

Flood Management Task Force

November 19, 2021



North Central Texas
Council of Governments
Environment & Development

Welcome and Introductions

- Thanks for attending!
- Please introduce yourself in the chat box.
- Please mute your line.
- Unmute your line when you would like to speak during question and discussion time.
 - We will also watch the chat box for questions

Meeting Summary Approval

- The link to the [August meeting summary](#) is available in the chat.
- Please inform Breanne Johnson of any corrections or additions, at bjohnson@nctcog.org.

FY2022 Trinity River Common Vision Work Program

NFIP/CDC Model Consolidation Team

- The USACE funded two ongoing studies related to CDC model consolidation.
 - Updating the newly georeferenced CDC model with approved but not yet constructed CDC project geometries from 2017 onward and future flows.
 - Creating the CDC future flows for the FEMA detailed study on the East Fork Trinity and the Trinity mainstem to extend the consolidated model.
- The USACE set aside \$485,000 from the Floodplain Management Services (FPMS) fund to complete these scopes. Internal coordination at the USACE is occurring and additional information will be shared with external partners as they become available.

FY2022 Trinity River Common Vision Work Program

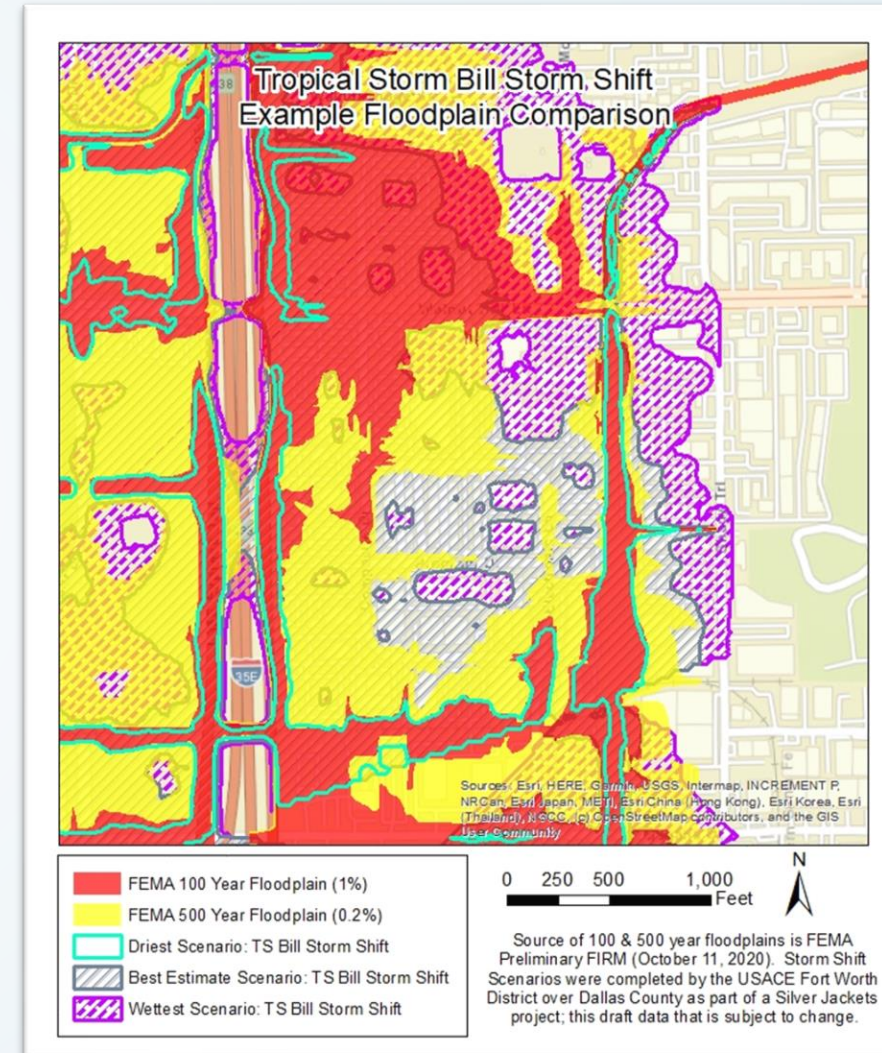
Upper Trinity Storm Shift Silver Jackets Study Update

Summary:

- \$100K Silver Jackets Project to shift storms that have occurred in/around North Texas and demonstrate their resulting floodplains and impacts if they had occurred in Dallas County
- Silver Jackets application identified NCTCOG, FEMA Region 6, Dallas County, and Texas General Land Office as partners & coordinating with additional stakeholders and partners
- Partnership and community collaboration is essential
 - To provide additional updates at December or January stakeholder meeting

Future:

- Anticipate completing study and sharing results in early 2022.
- Texas Storm Study: USACE effort that will provide a list of storms (based on region) that can be used in storm shifting and to inform other projects
- Potential integration with planning & visualization tools such as CHARM (Community Health And Resource Management)
- To complete additional storm shifting studies (San Marcos), continue coordination, integrate with hydrology studies, and possible InFRM product
- Transportation and Stormwater Integration (TSI) project



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FY2021 Trinity River Common Vision Work Program

CDC Manual Update to the 5th Edition

- The NFIP-CDC Model Consolidation Team had meetings on September 17th, October 22nd, and November 12th to continue work on the 5th edition update.
 - Section 3: The CDC Process, Section 1: Introduction and Section 2: CDC Regulation & Criteria have been reviewed and revised with the final draft proposed.
 - Section 4: CDC Submittal Requirements and Application forms are in the process of being revised and reviewed
- The Team will meet next on December 17th to finish review of Section 4 and forms
- Upcoming meetings will discuss Appendices and additional documents (FAQs)
- Updates will be brought to the FMTF throughout the process and your feedback will be requested.

FY2021 Trinity River Common Vision Work Program

CDC Manual Update to the 5th Edition

Current Manual

Chapter 1 General Information

Chapter 2 CDC Common

Permit Criteria

Chapter 3 CDC Application

Requirements

Chapter 4 The CDC Process

Appendices

Revised Manual

Summary of Changes

Glossary

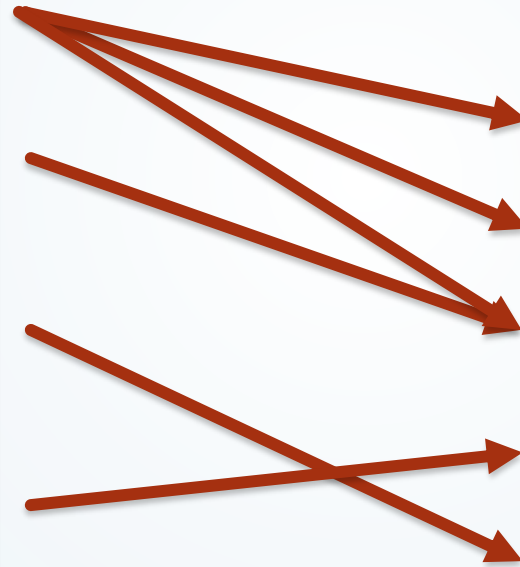
Section 1 Introduction

Section 2 CDC Regulation and Criteria

Section 3 The CDC Process

Section 4 CDC Submittal Requirements

Appendices



FY2021 Trinity River Common Vision Work Program

CDC Manual Update to the 5th Edition

- Main Updates and Revisions included in the new manual
 - Updating the CDC Process to include the NFIP-CDC Consolidated Model.
 - Inclusion of new Trinity River CDC website
 - CDC will be valid for two years instead of current five years and one year extensions given instead of three years
 - CDC Cost Recovery Fee renamed to CDC Application Fee
 - Addition of Model Maintenance Fee following completion of project

FY2021 Trinity River Common Vision Work Program

CDC Manual Update to the 5th Edition

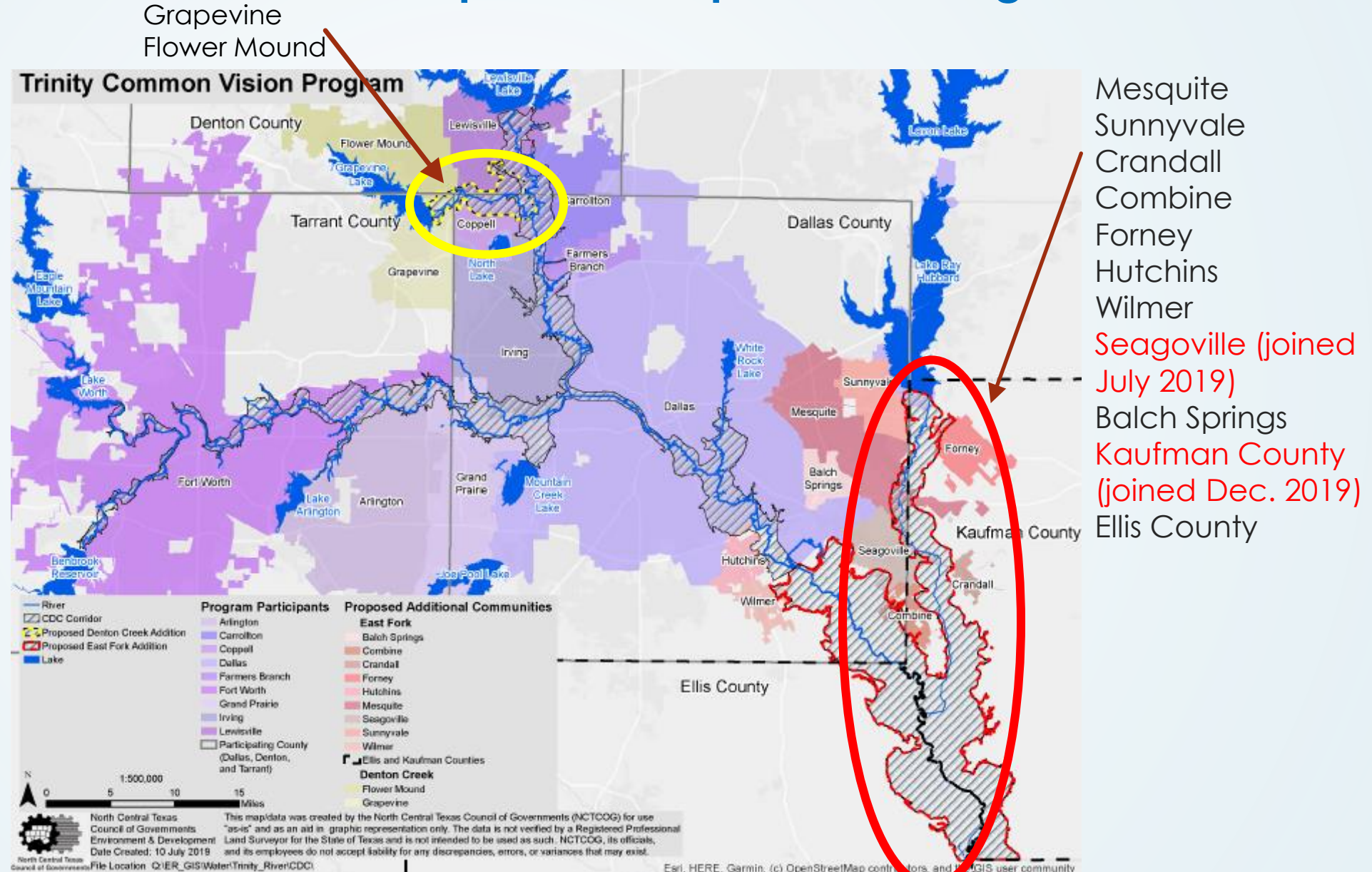
➤ For Discussion

- What are the common questions or concerns that come to you from property owners or developers?
- What questions do you have about the process most often?
- What kind of FAQs or additional documents would you like provided?

FY2021 Trinity River Common Vision Work Program

East Fork/Denton Creek Update to Expand the Program

- NCTCOG to follow-up with City of Grapevine on interest from September 2021
- Still lots of work to do for the East Fork potential participants



Regional Flood Early-Warning Software

www.flooddatantx.com



Overview

Cooperative Contract of North Texas Share created in August 2018 with the NCTCOG Environment and Development Dept & member communities of the Flood Management Task Force.

- Communities can set pre-defined alerts
- Visualize gauge readings to better prepare for storms
- Allows any community to join regardless of system size
- Flexible tiers including ancillary services



Stage Level Map

Participating Communities

- City of Arlington
- City of McKinney
- City of Frisco
- TRWD
- DCURD
- City of Grand Prairie
- Town of Highland Park



Rainfall Map

- City of Fort Worth feeds data to website

Shared Tier > Entry & Intermediate

- Agency Branded Web Site
- Visualize & Download Regional Data (as CSV, Excel or Tab Formats)
- Alarm on Shared Regional Rain – Stream Level – Air Temp Gauges
- Edit Dashboards or Homepage
- Gauge Adjusted Radar Rainfall

Intermediate:

- Collect – Visualize – Store – Alarm Agency-Owned Gauging Data
- Send Data to NWS

Dedicated Tier > Advanced 1 & Advanced 2

- Dedicated Cloud Resource
- Collect – Visualize – Store – Alarm Agency-Owned Gauging Data
- Access to Regional Gauges
- Download Regional & Local Data (CSV, Excel, or Tab Formats)
- Agency-Branded Web Site
- API Access for Integrating into 3rd-Party Websites
- Send Data to NWS
- Advance Reporting (Network Maintenance & Full Data Download)
- 2-Way Command & Control (High Water Detection System)
- Configurable to Meet Agency Needs

Note: Tier 1 = 100 Sensors | Tier 2 = Unlimited Sensors

Mission Critical Tier > Redundancy & High Redundancy

In Addition to Advanced Tier 1 or Tier 2

- Dedicated Cloud Resource & Local Instance
 - OR
 - 2 Cloud Resources in Separate Data Centers & Local Instance
-
- Collect Additional Data Sources (via Generic Data Agent)

Ancillary Services

- Client Set-up & Configuration
- Training (WebEx or On-site)
- Optional Tech Services (Historical Data Load, Custom Data Feed)
- Contrail Field Decoder (Verify Field Communication & Configuration)

Summary

Features:	
View sensor data	✓
Display & view alerts	✓
Create & modify station parameters	✓
View station health data	✓
Access to regional gauge data	✓
Send data to NWS	✓
Agency branded web site	✓
Configure to meet agency needs	✓

Thank You

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FY2022 Trinity River Common Vision Steering Committee Meeting

- The Trinity Common Vision Steering Committee met on September 9th, 2021.
 - Meeting summary and recording are [available online](#).
- Approved the [FY22 Work Program](#) as recommended by the FMTF
- Discussions on updated Cost Shares for FY23 to continue over this fiscal year.
 - Steering Committee may vote to approve a Cost Share increase at next annual meeting, so please set aside budget for the updated cost shares during your upcoming budget processes (some of our members start this process in February). As a reminder, these have not changed since 2001.
- Steering Committee roster was updated prior to the meeting – thank you for that assistance
- We may need to organize a special off-cycle Steering Committee vote to approve the update to the 5th Edition CDC Manual when the updates are complete and recommended for approval by this task force.

FY2022 Trinity River Common Vision Steering Committee

► Updated FY2022 Steering Committee Roster

Arlington
Carrollton
Coppell
Dallas
Dallas County
Denton County
Farmers Branch
Fort Worth
Grand Prairie
Irving
Kaufman County
Lewisville
Seagoville
Tarrant County
Tarrant Regional Water District
Trinity River Authority

Jim Ross, Mayor
Kevin Falconer, Mayor
Wes Mays, Mayor
Cara Mendelsohn, Councilmember
John Wiley Price, Commissioner
Bobbie Mitchell, Commissioner
Robert Dye, Mayor
Dr. Jared Williams, Councilmember
Jorja Clemson, Councilmember
Rick Stopfer, Mayor
Ken Cates, Commissioner
TJ Gilmore, Mayor
Dennis Childress, Mayor
B. Glen Whitley, County Judge
Leah King, Board Member
Edward Cary Williams III, Board Member

FY2022 Trinity River Common Vision Cost Share Invoices

- FY22 Cost Share invoices have now been sent to all Trinity Common Vision member communities.
- These amounts have not changed from the 2001 Cost Share amounts, but....
- If any member is able to contribute additional funds to support the program beyond their invoiced Cost Share amount, please let NCTCOG know!

Other Program Related Efforts

Efforts Toward Integrated Transportation & Stormwater Planning

What is the TSI project?

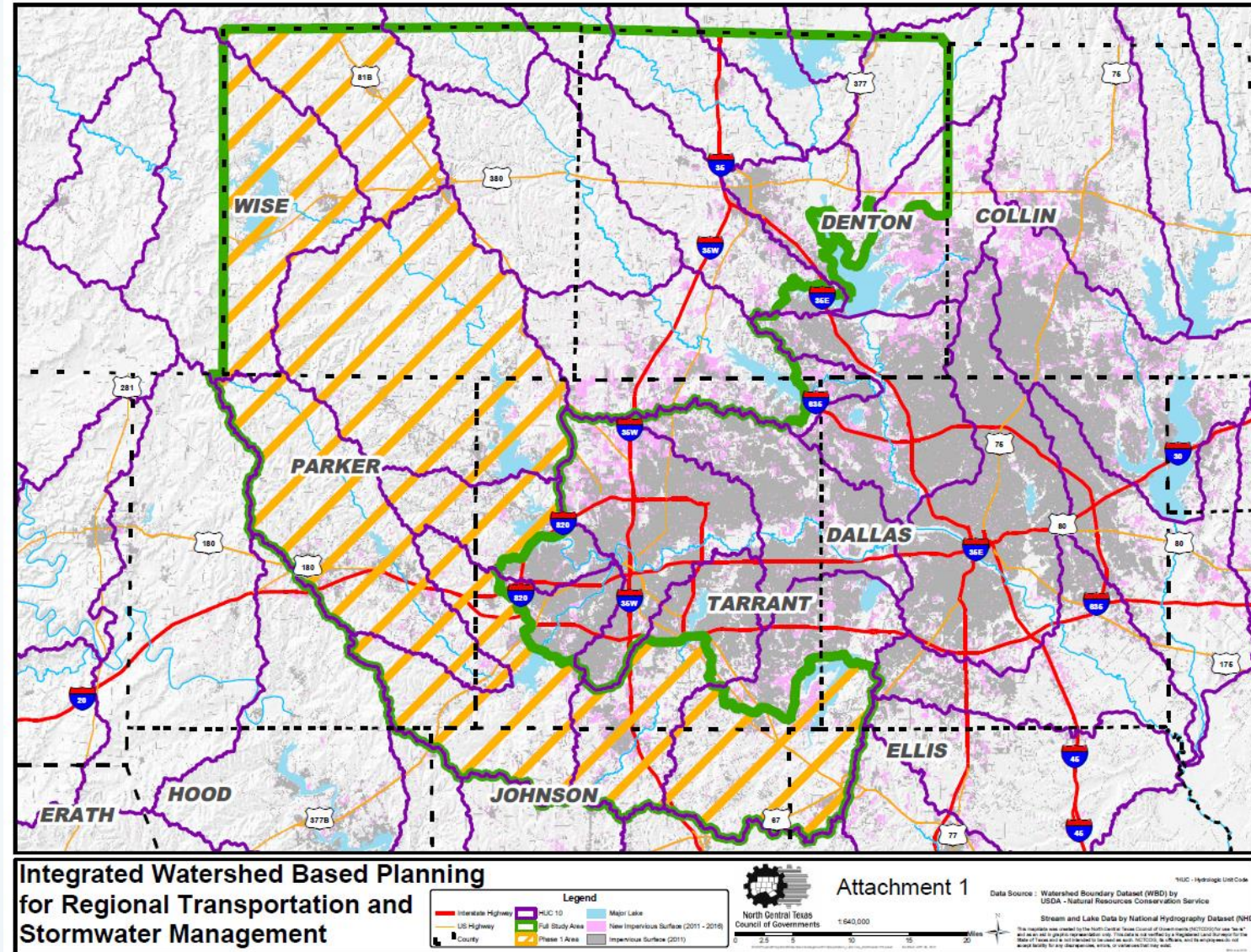
- Integration of regional stormwater management, urban development, transportation, and environmental planning: a collaborative effort with regional Transportation planners
- Proactive Prevention vs. Response

Project Kickoff (Fall)

- Initial community survey completed
- Project lead and partner organization meetings ongoing to discuss contracting
- NCTCOG is preparing CHARM for use in planning and engagement activities

Project Website:

<https://www.nctcog.org/envir/watershed-management/upper-trinity-river-transportation-and-stormwater>



Funding for Integrated Transportation and Stormwater Planning

	Submitted Applications	CONFIRMED FUNDS			ANTICIPATED FUNDING
Funding Agency/ Funding Opportunity Name	USACE (Various Authorities)	TWDB (Flood Infrastructure Fund)	Regional Transportation Council (Transportation Dollars)	FEMA (Community Outreach and Mitigation Strategies)	General Land Office (CDBG MIT or Other Funding Category)
Requested Funding	\$3.0 Million	\$3.0 Million	\$3.0 Million	\$80,000	\$4.0 Million
Current Status	Submitted to USACE Fort Worth District in 2020.	Approved by TWDB May 27th; working to finalize Grant Agreement process with TWDB by Nov. 30.	STBG Match funding for the TWDB FIF Grant – Agreement in process of finalization.	Award received; Phase 1 engagement is in the early stages.	USACE to receive funding from GLO with NCTCOG as a partner for the North project area.

Other Program Related Efforts

North Texas Floodplain Administrators/CRS Users Group

- CECs should have now been administered by TFMA for the July 29th Combined CRS Users Group/Elected Officials Seminar.
 - If you are still missing your CECs from this event, please contact Breanne Johnson at bjohnson@nctcog.org.
- NCTCOG will begin planning the next CRS Users Group meeting to be held in early 2022.
- Please send any topic/speaker ideas for future CRS Users Group meetings to Breanne Johnson.

Other Program Related Efforts

25th Annual FEMA L-273 Four-Day Course

- The Annual L-273 Course for floodplain managers was hosted by FEMA, TWDB, and NCTCOG from November 8-11, 2021, at NCTCOG's offices in Arlington.
 - 30 attendees
- NCTCOG hosted two sessions of the CFM exam on November 12th.
 - Thanks to City of Dallas and Halff Associates for proctoring the exams!
 - Exam results will be emailed to participants by TFMA

Other Program Related Efforts

Cooperative Technical Partnership (CTP) Program

➤ FY18 Flood Risk Projects

- *Complete:* **Mary's Creek (Parker County)** flood risk identification is complete.

100% Complete

➤ FY19 Flood Risk Projects

- **Harriet Creek (Denton County, 7 miles)** – Survey is ongoing and hydrologic and hydraulic analysis is underway.
- **Waxahachie Creek (Ellis County, Midlothian, Waxahachie; 19 miles)** - Survey complete and hydrologic and hydraulic analyses underway.

45% Complete

60% Complete

➤ FY20 Flood Risk and Outreach Projects

- **Catherine Branch (Denton County)** – Survey complete and hydrologic and hydraulic analyses underway.
- *In Progress:* Transportation and Stormwater Integrated Project Engagement – Community survey complete; stakeholder list developed; initial community meetings in early 2022.

40% Complete

➤ FY21 Flood Risk Projects

- NCTCOG was awarded FY21 CTP grants for five projects including: Program Management; Hog Branch (Denton County); East Fork (Lowery Crossing and McKinney); Upper West Fork Discovery; COMS Project (CHARM Outreach Workshops)

Other Program Related Efforts

integrated Stormwater Management (iSWM)

Integrated Stormwater Management (iSWM) Subcommittee

- Task Order 6 Update: The iSWM Subcommittee approved the following work scope for Task Order #6 :
 - Task 2 – Reorganize/Re-evaluate Site Development Controls
 - Task 3 – BMP Design and Maintenance Training
 - Task 4 – Technical Manual Updates
 - Task 5 – Guidance on Forebay Design
 - Task 6 – Hydrologic Mimicry Research
 - Task 7 – Technical Assistance for Case Studies
 - Task 8 – Economic Benefits of iSWM Research
- At their July meeting, the subcommittee discussed Outcome 17 (Water Quality) on the iSWM Tiered Implementation Form and created a volunteer group to review and bring forward new language to clarify the documentation. The volunteer group met and requested that Halff Associates, as the consultant, come up with some language for the group to review. The proposed language will be reviewed by the volunteer group prior to bringing it forward to the subcommittee.
- Next Meeting: **January 12, 2022 at 1:30 p.m.**
- RFPs for iSWM consultant selection for the next 5-years will be initiated in the near future.

Other Program Related Efforts

Trinity River National Water Trail Task Force



➤ What is the Task Force?

- Coordinated effort between the Trinity Coalition, NCTCOG, and the communities and organizations situated on the Upper Trinity River to support the Paddling Trail's National Water Trail designation by the National Park Service.
- Goal: to advance recreation, tourism, and economic development along the Trinity River and to maintain and expand the physical features of the Water Trail.

➤ The next Task Force meeting will be held in January 2022.



NCTCOG Floodplain Management Task Force Region 3 Trinity RFPG Update November 19, 2021

Glenn Clingenpeel

Chairman, Region 3 Regional Flood Planning Group



TRINITY

Regional Flood Planning

- **Flood planning overview**
- **Region 3 information**
- **Recent activities**
- **Current activities**
- **Upcoming activities**
- **Public participation**



TASK	
Regional Flood Planning Task No.	Description
1	Planning Area Description
2A	Existing Condition Flood Risk Analysis
2B	Future Condition Flood Risk Analysis
3A	Evaluation and Recommendations on Floodplain Management Practices
3B	Flood Mitigation and Floodplain Management Goals
4A	Flood Mitigation Needs Analysis
4B	Identification and Evaluation of Potential Flood Management Evaluations and Potentially Feasible Flood Management Strategies and Flood Mitigations Projects

4C	Prepare and Submit Technical Memorandum
5	Recommendation of Flood Management Evaluations and Flood Management Strategies and Associated Flood Mitigation Projects
6A	Impacts of Regional Flood Plan
6B	Contributions to and Impacts on Water Supply Development and the State Water Plan
7	Flood Response Information and Activities
8	Administrative, Regulatory, and Legislative Recommendations
9	Flood Infrastructure Financing Analysis
10	Public Participation and Plan Adoption



Recent Activities

- Added hybrid option for public meetings
- Performed intense data collection effort
- Developed planning area description
- Established region-wide floodplain management standards
- Approved draft goals
- Submitted preferred future (range of) conditions approach to TWDB
- Public participation



Recommended Floodplain Management Standards

- Participate in the NFIP or adopt equivalent standards
- Regulate development in the FEMA floodplain or other local floodplain designated by local jurisdiction
- Establish higher standards (more stringent than the NFIP) for development or freeboard above the floodplain
- Drainage corridor preservation
- Land use standards to reduce future flood risk
- Compensatory flood storage



Flood Mitigation and Floodplain Management Goals

1. Improve Flood Warning & Public Safety
2. Improve Flood Analyses
3. Reduce Property Damage and Loss
4. Floodplain Preservation
5. Flood Infrastructure Improvements
6. Expand Flood Education & Outreach
7. Expand Funding

*These goals guide
the selection of
FME/P/S (flood risk
reduction activities)*



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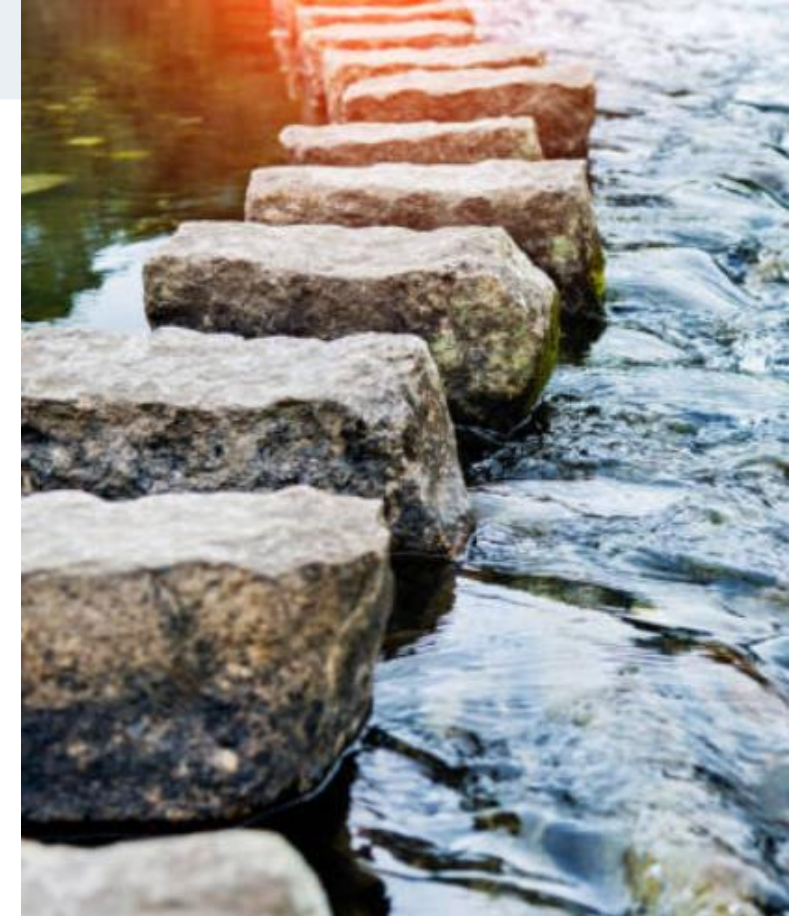
Current Activities

- Approve process to identify potential flood risk reduction activities (FMEs, FMPs, and FMSs)
- Determine current and future flood risks using recent TWDB data
- Determine knowledge gaps in flood risk
- Identify flood mitigation needs
- Developing process to identify flood risk reduction activities (FMEs, FMPs, and FMSs)
- Public participation – input on draft chapters



Upcoming Activities

- Approve Technical Memo (due Jan 7, 2022)
- Approve Tech Memo Addendum (due March 7, 2022)
- Determine recommended FMEs, FMSs and FMPs
- Consider impacts on other regional flood and water supply plans
- Incorporate 3 additional tasks into existing scope of work
- Public participation and plan approval
- Draft Regional Flood Plan due August 1, 2022
- Final Regional Flood Plan due January 10, 2023
- Final Amended Regional Flood Plan due July 14, 2023



TRINITY

trinityrfpg.org

The website has valuable resources, including:

- Meeting notifications, agendas, minutes and meeting materials
- Planning documents
 - Draft Chapter 1 Planning Area Description
 - Draft Chapter 3 Floodplain Management Practices and Goals
- A link to the group's Twitter handle:
@TrinityTRFPG

REGION **TRINITY**
REGIONAL FLOOD PLANNING GROUP

About Us Meetings Resources Public Comment Contact Us

English Spanish

Focused on managing flood risk to reduce
loss of life and property from flooding

Upcoming Meeting Information

Trinity Regional Flood Planning Group Meeting

Thursday, November 18, 2021, 10:00 am

Cook Education Center Meeting Room, Navarro College

3100 W. Collin St.
Corsicana, Texas 75110

Virtual Meeting Options

Via WebEx videoconference at: <https://bit.ly/3qbhPjc> or via phone at 408-418-9388 access code 2484 654 5568.

[Meeting Agenda/Notifications](#) | [Meeting Materials](#) | [Draft Chapter 1](#) | [Draft Chapter 1 Table 1A](#) | [Draft Chapter 1 Table 1B](#) | [Draft Chapter 1 Table 1C](#) |

Subscribe

Sign up to receive email notifications for upcoming Trinity Regional Flood Planning Group activities.

Name

Email

Subscribe

Questions?

Glenn Clingenpeel

Chairman, Region 3 Regional Flood
Planning Group

clingenpeelg@trinityra.org



Corridor Development Certificate Applications

Progress Since Last FMTF Meeting (8/13):

- New CDC Applications
 - GP 083121-1 Hunter Ferrell Warehouse Development
 - FB 092121-1 John F Burke Nature Preserve Phase 1 improvements
 - ARL 092221-1 J. Childress South Addition
 - FW 111121-1 Maintenance Building Expansion
 - GP 110421-1 PowerTech
- Under Technical Review
 - IRV 062121-1 2800 Glenwick Lane
- Final Action Forms
 - FW 031921-1 Wyatts Towing Impoundment Facility (Exemption)
 - FW 072821-1 East 1st Street Phase 1 (Exemption)
 - FW 091321-1 Fort Worth Biosolids 4-inch Service Line (Exemption)
 - GP 060721-1 Bear Creek Interceptor (Exemption)

Reminder:

For CDC projects submitted on or after 10/01/20, the **\$2,500 Model Maintenance Fee** should be paid when the applicant requests the LOMR from the community. Applications submitted as exemptions are not subject to this fee.

Roundtable



Next FMTF Meeting Date

Friday, February 25, 2022

9:30 a.m.

Meeting Format is TBD.

Add to Calendar:

<https://www.addevent.com/event/Ae10003463>

Contact

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