

# Greater Trinity Bacteria TMDL I-Plan Coordination Committee Meeting

Regional Forum Room

June 13, 2019

# TMDL Addendums via Texas Water Quality Management Plan

Jason Leifester,  
Texas Commission on Environmental Quality

# Status of TCEQ Project: Indicator Bacteria TMDL North Fork Fish Creek

TCEQ TMDL Project Manager

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June 13, 2019

# Acknowledgements

- Agency Lead:  
Texas Commission on Environmental Quality (TCEQ)
- Support Funding:  
U.S. Environmental Protection Agency (EPA)

# Major Presentation Topics

- Previously completed TMDLs
- Overview & status of present TMDL project
- Fundamentals of TMDL equation



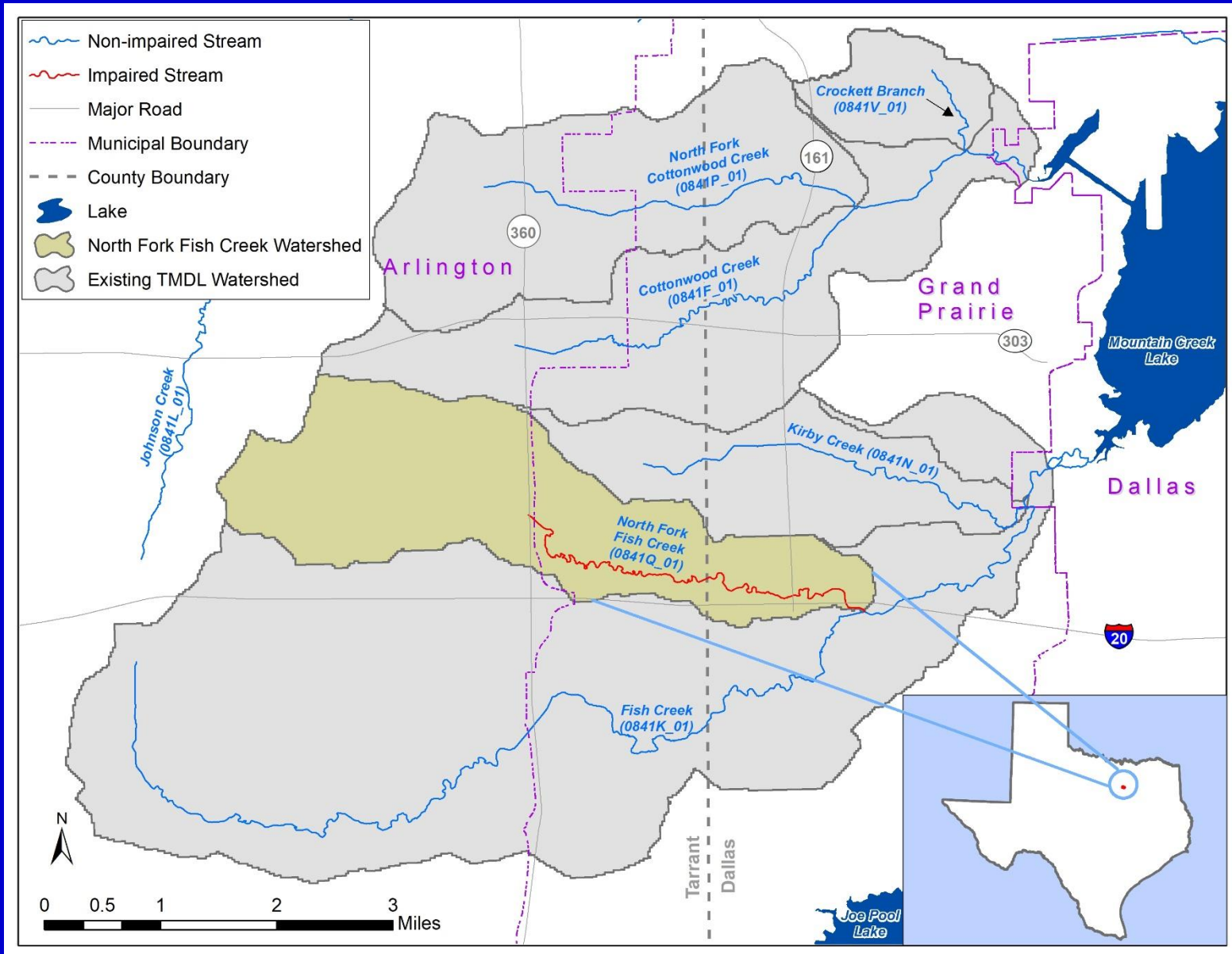
North Fork Fish Creek, Station 17678

# Previously Completed Indicator Bacteria TMDLs for Watersheds Upstream of Mountain Creek Lake

Adopted by TCEQ: Nov. 2, 2016; Approved by EPA: Dec. 7, 2016

- Crockett Branch 0841V\_01 (entire segment);
- Cottonwood Creek 0841F\_01 (entire segment);
- Kirby Creek 0841N\_01 (entire segment);
- Fish Creek 0841K\_01 (entire segment);

# Previously Completed TMDLs: Lower West Fork Trinity River

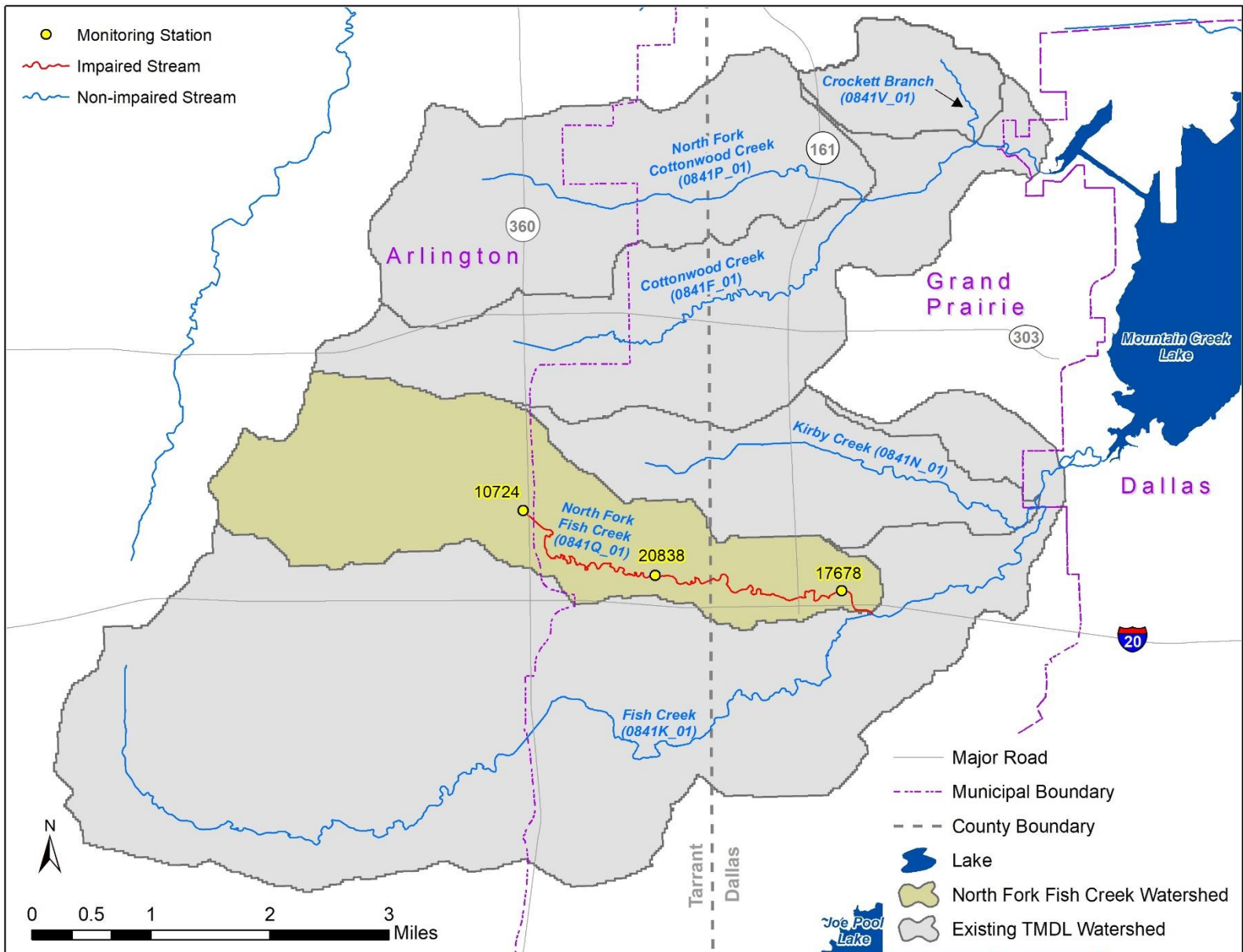


*Addendum to Four TMDLs for Indicator  
Bacteria in the Cottonwood Creek, Fish Creek,  
Kirby Creek, and Crockett Branch Watersheds  
Upstream of Mountain Creek Lake*

- Project water body
  - North Fork Fish Creek (0841Q\_01)
- Approach for TMDL – FDCs/LDCs



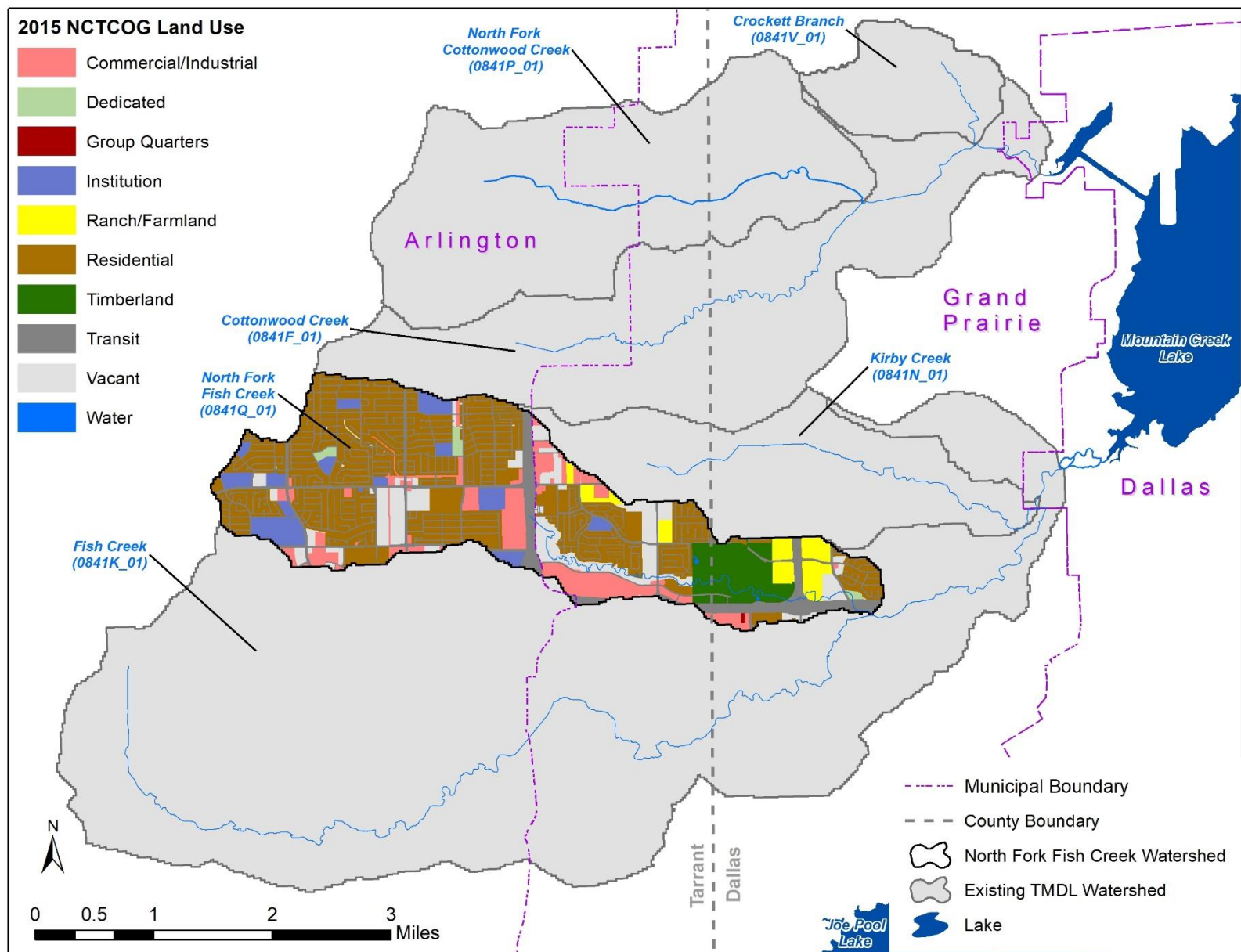
# TMDL Project Area



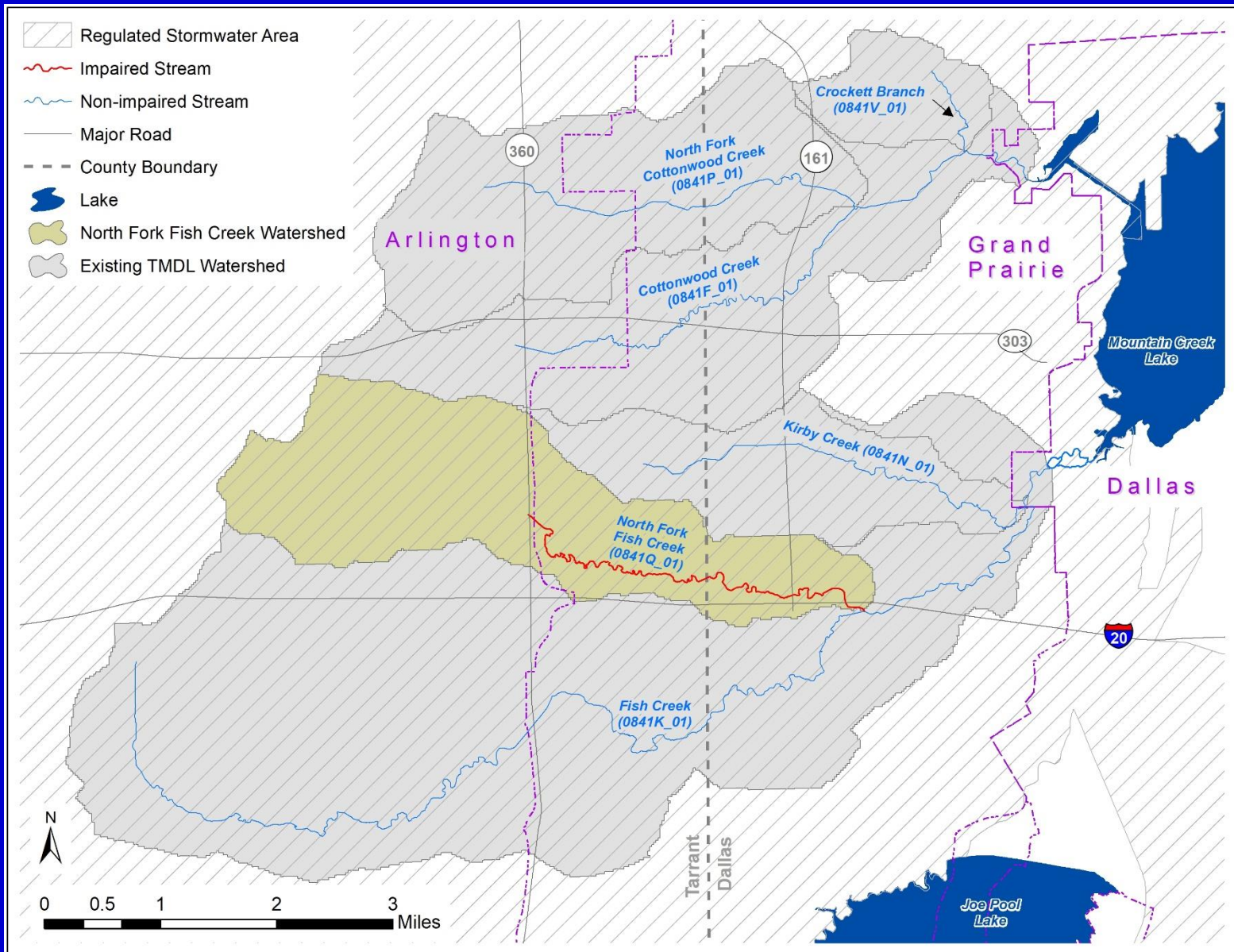
# Draft 2016 Integrated Report Findings for *E. coli* Assessment (criterion = 126 MPN/100 mL)

Water Body	Assessment Unit (AU)	Date Range	No. of Samples	Geometric Mean (MPN/100 mL)
North Fork Fish Creek	0841Q_01	2007-2014	84	183

# 2015 Land Use/Land Cover (Source: NCTCOG)

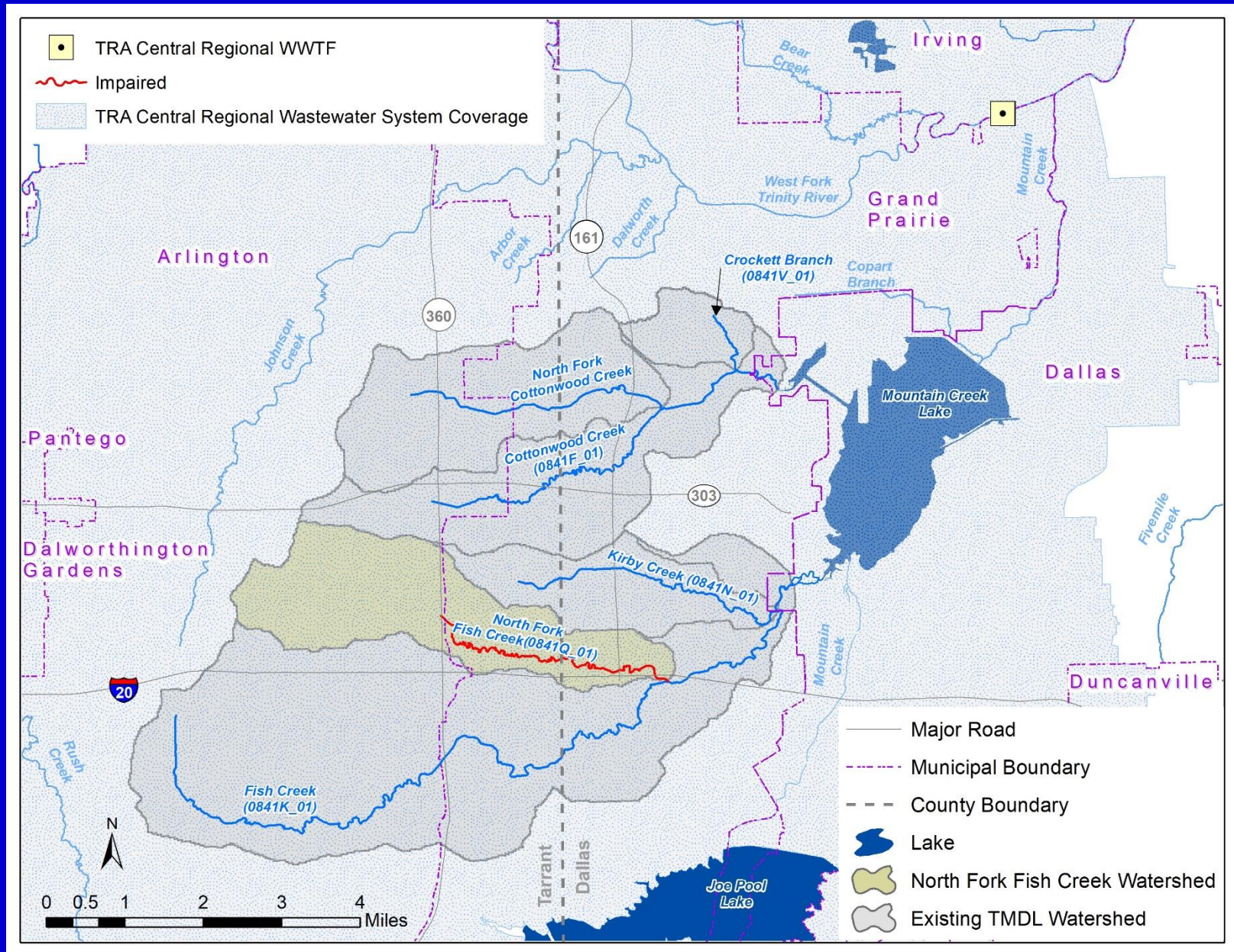


# Municipal Separate Storm Sewer System Area (Source: US Census Bureau)

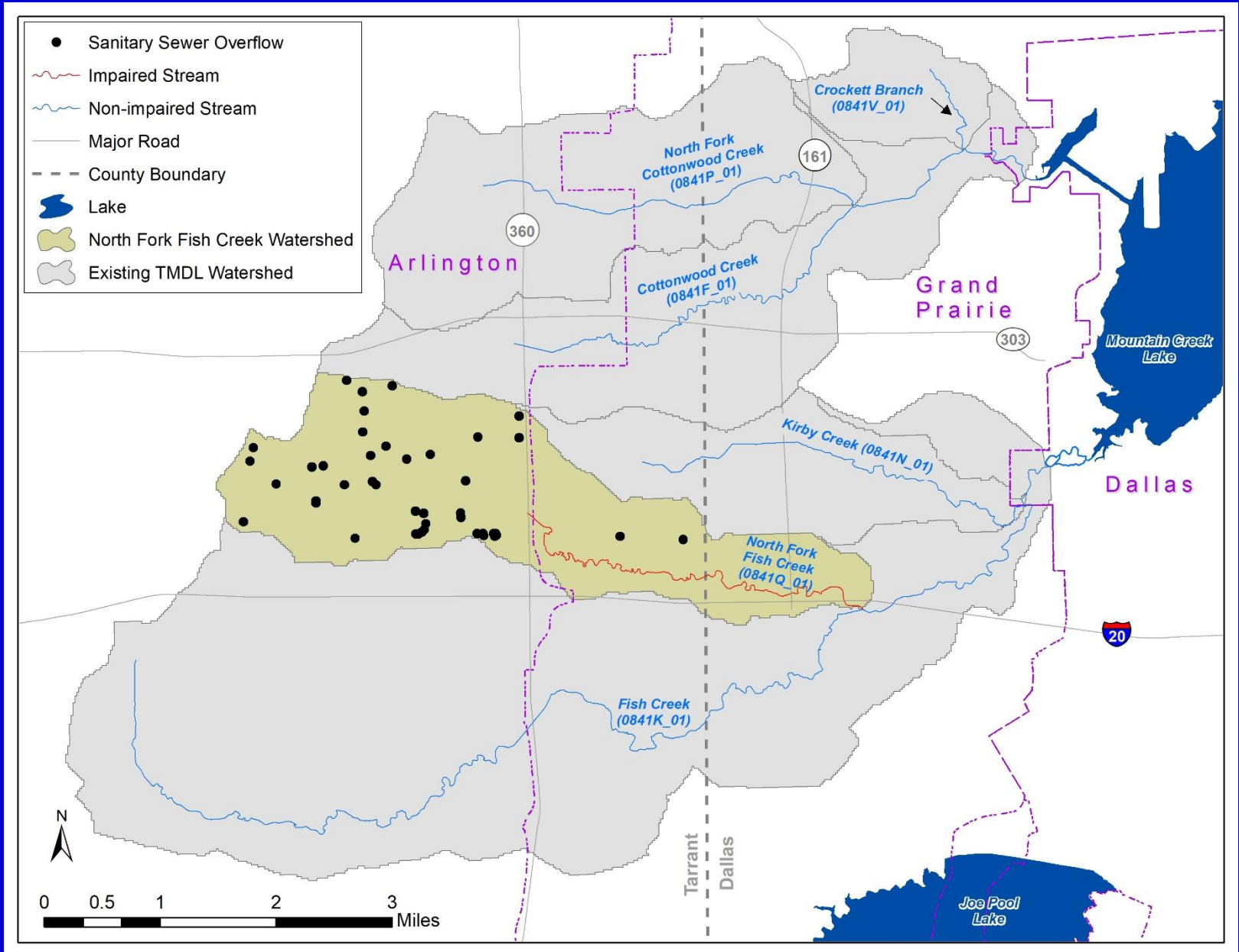




# Wastewater Service Area – TRA Central Regional Facility

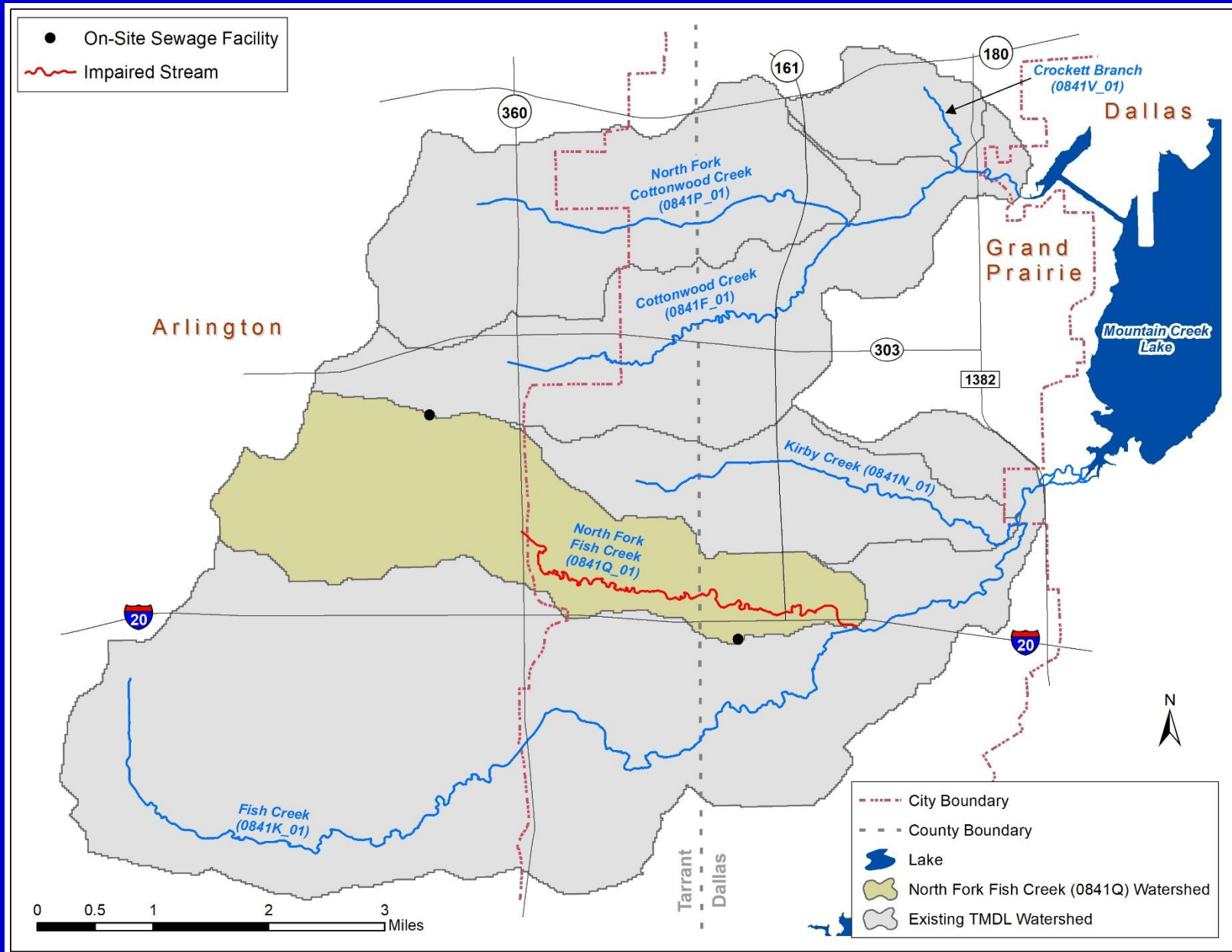


# Reported Sanitary Sewer Overflows 2007 – 2015 (Source: NCTCOG)





# On-Site Sewage Facility Locations (Source: NCTCOG)



# Overview

## Fundamentals of TMDL

### Pollutant Load Allocation

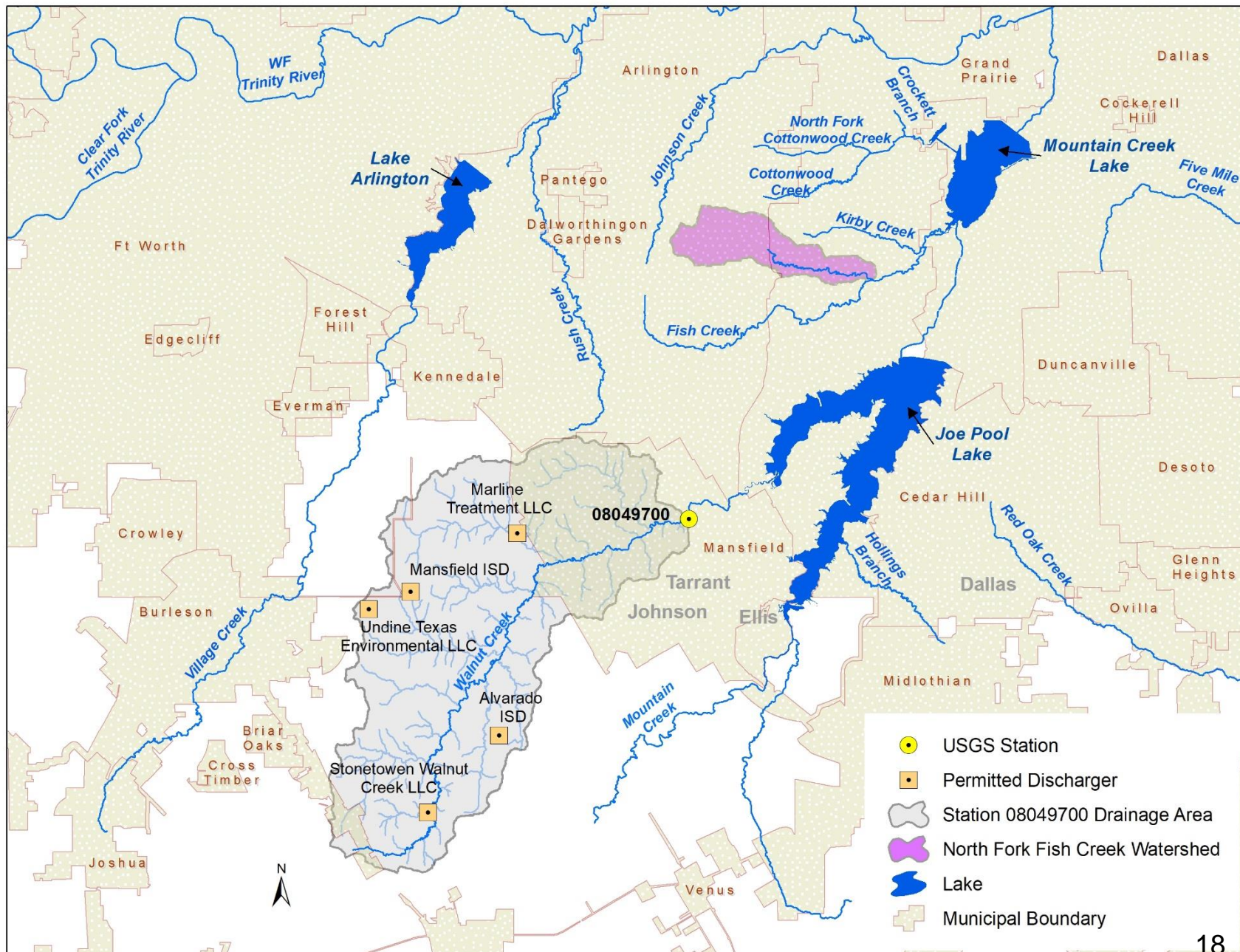
### Equation



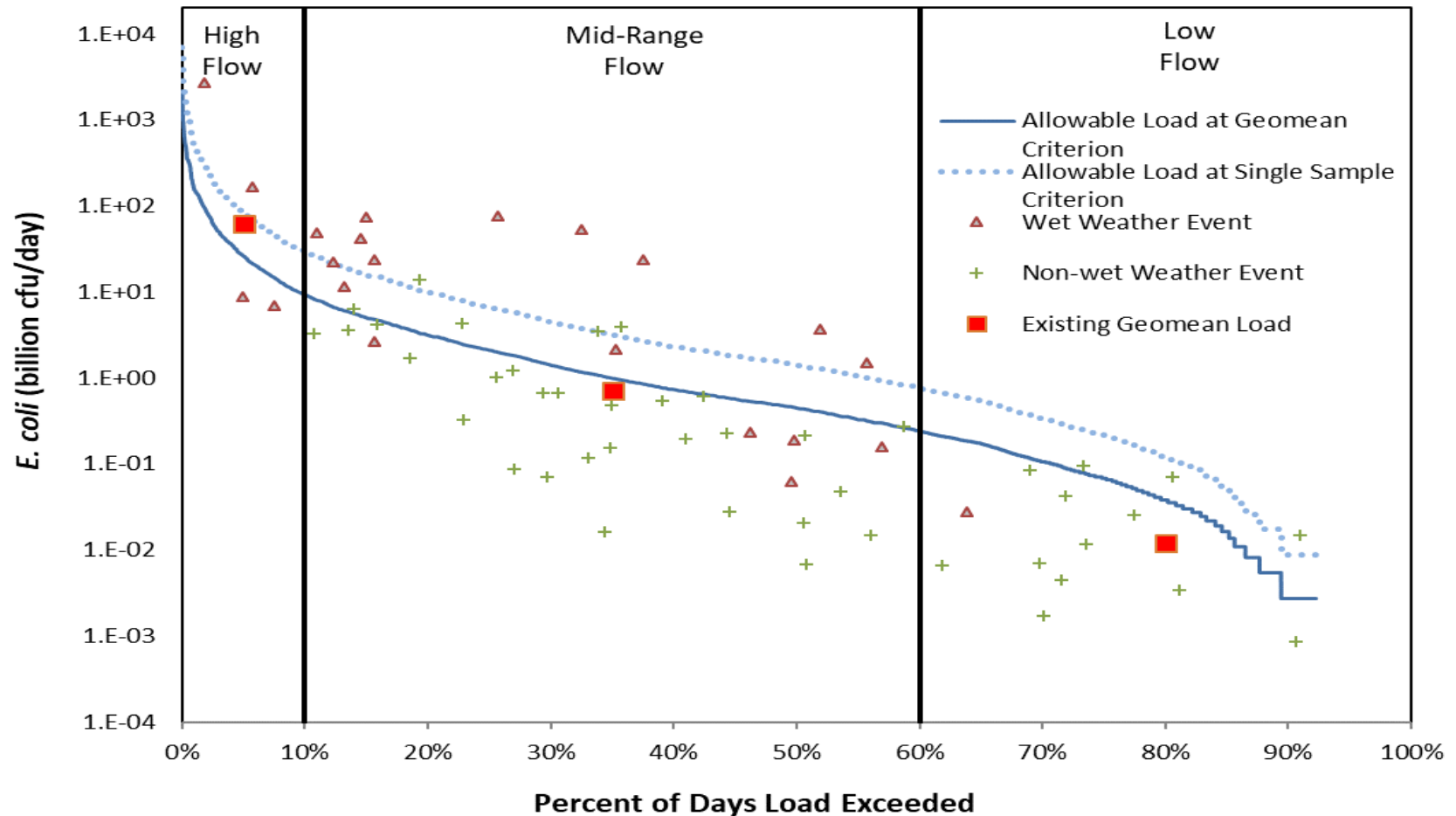
# TMDL Allocation Equation

$$\text{TMDL} = \cancel{\text{WLA}}_{\text{WWTF}}^0 + \text{WLA}_{\text{SW}} + \text{LA} + \cancel{\text{LA}}_{\text{TRIB}}^0 + \cancel{\text{FG}}^0 + \text{MOS}$$

- $\text{WLA}_{\text{WWTF}}$  - Existing wastewater treatment discharges.
- $\text{WLA}_{\text{SW}}$  - Construction, industrial and MS4 discharges stormwater loading.
- LA - Unregulated stormwater loading.
- $\text{LA}_{\text{TRIB}}$  - Loading from TMDL tributary.
- FG - Future growth from potential permitted facilities.
- MOS - Margin of safety.



# Load Duration Curve for station 17678, NFFC at Robinson Road



# Status of TMDL for Indicator Bacteria in North Fork Fish Creek

- Technical Support Document (TSD) (due to TCEQ June 15, 2019; will be made available to public on project website after review and approval)
- TCEQ will use TSD to develop an addendum to be included in *Water Quality Management Plan update*.

# Thank You

## Any Questions?

Jimmy Millican

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# Action Items

## 4. Greater Trinity River Bacteria TMDL I-Plan Coordination Committee Meeting Summary

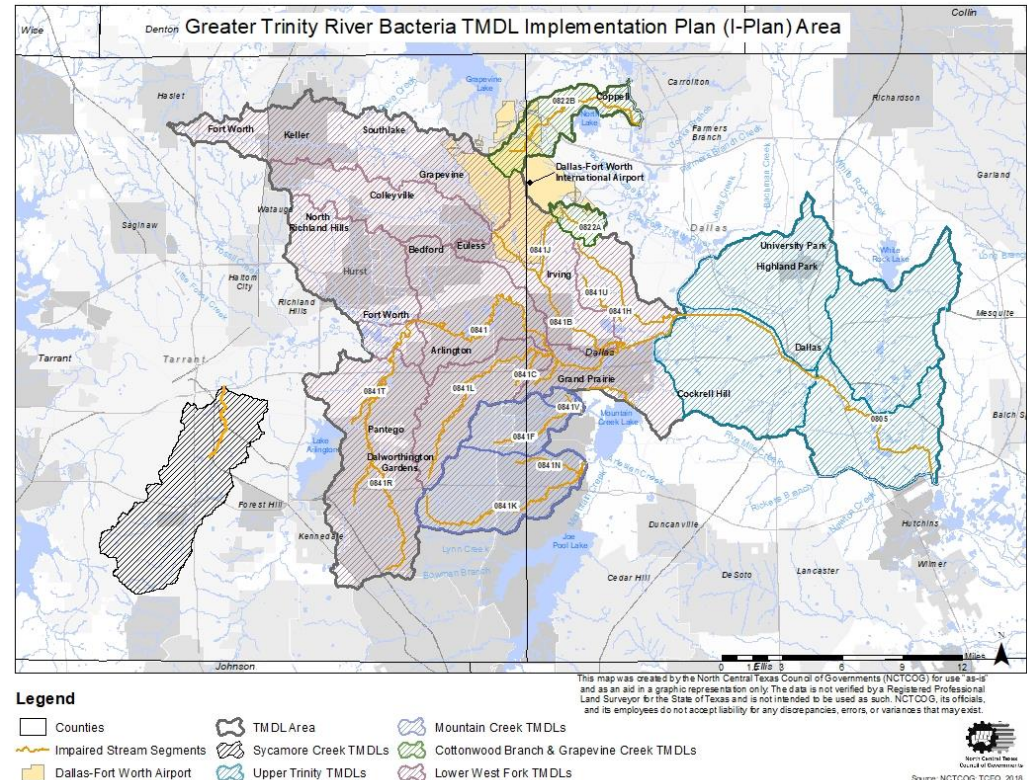
- At the June 2018 meeting, the TMDL Coordination Committee received updates on several items in progress, including:
  - i. Overview of the Sycamore Creek Bacteria TMDL,
  - ii. Overview of Fort Worth's efforts related to Sycamore Creek,
  - iii. Second Annual Implementation Status Report, and
  - iv. Resolution to Support the Addition of the Sycamore Creek Segment.



# Action Items

## 5. TMDL I-Plan Revisions to Incorporate Sycamore Creek

- NCTCOG has updated the TMDL I-Plan to incorporate Sycamore Creek.



# Action Items

## 6. Approval of the first TMDL Annual Program Summary

- The Annual Program Summary replaces the Implementation Plan Status report, which will now be completed every 5 years.





# 7. FY2020 TMDL Technical Subcommittee Activities

- Monitoring Coordination Forum
  - i. Dr. Terry Gentry, Texas A&M Soil & Crop Sciences Department, provided a presentation on Bacteria Source Tracking (BST) at the first North Texas Watershed Stakeholder Meeting on March 5, 2019. His presentation is available [online](#).
  - ii. In FY2020, NCTCOG will be conducting an analysis of new sampling technologies and determination of what Phase I communities are doing to address TMDLs in Stormwater Permits.

# 7. FY2020 TMDL Technical Subcommittee Activities

- Wastewater Technical Subcommittee
  - i. The OSSF Homeowners Workshop is scheduled for July 25<sup>th</sup> in the Burleson area and will include presentations from Ryan Gerlich, Texas A&M, and Becca Grassl-Petersen, Tarrant County.
  - ii. The National Association of Wastewater Technicians is hosting a Septic System Inspectors Training in Arlington on September 13 and 14, 2019. More information is available [here](#).
    - i. NCTCOG will be looking to host a similar training later in FY2020.
  - iii. In FY2020, NCTCOG will develop educational materials for OSSFs, including flyers, brochures, mailers, and other handouts that are directed towards homeowners, inspectors, and real estate agents.

# 7. FY2020 TMDL Technical Subcommittee Activities

- Stormwater Technical Subcommittee
  - i. NCTCOG completed the Avian Feeding Signage and Educational Materials (available on the TMDL website under Resources & Funding Opportunities).
  - ii. The Feral Hog Forum is scheduled for August 13, 2019 and will include presentations from Rachel Richter, Texas Parks & Wildlife, and Josh Helcel, Texas A&M AgriLife.
  - iii. In FY2020, NCTCOG will create a social media toolkit for the Doo the Right Thing Campaign.

**Please...  
don't feed  
the birds.**



**REGULAR FEEDING CAN CAUSE:**

- Poor nutrition
- Spread of disease
- Unnatural behavior
- Pollution
- Overcrowding
- Delayed migration

Many people enjoy feeding the birds, but the effects of this seemingly generous act can be harmful. If you care about the birds, please stop feeding them. . . allow them to return to their natural habits.

Support Federal, State, and Private Organizations and their efforts to conserve the birds and their natural habits.

**Keep wildlife wild.**

[Ordinance # Here](#)

[<insert logo here>](#)

# Roundtable

## 9. Staff Updates and Roundtable Discussion

### Upcoming Meetings:

- TMDL Coordination Committee meeting: **Thursday, June 18, 2020**
- North Texas Watershed Stakeholder Meeting: **Tuesday, June 25, 2019, 9:30 AM** – Register at [www.nctcog.org/envir/events](http://www.nctcog.org/envir/events)
- 2019 EPA Region 6 Stormwater Conference (Denton) **July 28 – August 1, 2019**
- NCTCOG Feral Hog Forum: **Tuesday, August 13, 2019, 9:00 AM** – Register at [www.nctcog.org/envir/events](http://www.nctcog.org/envir/events)
- UTRB Coordinating Committee Meeting: **Thursday, August 22, 2019, 9:30 AM**

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## Connect



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