Update on Waterbodies Not Meeting State Criteria and FY2019 Proposed Monitoring

Presented by
Jenna Olson
Environmental Programs Coordinator

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Impairments - Basin Overview

In the 2014 IR:

Out of a total of 205 waterbodies (336 Assessment units (AUs)) evaluated...

- 78 waterbodies (105 AUs) are listed as impaired on the draft 2014 303(d) List (≈38%/≈31%)
- 66 waterbodies (78 AUs) are listed as impaired for elevated bacteria (≈32%/≈23%)
- 8 waterbodies (9 Aus) are listed for dissolved oxygen Impairment (≈4%/≈3%)
- 4 waterbodies (6 AUs) are listed as impaired for chloride, sulfate and/or TDS (≈2%/≈2%)
- 99 waterbodies (193 AUs) are identified as having concerns based on screening levels for algal growth and/or elevated nutrients (≈48%/≈57%)
- 4 waterbody AUs were added to the impaired list and 14 waterbody AUs were de-listed (as compared to the 2012 IR)
General Monitoring Strategy for FY 2019

- Maintain current routine monitoring effort throughout the Basin. BRA currently routinely monitors 105 stations.
  - There is potential to add additional stations if they can be incorporated into our current run schedule
  - In instances where stations are dropped, we will negotiate in the Coordinated Monitoring Meeting to pick up stations and maintain effort throughout the basin

- BRA will continue instream flow based biological monitoring in support of the BRA’s Water Management Plan Environmental Studies and share data with CRP/SWQM as possible

- BRA will perform native and endangered mussel monitoring as negotiated with the USFWS.
Watershed of the Salt and Double Mountain Forks of the Brazos River Proposed FY19 Water Quality Monitoring and 2014 IR Status

- 2 (4 AUs) Bacteria – 1 TDS/Chloride – 1 Mercury – 3 (4 AUs) Nutrient/Chl a
Watershed of the Clear Fork of the Brazos River
Proposed FY19 Water Quality Monitoring and 2014 IR Status

- 1 Bacteria
- 4 (6 AUs) Nutrient/Chl a
Upper Watershed of the Brazos River Proposed FY19 Water Quality Monitoring and 2014 IR Status

- 2 Bacteria
- 1 (2 AUs) TDS/Sulfate
- 11 (16 AUs) Nutrient/Chl a

Two WMP Environmental Study stations:
- 11864 Brazos at FM 4 near Palo Pinto
- 21486 Brazos River 11.1 km upstream from US 67 NE of Glen Rose
Aquilla Creek Watershed
Proposed FY19 Water Quality Monitoring and 2014 IR Status

- No impairments in this watershed
- 2 (4 AUs) Nutrient/Chl a
- One WMP Environmental Study station: 21124 Aquilla Creek at FM 2114 near Aquilla
- 16 (17 AUs) Bacteria
  - 2 DO
- 21 (25 AUs) Nutrient/Chl a
- 15 waterbodies have recommendations resulting from RUAA's, none are officially changed in standards yet
- Potential for 8 waterbodies to be removed from the 303d list for bacteria
- 12 (15 AUs) Bacteria
- 2 DO
- 22 Nutrient/Chl a
- 1221 - Leon River WPP
- Priority Designation by USDA
- 1218 – Nolan Creek Watershed Partnership and WPP

**Leon River Watershed**
Proposed FY19 Water Quality Monitoring and 2014 IR Status

- Inset 2
- Inset 3
- Inset
Lampasas River Watershed Proposed FY19 Water Quality Monitoring and 2014 IR Status

- **1 DO**
- **2 (3 AUs) Nutrient/Chl a**
- **1217 - Lampasas River Watershed Protection Plan**
Little River Watershed Proposed FY19 Water Quality Monitoring and draft 2014 IR Status

- 5 (6 AUs) Bacteria
- 2 (3 AUs) Chloride/Sulfate/TDS
- 10 (16 AUs) Nutrient/Chl a

- 1213A - Big Elm Creek Watershed Protection Plan
Central Watershed of the Brazos River
Proposed FY19 Water Quality Monitoring
and 2014 IR Status

- 11 (14 AUs) Bacteria
- 1 DO
- 8 (12 AUs) Nutrient/Chl a
- 11 recommendations from completed RUAAAs
- Potential 2 waterbodies removed from 303d list
- TIAER visual periphyton assessment

Dissolved Oxygen Impairment
Bacteria Impairment
Chlorophyll a and/or Nutrient Concern
BRA - Routine Monitoring Station
TCEQ - Routine Monitoring Station
TIAER - Special Study Station
Wastewater Outfall
- 7 (9 AUs) Bacteria
- 1 (2 AUs) DO
- 9 (13 AUs) Nutrient/Chl a
- 7 recommendations from completed RUAAAs
- Potential 6 waterbodies removed from 303d list
- Carter’s and Burton Creek TMDL Implementation
- Navasota River WPP and TMDL
- TIAER visual periphyton assessment

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Navasota River Watershed
Proposed FY19 Water Quality Monitoring and 2014 IR Status

- WMP Environmental Study station: **18341 Navasota River at OSR NE of Bryan**
- 3 Bacteria
- 1 DO
- 1 (3 AUs) pH
- 6 (8 AUs) Nutrient/Chl a

- 3 recommendations from completed RUAA's
- Potential 1 waterbody removed from 303d list
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

Biological assessment on two stations on Allen’s Creek 21621 and 11577
Upper Oyster Creek Watershed
Proposed FY19 Water Quality Monitoring and 2014 IR Status

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