Flood Management Task Force

May 15, 2026

Conference Room Safety Reminders

Agenda

Welcome and Introductions/Attendance

Meeting Summary

FY 2026 Trinity River COMMON VISION Work Program Activities Discussion

Upcoming Events

Other Program-Related Efforts

CDC Applications

Open Discussion/Other Business

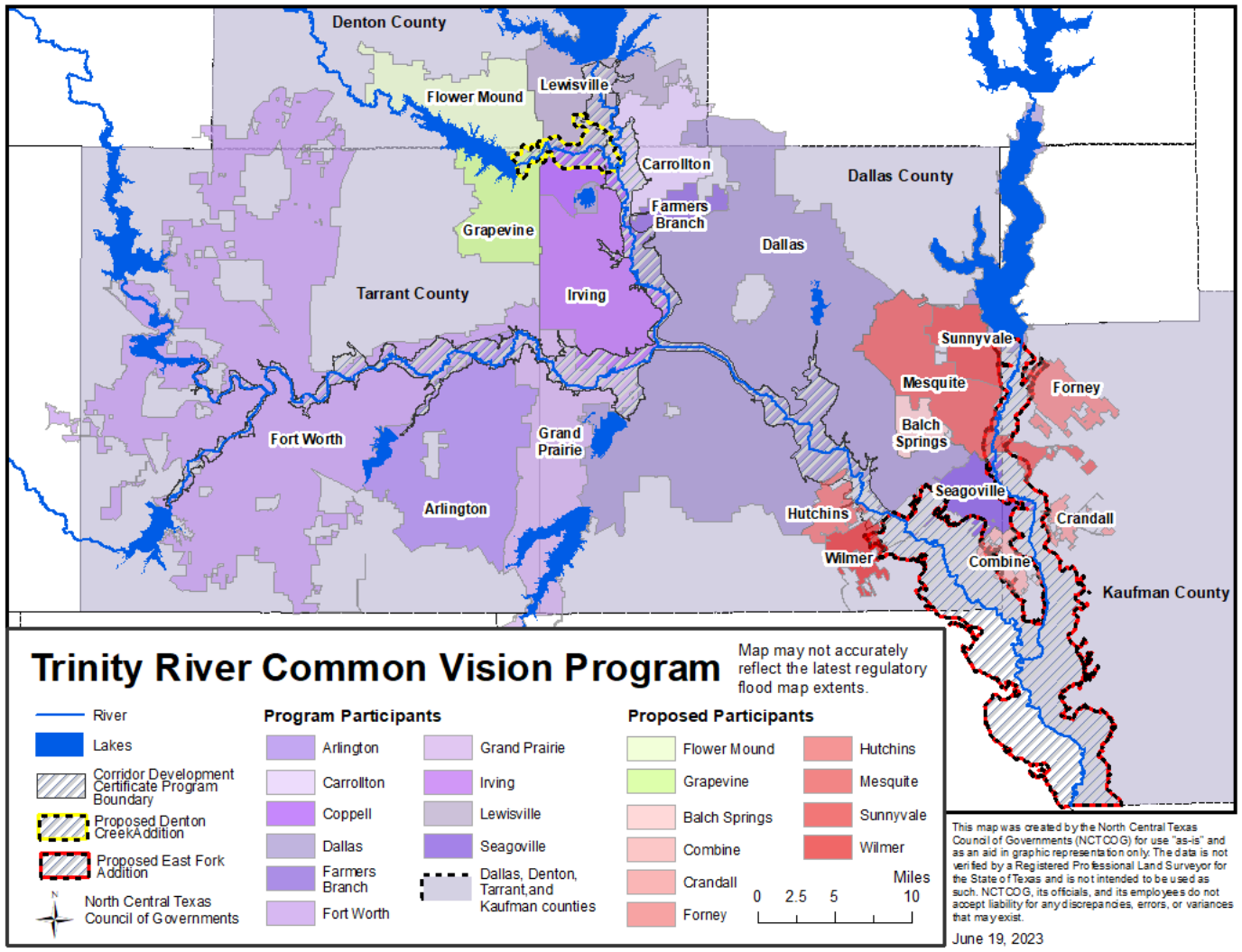
Next Meeting (August 21st)

Adjournment

1. Welcome and Introductions

- Please help yourself to the refreshments at the back of the room
- Volunteer Representatives
  - 2-3 volunteer FMTF representatives to serve as go-to contacts for NCTCOG staff between meetings, assisting with continuity, task progression, and time-sensitive guidance
  - Liaison to the Trinity River COMMON VISION Steering Committee

1. Attendance



- Arlington
- Carrollton
- Coppell
- Dallas
- Farmers Branch
- Fort Worth
- Grand Prairie
- Irving
- Lewisville
- Seagoville
- Dallas County
- Denton County
- Kaufman County
- Tarrant County
- TRWD
- TRA

2. Meeting Summary Approval

- The February 2026 meeting summary is available on the NCTCOG website.
- Call for a motion for approval

DISCUSSION ITEMS

3. FY 2026 Trinity River COMMON VISION Work Program Activities Discussion

3. CDC Model Consolidation Team

CDC Model Files Updated

- The most recently updated CDC Consolidated Model files have been uploaded to the NCTCOG website.
  - Located on the Trinity River Corridor Development Certificate webpage.

TRINITY RIVER
Corridor Development Certificate

3. CDC Model Consolidation Team

Update the CDC Manual to the 5th Edition

- Meeting with Lisa Biggs, the Chair of the CDC Model Consolidation Committee, to strategize final revisions, additions, and reformatting of the 5th Edition of the CDC Manual.
  - Section 4 is currently under revision
  - NCTCOG is reviewing for any inconsistencies and necessary edits
  - Addition of CDC Mapper as an informative visual tool to aid communities in their review of applications.
  - Once complete, NCTCOG will reformat for final FMTF review.

TRINITY RIVER
Corridor Development Certificate

Trinity COMMON VISION

North Central Texas Council of Governments

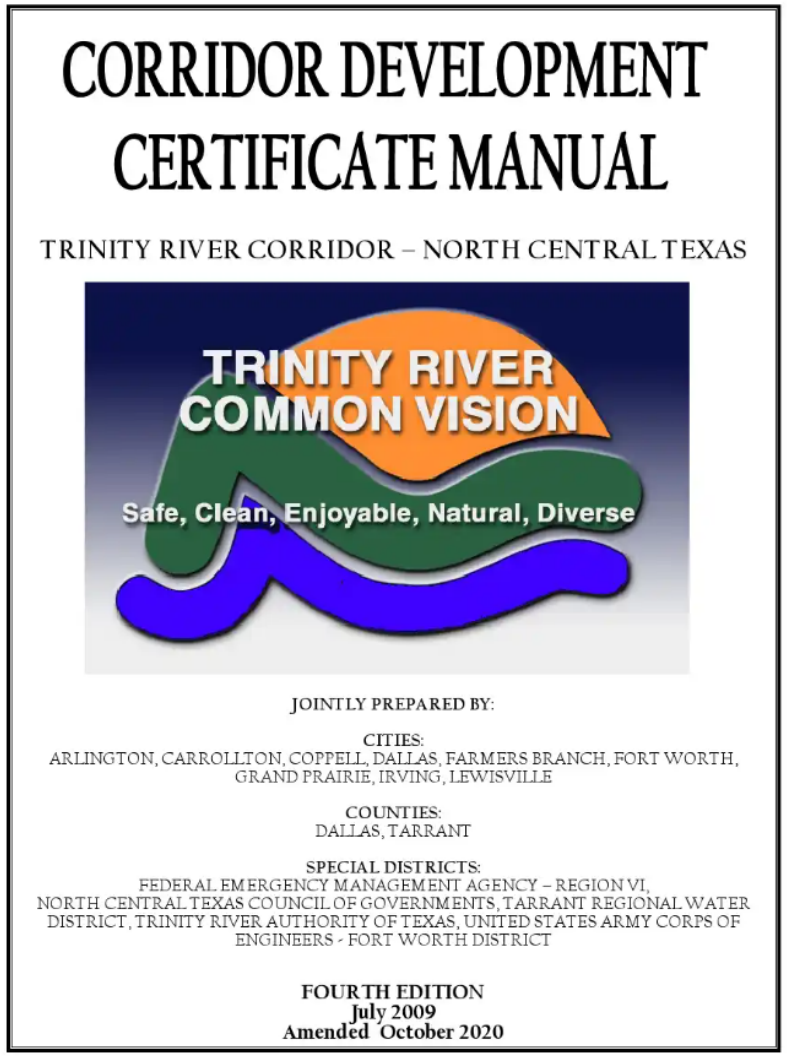
Flood Management Task Force Meeting

15 May 2026

Expansion of the Corridor Development Certificate Process

integrating Transportation & Stormwater Infrastructure

Trinity River Corridor Development Certificate



CORRIDOR DEVELOPMENT CERTIFICATE MANUAL

TRINITY RIVER CORRIDOR – NORTH CENTRAL TEXAS

TRINITY RIVER COMMON VISION

Safe, Clean, Enjoyable, Natural, Diverse

JOINTLY PREPARED BY:

CITIES:
ARLINGTON, CARROLLTON, COPPELL, DALLAS, FARMERS BRANCH, FORT WORTH, GRAND PRAIRIE, IRVING, LEWISVILLE

COUNTIES:
DALLAS, TARRANT

SPECIAL DISTRICTS:
FEDERAL EMERGENCY MANAGEMENT AGENCY – REGION VI, NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, TARRANT REGIONAL WATER DISTRICT, TRINITY RIVER AUTHORITY OF TEXAS, UNITED STATES ARMY CORPS OF ENGINEERS - FORT WORTH DISTRICT

FOURTH EDITION
July 2009
Amended October 2020

USACE 1988 Regional Environmental Impact Statement Trinity River and Tributaries:

- the cumulative impact of allowing individual development projects in the Trinity River floodplain could be both **measurable** and **significant**
- The permitting approach adopted by USACE had the potential to significantly reduce flood hazards

USACE 1990 Upper Trinity River Study:

With only National Flood Insurance Program (NFIP) criteria, Standard Project Flood would:

- Flood 42,460 acres in the Upper Trinity River Basin
- Cause $11.1 billion in damages

With CDC criteria, Standard Project Flood would:

- Flood 22,720 acres in the Upper Trinity River Basin
- Cause $4.25 billion in damages

Trinity River Corridor Development Certificate

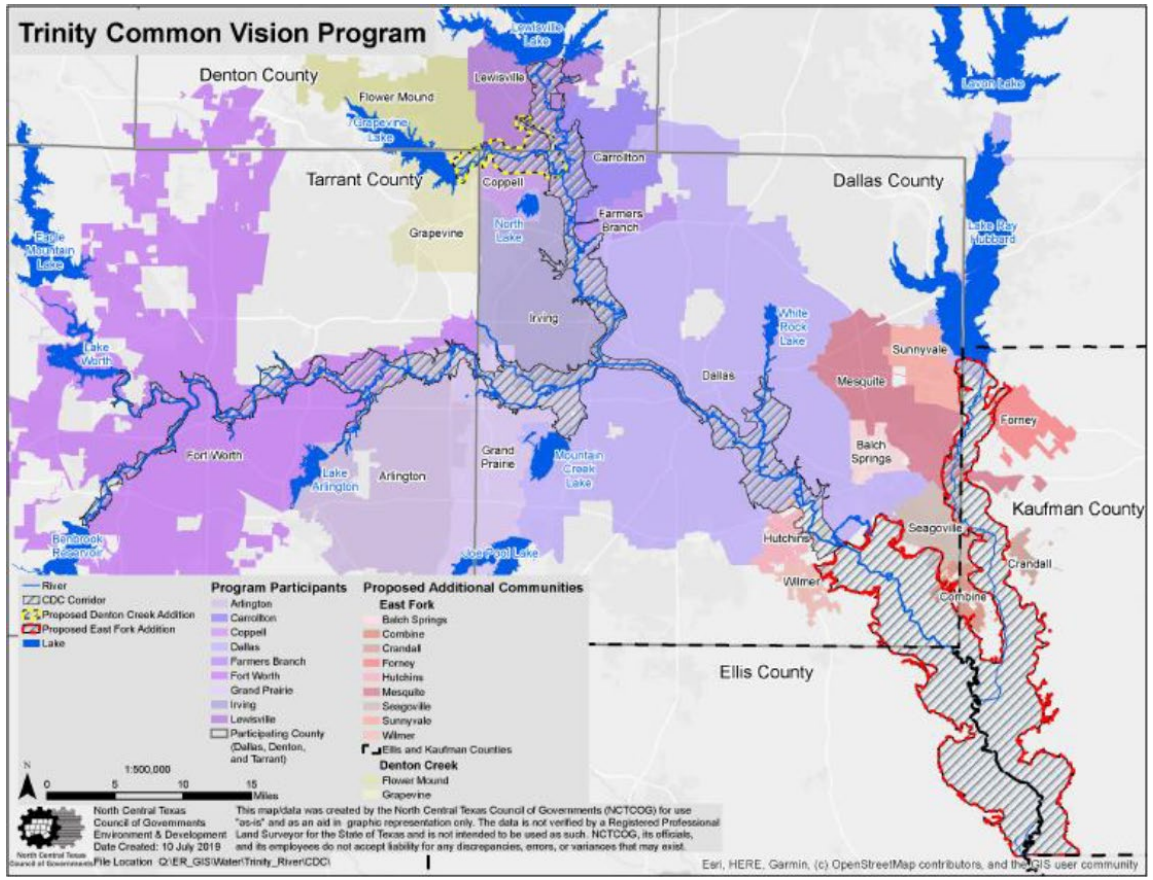
Important Note:

The Corridor Development Certificate Process (CDC) **affirms local government authority** for local floodplain management and establishes a set of Common Regional Criteria and procedures for development within the Trinity River Corridor.

Criteria:

- No increase in the 100-year flood water surface elevation (within 0.04 feet) and no significant increase in the Standard Project Flood water surface elevation
- A maximum allowable decrease of **valley storage** in the 100-year flood and Standard Project Flood discharges of 0.0% and 5.0%, respectively
- No creation, or significant increase, in erosive water velocity on-site or off-site

Current Regulatory Zone

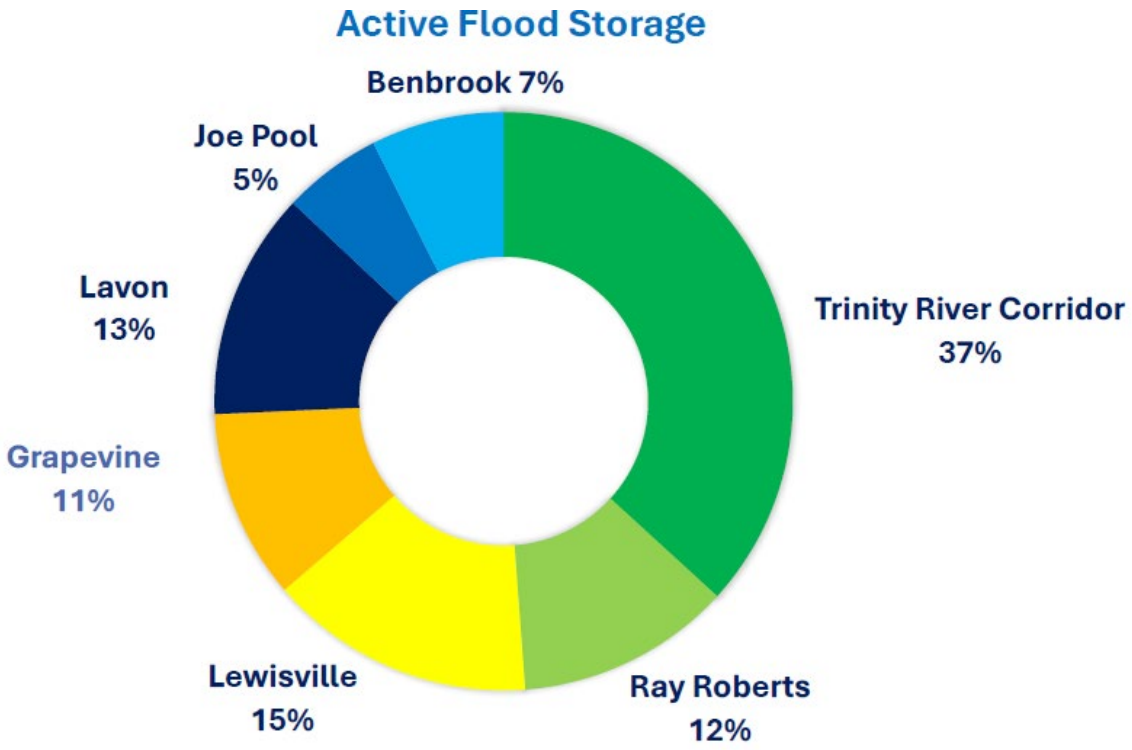


Trinity River Corridor Development Certificate

CDC Application Process:

1. **Pre-CDC Application Conference** Applicant and permitting entity (city/county)
   - Identify if proposed project is located in the Regulatory Zone, effective, or ineffective flow area
   - Provide applicant with overview of the CDC application process
2. **Submission of the CDC Application** to the permitting entity
   - review the application for completeness
   - Assign a CDC “Tracking Code” and upload application to NCTCOG website
   - Indicate if applying for exemption
3. **Regional Review and Comment**
   - CDC participating communities have 30 days to provide comments
4. **Technical Review**
   - Check payable to NCTCOG ($6,000 for effective flow area, $4,000 for ineffective flow area)
   - Permitting entity submits letter to USACE to request review
   - USACE has 30 days to complete review **once funds are processed**
5. **Final CDC Decision**
   - Permitting entity considers Regional and Technical review comments then issues Final CDC Action/Findings Form

Trinity River Corridor Development Certificate



Benefits:

- **Consistent** Common Regional Criteria
- State-of-the-art floodplain mapping
- Hydrologic modeling based on year 2055 Upper Trinity River watershed development
- A **consolidated hydraulic model** incorporating CDC permitted floodplain development
- U.S. Army Corps of Engineers **technical review**
- **Regional** review and comment
- Guarantee of **local control** of floodplain development decisions

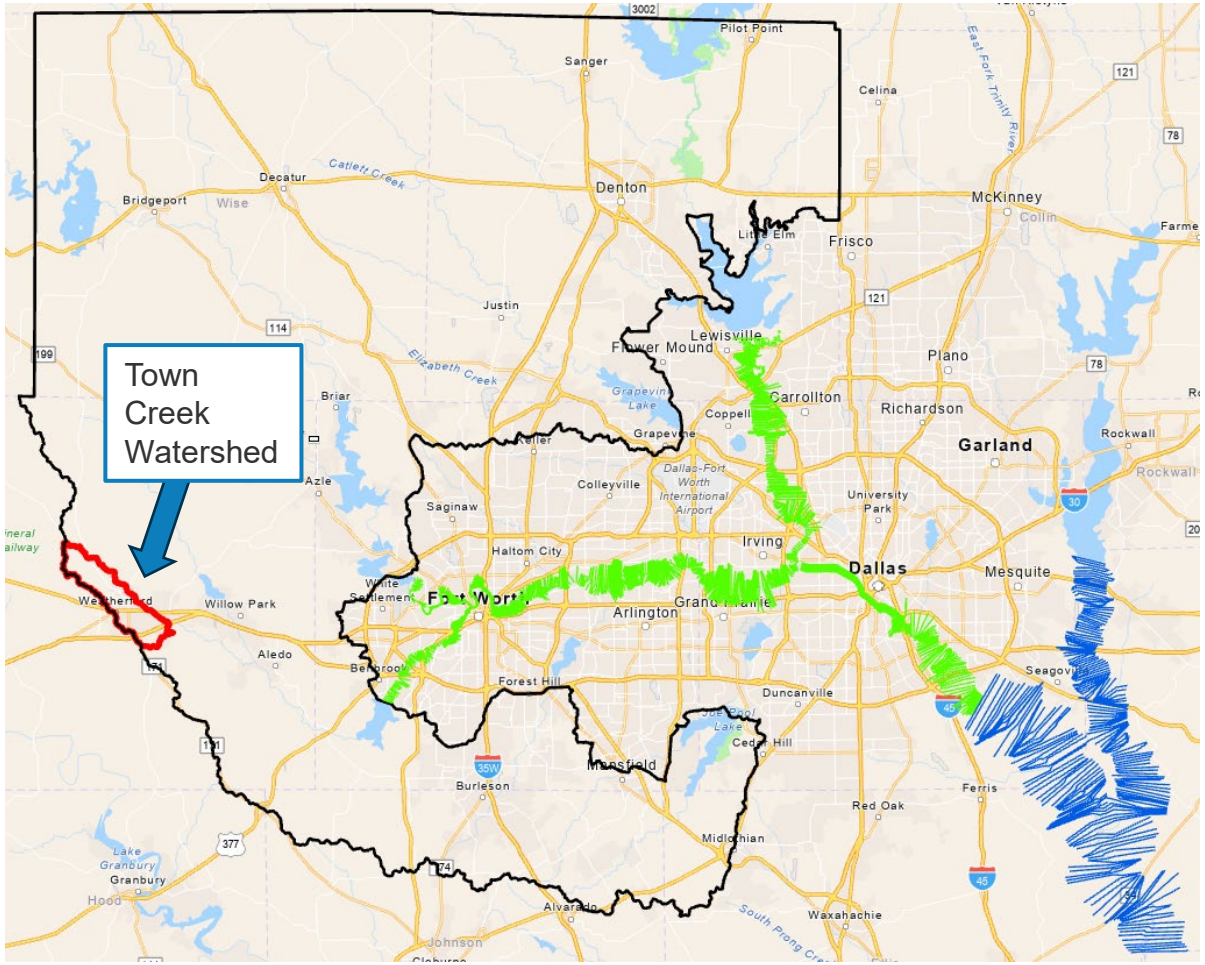
Expansion of the Corridor Development Certificate Process

Pilot Study:

- Communities within the TSI project were presented the opportunity to participate in the Pilot Study
- **City of Weatherford** selected due to high population, not a current CDC participant, and availability of H&H modeling to use as a basis
- **Town Creek** watershed FEMA Flood Risk Identification (FRI) study and models available

Goals and Deliverables:

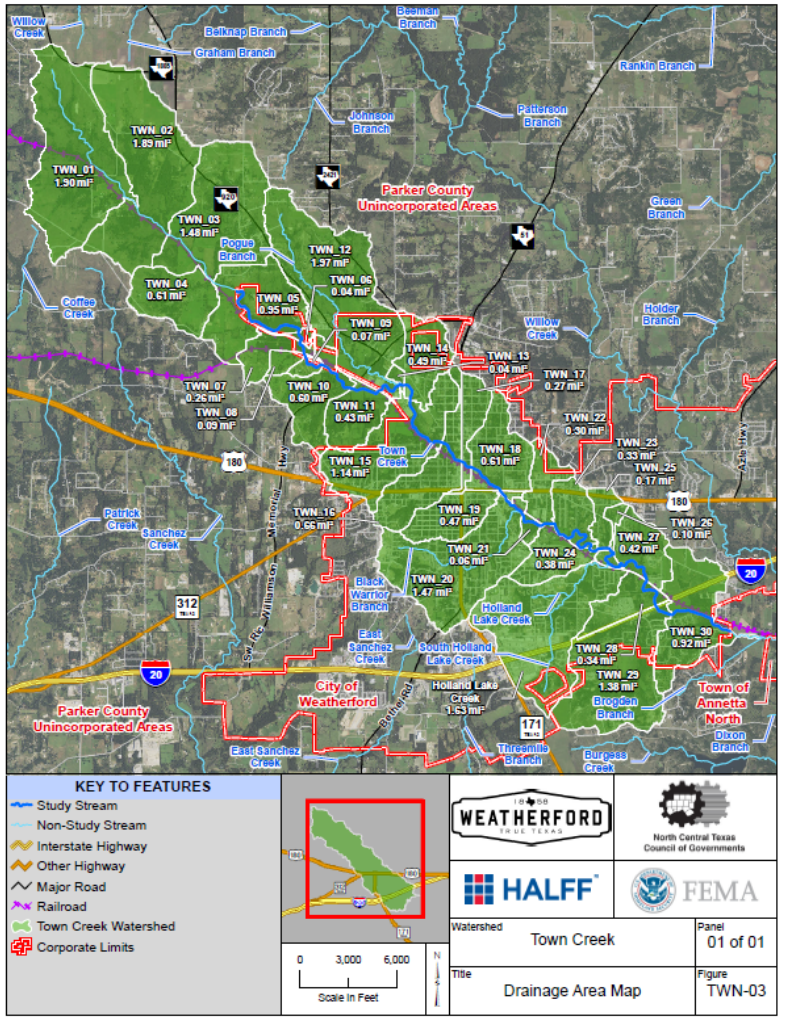
- Use Town Creek FRI study as a basis to develop pilot study CDC H&H **models** as funding allows
- Create scope, **replicable guidance**, and document lessons learned for inclusion in final TSI report
- Provide **template** USACE Floodplain Management Services (FPMS) funding application



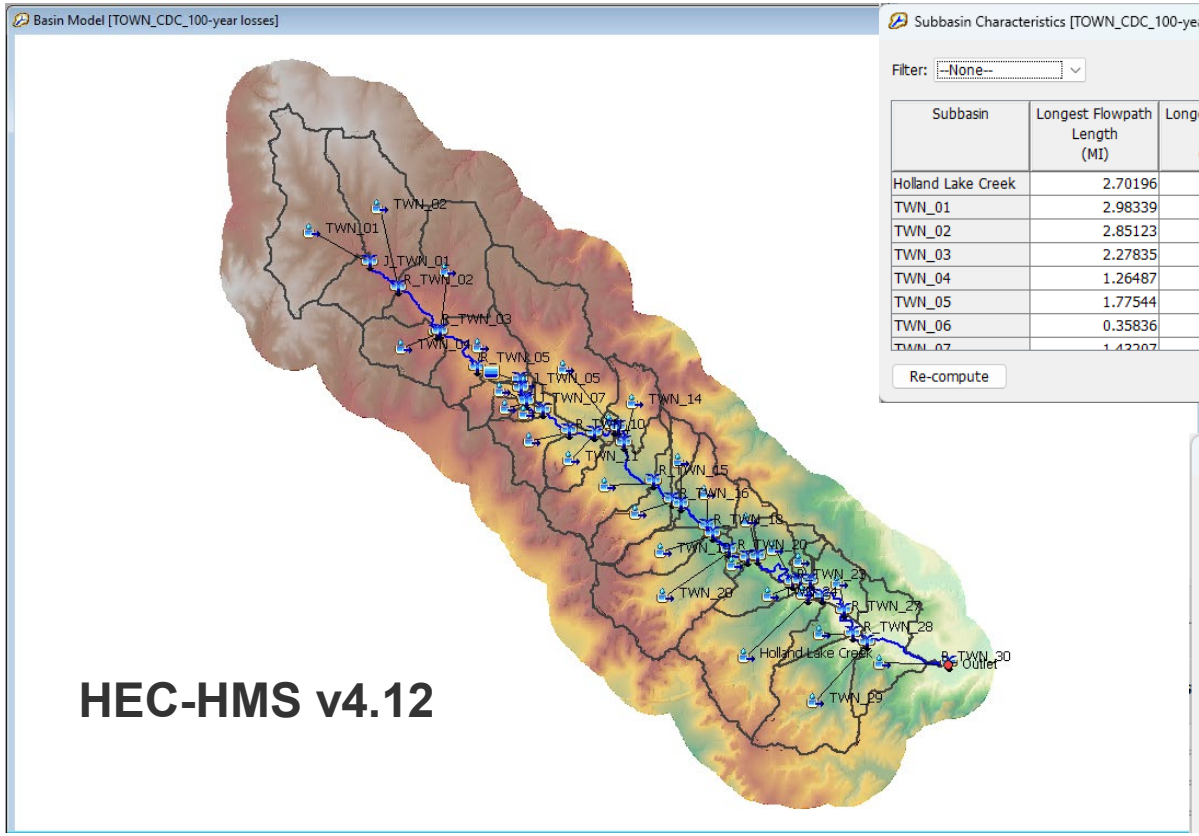
Expansion of the Corridor Development Certificate Process

CDC Expansion Model Development:

1. Convert hydrologic model to CDC Methodology
   - Use subbasin divides and GIS files from city
   - Develop Initial and Constant losses, Snyder Unit Hydrograph parameters
   - Develop 2055 land use % impervious and urbanization
2. Develop Standard Project Flood (SPF)
   - HMR 52 storm in HEC-MetVue
   - HEC-HMS simulation with grided precipitation
3. Add plans to HEC-RAS with CDC 2055 flows
4. Compare CDC 100-year to Existing 100-year results
5. Develop inundation maps
6. Import CDC expansion plans into CDC Consolidated Model



Expansion of the Corridor Development Certificate Process



Subbasin Characteristics [TOWN_CDC_100-year losses]

Filter: --None-- Sorting: Watershed Explorer

Subbasin	Longest Flowpath Length (MI)	Longest Flowpath Slope (FT/FT)	Centroidal Flowpath Length (MI)	Centroidal Flowpath Slope (FT/FT)	10-85 Flowpath Length (MI)	10-85 Flowpath Slope (FT/FT)	Basin Slope (FT/FT)	Basin Relief (FT)	Relief Ratio	Elongation Ratio	Drainage Density (MI/MI²)
Holland Lake Creek	2.70196	0.01406	1.34820	0.01072	2.02647	0.01242	0.05447	200.51819	0.01406	0.53291	2.07165
TWN_01	2.98339	0.00905	1.02285	0.00818	2.23754	0.00866	0.04598	146.69861	0.00931	0.52403	2.61278
TWN_02	2.85123	0.01041	1.15717	0.00622	2.13842	0.01034	0.04808	162.26514	0.01078	0.53964	2.81766
TWN_03	2.27835	0.01223	1.03085	0.00980	1.70876	0.01055	0.04778	149.78491	0.01245	0.60142	2.56994
TWN_04	1.26487	0.02173	0.48598	0.01900	0.94865	0.01976	0.05267	142.96399	0.02141	0.70347	2.09246
TWN_05	1.77544	0.00652	0.78896	0.00201	1.33158	0.00420	0.03948	132.26904	0.01411	0.61866	2.41358
TWN_06	0.35836	0.01491	0.07380	0.00974	0.26877	0.01518	0.06820	52.94580	0.02798	0.63293	3.40779
TWN_07	1.43207	0.01624	0.88024	0.01055	1.07405	0.01300	0.04617	149.78528	0.01081	0.40024	2.28487

Re-compute Apply Close

Snyder Unit Hydrograph [TOWN_CDC_100-year loss...

Filter: --None-- Sorting: Watershed Explorer

Standard Ft Worth Tulsa

Subbasin	Snyder Method	Lag Time (HR)	Peaking Coefficient
Holland Lake Creek	Standard	0.811	0.65
TWN_01	Standard	0.916	0.65
TWN_02	Standard	0.885	0.65
TWN_03	Standard	0.681	0.65
TWN_04	Standard	0.352	0.65
TWN_05	Standard	0.618	0.65
TWN_06	Standard	0.137	0.65

Initial and Constant [TOWN_CDC_100-...

Filter: --None-- Sorting: Watershed Explorer

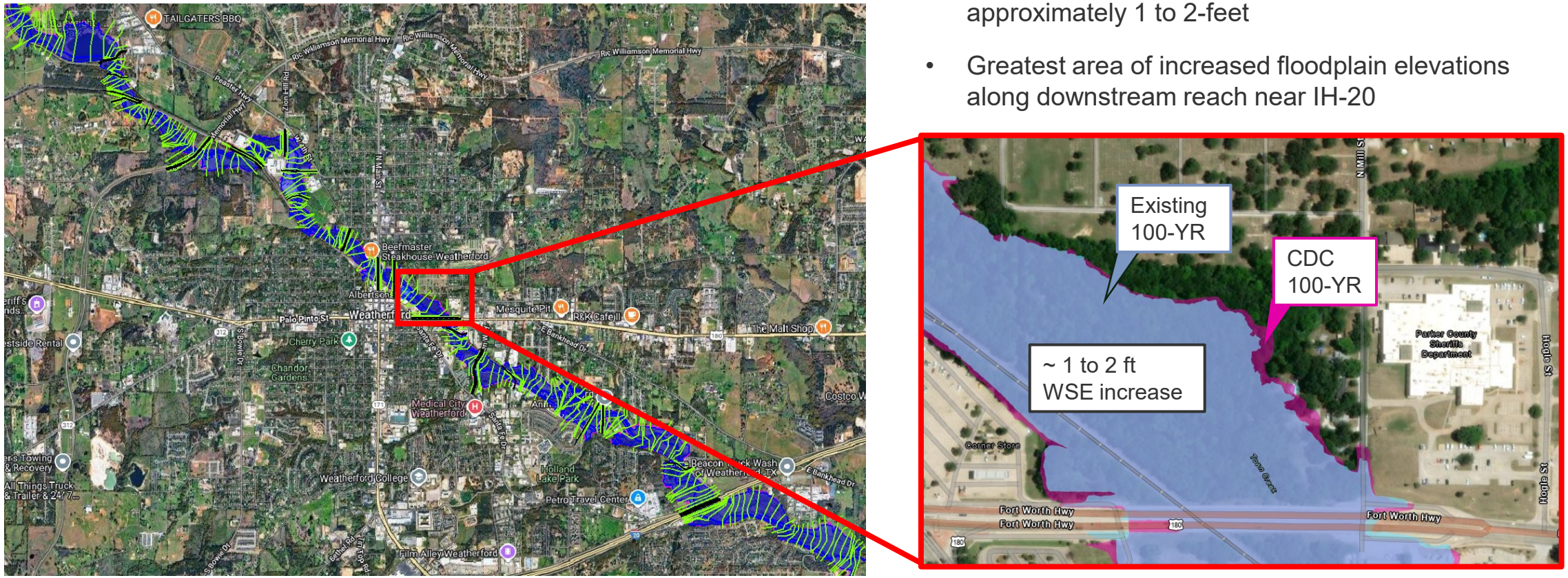
Subbasin	Initial Loss (IN)	Constant Rate (IN/HR)	Impervious (%)
Holland Lake Creek	4.29	0.10	54
TWN_01	0.87	0.09	22
TWN_02	0.87	0.09	23
TWN_03	0.87	0.09	33
TWN_04	0.88	0.10	41
TWN_05	0.86	0.09	40
TWN_06	0.91	0.10	44

Note: USACE Fort Worth District CDC hydrologic parameters and subbasin characteristics can be developed using automated GIS and HEC-HMS tools. Terrain data needed for process (TxGIO, etc.)

Expansion of the Corridor Development Certificate Process

Results:

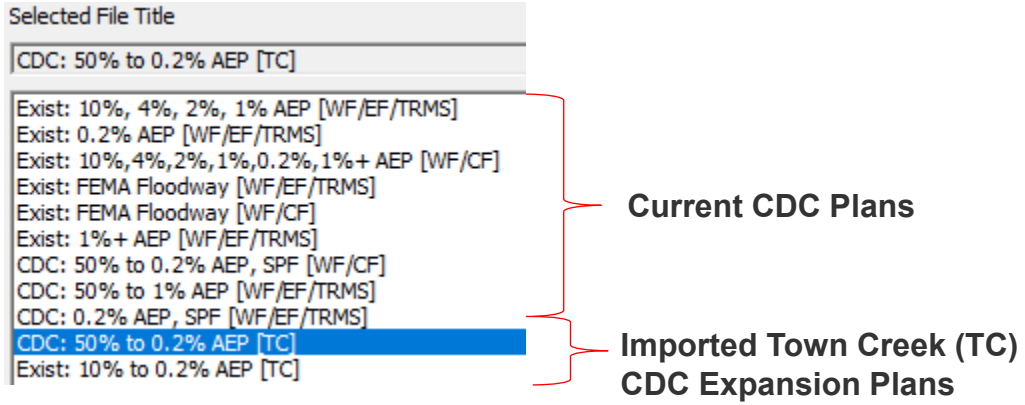
- 100-year peak discharge increases from 9% – 20%
- 100-year water surface elevations increases were approximately 1 to 2-feet
- Greatest area of increased floodplain elevations along downstream reach near IH-20



Expansion of the Corridor Development Certificate Process

Model Consolidation:

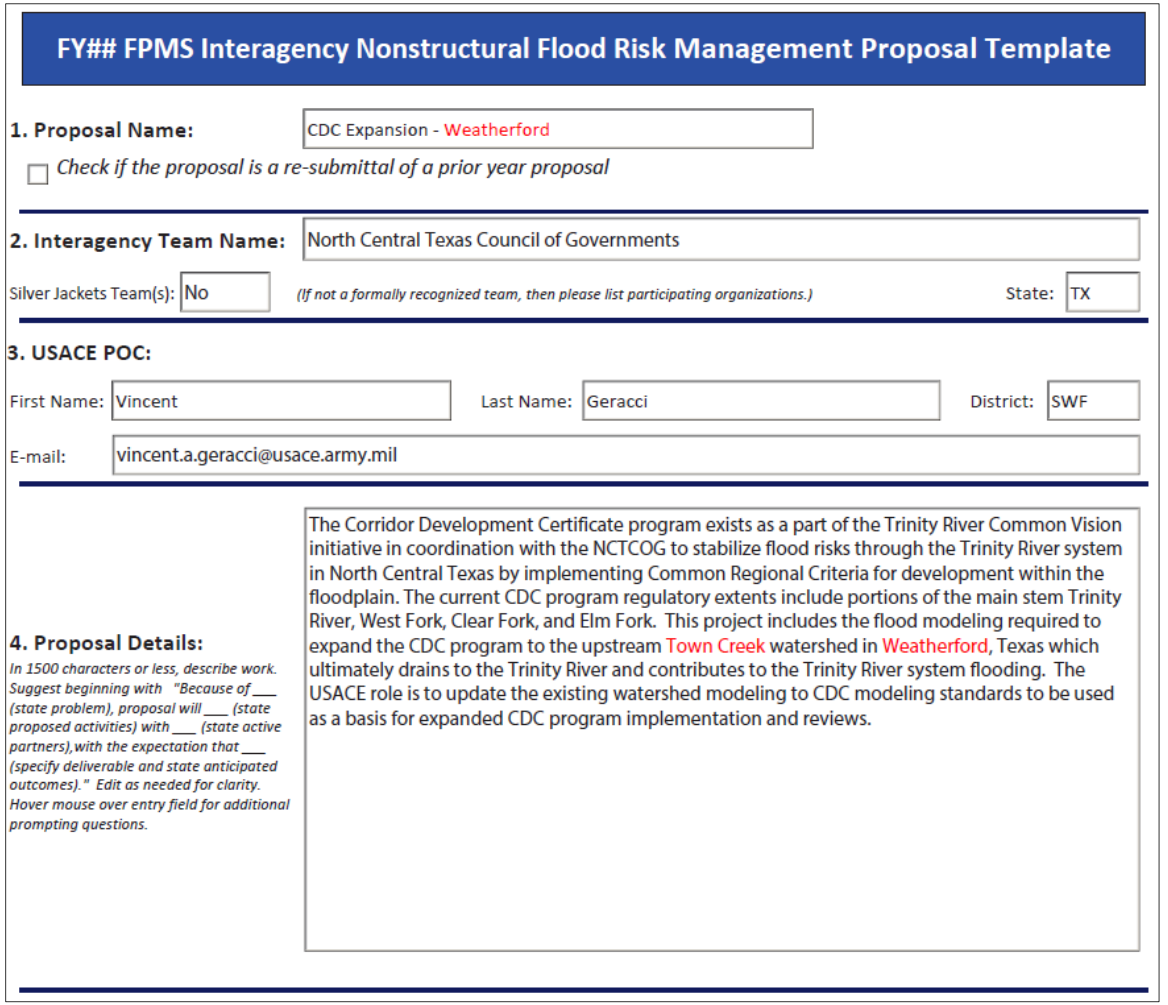
- Not practicable to connect RAS geometries to downstream CDC model
- CDC Expansion Plans can be copied into CDC Consolidated Model so that all plans are in one HEC-RAS .prj file



Expansion of the Corridor Development Certificate Process

Model Development for other communities:

1. Existing **FEMA 1D** HEC-RAS Model and HEC-HMS Model
2. Existing **FEMA 2D** HEC-RAS Model and HEC-HMS Model
3. No existing FEMA model but within **BLE 1D** HEC-RAS coverage
4. No existing FEMA model but within **BLE 2D** HEC-RAS coverage
5. No existing FEMA models and no BLE models



FY## FPMS Interagency Nonstructural Flood Risk Management Proposal Template

1. Proposal Name: CDC Expansion - Weatherford

☐ *Check if the proposal is a re-submittal of a prior year proposal*

2. Interagency Team Name: North Central Texas Council of Governments

Silver Jackets Team(s): No *(If not a formally recognized team, then please list participating organizations.)* State: TX

3. USACE POC:

First Name: Vincent Last Name: Geracci District: SWF

E-mail: vincent.a.geracci@usace.army.mil

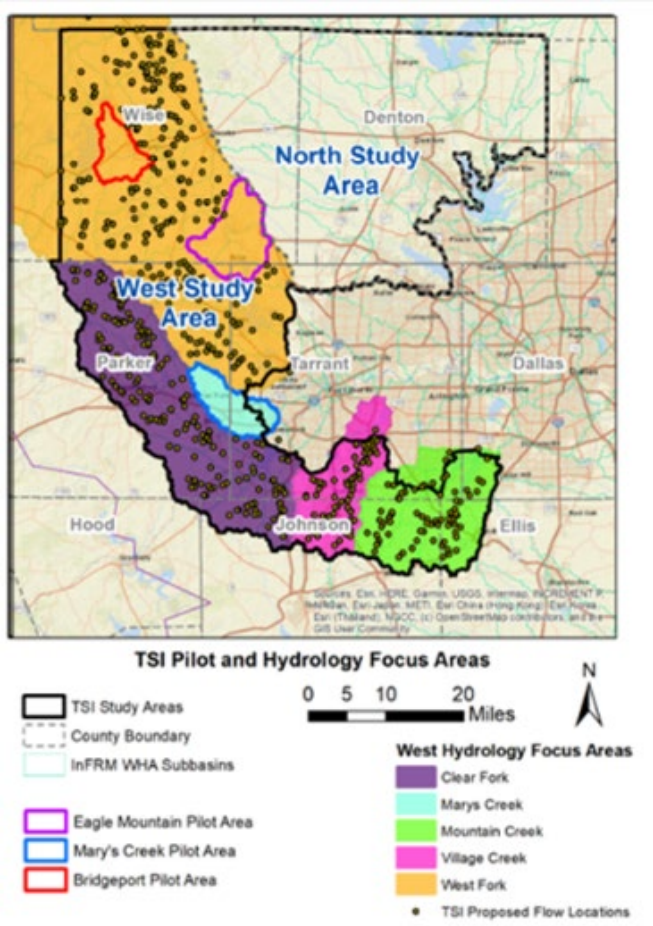
4. Proposal Details:

In 1500 characters or less, describe work. Suggest beginning with "Because of ___ (state problem), proposal will ___ (state proposed activities) with ___ (state active partners),with the expectation that ___ (specify deliverable and state anticipated outcomes)." Edit as needed for clarity. Hover mouse over entry field for additional prompting questions.

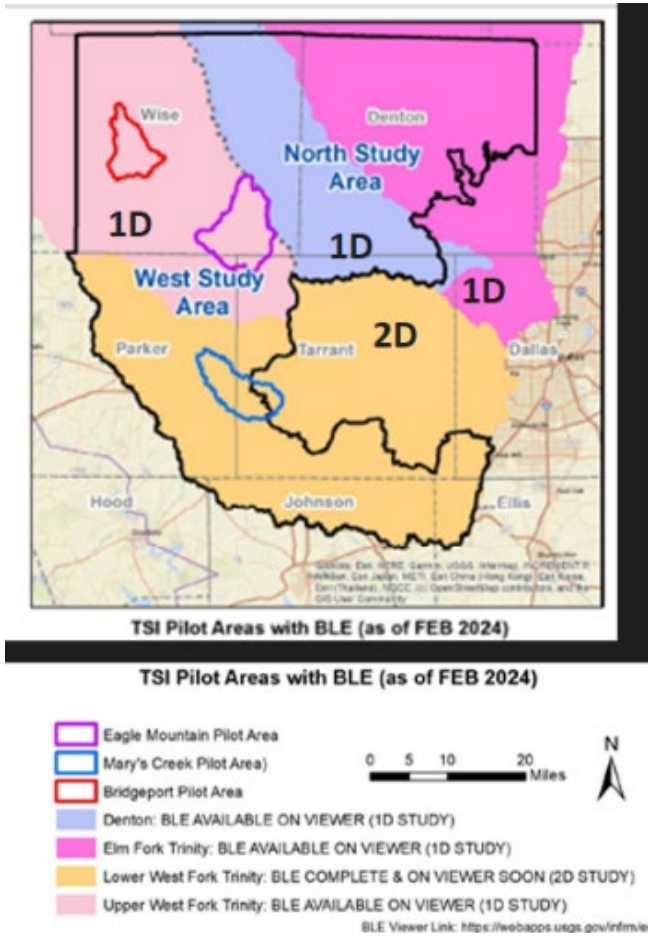
The Corridor Development Certificate program exists as a part of the Trinity River Common Vision initiative in coordination with the NCTCOG to stabilize flood risks through the Trinity River system in North Central Texas by implementing Common Regional Criteria for development within the floodplain. The current CDC program regulatory extents include portions of the main stem Trinity River, West Fork, Clear Fork, and Elm Fork. This project includes the flood modeling required to expand the CDC program to the upstream Town Creek watershed in Weatherford, Texas which ultimately drains to the Trinity River and contributes to the Trinity River system flooding. The USACE role is to update the existing watershed modeling to CDC modeling standards to be used as a basis for expanded CDC program implementation and reviews.

Expansion of the Corridor Development Certificate Process

TSI Hydrology Models:



TSI Hydraulic Models:



Expansion of the Corridor Development Certificate Process

City of Dallas Development Code (example):

SEC. 51A-5.107. TRINITY RIVER CORRIDOR DEVELOPMENT CERTIFICATE PROCESS.

(a) Definitions. In this section:

(1) CORRIDOR DEVELOPMENT CERTIFICATE (CDC) MANUAL means the manual by that title dated January 31, 1992, or its latest revision.

(2) FLOODPLAIN ALTERATION means any construction of buildings or other structures, mining, dredging, filling, grading, or excavation in the floodplain.

(3) TRINITY RIVER CORRIDOR means the portion of the floodplain of the West Fork, Elm Fork, and mainstem segments of the Trinity River floodplain within the Dallas city limits, as delineated on the latest CDC Regulatory Map.

(b) Certificate required. A person commits an offense if he makes any floodplain alteration within the Trinity River Corridor without first obtaining a corridor development certificate (CDC) from the director of water utilities. It is a defense to prosecution that an exemption or variance has been obtained in accordance with CDC criteria.

Floodplain Ordinances:

- Community must **adopt floodplain ordinance changes** requiring CDC application process
- Local floodplain administrator retains **authority** and **enforcement**
- The current CDC member communities include Arlington, Carrollton, Coppell, Dallas, Dallas County, Farmers Branch, Fort Worth, Grand Prairie, Irving, Lewisville, Seagoville, and Tarrant County

Expansion of the Corridor Development Certificate Process

Dallas County Code (example):

F. **Standards for the Trinity River Corridor and the East Fork of the Trinity and the Corridor Development Certificate** - Dallas County is a member of the Trinity River Common Vision program, meaning that the County subscribes to higher floodplain management standards along the Trinity River Corridor and the East Fork of the Trinity. Therefore, if the proposed project is located in the Special Flood Hazard Area along the Trinity River Corridor or the East Fork of the Trinity, the Corridor Development Certificate (CDC) is necessary. The application requires the study of the stream (hydrology and hydraulics analysis) using future flow rates (year 2055). Additionally, the proposed project will need to meet the following criteria:

1. No rise in the one hundred (100) year elevation or the Standard Project Flood for the proposed condition will be allowed.
2. No loss in storage capacity.
3. Alterations in the floodplain may not create or increase an erosive water velocity on or off-site.

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Expansion of the Corridor Development Certificate Process

Floodplain Administrator Responsibilities:

1. Hold **pre-application meeting**. Determine if project is located in CDC Regulatory Zone.
2. Perform **completeness check** of CDC application, ensure that current CDC Model has been used.
3. Assign **tracking number**.
4. Request Technical Review by the USACE via **written letter**.
5. Forward **copies of application** to USACE, NCTCOG, and CDC communities for technical and regional review.
6. Coordinate CDC **Cost Recovery Fee** payment.
7. Based on regional comments, Technical Review, and the floodplain administrator's own judgment, **determine final CDC action**.
8. Issue **Final CDC Action/Findings Form** to applicant, NCTCOG, USCAE and CDC participants
9. Request **annual status reports** from applicant. Forward copies to NCTCOG.
10. Re-evaluate CDC in the event of **significant changes** in project.
11. Submit responses to **CDC extension requests**. (Initial CDC valid for 5-years, can request up to 3-year extension)

Expansion of the Corridor Development Certificate Process

Participation in the Trinity River COMMON VISION:

- **Steering Committee**
  - Policy guidance
  - Voting representatives from communities that provide funding
  - Annual meeting
  - Votes on adding new members
- **Flood Management Task Force**
  - Technical support for execution of work plan
  - Quarterly meeting
- **Program Funding Shares (min. $1,000 annually)**
  - Based on acreage of floodplain within community

USACE Contacts

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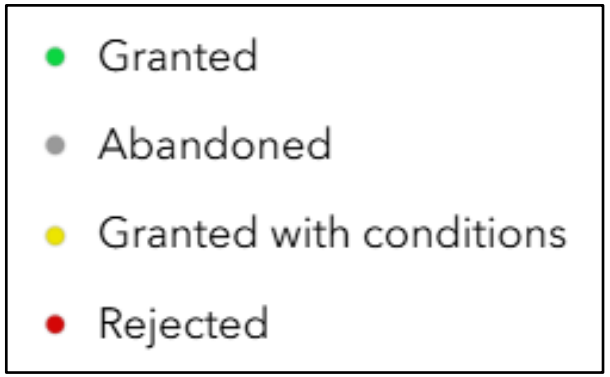
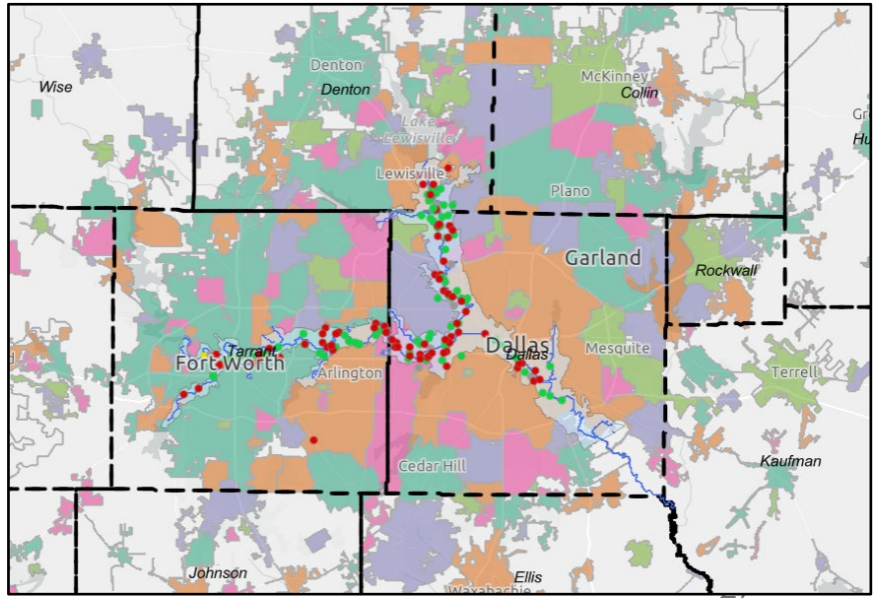
3. CDC Mapper Development

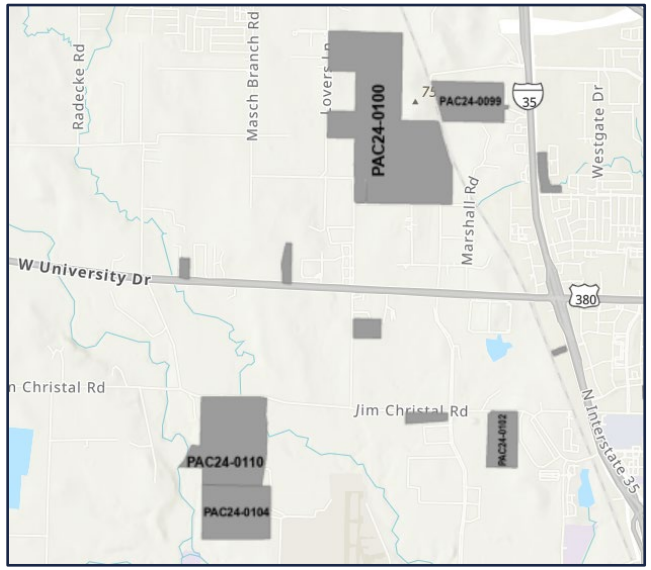
- Prototype of the Mapper has been created. Still under development.
  - FIRM layer
  - CDC applications are differentiated by color:
  - Municipalities and Counties are demarcated more clearly
  - Attribute Filter for CDC Application by year
  - Attribute Table easily accessible
  - Interface sizing capabilities
  - Submit Query box and Instructions tab





Trinity COMMON VISION

3. CDC Mapper Development



- To be completed:
  - Master CDC dataset containing all CDC applications and details
  - CDC Model layer/s
  - Disclaimer for purpose and use of Mapper
    - Not meant to replace HEC-RAS model files necessary for CDC Applications
  - CDC Application file attachment
  - Project Boundaries for non-exempt projects

❖ **Input/Feedback?**

3. FY 2027 Trinity River COMMON VISION Work Program Discussion

Click here for draft of the FY27 Work Program.

Continued I. Ongoing Support Activities:

B. Ongoing CDC Process and mapping support – **adjusted**

C. Continued sponsorship of FEMA NFIP training courses – **condensed**

~~**H.** Maintenance of the CDC Application and Tracking Website –~~ **moved (I.B.)**

Trinity COMMON VISION

3. FY 2027 Trinity River COMMON VISION Work Program Discussion

Click here for draft of the FY27 Work Program.

Continued II. Additional Technical Activities for FY 2027:

~~**A.** Participation in the Model Consolidation Committee~~ – **removed/sunset**

B. Update the CDC Manual to the 5th Edition – **adjusted**

C. Online CDC Mapper Development – **addition**

E. Expand the CDC Program within the TSI Study Area – **addition***

F. Update Communities' Acreage in Floodplain (FIRM) – **adjusted**

H. Annual Summary Report – **addition**

***No change anticipated in cost shares.

Trinity COMMON VISION

3. FY 2027 Trinity River COMMON VISION Work Program Discussion

- By-laws
  - We are researching the history of the Trinity River COMMON VISION Steering Committee and FMTF and will be reviewing what we find for next steps.

INFORMATION ITEMS

4. Upcoming Events

Virtual Events	
June 30 *12 p.m. – 1 p.m.*	FEMA Virtual Brown Bag *Topic to be decided*
July 28 *12 p.m. – 1 p.m.*	FEMA Virtual Brown Bag *Topic to be decided*
August 25 *12 p.m. – 1 p.m.*	FEMA Virtual Brown Bag *Topic to be decided*

4. Upcoming Events

NCTCOG Events	
May 21 *10 a.m. – 12 p.m.*	Public Works Council Meeting *NCTCOG Offices – Centerpoint 2; Regional Forum Conference Room*
July 15 *1:30 p.m. – 3:30 p.m.*	iSWM Subcommittee Meeting *Virtual Meeting via Microsoft Teams*
August 13 *9:30 a.m. – 11:30 a.m.*	Public Works Council Meeting *Virtual Meeting via Microsoft Teams*
August 20 *8:30 a.m. – 4 p.m.*	2026 Public Works Roundup *1601 Campus Drive, Hurst, 76054, TX, USA*

4. Upcoming Events

In-Person Events	
May 26 – 29	Texas Emergency Management Conference Fort Worth Convention Center *Fort Worth, TX*
May 31 – June 4	2026 ASFPM Conference Baird Center *Milwaukee, WI*
June 17 – 19	TWA 2026 Summer Conference Horseshoe Bay Resort *Horseshoe Bay, TX*

4. Upcoming Events

In-Person Events	
August 25 - 28	TFMA 2026 Technical Summit Hyatt Hill Country Resort *San Antonio, TX*
Aug. 30 - Sept. 2	APWA Public Works Expo The George R. Brown Convention Center *Houston, TX*
October 7 – 9	Texas Water Association – Fall Conference San Antonio Marriot Riverwalk *San Antonio, TX*

5. Q4 Meeting Workshop

Texas Disaster Information System (TDIS) & Flood Risk Explorer

- Workshop to be held at the next FMTF Meeting on August 21st
  - Presentation by Dr. Federico Antolini
    - Institute for a Disaster Resilient Texas (IDRT) est. by Texas A&M University
  - Will run approx. 1 hour
- Flood data and products from TDIS

❖ **In-person or Virtual?**

6. L0273 Course and CFM Exam

Managing Floodplain Development Through the NFIP

- Course Request Form has been submitted to FEMA for approval
  - **Proposed** schedule for course:

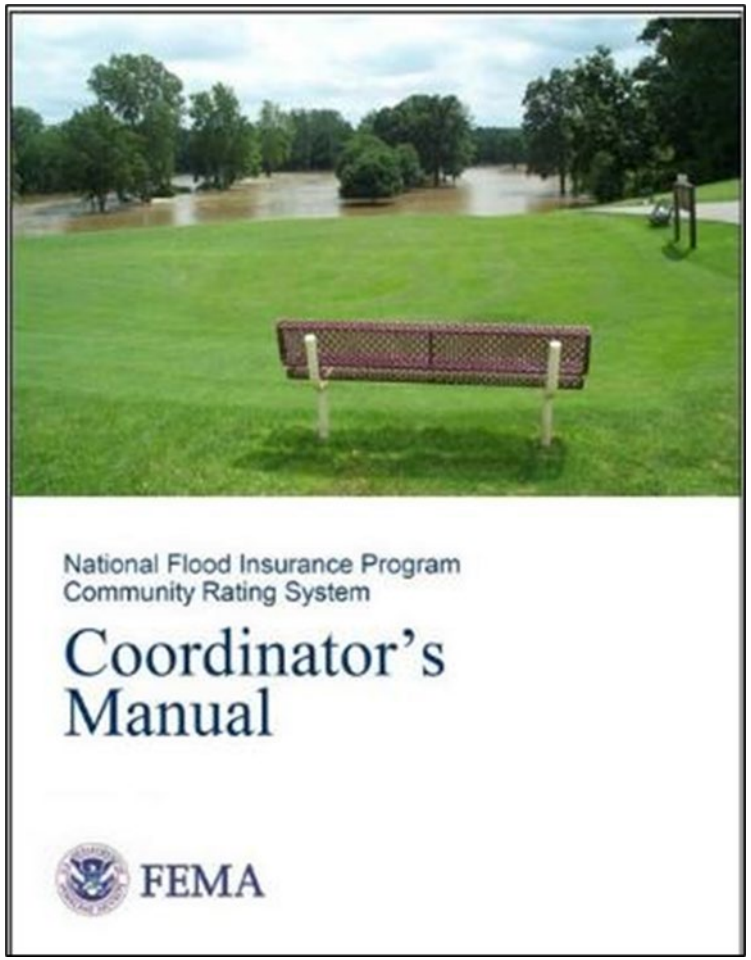
    September 21st – 24th
  - Awaiting Notice of Decision
- TFMA has agreed to proctor CFM Exam on **September 25th**

6. Other Program-Related Efforts

North Texas Floodplain Administrators/CRS Users Group

Next Meeting

- *To be decided*
- Agenda: “Low Hanging Fruit” CRS Credit Opportunities, Multi-Jurisdictional Program for Public Information, Roundtable
- Funding question



6. Other Program-Related Efforts

integrated Stormwater Management Program

Last Meeting: April 14, 2026

- Overview of Sustainable Development & Blue-Green-Gray funding programs, highlighting GSI implementation and replication opportunities.
- FY26 Work Program updates:
  - Completed cumulative impacts of small-footprint development.
- Began discussion of potential FY27 work program priorities, including manual usability and modernization concepts.
  - iSWM subcommittee website
  - iSWM FY 27 Work Program Task survey

Next Meeting: July 15, 2026, @ 1:30 PM (Virtual via Teams)
Topics: Vote on FY27 iSWM Work Program tasks

integrated Stormwater Management iSWM

OTHER BUSINESS & ROUNDTABLE DISCUSSION

7. CDC Applications

Updates Since FMTF Meeting on 2/20/2026

New CDC Applications

- *FW 090425-1 (CDC-104) – comment period open *(ext.)*
- DC 12022025 (CDC-113) – comment period open *(ext.)*
- DC 20260409 (CDC-118) – exemption
- FW 040926-1 (CDC-119) – exemption
- CAR 042326-1 (CDC-120) – comment period open
- *IRV 120125-1 (CDC-121) – comment period open

Technical Review Under Progress

- IRV 050525-1 (CDC-110)

Permits Issued/Meets Criteria

- FW 021226-1 (CDC-117)

***Please don't forget to upload your Final Action Forms

Any projects in QNTRL whose status needs updating?

During the Roundtable, please share any new CDC applications you anticipate being submitted.

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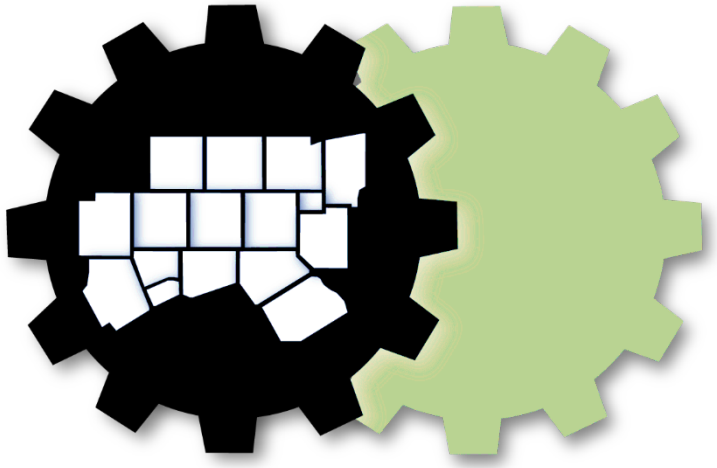

8. Open Discussion

9. Upcoming Meeting

Friday – August 21, 2026

9:30 AM

TBD

10. Adjournment

Contact

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