Update on Waterbodies Not Meeting State Criteria and FY2018 Proposed Monitoring

Presented by
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Meeting Date: April 13, 2017
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)
Maintain current routine monitoring effort throughout the Basin. BRA currently routinely monitors 107 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 biological assessments on two stations on Allen’s Creek and on the long-term station, the Bosque River at Cooper’s Crossing.
Watershed of the Salt and Double Mountain Forks of the Brazos River
Proposed FY18 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 FY18 Water Quality Monitoring and 2014 IR Status

- 1 Bacteria
- 4 (6 AUs) Nutrient/Chl a
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
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 RUAs
  none are officially changed in standards yet

• Potential for 8 waterbodies to be removed from the 303d list for bacteria
- 12 (15 AUs) Bacteria
- DO
- 22 Nutrient/Chl a
- 1221 - Leon River WPP
- Priority Designation by USDA
- 1218 - Nolan Creek Watershed Partnership and WPP

Leon River Watershed
Proposed FY18 Water Quality Monitoring and 2014 IR Status

Bacteria
DO Nutrient/Chl a
Leon River WPP
Priority Designation by USDA
1218 – Nolan Creek Watershed Partnership and WPP

Map showing Leon River Watershed with various monitoring stations marked.

Map inset showing specific locations including Belton Lakes, Nolan Creek, and Copperas Cove.

Legend:
- Bacteria Impairment
- Dissolved Oxygen Impairment
- Chlorophyll a and/or Nutrient Concern
- BRA - Routine Monitoring Station
- TCEQ - Routine Monitoring Station
- TIAER - Special Study Station
- Wastewater Outfall
- Watershed Boundary
1 DO
2 (3 AUs) Nutrient/Chl a

1217 - Lampasas River Watershed Protection Plan
Little River Watershed Proposed FY18 Water Quality Monitoring and draft 2014 IR Status

- 5 (6 AUs) Bacteria
- 2 (3 AUs) Chloride/Sulfate/TDS
- 10 (16 AUs) Nutrient/Chl a
Central Watershed of the Brazos River
Proposed FY18 Water Quality Monitoring
and 2014 IR Status

- 11 (14 AUs) Bacteria
  1 DO
- 8 (12 AUs) Nutrient/Chl a
- 11 recommendations from completed RUAAs
- Potential 2 waterbodies removed from 303d list
- TIAER visual periphyton assessment
- 7 (9 AUs) Bacteria
- 1 (2 AUs) DO
- 9 (13 AUs) Nutrient/Chl a
- 7 recommendations from completed RUAAs
- Potential 6 waterbodies removed from 303d list
- Carter's and Burton Creek TMDL Implementation
- Navasota River WPP
- TIAER visual periphyton assessment

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 FY18 Water Quality Monitoring
and 2014 IR Status

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