



Guadalupe-Blanco River Authority

Your Trusted  
Water Resource



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# Welcome to the 2024 Steering Committee Meeting!

- Please sign in!
- Agendas are available near the sign in sheet
- Please silence your cell phone
- Drinks are available in the kitchen

# Overview

- FY2024 – 2025 Budget
- Proposed changes for the FY25 Monitoring Schedule
- Drought Update
- Draft 2024 Integrated Report
- Findings from FY23 Aquatic Life Monitoring Events
- FY24 Aquatic Life Monitoring Events

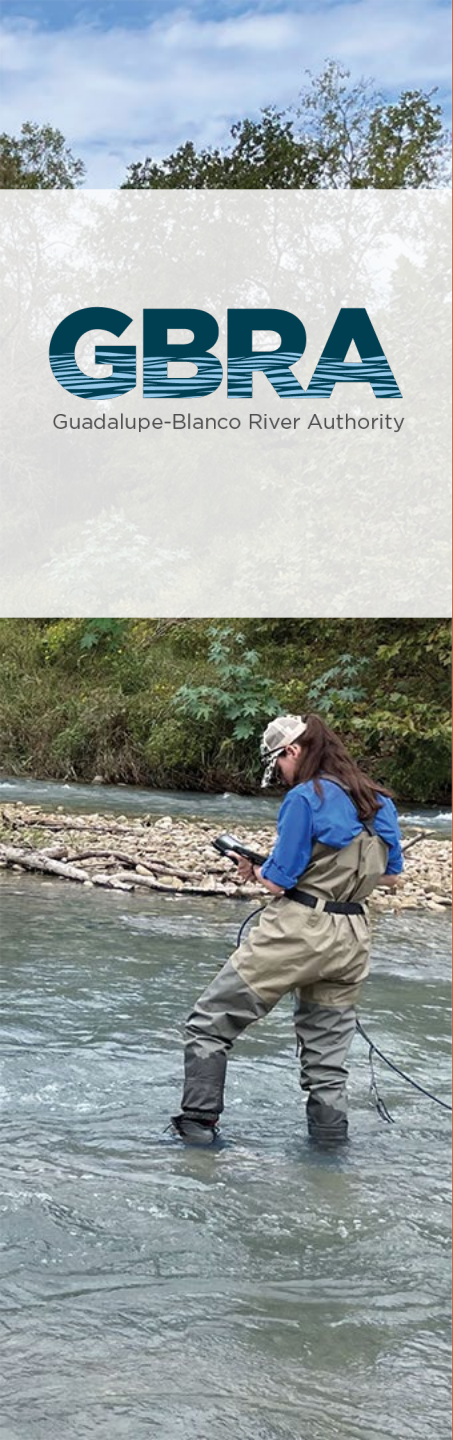
# FY24-25 GBRA Clean Rivers Program Budget

	<b>FY 2024 9/1/23 – 8/31/24</b>	<b>FY 2025 9/1/24 – 8/31/25</b>	<b>FY24 – FY25 Total</b>
Total CRP Budget	\$161,362	\$161,028	\$322,390
Personnel	\$12,772	\$12,771	\$25,544
Supplies	\$5,275	\$5,276	\$10,551
Equipment	-	-	-
Travel	\$6,977	\$6,644	\$13,621
Other	\$131,228	\$131,228	\$262,456

# Proposed Monitoring Schedule Changes

- Remove ALM events that took place at:
  - North Fork Guadalupe River near Camp Waldemar
  - Big Joshua Creek
- Add ALM Events:
  - Johnson Creek
  - Clear Fork Plum Creek at Lockhart State Park (Plum Creek WPP)



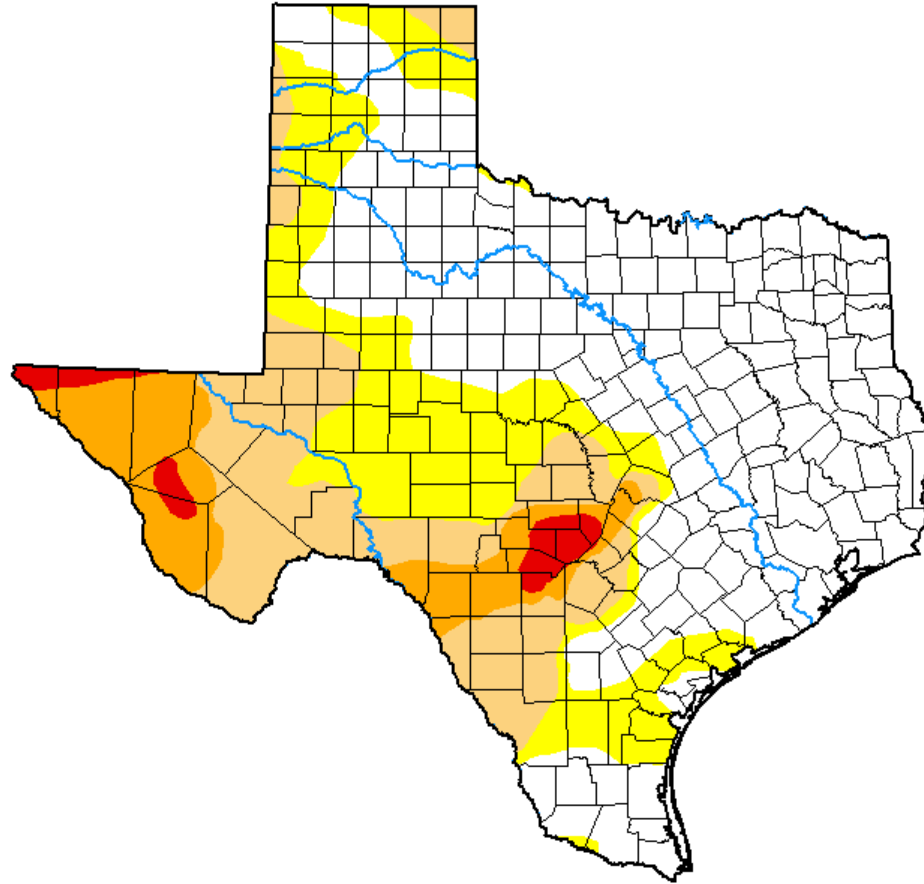


# GBRA







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## U.S. Drought Monitor Texas

**April 16, 2024**  
(Released Thursday, Apr. 18, 2024)  
Valid 8 a.m. EDT



### Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought

*The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <http://droughtmonitor.unl.edu/About.aspx>*

### Author:

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National Drought Mitigation Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

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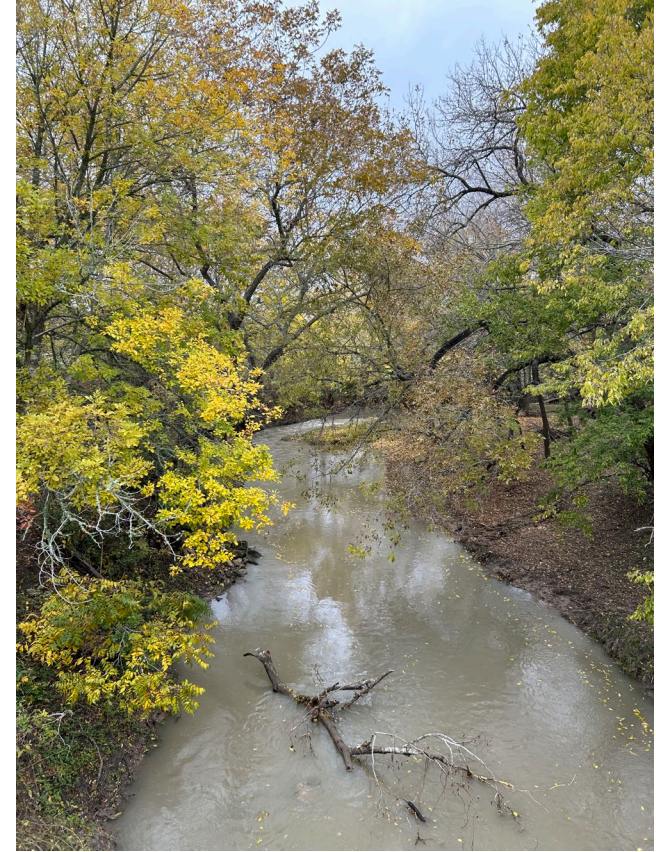
# Draft 2024 Integrated Report for Guadalupe River Basin

Elizabeth Malloy



# What is an Integrated report?

- Every 2 years, TCEQ releases a report that describes the status of Texas surface waters, called the “Integrated Report” (IR)
- The IR lists and categorizes impaired waterbodies
- Draft 2024 Integrated Report has a new category 5r
  - 5r = A watershed protection plan is under development or accepted by EPA
- This presentation mainly focuses on updates to the 303(d) list in the Guadalupe River Basin
  - The 303(d) = list of waters that are impaired but do not have a management strategy already in place



For more info, visit  
[www.tceq.Texas.gov/waterquality/assessment](http://www.tceq.Texas.gov/waterquality/assessment)



# Overview of Draft 2024 Impairments: 303(d) List in the Guadalupe River Basin

Impairment	# of Segments Impaired
Bacteria	8
Dissolved Oxygen	3
Fish community	3
Macrobentic Community	3
Mercury in Fish Tissue	1
Total Dissolved Solids	1



# Delistings and Other Notable Changes



- All of Elm Creek (1803A) delisted for low dissolved oxygen
- AU\_01 of Sandies Creek (1803B) was delisted for low dissolved oxygen
- Camp Meeting Creek (1806A) was moved from Category 5a to 4a
  - Category 5a = a total maximum daily load is scheduled or underway
  - Category 4a = a total maximum daily load has been accepted by EPA



Sandies Creek

Segment	Water Body	Impairment	Impairment Year First Listed
1801	Guadalupe River Tidal	Bacteria	2022
1803B	Sandies Creek	Bacteria, Low Dissolved Oxygen	2002
1803C	Peach Creek	Bacteria, Low Dissolved Oxygen	2002 (Bac), 2006 (DO)
1804	Guadalupe River Below Comal River	Bacteria	2024
1804A	Geronimo Creek	Bacteria	2006
1805	Canyon Lake	Mercury in fish tissue	2006
1806	Guadalupe River Above Canyon Lake	Bacteria	2002
1811	Comal River	Bacteria	2016
1811A	Dry Comal Creek	Bacteria	2010
1814	Upper San Marcos River	Total Dissolved Solids	2010
1815	Cypress Creek	Impaired fish community, Impaired macrobenthic community, Low Dissolved Oxygen	2020
1817	North Fork Guadalupe River	Impaired fish community, Impaired macrobenthic community	2020
1818	South Fork Guadalupe River	Impaired fish community, Impaired macrobenthic community	2020

# 1804 Guadalupe River Below Comal River (Bacteria)



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- geometric mean =140.66 MPN/100 ml
- Based on 82 measurements between Dec. 2015 and Nov. 2022
- AU listed is directly downstream of Comal River, which is also impaired for bacteria
- Area would be affected by Lake Dunlap dewatering and resulting higher turbidities since May 2019
- With Lake Dunlap refilled, this may eventually delist



# 1814 Upper San Marcos River- (Total Dissolved Solids)



- 403 mg/L average Total Dissolved Solids over 26 data points
- Criteria is 400 mg/L, so only marginally impaired
- This stream has been on the IR 303d list and then was delisted in 2014



# 1815 Cypress Creek (Low Dissolved Oxygen)



- Impairment due to 7 data points (average value of 5.01 mg/L) that were lower than the 6.0 mg/L exceptional criteria
- Potential sources of water quality issues include failing septic systems, runoff, wildlife, urbanization
- Many instances of stream drying have been documented in multiple years



October 2021



August 2022

# Aquatic Life Monitoring Events

Kristyn Armitage



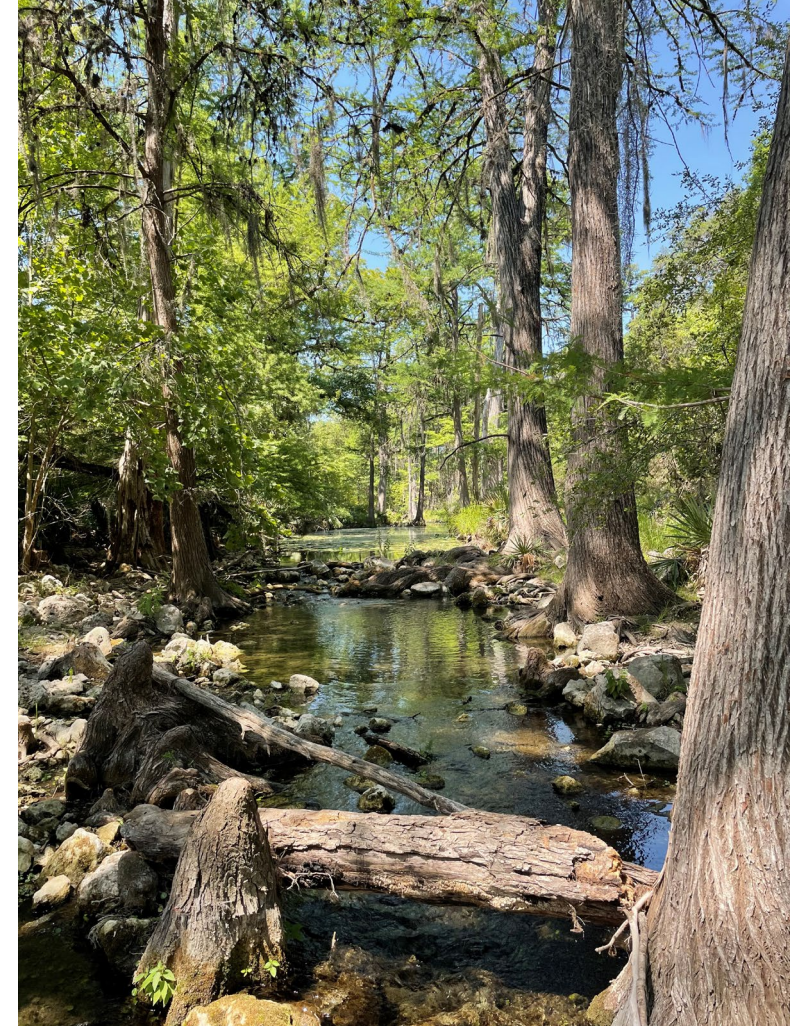
# GBRA FY23 Aquatic Life Monitoring Events



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FY23 ALM

- TCEQ Station 12684
  - South Fork Guadalupe adjacent to Hunt Lion's Park
- TCEQ Station 18595
  - Perdido Creek at FM622 Near Fannin, TX
- TCEQ Station 15399
  - Honey Creek at Guadalupe River State Park
- TCEQ Station 12685
  - South Fork Guadalupe adjacent to Camp Arrowhead





# TCEQ Station 12684 – South Fork Guadalupe adjacent to Hunt Lions Park



FY23 ALM



Aquatic Life Monitoring Events	Fish Community	Macroinvertebrate Community	Habitat
Aquatic Life Use Designation	Exceptional (>52)	Exceptional (>35)	Exceptional (26-31)
Currently Assessed Status*	Exceptional (52)*	Exceptional (36)*	Exceptional (26)*
FY22 Index Period Score	Exceptional (52)	High (31)	High (24)
FY23 Critical Period Score	High (48)	High (31)	High (23)
FY22-23 Average	Exceptional (50)	N/A	High (24)

\*Current Assessment Status Published in 2022 TCEQ Texas Integrated Report (12/01/2013 – 11/30/2020)

# TCEQ Station 18595 – Perdido Creek at FM 622 near Fannin, Texas



FY23 ALM



Aquatic Life Monitoring Events	Fish Community	Macroinvertebrate Community	Habitat
Aquatic Life Use Designation	Intermediate (31-38)	Intermediate (22-28)	Intermediate (14-19)
Currently Assessed Status*	Not Assessed*	Not Assessed*	Not Assessed*
FY22 Index Period Score	Limited (26)	Limited (21)	Intermediate (18)
FY23 Critical Period Score	Intermediate (35)	Limited (21)	Intermediate (19)
FY22-23 Average	Intermediate (31)	N/A	Intermediate (19)

\*Current Assessment Status Published in 2022 TCEQ Texas Integrated Report (12/01/2013 – 11/30/2020)

# TCEQ Station 15399 – Honey Creek in Guadalupe River State Park



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FY23 ALM



Aquatic Life Monitoring Events	Fish Community	Macroinvertebrate Community	Habitat
Aquatic Life Use Designation	High (42-51)	High (29-32)	High (20-25)
Currently Assessed Status*	Not Assessed*	Not Assessed*	Not Assessed*
FY23 Index Period Score	High (48)	Intermediate (25)	High (25)
FY23 Critical Period Score	High (46)	Intermediate (25)	High (25)
FY22-23 Average	High (47)	N/A	High (25)

\*Current Assessment Status Published in 2022 TCEQ Texas Integrated Report (12/01/2013 – 11/30/2020)

# TCEQ Station 12685 – South Fork Guadalupe adjacent to Camp Arrowhead



FY23 ALM



Aquatic Life Monitoring Events	Fish Community	Macroinvertebrate Community	Habitat
Aquatic Life Use Designation	Exceptional (>52)	Exceptional (>35)	Exceptional (20-25)
Currently Assessed Status*	Not Assessed*	Not Assessed*	Not Assessed*
FY23 Index Period Score	Exceptional (55)	High (34)	High (23)
FY23 Critical Period Score	Exceptional (54)	High (32)	High (21)
FY23 Average	Exceptional (55)	N/A	High (22)

\*Current Assessment Status Published in 2022 TCEQ Texas Integrated Report (12/01/2013 – 11/30/2020)

# GBRA FY24 Aquatic Life Monitoring Events



FY24 ALM

- **TCEQ Station 18665:**
  - Big Joshua Creek downstream of IH10 Northwest of Nelson City.
- **TCEQ Station 12682:**
  - North Fork Guadalupe at river gauging station near Camp Waldemar.



# TCEQ station 18665: Big Joshua Creek downstream of IH10 Northwest of Nelson City.



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FY24 ALM



Greenthroat Darter – *Etheostoma lepidum*



Slough Darter – *Etheostoma gracile*



# TCEQ station 12682: North Fork Guadalupe near Camp Waldemar



FY24 ALM



Gray Redhorse – *Moxostoma congestum*



Central Stoneroller – *Campestris anomalum*



# Questions?

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