



2022 Clean Rivers Program Steering Committee Meeting

March 18, 2022



Agenda

- CRP Overview
- Draft FY22 Clean Rivers Basin Update Report
- Allocation of Resources
- Draft 2022 Integrated Report
- Coordinated Monitoring Schedule



**Austin Davis SARA Aquatic Biologist, Gray
Redhorse, Medio Creek Watershed**



CRP Overview

Established in 1991 by the 72nd Legislature enactment of Senate Bill 818.

Coordinates the regional monitoring resources to identify and address the water quality issues in the San Antonio River Basin.

SARA, TCEQ, BCRAGD, and the City of Boerne monitor water quality in the San Antonio River Basin.

Provide quality assured data to the TCEQ for use in water quality decision making.



CRP Mission

Working together for clean water and science-based decisions

Goal

Maintain and improve the quality of water within each river basin in Texas through an ongoing partnership involving the Texas Commission on Environmental Quality, river authorities, other agencies, regional entities, local governments, industry, and citizens.



CRP Objectives



Zoe Nichols SARA Aquatic Biologist,
Spotted Gar, Cibolo Creek Watershed

- Provide Quality-Assured Data
- Identify and Evaluate Water Quality Issues
- Promotes Cooperative Watershed Planning
- Maintain Efficient Use of Public Funds
- Adapt Program to Emerging Water Quality Issues



2022 CRP Basin Update Report

- SAR Basin Overview
- Activities in the SAR Basin during 2021
- Educational and Awareness Initiatives
- Draft 2022 TCEQ Integrated Report

San Antonio River 2022 Basin Highlight Update Report



Figure 1: Warmouth perch captured and released at a biological event at Station 12870 Salado Creek at Gumbler Road



Figure 2: The preparation of this report was financed through grants from and in cooperation with the Texas Commission on Environmental Quality. An accessible version of the 2022 Clean Rivers Program San Antonio River Basin Highlight Update Report is posted on [SARA's Clean Rivers Program website](#).

Basin Overview

The San Antonio River basin is in south central Texas. While the San Antonio River Authority's (River Authority) political jurisdiction is comprised of four counties (Bexar, Wilson, Kerr and Goliad), the actual basin consists of all or part of 14 counties. The basin extends north into the Texas Hill country in the lower portion of Kerr County and continues southeast to the Guadalupe River about 10 miles from San Antonio Bay. Most of the basin is rural, except Bexar County, which is in the center of the basin and consists of the City of San Antonio and various smaller municipalities. Five major perennial streams contributing to the San Antonio River are the Cibolo Creek, Leon Creek, Medina River, Medio Creek, and Salado Creek. In the [TCEQ 2020 Integrated Report \(IR\)](#) there were 13 classified and 23 unclassified stream segments (tributaries) assessed in the San Antonio River basin. A total of 16 impairments were identified in the classified stream segments and a total of 18 impairments were identified in the unclassified stream segments of the San Antonio River basin. Elevated levels of *E. coli* remain the primary water quality issue and major cause of impairments in the basin. Of the 36 waterbodies assessed in the San Antonio River basin, 58% are considered impaired based on *E. coli* concentrations above the primary contact recreation standard allowed under the [Texas Surface Water Quality Standards](#) (TSWQS). Depressed dissolved oxygen (DO), fish and benthic macroinvertebrate communities, and fish consumption restrictions, specific to the Lower Leon Creek, were also identified.



2022 CRP Basin Update Report

- Draft Report – February 15, 2022
- Final Report – May 15, 2021
- Posted to SARA's CRP web page - May 15, 2022
- <https://www.sariverauthority.org/services/environmental-sciences/basin-reports>



2021 Mike Gonzales Intern
Lily Bemporad,
American Eel Lower San
Antonio River Watershed



Allocation of Resources



Angelica Rapacz SARA Aquatic Biologist,
Texas Logperch Mission Reach Intensive
Nekton Study, Upper SAR Watershed



FY22/23 CRP Contract Budget

BUDGET CATEGORIES*	FY 2022 9/1/21 - 8/31/22	FY 2023 9/1/22 - 8/31/23	FY22 - FY23 TOTAL
a. Personnel/Salary	\$ 191,675.67	\$ 63,891.89	\$ 255,567.56
b. Fringe Benefits (38% of a.)	\$ 72,836.76	\$ 24,278.92	\$ 97,115.68
c. Travel	\$ 300.00	\$ -	\$ 300.00
d. Supplies	\$ 14,000.00	\$ -	\$ 14,000.00
e. Equipment	\$ -	\$ -	\$ -
f. Contractual	\$ -	\$ -	\$ -
g. Other	\$ 1,000.00	\$ 2,000.00	\$ 3,000.00
h. Total Direct Costs (sum a-g)	\$ 279,812.43	\$ 90,170.81	\$ 369,983.24
i. Indirect costs (10% x a.)	\$ 19,167.57	\$ 6,389.19	\$ 25,556.76
j. Total Reimbursable Costs (h+i)	\$ 298,980.00	\$ 96,560.00	\$ 395,540.00

Pending Budget Revision Request increases the project budget to \$717,459.99



Pending Contact Amendment

BUDGET CATEGORIES*	FY 2022 9/1/21 - 8/31/22	FY 2023 9/1/22 - 8/31/23	FY22 - FY23 TOTAL
a. Personnel/Salary	\$ 217,013.78	\$ 217,013.78	\$ 434,027.56
b. Fringe Benefits (38% of a.)	\$ 82,465.24	\$ 82,465.24	\$ 164,930.48
c. Travel	\$ 150.00	\$ 150.00	\$ 300.00
d. Supplies	\$ 14,475.00	\$ 14,472.06	\$ 28,947.06
e. Equipment	\$ 56,852.14	\$ -	\$ 56,852.14
f. Contractual	\$ -	\$ -	\$ -
g. Other	\$ 1,000.00	\$ 2,000.00	\$ 3,000.00
h. Total Direct Costs (sum a-g)	\$ 371,956.16	\$ 316,101.08	\$ 688,057.24
i. Indirect costs (10% x a.)	\$ 21,701.38	\$ 21,701.38	\$ 43,402.76
j. Total Reimbursable Costs (h+i)	\$ 393,657.54	\$ 337,802.46	\$ 731,460.00
The Equipment Category include funds for an ammonia meter and an Ion Chromatogram. The total IC cost is \$67,565.18; TCEQ (80%) = \$54,052.14; SARA (20%) = \$13,513.04			



Pending Contact Amendment Equipment

Thermo Scientific Dionex™
Integrion™ HPIC™ System



Orion Star A214 Benchtop
Meter with an Ammonia
Probe



Committed to Safe, Clean, Enjoyable Creeks and Rivers.

CRP Work Plan



2021 Hutton Inter Shreya Dheenani,
Large Mouth Bass, USAR Watershed

TASK 1: Project Administration

TASK 2: Quality Assurance

TASK 3: Water Quality
Monitoring

TASK 4: Data Management

TASK 5: Data Analysis and
Reporting

TASK 6: Stakeholder
Participation and Public Outreach



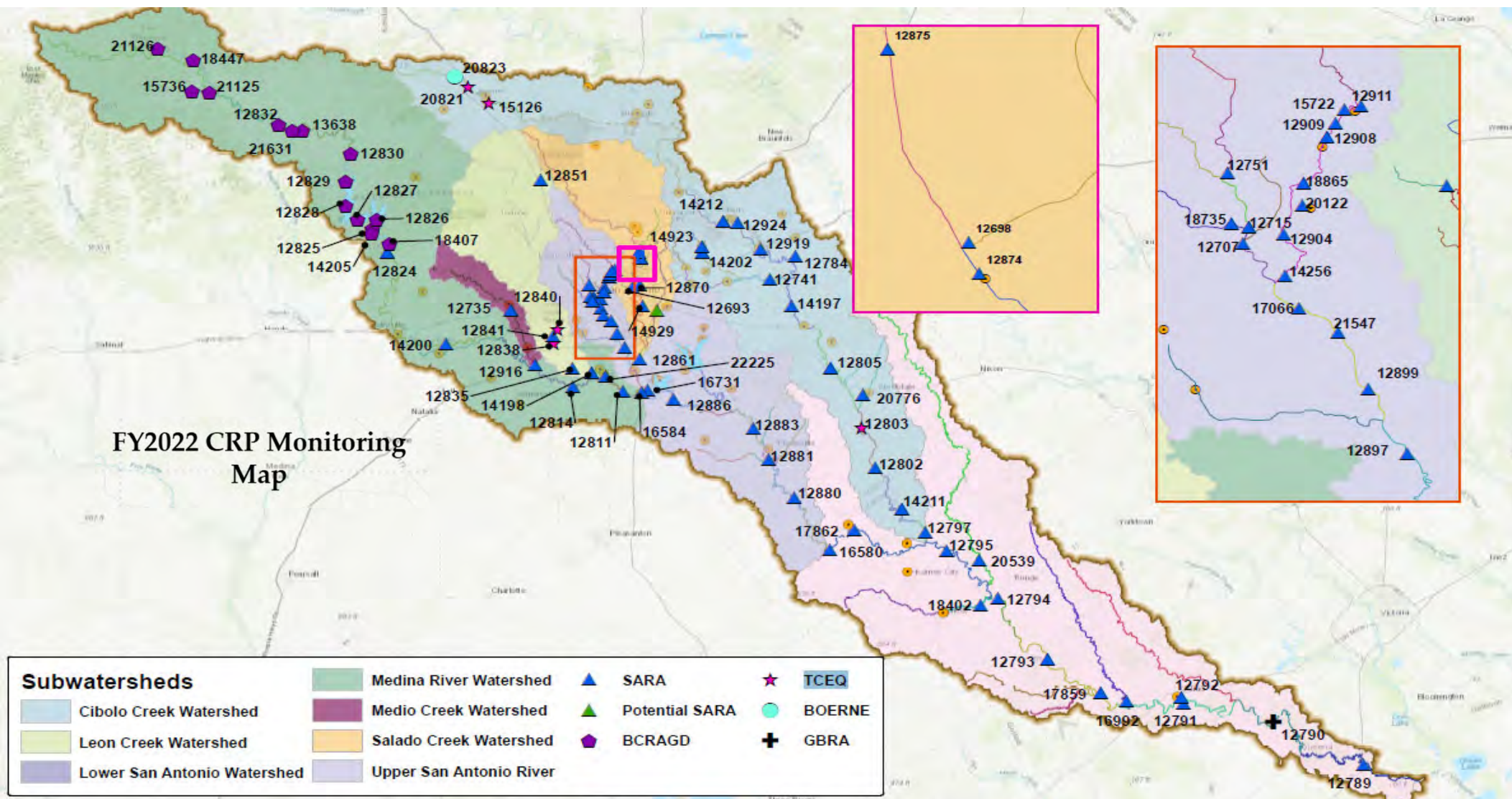
CRP Coordinated Monitoring Meeting



Zoe Nichols and Steven Bittner SARA Aquatic Biologists,
Channel Catfish, Upper SAR Watershed



FY2022 CRP Monitoring Map



Committed to Safe, Clean, Enjoyable Creeks and Rivers.

CRP Coordinated Monitoring Schedule

Sampling Stations	FY 21	FY 22	Difference
Routine	88	85	-3
Guadalupe Blanco River Authority	1	1	0
City of Boerne	1	1	0
Texas Commission on Environmental Quality	5	6	+1
Bandera County River Authority & Groundwater District	15	15	0
San Antonio River Authority	66	62	-4
Biological Communities and/or Dissolved Oxygen	23	22	-1



EAC Request for Monitoring Stations

Please provide suggestions by April 1, 2022.

<https://cms.lcra.org/>



Chris Vaughn Senior Aquatic Biologist, Lower Leon Creek Watershed



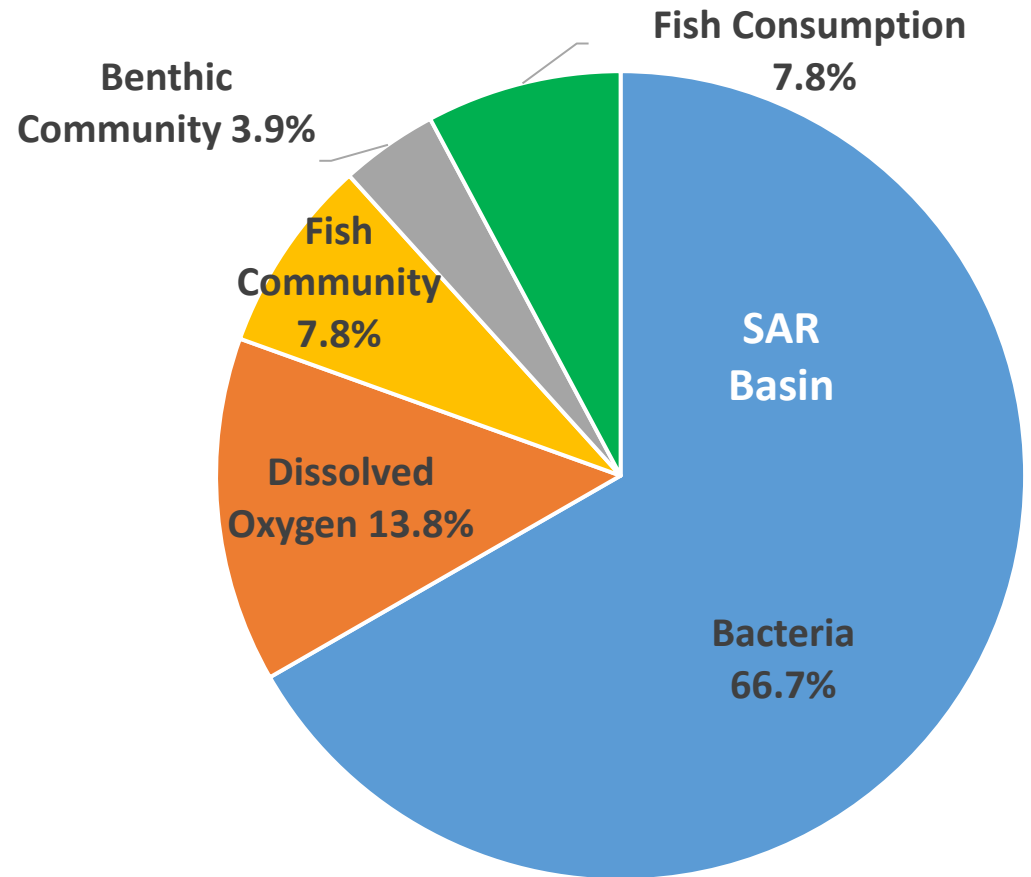
2022 TCEQ Integrated Report



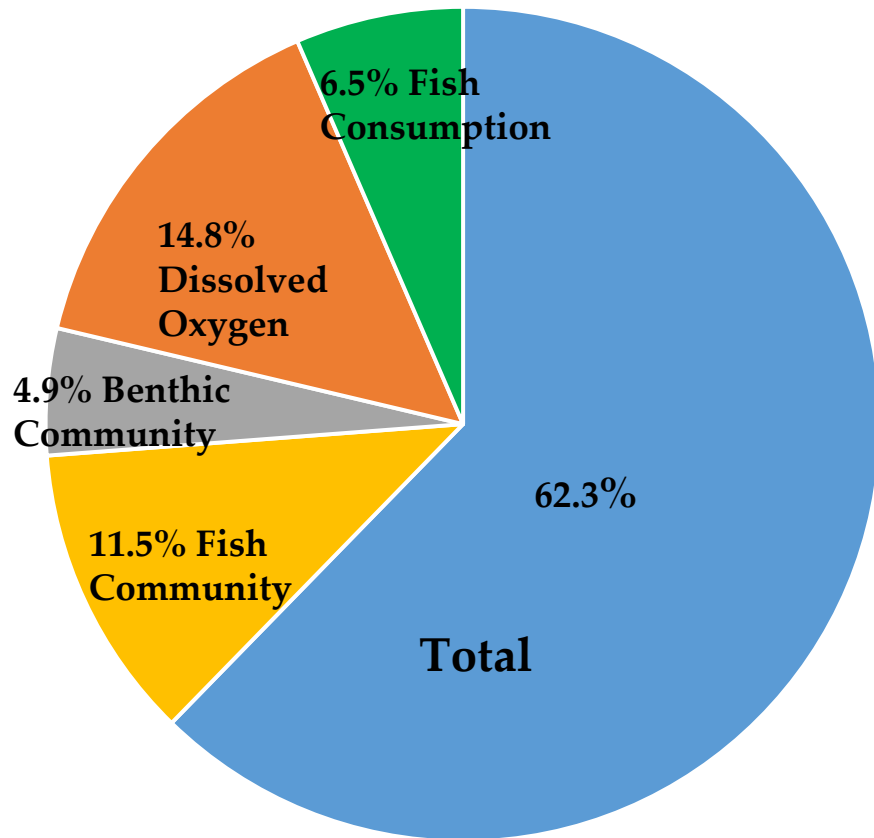
Committed to Safe, Clean, Enjoyable Creeks and Rivers.

TCEQ 2020 IR SAR Basin Impairments

2020 Impairments in the SAR Basin		
Impairments	Number of Impaired AUs	Percentage of all Impairments
Bacteria	34	66.7%
Dissolved Oxygen	7	13.8%
Fish Community	4	7.8%
Benthic Community	2	3.9%
Fish Consumption	4	7.8%
Total Impaired AUs	51	100.0%



TCEQ Draft 2022 IR SAR Basin Impairments



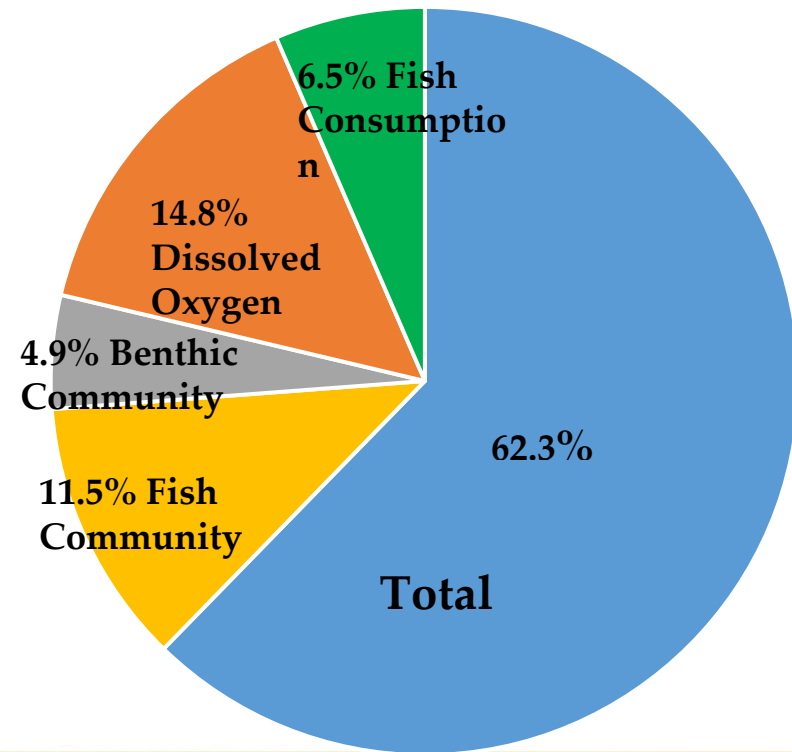
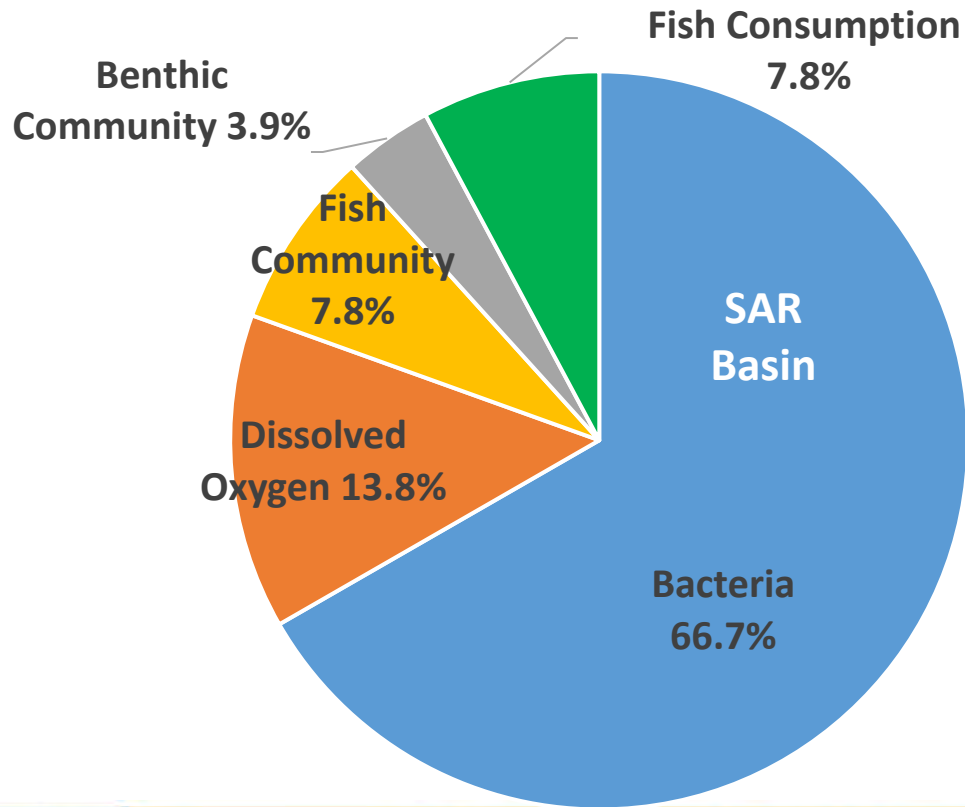
Draft 2022 Impairments in the SAR Basin		
Impairments	Number of Impaired AUs	Percentage of all Impairments
Bacteria	38	62.3%
Dissolved Oxygen	9	14.8%
Fish Community	7	11.5%
Benthic Community	3	4.9%
Fish Consumption	4	4%
Total Impaired AUs	61	100.0%



TCEQ Integrated Report

2020

Draft 2022



Committed to Safe, Clean, Enjoyable Creeks and Rivers.

Notable Changes Draft 2022 TCEQ Integrated Report

- Upper Cibolo Creek 3AUs → 5 AUs
addition of Boerne City Lake
- Medina River, Station 14200 CR 484
was in 1903_04 now is in 1903_05
- Cabeza Creek 1901B, LSAR
Watershed, was separated into 2 AUs
- Several fish and benthic scoring
differences
- Salitrillo Creek and Lower Leon
Creek new bacteria impairments



Steven Bittner, Austin Davis, Angelica Rapacz
SARA Aquatic Biologists, Lower San Antonio
River Basin Goliad County



Questions?

