



***Updated Water Bodies Not
Meeting State Criteria
and
FY2017 Proposed Monitoring***

***Presented by
Jenna Olson
Water Quality Programs***



Impairments - Basin Overview

In the 2014 IR:

Out of a total of 336 waterbody assessment units (AUs) evaluated...

- **105 waterbody AUs are listed as impaired on the draft 2014 303(d) List (≈31%)**
- **78 waterbody AUs are listed as impaired for elevated bacteria (≈23%)**
- **9 waterbody AUs are listed for dissolved oxygen Impairment (≈ 3%)**
- **12 waterbody AUs are listed as impaired for chloride, sulfate and/or TDS (≈ 4%)**
- **193 waterbody AUs are identified as having concerns based on screening levels for algal growth and/or elevated nutrients (≈ 57%)**
- **4 waterbody AUs were added to the impaired list and 14 waterbody AUs were de-listed**



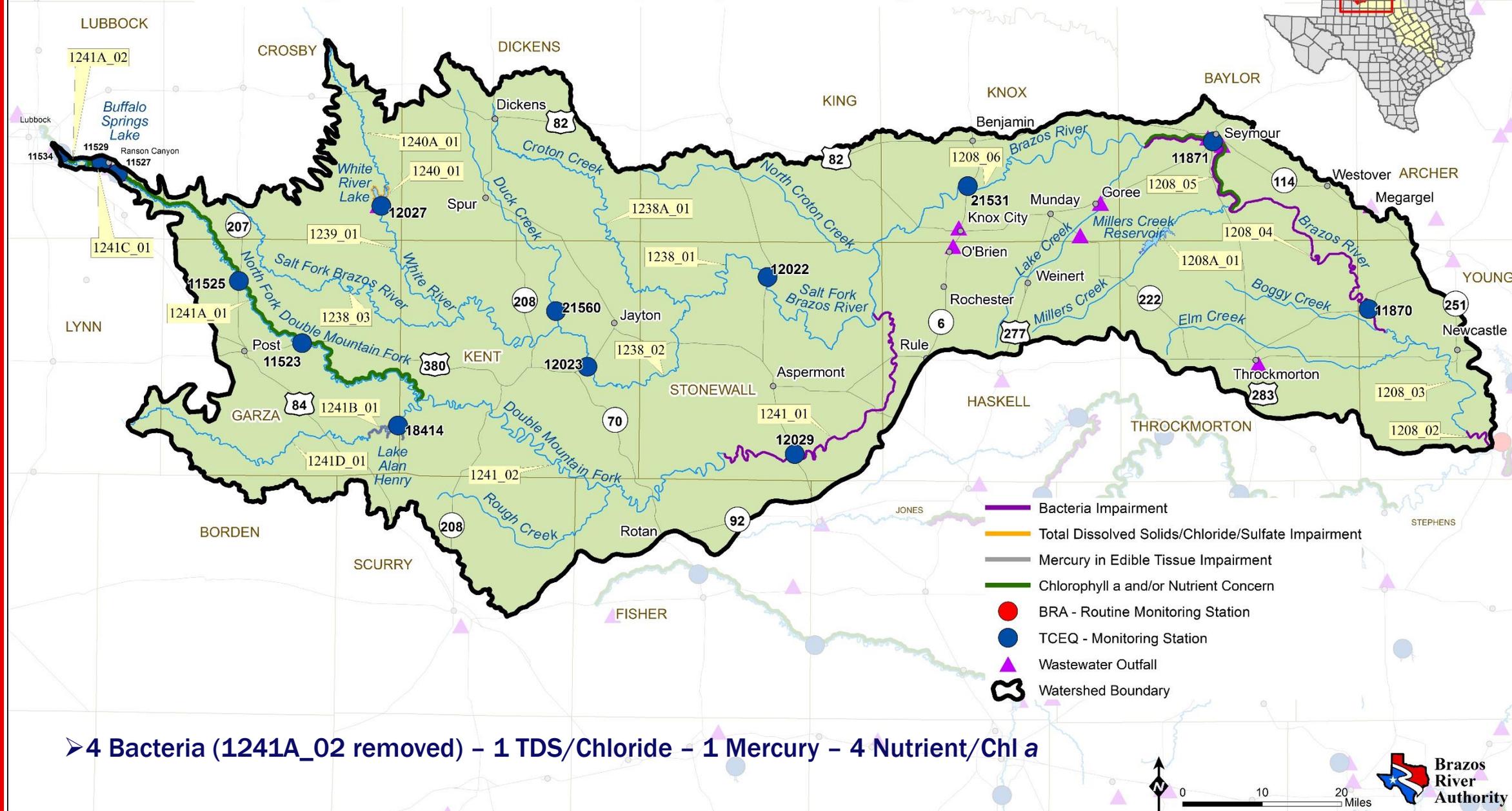
General Monitoring Strategy for FY 2017

- **Maintain current routine monitoring effort throughout the Basin.**
 - **There is potential to add additional stations if they can be incorporated into our current run schedule**

- **BRA will continue instream flow based biological monitoring in support of the BRA's Water Management Plan Environmental Studies**

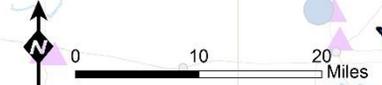
- **BRA will complete collection of 24-hour DO data as well as an Aquatic Life Assessment in the Navasota River Watershed.**

Watershed of the Salt and Double Mountain Forks of the Brazos River Proposed FY17 Water Quality Monitoring and 2014 IR Status



- Bacteria Impairment
- Total Dissolved Solids/Chloride/Sulfate Impairment
- Mercury in Edible Tissue Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ▲ Wastewater Outfall
- Watershed Boundary

➤ 4 Bacteria (1241A_02 removed) – 1 TDS/Chloride – 1 Mercury – 4 Nutrient/Chl a

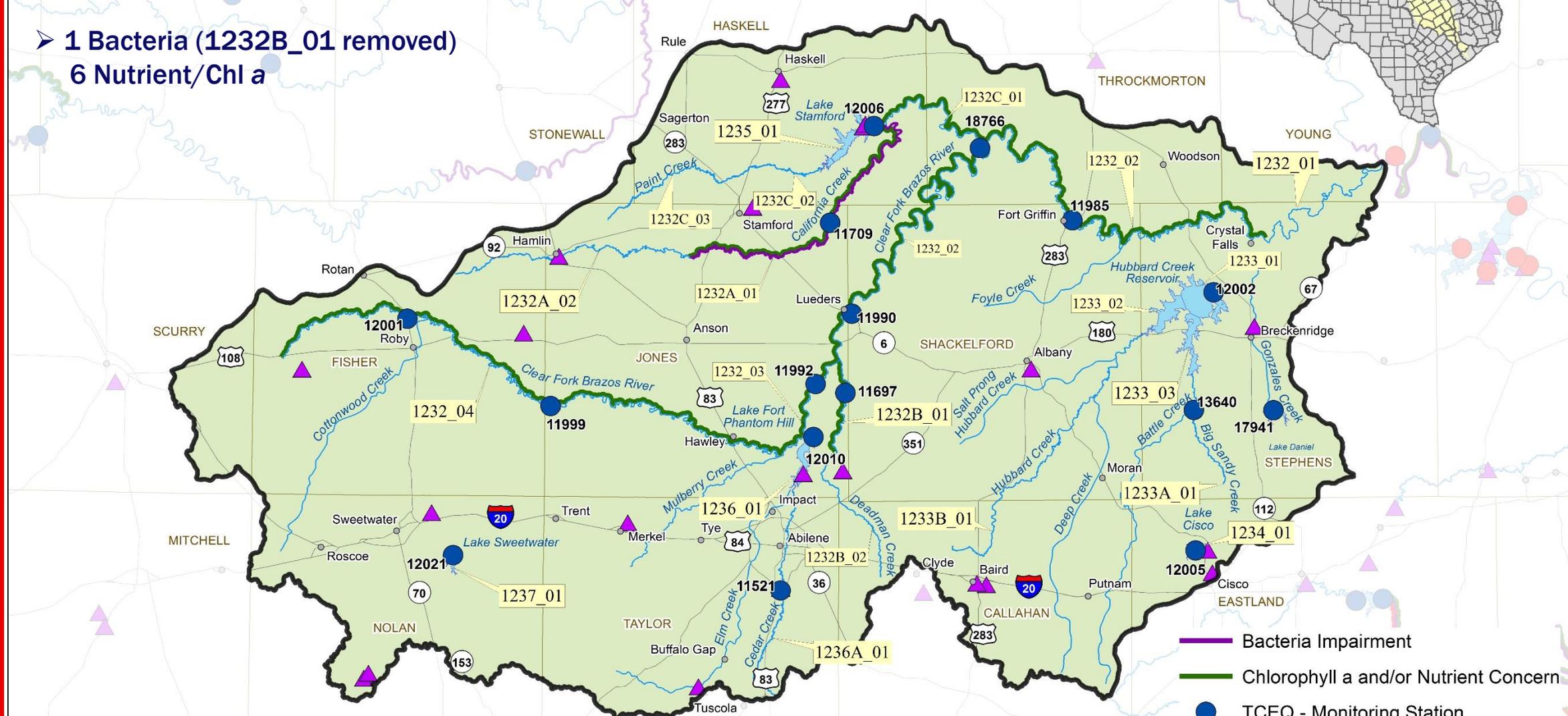
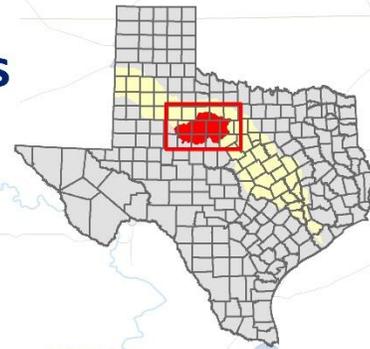




Watershed of the Clear Fork of the Brazos River

Proposed FY17 Water Quality Monitoring and 2014 IR Status

➤ **1 Bacteria (1232B_01 removed)**
6 Nutrient/Chl a



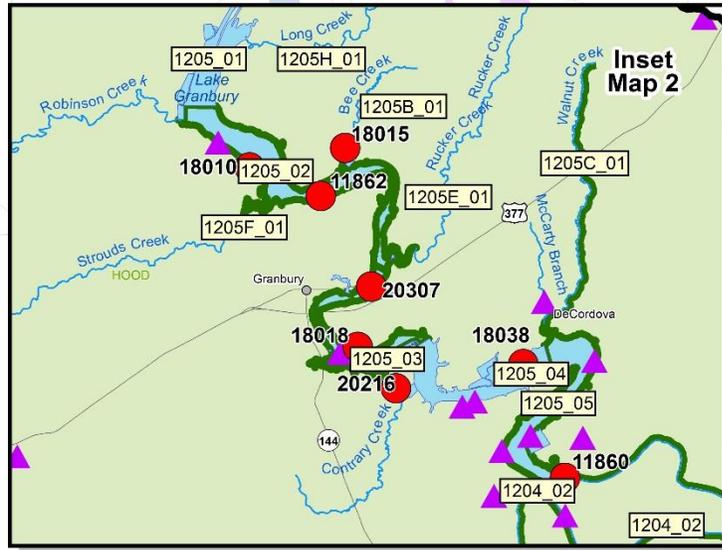
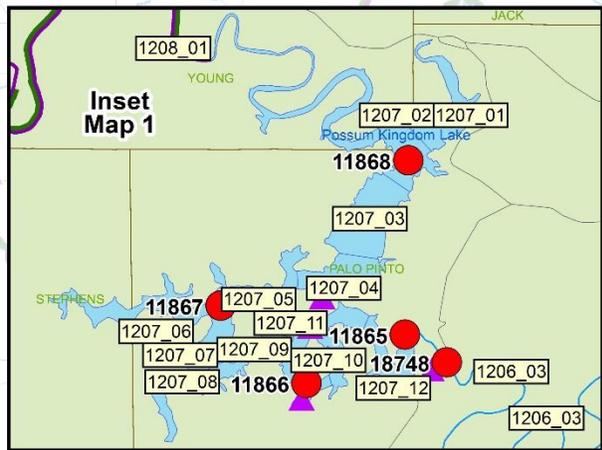
0 10 20 Miles



Upper Watershed of the Brazos River Proposed FY17 Water Quality Monitoring and 2014 IR Status

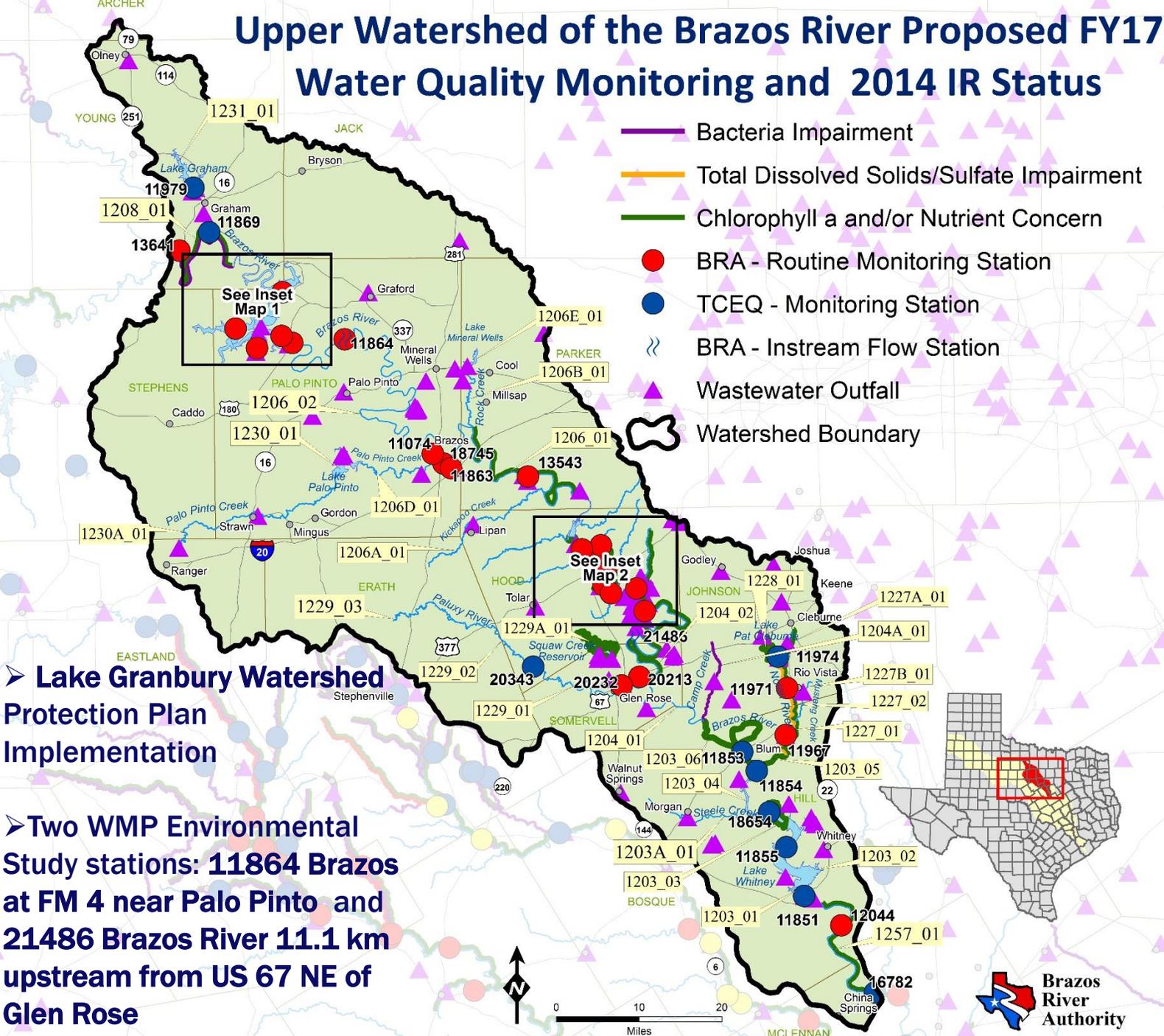
- 2 Bacteria
- 1 TDS/Sulfate
- 16 Nutrient/Chl a

- Bacteria Impairment
- Total Dissolved Solids/Sulfate Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ⋈ BRA - Instream Flow Station
- ▲ Wastewater Outfall
- ⬢ Watershed Boundary



➤ **Lake Granbury Watershed Protection Plan Implementation**

➤ **Two WMP Environmental Study stations: 11864 Brazos at FM 4 near Palo Pinto and 21486 Brazos River 11.1 km upstream from US 67 NE of Glen Rose**



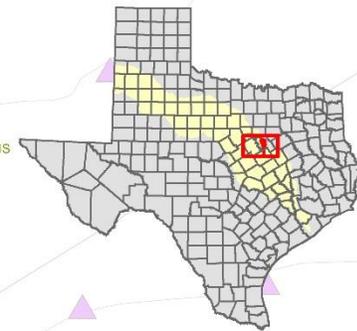
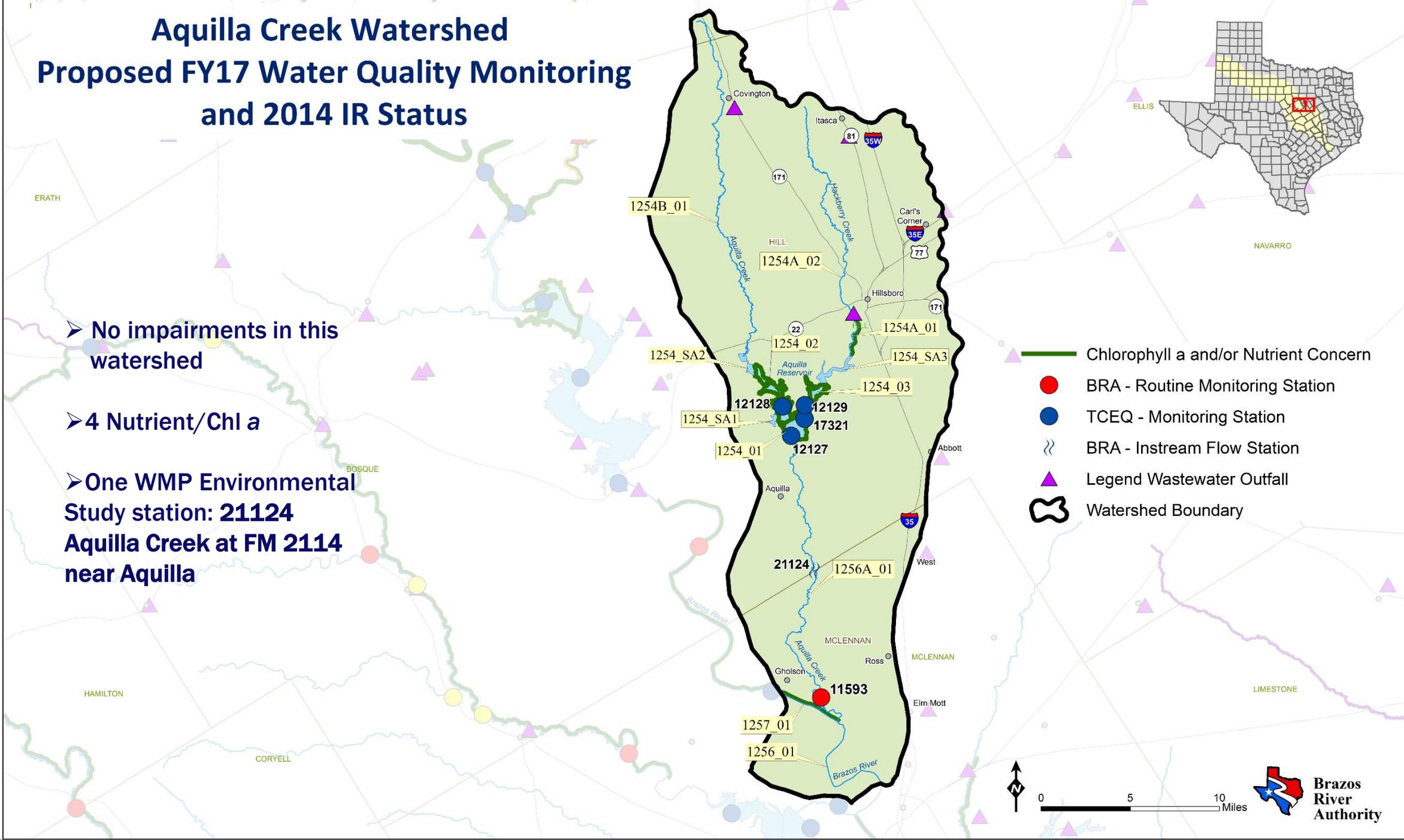


Aquilla Creek Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status

➤ No impairments in this watershed

➤ 4 Nutrient/Chl a

➤ One WMP Environmental Study station: **21124**
Aquilla Creek at FM 2114
near Aquilla



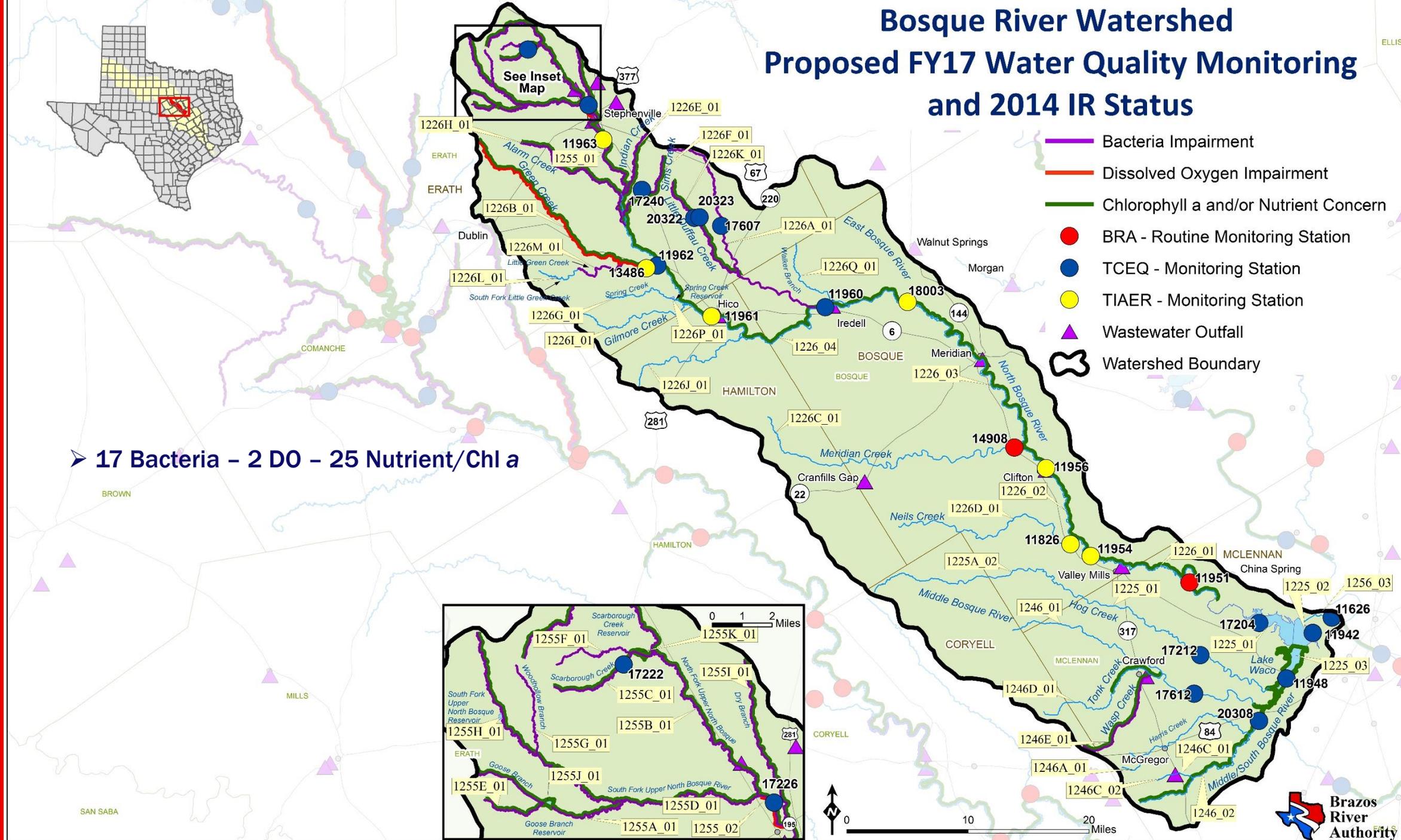
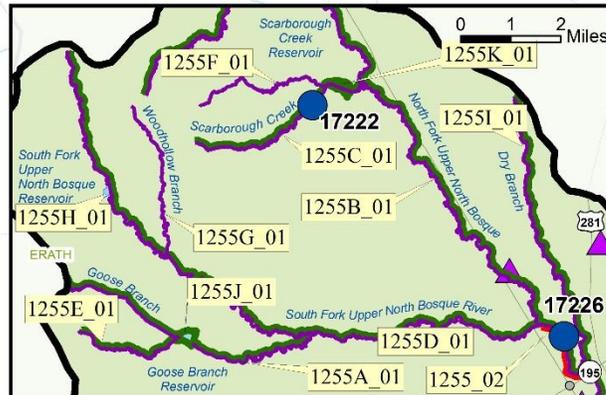
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ≈ BRA - Instream Flow Station
- ▲ Legend Wastewater Outfall
- ⬭ Watershed Boundary

Bosque River Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status



- Bacteria Impairment
- Dissolved Oxygen Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- TIAER - Monitoring Station
- ▲ Wastewater Outfall
- Watershed Boundary

➤ **17 Bacteria - 2 DO - 25 Nutrient/Chl a**

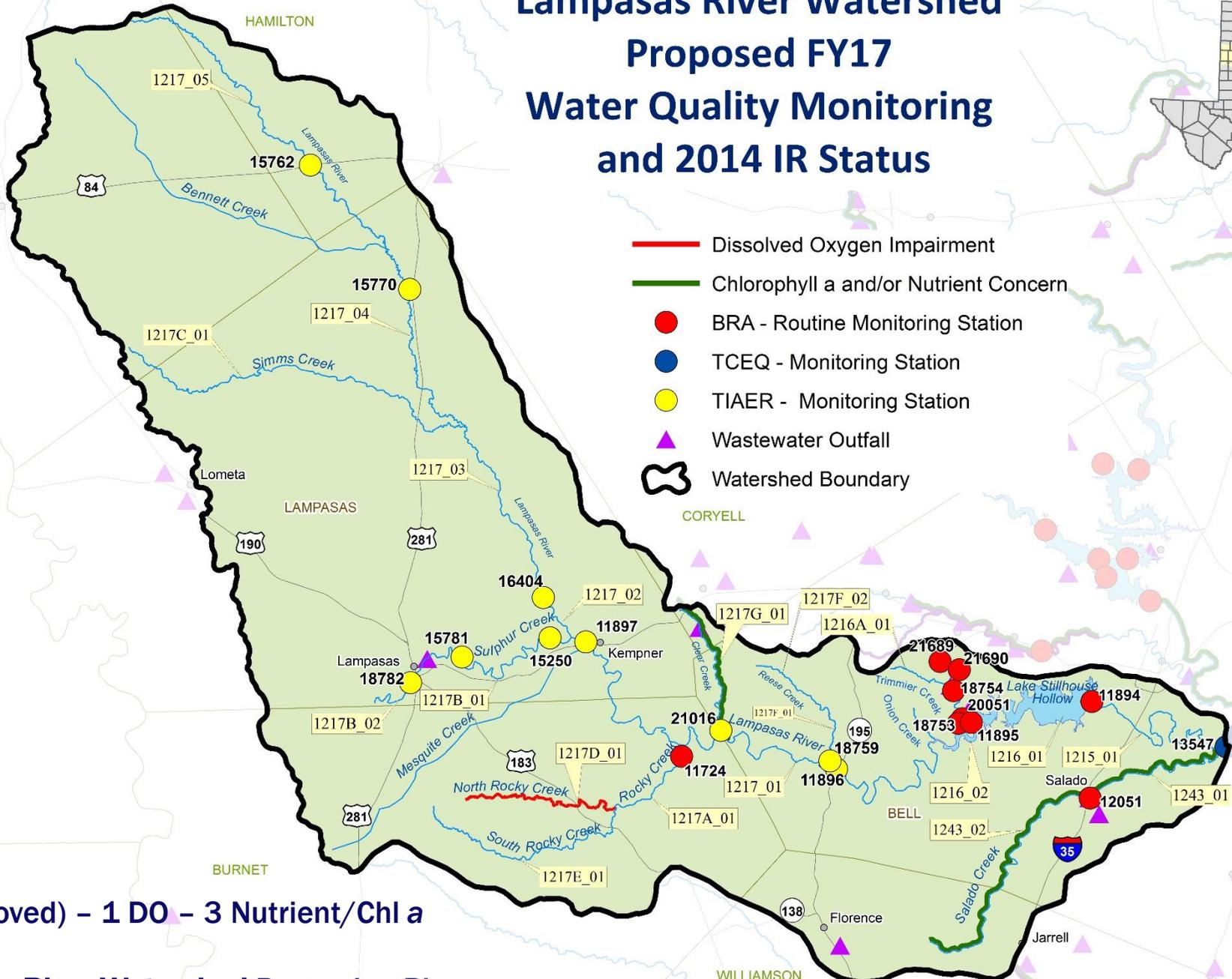




Lamparas River Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status

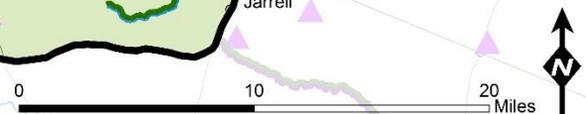


- Dissolved Oxygen Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- TIAER - Monitoring Station
- ▲ Wastewater Outfall
- Watershed Boundary



➤ (1216A_01 removed) - 1 DO - 3 Nutrient/Chl a

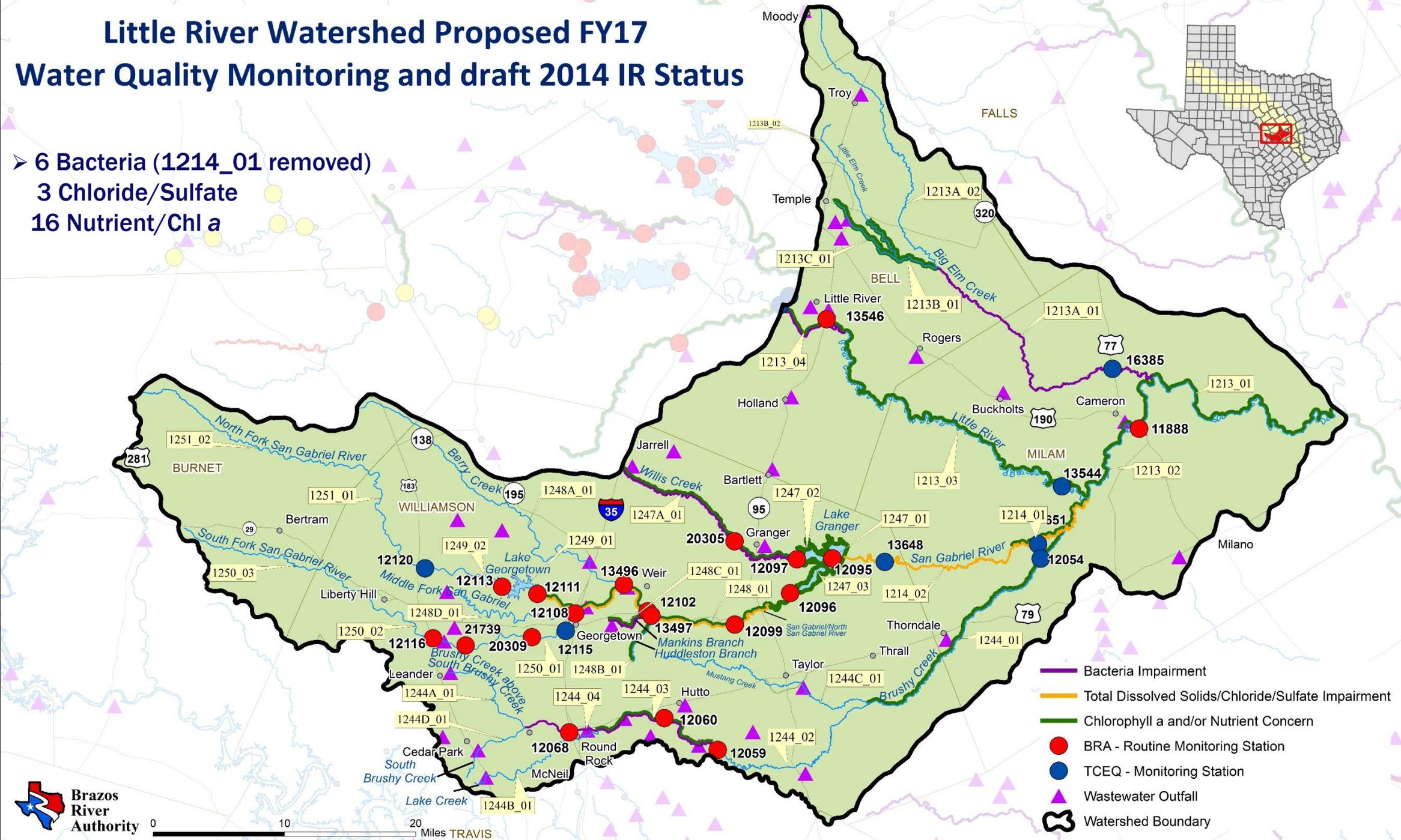
➤ 1217 - Lamparas River Watershed Protection Plan





Little River Watershed Proposed FY17 Water Quality Monitoring and draft 2014 IR Status

- 6 Bacteria (1214_01 removed)
- 3 Chloride/Sulfate
- 16 Nutrient/Chl a



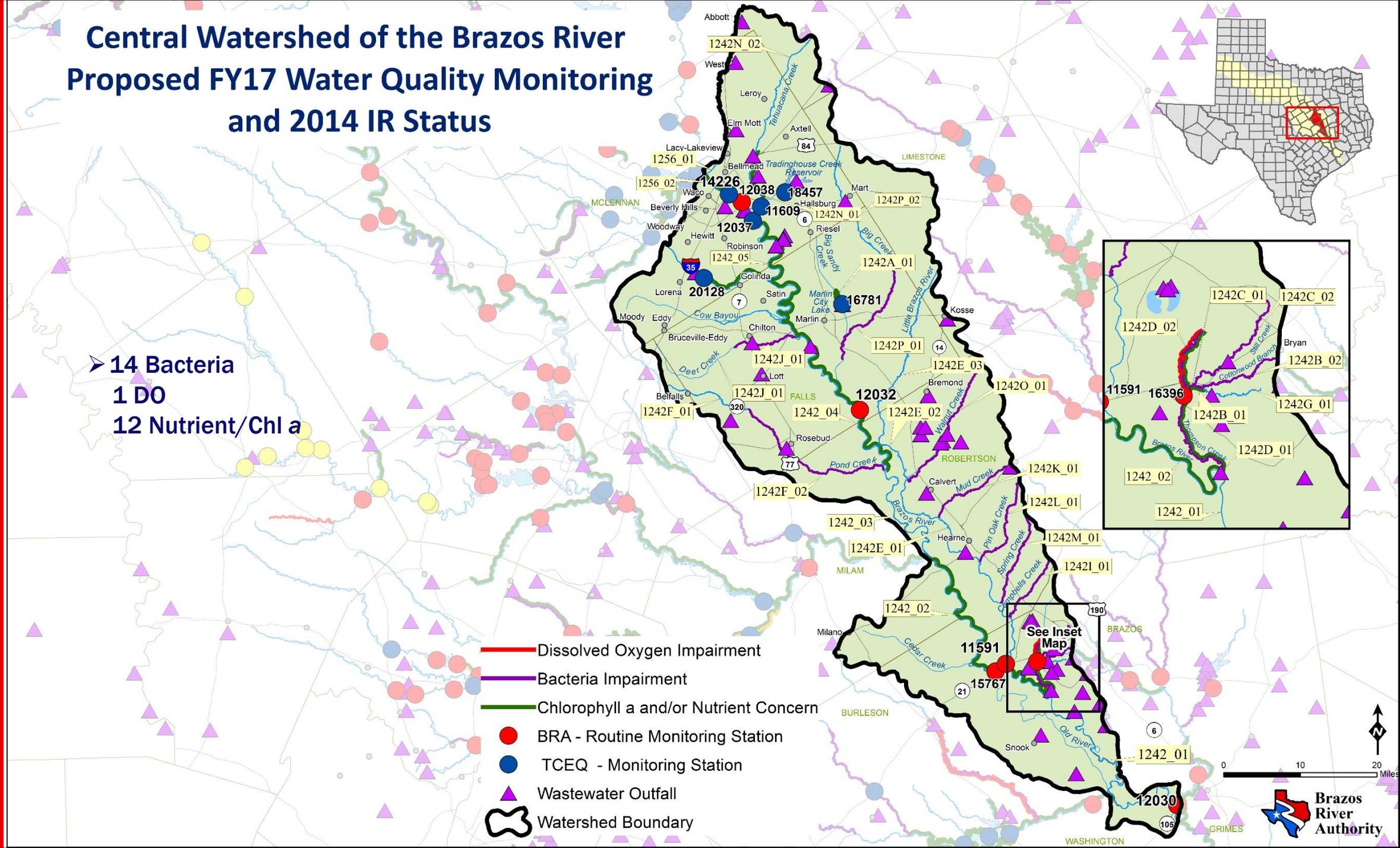
- Bacteria Impairment
- Total Dissolved Solids/Chloride/Sulfate Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ▲ Wastewater Outfall
- ⬮ Watershed Boundary



Central Watershed of the Brazos River Proposed FY17 Water Quality Monitoring and 2014 IR Status

➤ 14 Bacteria
1 DO
12 Nutrient/Chl a

- Dissolved Oxygen Impairment
- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ▲ Wastewater Outfall
- Watershed Boundary





- 8 Bacteria (1209C,D,G,L removed);
1 DO
9 Nutrient/Chl a

- Special project collecting 24-hour DO measurements in **Lake Mexia, Springfield Lake (Ft. Parker) and Duck Creek ALA**

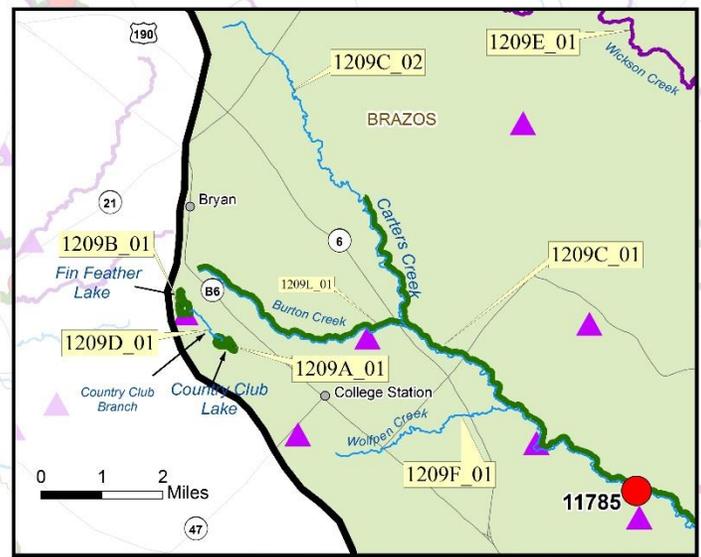
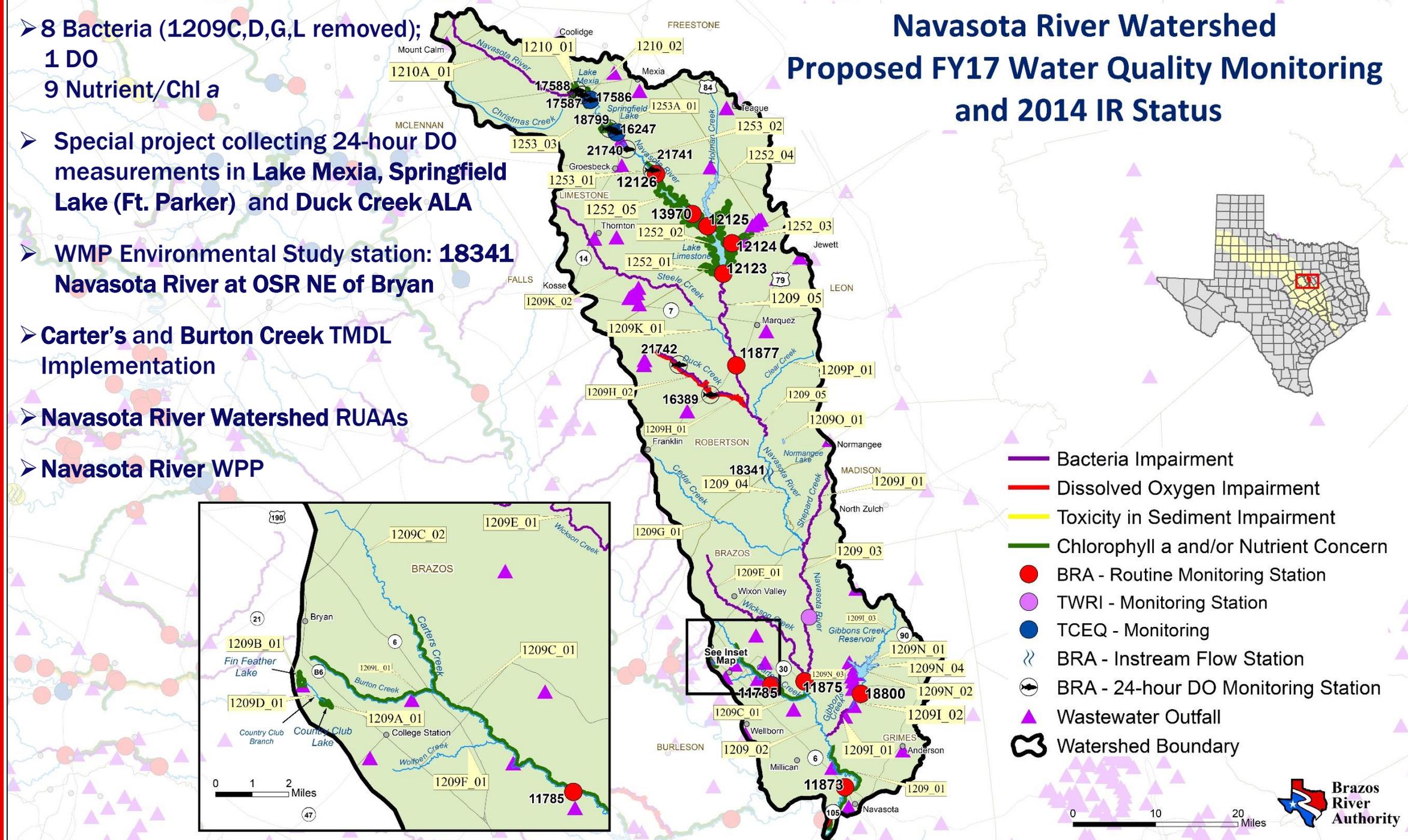
- WMP Environmental Study station: **18341 Navasota River at OSR NE of Bryan**

- **Carter's and Burton Creek TMDL Implementation**

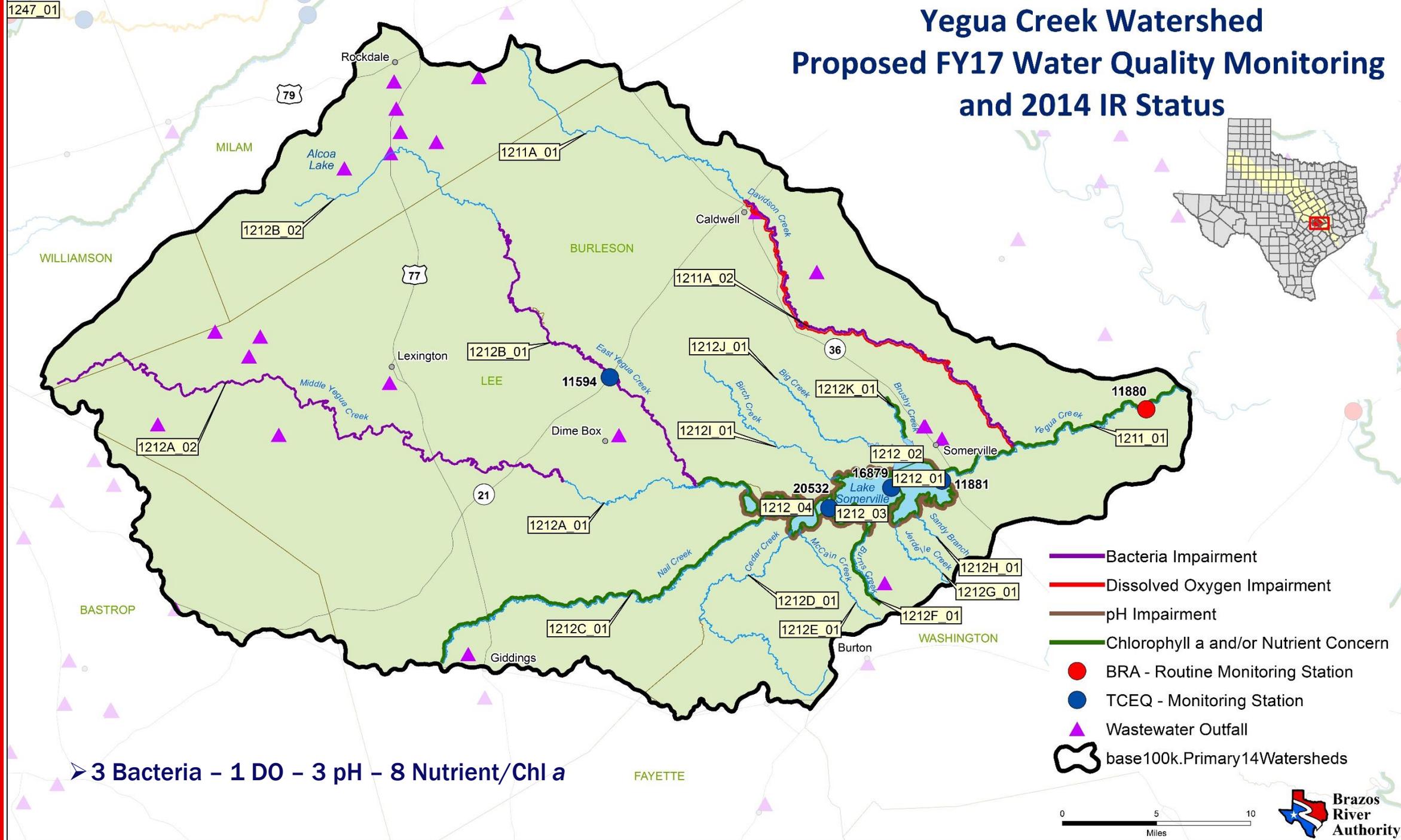
- **Navasota River Watershed RUAAs**

- **Navasota River WPP**

Navasota River Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status

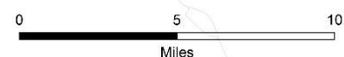


Yegua Creek Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status



➤ 3 Bacteria - 1 DO - 3 pH - 8 Nutrient/Chl a

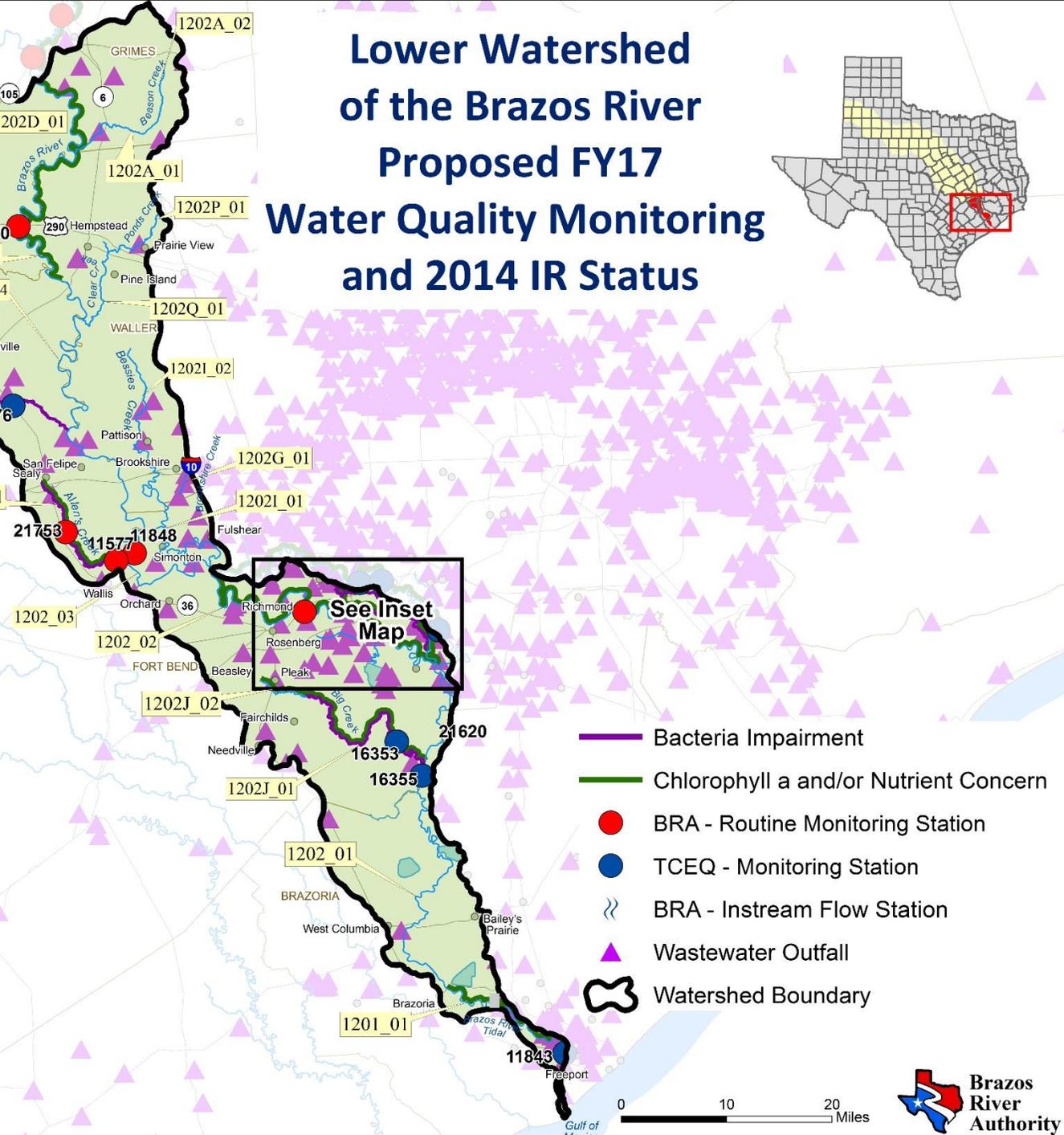
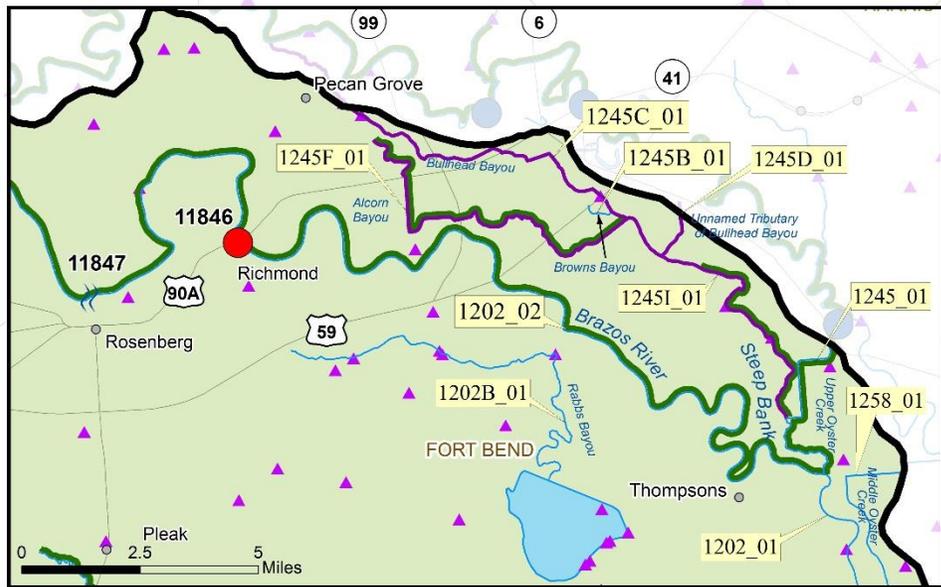
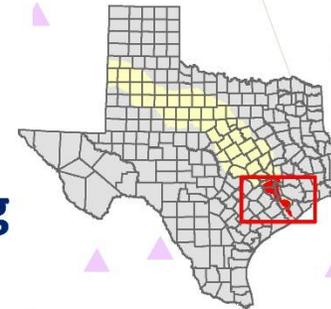
- Bacteria Impairment
- Dissolved Oxygen Impairment
- pH Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ▲ Wastewater Outfall
- base100k.Primary14Watersheds





- 7 Bacteria
- 8 Nutrient/Chl a
- Two WMP Environmental Study stations: 21620 - Brazos River upstream of FM 1462 W of Rosharon and 11847 - Brazos River at FM 723 N of Rosenberg

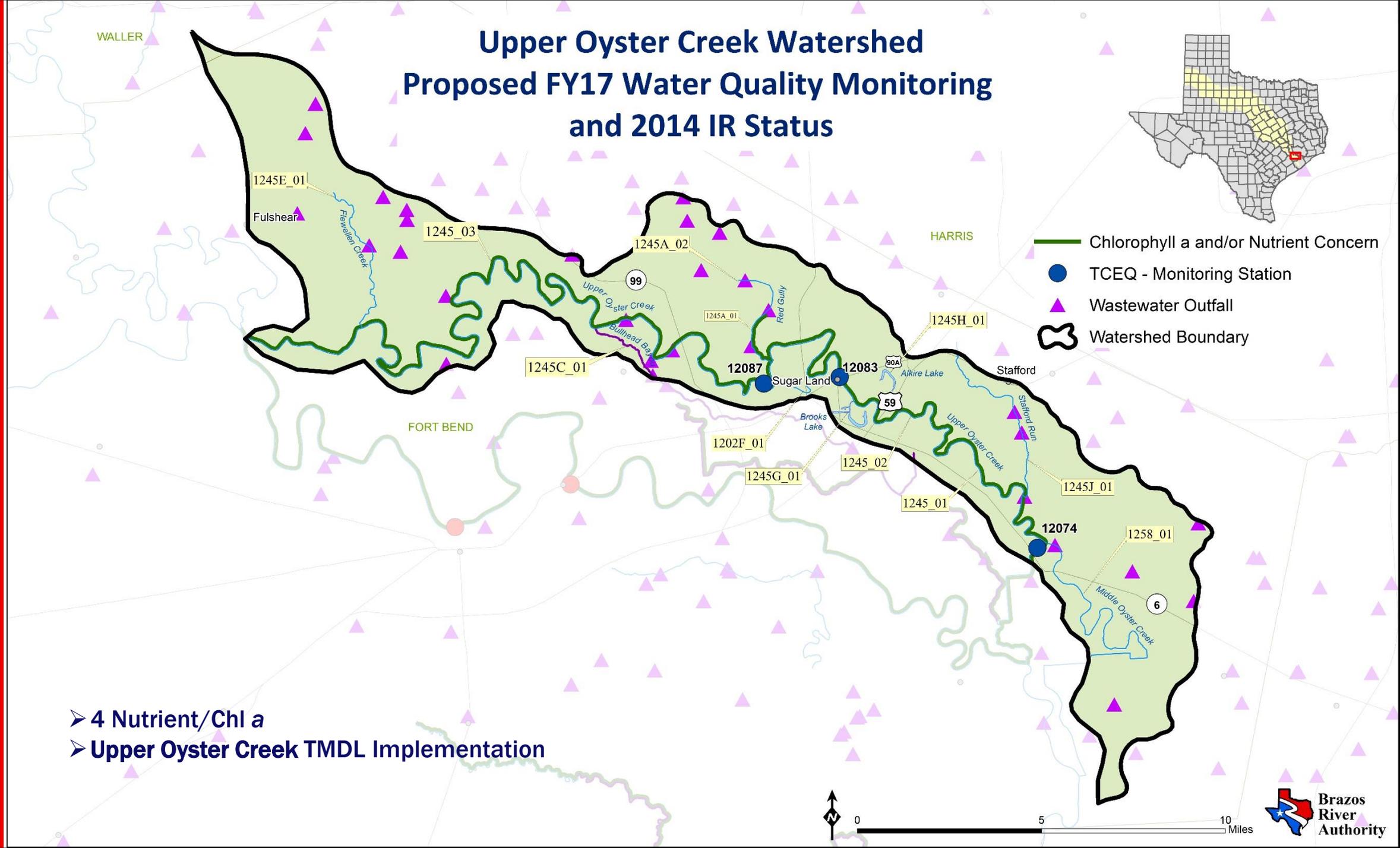
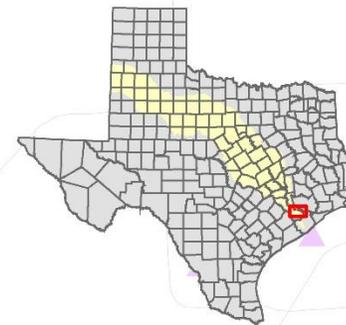
Lower Watershed of the Brazos River Proposed FY17 Water Quality Monitoring and 2014 IR Status



- Bacteria Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Monitoring Station
- ⋯ BRA - Instream Flow Station
- ▲ Wastewater Outfall
- ⬭ Watershed Boundary



Upper Oyster Creek Watershed Proposed FY17 Water Quality Monitoring and 2014 IR Status



- Chlorophyll a and/or Nutrient Concern
- TCEQ - Monitoring Station
- Wastewater Outfall
- Watershed Boundary

- 4 Nutrient/Chl a
- Upper Oyster Creek TMDL Implementation





Brazos
River
Authority