611C_02	14477		
ake Nacogdoches Main Pool	0611Q_01	15801		
ake Nacogdoches Upper Lake	0611Q_01	21021	DROP	
ake Striker Upper Lake	0611R_01	17822	DROP	
ake Striker Main Pool	0611R_01	17824		
Bowles at CR 4194 (above Striker)	0611V_01	21429	DROP	Site to be dropped. Monitoring Objective Achieved
ohnson at CR 476 (above Striker)	0611W_01	21430	DROP	Site to be dropped. Monitoring Objective Achieved
attoyac at SH 21	0612_01	10636		5 ,
Attoyac at SH 7	0612_02	15253	DROP	
Attoyac at US 59	0612_03	16076	DROP	
West Creek	0612F_01	20845	DROP	
ake Naconiche Main Pool	0612G 01	21435		



# 2018 Upper Neches Basin Highlights Report







## **Additional Resources**

- Texas Commission on Environmental Quality Clean Rivers Program
  - http://www.texascleanrivers.org
- Surface Water Quality Monitoring Procedures Manual
  - http://www.tceq.texas.gov/assets/public/comm exec/pubs/rg/rg415/rg-415.pdf
- Upper Neches Basin Quality Assurance Project Plan (QAPP)
  - http://www.anra.org/divisions/water quality/crp/pdfs/QAPP/ANRA CRP QAPP FY 16-17.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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