Greater Trinity Bacteria TMDL I-Plan Coordination Committee Meeting

Virtual Meeting via WebEx

Call-In Number: +1-415-655-0002

Access Code: 127 059 0029

June 30, 2020



Opening the Upper Trinity River to Recreational Use

Steve Smith, Founder and Board Chair of Trinity
Coalition

Amruta Sakalker, Doctoral student in Urban Planning and Public Policy







Local Signatories in Support of the Trinity River Paddling Trail

Government Agencies

- North Texas Council of Governments
- Texas Parks & Wildlife Dept.
- Trinity River Authority
- Tarrant Regional Water District

Businesses & Organizations

- National Parks Conservation Association
- Visit Fort Worth
- North Texas River Runners
- Adventures Unlimited Paddling Company
- Dallas Downriver Club
- DFW Kayak Fishing Club
- FIT Fort Worth
- Mariner Sails
- North Texas Kayak Championships
- Trinity River Kayak Co
- Streams and Valleys

Cities, Parks, Counties

- Arlington Parks Department
- Carrollton Parks & Recreation
- City Manager, Coppell, TX
- Dallas County Judge
- Dallas County Commissioner District #1
- Dallas County Commissioner District #2
- Dallas County Commissioner District #3
- Dallas County Commissioner District #4
- Farmer's Branch Parks & Recreations Department
- Fort Worth Chamber of Commerce
- Fort Worth Parks & Recreation Department
- Fort Worth Nature Center
- Grand Prairie Parks, Arts and Recreation Dept.
- Irving Parks Department
- Lewisville Parks Department
- Dallas Parks & Recreation Department
- Dallas County
- Department of unincorporated Area Services
- Public Works













Upper Trinity Report Card

Analysis Summary for the TMDL Committee

Amruta Sakalker, PhD Student, GRA at IUS, Co-Primary Investigator, Graphics & Design

Alan Klein, Director of IUS, Co-Primary Investigator

Meghna Tare, Director of Sustainability, Co-Primary Investigator

Nusrat Jahan Nipu, Masters of L. Arch student, GRA at IUS, Graphics

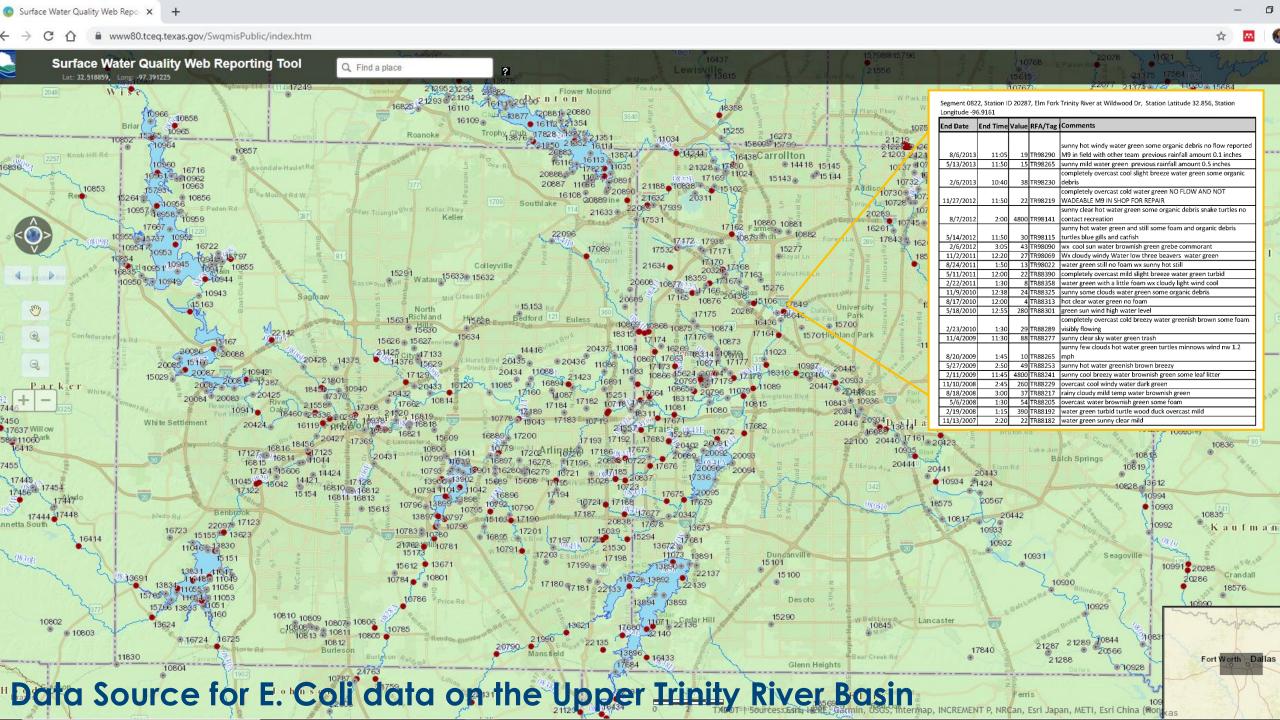


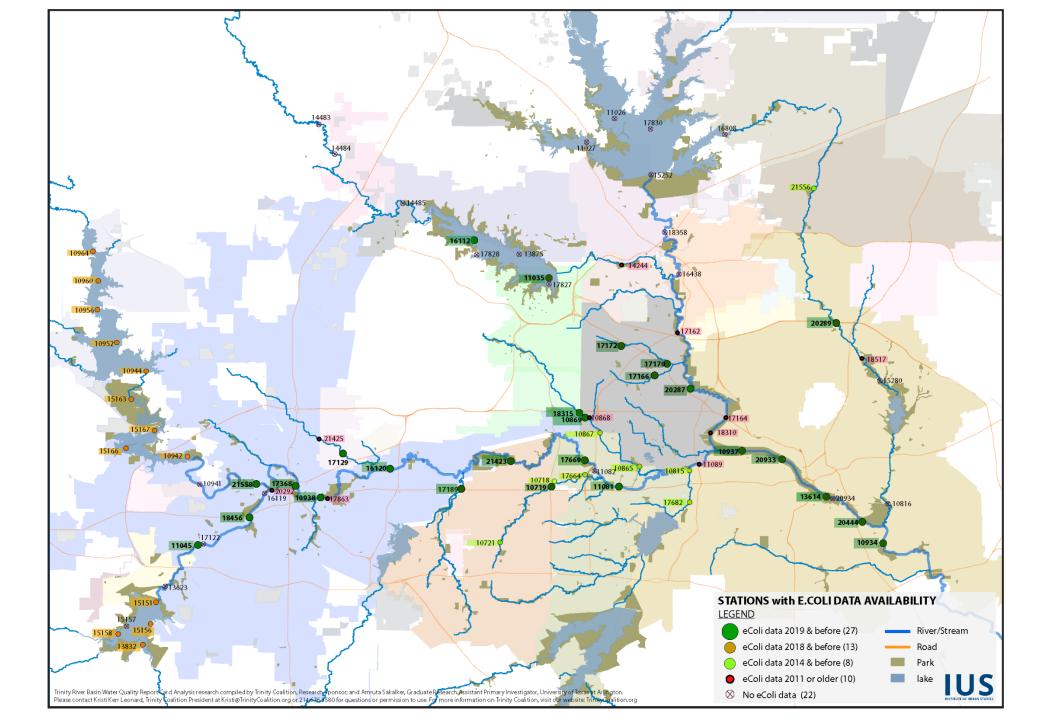


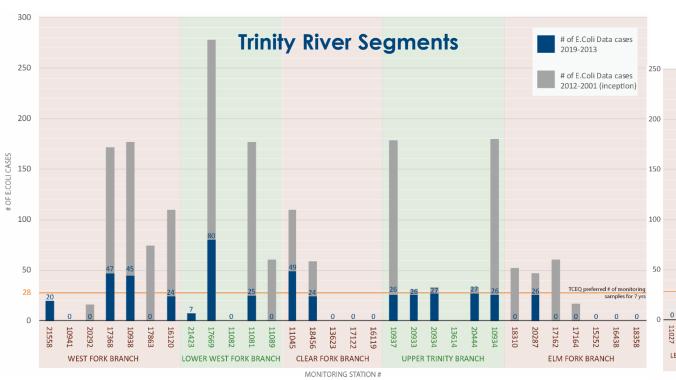


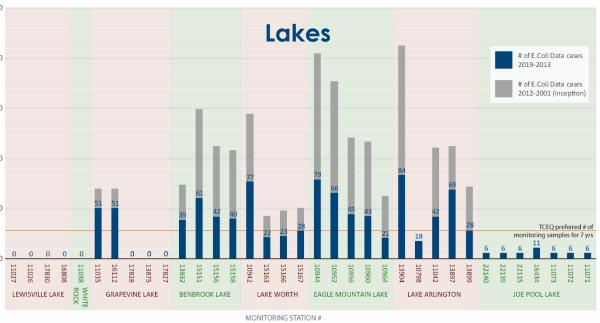
PROJECT GOALS

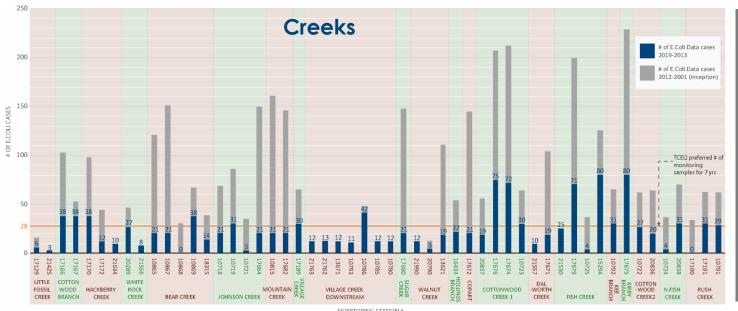
- Identify the geographic and temporal gaps in *E. Coli* data availability for the Upper Trinity River Basin.
- Analyze the geographic and temporal variability in compliance of *E. Coli* levels in the study area as per TCEQ standards.
- Report scientific data on the water quality for swimming and boating in a more comprehensible grading systems for everyday users.
- Compare findings with other Recreational Use analysis within the region











Upper Trinity River, Lakes & Creeks: E. Coli data distribution and # of samples

Mystic River

WATERSHED ASSOCIATION

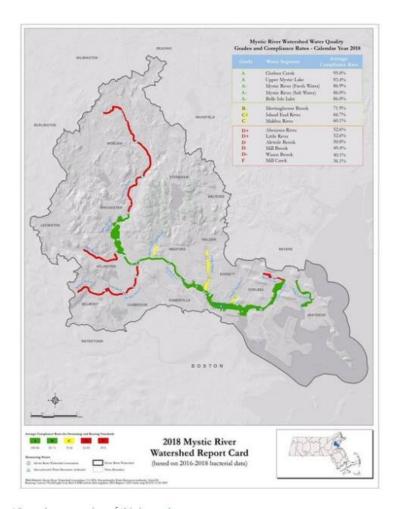
EPA MYSTIC RIVER REPORT CARD

The US Environmental Protection Agency (EPA) in collaboration with the Mystic River Watershed Association issues a water quality report card for the Mystic River Watershed each year. In 2014, the format of the grade changed from a watershed wide average to what you see below - a map offering waterbody by waterbody reporting. The grade is based on how frequently waterbodies meet bacteria standards for swimming and boating. You'll see that the Mystic River is a great place to go boating and the Mystic Lakes are a great place for a swim! The grade also shows that much work lies ahead in realizing the promise of the Clean Water Act in many of our waterbodies. See the 2018 grade below and read the EPA press release. Learn more about what impacts our water quality here.

How is Water Quality in the Mystic River watershed?

The Mystic River Watershed Association has been collecting water quality data and studying this question for over a decade and has your answer!

Water quality in the Mystic River Watershed is comparable to many other urbanized watersheds-including the nearby Charles Riverwhere dense development on land is contributing pollutants to the water. The data tell us that the water is clean enough to safely boat



View a larger version of this image here.

Recreational Use Standards

Standards within the State of Texas

Type of Recreational Use Criteria	Parameter	Geometric Mean Criterion per 100 mL	Single Sample Criterion per 100 mL
Primary Contact Recreation 1 (PCR 1)	E. coli	126	399
Secondary Contact Recreation 1 (SCR1)	E. Coli	630	
Secondary Contact Recreation 2 (SCR2)	E.Coli	1030	

Standards within the Commonwealth of Massachusetts

Location Type	Parameter	Boating (#/100mL)	Swimming (#/100mL)
Saline	ENT	350	104
Fresh	ECOLI	1260	235

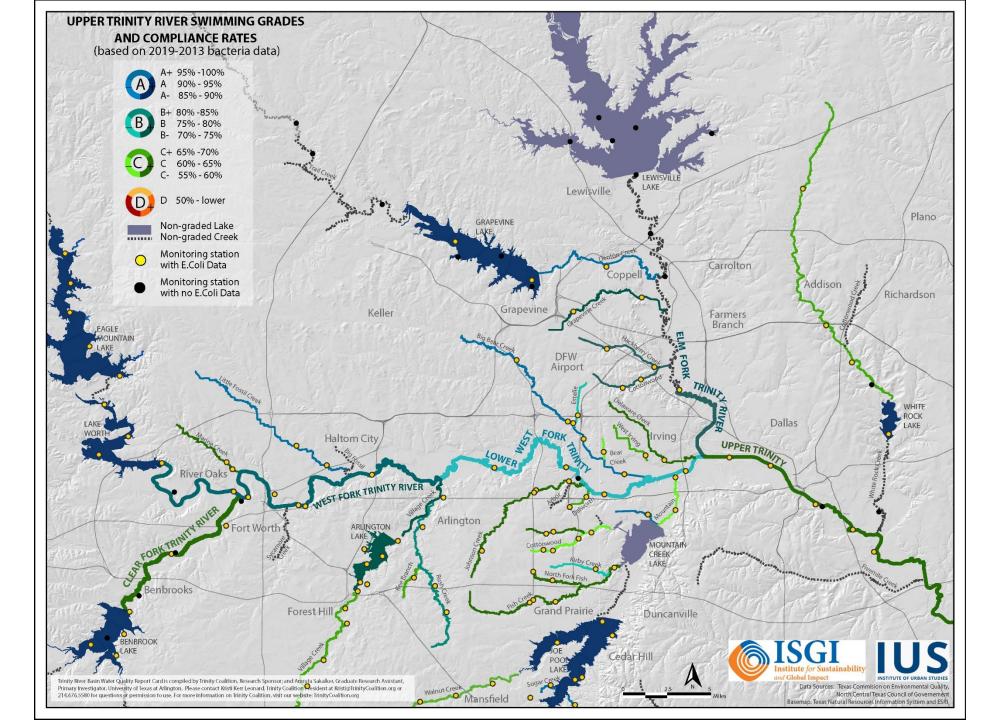
Water Type	Waterbody	Grade	Average	Avg Swim	Avg Boat	Swim/Dry	Swim/Wet	Boat/Dry	Boat/Wet
Fresh	Upper Mystic Lake	Α	93.4%	86.9%	100.0%	95.8%	60.0%	100.0%	100%
Fresh	Mystic River (Fresh)	A-	86.9%	78.7%	95.2%	88.2%	50.1%	98.1%	86%
Fresh	Meetinghouse Brook	B-	71.9%	58.1%	85.6%	70.8%	20.0%	87.5%	80%
Fresh	Malden River	С	60.1%	47.4%	72.7%	61.2%	5.9%	82.5%	44%
Fresh	Little River	D+	52.6%	27.1%	78.1%	31.7%	13.2%	87.1%	51%
Fresh	Aberjona River	D+	52.6%	25.3%	79.8%	32.7%	3.3%	93.1%	40%
Fresh	Alewife Brook	D	50.0%	21.4%	78.5%	26.4%	6.6%	88.2%	50%
Fresh	Mill Brook	D	49.4%	24.4%	74.4%	29.2%	10.0%	79.2%	60%
Fresh	Winns Brook	D-	40.1%	22.1%	58.2%	26.1%	10.0%	60.9%	50%
Saline	Chelsea River	Α	95.0%	92.5%	97.5%	100.0%	70.0%	100.0%	90%
Saline	Belle Isle Inlet	A-	86.0%	82.0%	90.0%	96.0%	40.0%	100.0%	60%
Saline	Mystic River (Salt)	A-	86.0%	81.0%	90.9%	92.3%	47.2%	97.1%	72%
Saline	Island End River	C+	66.7%	64.2%	69.2%	63.3%	66.7%	70.0%	67%
Saline	Mill Creek	F	36.1%	20.2%	51.9%	26.9%	0.0%	69.2%	0%

Example of other River Report Cards – Mystic River Report Card

-----Near Term Compliance Rate-----

MUNICIPALITY	STATION #	RIVER STATION DESCRITION	# of E.Coli samples available for 2019- 2013 period	DATE RANGE	SWIM GRADE	SWIM PERCENT	BOAT PERCENT	SEGMENT SWIM GRADE	SEGMENT BOAT GRADE
Fort Worth	21558	WEST FORK UPSTREAM JACKSBORO	20	2019-2014	C+	70	80		
Fort Worth	10941	WEST FORK SH 183	0						
Fort Worth	20292	WEST FORK HERITAGE PARK	0	2012-2008					
Fort Worth	17368	WEST FORK 4TH ST	47	2019-2001	B+	81	91.5	В	B+
Fort Worth	10938	WEST FORK BEACH ST	45	2019-2001	В	80	87		
Fort Worth	17863	WEST FORK GATEWAY	0	2012-2003					
Fort Worth	16120	WEST FORK HANDLEY	24	2019-2001	B-	71	79		
Arlington	21423	LOWER W. FORK RIVER LEGACY PARK	7	2019-2017	Α-	85.7	85.7		
Grand Prairie	17669	LOWER W. FORK ROY ORR	80	2019-2001	В	77.5	86.3		
Grand Prairie	11082	LOWER W. FORK G. PRAIRIE	0		7500			В-	B+
Grand Prairie	11081	LOWER W. FORK BELT LINE	25	2019-2000	C+	68	76		
Dallas	11089	LOWER W. FORK LOOP 12	0	2006, 2005, 2000					76
Fort Worth	11045	CLEAR FORK BRYANT ST	49	2019-2001	B-	70.8	83		
Fort Worth	18456	CLEAR FORK ROSEDALE	24	2019-2013, 2007-2004	C+	66.67	75		_
Fort Worth	13623	CLEAR FORK BENBROOK DAM1	0					C+	С
Fort Worth	17122	CLEAR FORK BENBROOK DAM2	0		ma ma (m) ma				
Fort Worth	16119	CLEAR FORK PURCEY	0						
Dallas	10937	UPPER TRINITY N WESTMORELAND	26	2019-2001	B+	84.6	88.5		
Dallas	20933	UPPER TRINITY SYLVAN AVENUE	26	2019-2011	С	61.5	76.9		
Dallas	20934	UPPER TRINITY SANTA FE AVE.	27	2019-2011	С	61.5	73.07	1	С
Dallas	13614	UPPER TRINITY CEDAR CREST BLVD	0		no server se			C+	
Dallas	20444	UPPER TRINITY S. CENTRAL EXP	27	2019-2011	С	61.5	76.9		
Dallas	10934	UPPER TRINITY LOOP SH 12	26	2019-2001	С	61.5	69.2		
Dallas	18310	ELM FORK E. IRVING	0	2012-2003					
Dallas	20287	ELM FORK WILDWOOD DR	26	2019-2007	В	77	85		
Dallas	17162	ELM FORK VALLEY VIEW	0	2012-2001					
Dallas	17164	ELM FORK PROCTOR ST	0	2003-2001				В	B+
Lewisville	15252	ELM FORK LEWISVILLE LK	0						
Carrolton	16438	ELM FORK WWTP INTAKE	0		been's				
Lewisville	18358	ELM FORK HEBRON PKW	0		and the same of th				

Trinity River Water Quality Grades –River Branches only



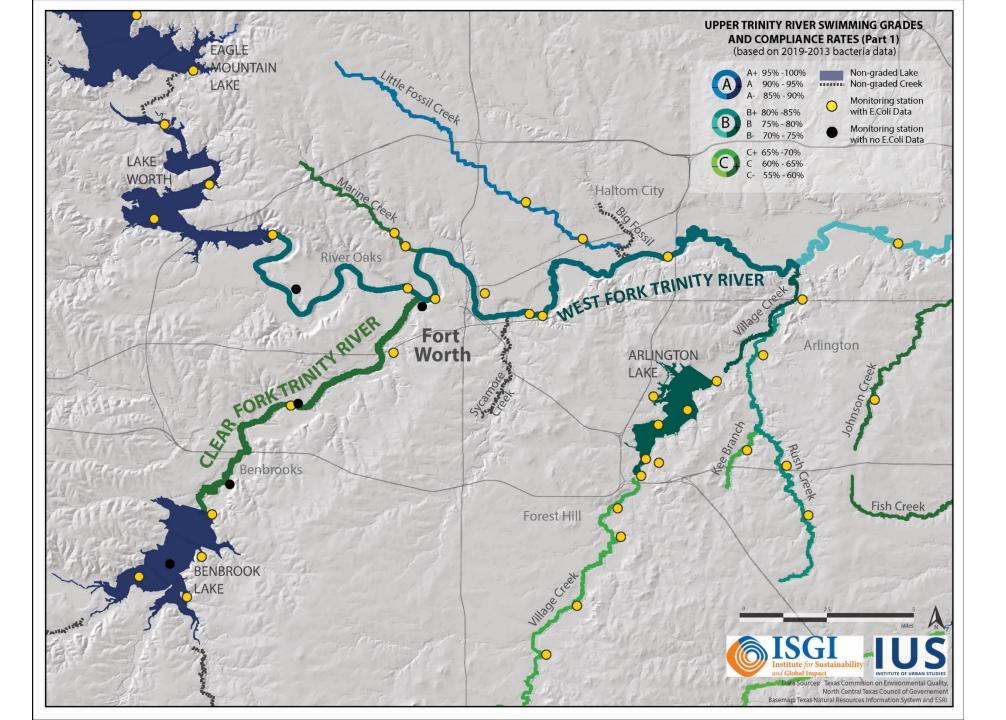
Comparison with other Recreational Use Analysis

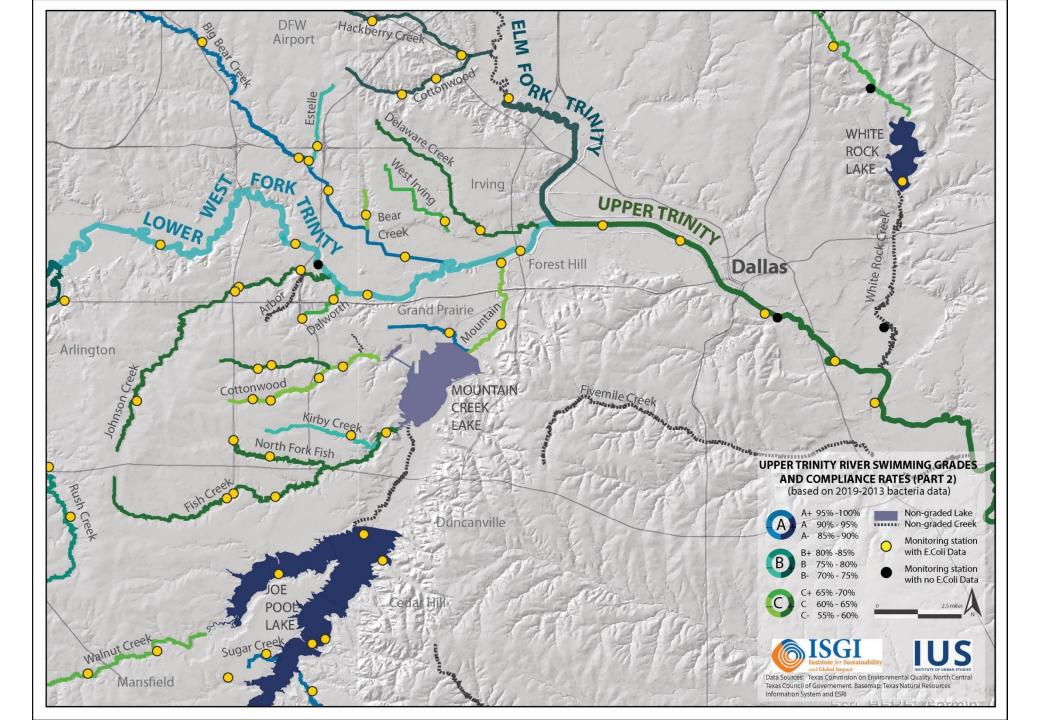
Example of a comparative study completed by TCEQ for the Trinity River Basin

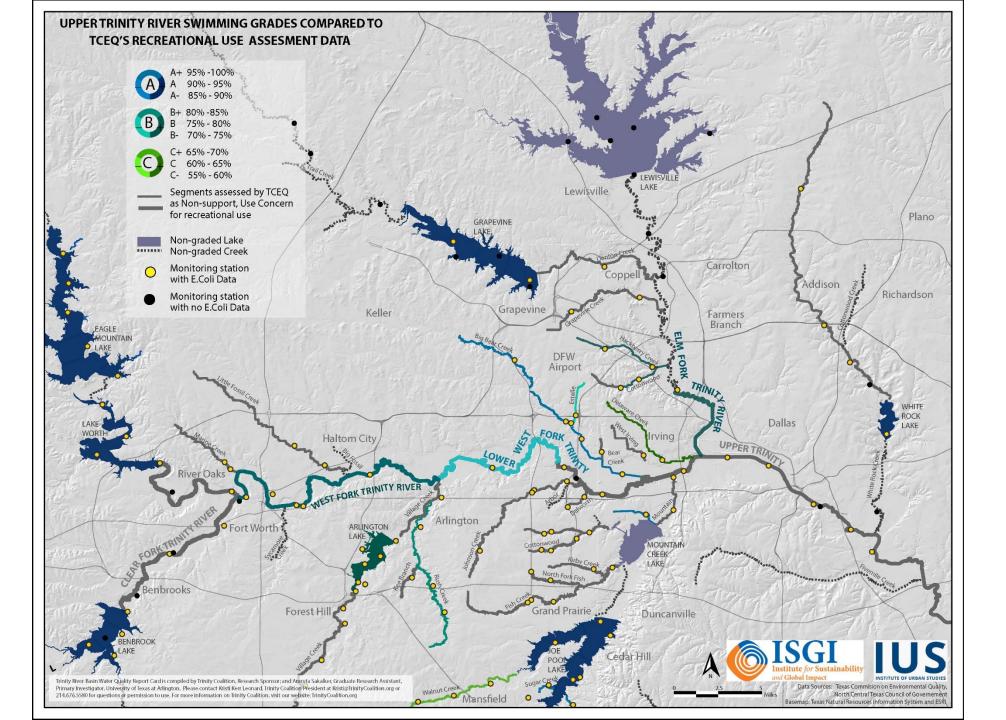
2020 Texas Integrated Report - Assessment Results for Basin 8 - Trinity River Basin

SEGID: 0841 Lower West Fork Trinity River

AUID: 0841_02 From the confluence with Johnson Creek upstream to the confluence of Village Creek.								
Aquatic Life Use Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Int Qual LOS CF LOS TCEQ Cause	Cat	
Acute Toxic Substances in water	Cadmium (dissolved)	12/01/11 - 11/30/18	15.19	6	0	LD NC NC		
Acute Toxic Substances in water	Chromium (Tri)(dissolved)	12/01/11 - 11/30/18	922.07	6	0	LD NC NC		
Acute Toxic Substances in water	Copper (dissolved)	12/01/11 - 11/30/18	24.71	6	0	LD NC NC		
Acute Toxic Substances in water	Lead (dissolved)	12/01/11 - 11/30/18	121.70	6	0	LD NC NC		
Acute Toxic Substances in water	Zinc (dissolved)	12/01/11 - 11/30/18	192.82	4	0	LD NC NC		
Chronic Toxic Substances in water	Cadmium (dissolved)	12/01/11 - 11/30/18	0.34	6 0.15	0	LD NC NC		
Chronic Toxic Substances in water	Chromium (Tri)(dissolved)	12/01/11 - 11/30/18	108.91	6 2.50	0	LD NC NC		
Chronic Toxic Substances in water	Copper (dissolved)	12/01/11 - 11/30/18	14.15	6 2.11	0	LD NC NC		
Chronic Toxic Substances in water	Lead (dissolved)	12/01/11 - 11/30/18	4.18	6 0.84	0	LD NC NC		
Chronic Toxic Substances in water	Zinc (dissolved)	12/01/11 - 11/30/18	175.93	4 10.95	0	LD NC NC		
Dissolved Oxygen grab minimum	Dissolved Oxygen Grab	12/01/11 - 11/30/18	3	83	0	AD FS □ FS		
Dissolved Oxygen grab screening level	Dissolved Oxygen Grab	12/01/11 - 11/30/18	4	83	0	AD NC NC		
Recreation Use Method	Parameter	Period of Record	Criteria	Data Assessed # Value	Exceedances # Value	Data Int Qual LOS CF LOS TCEQ Cause	Cat	
Bacteria Geomean	E. coli	12/01/11 - 11/30/18	126	83 105.05	0	AD FS □ FS		









Upper Trinity River Report Card is compiled by Trinity
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Upper Trinity Report Card Analysis Summary for the TMDL Committee

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MEGHNA TARE, DIRECTOR OF SUSTAINABILITY, CO-PRIMARY INVESTIGATOR
NUSRAT JAHAN NIPU, GRA AT IUS, GRAPHICS







Action Items

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

- At the June 2019 meeting, the TMDL Coordination Committee received updates on several items in progress, including:
 - i. Overview of TMDL Addendums via the Texas WQMP,
 - Overview of the North Fork Fish Creek TMDL,
 - iii. Approval of the TMDL I-Plan Update to include Sycamore Creek,
 - iv. And approval of the first TMDL Annual Program Summary.

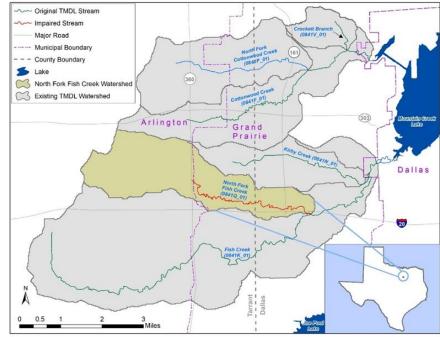


Action Items

4. TMDL I-Plan Administrative Update

 NCTCOG has updated the TMDL I-Plan to include North Fork Fish Creek as an Appendix, since it was added via the update to the Texas WQMP.

- North Fork Fish Creek will be added to all maps and tables in the I-Plan when a full addition (like Sycamore Creek) is needed.
- NCTCOG also updated references in the text, rosters, and other items for the Administrative Update.
- The final document will be made ADA accessible!





Action Items

5. Approval of the TMDL Annual Program Summary

 NCTCOG shared the TMDL Annual Program Summary with subcommittees and interested parties for feedback prior to this meeting. This document has been made available on the TMDL

webpage.





6. FY2020 TMDL Technical Subcommittee Activities

- Monitoring Coordination Forum
 - The MCF met in February 2020. Angela Kilpatrick, Trinity River
 Authority, presented on Clean Rivers Program projects and other
 monitoring news from the region.
 - ii. NCTCOG and the MCF also discussed changing the structure of the meetings. The MCF will now meet twice a year, once in the spring and once in the fall. These meetings will include member highlight presentations or other presentations of interest related to monitoring and sampling.



6. FY2020 TMDL Technical Subcommittee Activities

- Wastewater Technical Subcommittee
 - i. NCTCOG has developed a <u>"Taking Care of Your On-Site Sewage Facility" brochure</u> for homeowners and has expanded the resources located on the <u>TMDL webpage</u>.
 - ii. The OSSF Workshop for Real Estate Inspectors was scheduled for April 2020 but was indefinitely postponed due to COVID-19 until NCTCOG is authorized to host in person meetings and workshops again.
 - NCTCOG is seeking different workshops/webinars that can be hosted remotely in order to meet contract requirements for FY2020.



6. FY2020 TMDL Technical Subcommittee Activities

- Stormwater Technical Subcommittee
 - NCTCOG completed the Avian Feeding Social Media toolkit, available for download as a .zip file on the <u>TMDL webpage</u>.
 - ii. NCTCOG hosted a Feral Hog Forum on August 13, 2019.
 - iii. NCTCOG developed a Doo the Right Thing Social Media toolkit, which was furthered by the Regional Stormwater Management Coordinating Council Public Education Task Force.
 - i. This toolkit is available for download as a .zip file on the **TMDL** webpage.
 - ii. PETF has created monthly social media toolkits and is currently revamping the DTRT Annual Calendar Contest. The additional DTRT resources are available for download at the <u>PETF webpage</u>.
 - iv. NCTCOG met with the Stormwater Technical Subcommittee in October 2019 to discuss future projects, including the development of materials related to GI/LID, Construction Sites, and Land Use, Business, and Regulatory Review.



Roundtable

7. Staff Updates and Roundtable Discussion

- NCTCOG began to post TMDL messages on the NCTCOG general E&D social media accounts. So far, NCTCOG has posted 5 times and received 49 engagements and 1,495 impressions.
- New Doo the Right Thing Contest!
 - Will be entirely digital and social media focused
 - Opens on July 1, 2020 and closes on August 31, 2020.
 - More information is available on the <u>PETF webpage</u>.
- North Texas Community Cleanup Challenge RSWMCC's Regional Cleanup Challenge
 - Scheduled for September 1, 2020 through October 31, 2020
 - Landing page will be live mid-July, includes a pledge to get involved and how to log cleanup events
 - More information on how you can participate will be shared soon!
- EPA Trash Free Waters Grant



Application to Environmental Protection Agency's Trash Free Waters Grant

Trash Free Texas: Basin-wide Community Engagement Strategies to Reduce Aquatic Debris

- Task 1. Project Management Kick-off meeting, conference calls, progress reports
- Task 2. Measure So We Can Change Compile baseline trash collection data for region, add adopt-a-spot locations to Trash Free Texas website, create "how-to" video showing communities how to add their adopt-a-spot locations to website.
- Task 3. Engage and Educate Host Mayors' Clean Up Challenges and "plogging" events, create Local Government Trash Reduction and Educational Toolkit, promote Trash Free Texas website.
- Task 4. Changing Business Practices Create Restaurant Plastic Reduction Toolkit and encourage plastic reduction at restaurants through a Certification Program.
- Task 5. Replicate and Amplify Offer assistance to other COGs, present at TARC conferences and webinars.

Supporting Partners





































Roundtable

7. Staff Updates and Roundtable Discussion

- The Public Education Task Force and the Wastewater and Treatment Education Roundtable have created a series of educational explainer videos relating to water quality and wastewater initiatives. These videos are available for download and sharing on the NCTCOG E&D YouTube page.
 - PETF Videos:
 - Proper Pool Drainage in North Texas
 - Stormwater Pollution Prevention Lawn Care
 - Stormwater Pollution Prevention Litter
 - WATER Videos:
 - Proper Disposal of Household Hazardous Waste
 - Proper Disposal of Medications
 - Fats, Oils, and Grease
 - Wipes Clog Pipes



Roundtable

Upcoming Meetings:

- TMDL Coordination Committee Meeting: Thursday, June 17, 2021 at 9:30
 AM, Regional Forum Room, NCTCOG Offices
- Public Education Task Force Meeting: Wednesday, July 15, 2020 at 9:30
 AM, Virtual Meeting via Uber Conference
- Regional Stormwater Management Coordinating Council Meeting:
 Wednesday, August 12, 2020 at 9:30 AM, Location TBD
- UTRB Coordinating Committee Meeting: Tuesday, August 26, 2020, 9:30
 AM at Tarrant Regional Water District Offices, Fort Worth, TX*

www.nctcog.org/TMDL

National Nonpoint Source Training Workshop (Santé Fe, New Mexico)
 November 16-19, 2020

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