Public Works Council Meeting

Crysta Guzman & Madisson Dunn November 20, 2025





AGENDA

01	Welcome and Introductions	Bylaws
02	Action Items	Previous Meeting Summary Dallas Fort Worth AQIP CAP
03	Discussion Items	FY26 Meeting Schedule Changes TSI Workshop
04	Information Items	PWC Work Program Updates Other Program Updates
05	Business & Roundtable Discussion	Roundtable Next Meeting Adjournment

Welcome and Introductions

- The meeting agenda, presentation and handouts are located on the <u>Public Works</u> <u>Council webpage</u>
- Please use the Microsoft Form linked in the chat to add your name and organization for attendance.
- Please mute your line.



New Member Welcome

- NCTCOG's Executive Board approved the PWC nominations for FY26 at their September meeting
- The following slides list the new (highlighted in yellow) and/or returning members for FY26-FY27
- The full FY26 roster is available on the <u>Public Works Council</u> webpage



Standing Seat	Name	Title
City of Arlington	Scarlett Dinh	Project Engineer
City of Arlington	Sidney Kelley	Assistant Director of Operations
City of Carrollton	Jody Byerly	Director of Public Works
City of Dallas	Cameron Anderson	Engineering Program Administrator
City of Dallas	Raheel Khan	Senior Engineer
City of Denton	Michael Linder	Senior Engineer – Floodplain Administrator
City of Fort Worth	Teanna Thompson	Senior Capital Projects Officer

Standing Seat	Name	Title
City of Fort Worth	Michael Own	City Engineer
City of Frisco	Dane Stovall	Assistant Director of Public Works
City of Garland	Mike Rozelle	Senior Field Engineer
City of Grand Prairie	Lane Cheek	Utility Operations Manager
City of Irving	Walter Thomas	City Engineer
City of Lewisville	Aaron Russell	Director of Public Services
City of McKinney	Ryan Gillingham	Director of Public Works

Standing Seat	Name	Title
City of Mesquite	Victor Hou	Assistant City Engineer
City of Plano	Erik Ferner	Public Works Operations Manager – Streets and Traffic
City of Richardson	Eric Robison	Public Services Director
Collin County	Wayne Anderson	Road and Bridge Superintendent
Dallas County	Cecelia Rutherford	Assistant Director
Denton County	Stephen Belknap	Director of Development Services
Tarrant County	Joseph Jackson	County Engineer/Assistant Director

Subregion Seat	Name	Title	City/County	Communities
Denton/Lake Cities	Glenn Barker	Director of Public Works	City of Corinth	Corinth, DISH, Hickory Creek, Lake Dallas
DFW North	<mark>Brian</mark> Waltenburg	Director of Public Works	Town of Flower Mound	Flower Mound, Hebron, Highland Village, The Colony
East	Chris Harris	Director of Public Works	City of Greenville	Blue Ridge, Caddo Mills, Campbell, Celeste, Commerce, Cottonwood, Crandall, Farmersville, Fate, Forney, Grays Prairie, Greenville, Hunt County, Josephine, Kaufman, Kaufman County, Kemp, Lavon, Lone Oak, Mabank, McLendon-Chisholm, Nevada, Neylandville, Oak Grove, Oak Ridge, Post Oak Bend, Quinlan, Rosser, Royse City, Scurry, Talty, Terrell, West Tawakoni, Wolfe City

Subregion Seat	Name	Title	City/County	Communities
Mid-Cities	Boe Blankenship	Director of Public Works	City of North Richland Hills	Bedford, Euless, Haltom City, Hurst, North Richland Hills, Richland Hills, Watauga
Northeast	Andrew Figueroa	Director of Public Works	City of Celina	Allen, Anna, Celina, Fairview, Lowry Crossing, Lucas, Melissa, Murphy, New Hope, Parker, Princeton, Prosper, Saint Paul, Weston, Wylie
Northeast Dallas	Frank New	County Judge	Rockwall County	Heath, Mobile City, Rockwall, Rockwall County, Rowlett, Sachse, Sunnyvale
Northeast Tarrant	Keith	Assistant Director	City of Grapevine	Colleyville, Grapevine, Haslet, Keller,

Miertschin

of Operations

Roanoke, Southlake, Trophy Club

Subregion Seat	Name	Title	City/County	Communities
Northwest	Dillon Luna	Management Analyst	Town of Northlake	Alvord, Argyle, Aubrey, Aurora, Bartonville, Boyd, Bridgeport, Chico, Copper Canyon, Cross Roads, Decatur, Double Oak, Hackberry, Justin, Krugerville, Krum, Lake Bridgeport, Lakewood Village, Lincoln Park, Little Elm, Newark, New Fairview, Northlake, Oak Point, Paradise, Pilot Point, Ponder, Rhome, Runaway Bay, Sanger, Shady Shores, Westlake, Wise County
Northwest Dallas	Eric Mueller	Stormwater Manager	City of Farmers Branch	Addison, Coppell, Farmers Branch, Highland Park, University Park
Northwest Tarrant	Rick White	Director of Public Works	City of Azle	Azle, Blue Mound, Lakeside, Lake Worth, Pelican Bay, River Oaks, Saginaw, Sanctuary, Sansom Park, Springtown, Westover Hills, Westworth Village, White Settlement

Subregion Seat	Name	Title	City/County	Communities
Southeast	James Gaertner	Executive Director of Public Works & Utilities	City of Waxahachie	Alma, Angus, Bardwell, Barry, Blooming Grove, Corsicana, Dawson, Ellis County, Emhouse, Ennis, Eureka, Frost, Garrett, Goodlow, Italy, Kerens, Maypearl, Mildred, Milford, Mustang, Navarro, Navarro County, Oak Valley, Palmer, Pecan Hill, Powell, Red Oak, Retreat, Rice, Richland, Waxahachie
Southeast Dallas	Brooks Williams	City Manager	City of Ferris	Balch Springs, Combine, Ferris, Hutchins, Lancaster, Seagoville, Wilmer
South Tarrant	Bennett Howell	Director of Public Works	City of Benbrook	Benbrook, Burleson, Crowley, Dalworthington Gardens, Edgecliff Village, Everman, Forest Hill, Kennedale, Mansfield, Pantego

Subregion Seat	Name	Title	City/County	Communities
Southwest	Colt Friedrich	County Engineer	Johnson County	Alvarado, Briar Oaks, Cleburne, Cresson, Cross Timber, Dublin, Erath County, Glen Rose, Godley, Granbury, Grandview, Hood County, Johnson County, Joshua, Keene, Lipan, Rio Vista, Somervell County, Stephenville, Tolar, Venus
Southwest Dallas	Robert Woodbury	City Engineer	City of Cedar Hill	Cedar Hill, Cockrell Hill, DeSoto, Duncanville, Glenn Heights, Midlothian, Oak Leaf, Ovilla
West	Matt Leppla	Assistant Director – Operations	City of Weatherford	Aledo, Annetta, Annetta North, Annetta South, Cool, Gordon, Graford, Hudson Oaks, Millsap, Mineral Wells, Mingus, Palo Pinto County, Parker County, Reno, Strawn, Weatherford, Willow Park

Private Seat	Name	Title
Associated General Contractors – Texas Asphalt Pavement Association	Sam Davis	North Texas Regional Director
Associated General Contractors - AmeriTex Pipe and Products	Chris Rowland	Sales and Marketing Director
Council of Engineering Companies – Halff	Ali Hatefi	Director, Public Works
Council of Engineering Companies – AtkinsRealis	Daphne King	Division Manager
Texas Council of Engineering Laboratories/GeoProfessionals Serving Texas – Braun Intertec	Reece Taylor	Director, Senior Engineer

- NCTCOG Mission: Facilitate the delivery of innovative, costeffective public works services to jurisdictions in the region
- <u>PWC Purpose</u>: Provide a forum for exchanging ideas and resources that address specific common needs
- PWC Membership/Qualifications
 - 22 seats for standing members
 - 16 seats for 16 subregions
 - 5 seats for private sector entities
 - Support and documented authorization of the member organizations

PWC Bylaws (Continued)

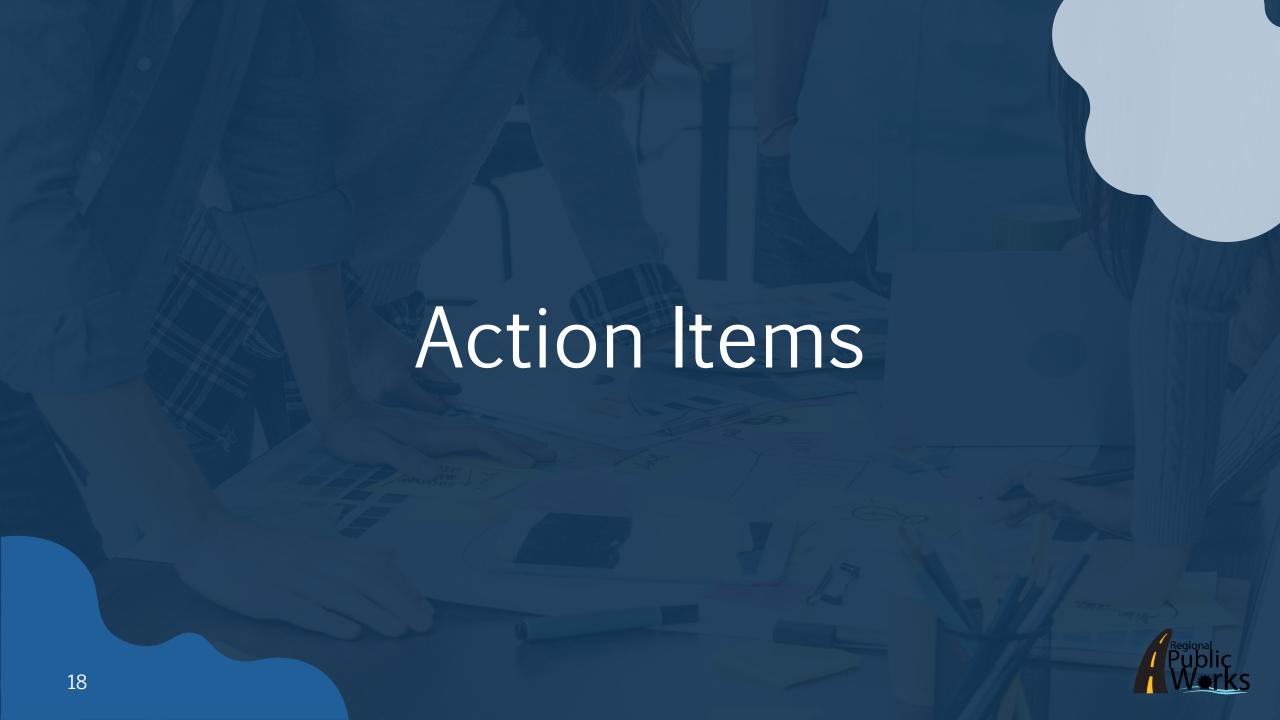
- Appointment Process/Terms of Office
 - ~Half of the PWC members are appointed/re-appointed each year
 - Term of appointment runs October 1 to September 30 of the second fiscal year
- Officer Duties
 - Chair presides at meetings
 - Chair has the authority to break a tie
 - Vice-Chair performs Chair's duties in his/her absence
 - If both absent, PWC members present will elect a Chair Pro-Temp

PWC Bylaws (Continued)

- Meetings
 - Meet once every quarter
 - Appointed PWC members or designated alternate may vote on action items
 - Combination of 11 or more PWC member constitutes a quorum
- Attendance/Vacancies
 - Members expected to attend meetings/participate in assigned subcommittees/activities (may send designated alternatives, but must inform NCTCOG staff)
 - NCTCOG to contact inactive members requesting an active replacement
 - Attendance and participation evaluated during the reappointment process
 - NCTCOG will work with member communities to fill any vacancies

PWC Bylaws (Continued)

- Annual Work Program/Budget
 - Regional activities guided by an Annual Work Program and supported through voluntary cost shares
 - Cost share calculation reviewed by the PWC at least every 5 years
 - Sponsorships are allowed at the discretion of the PWC
- Bylaws Guidance
 - Changes only made with a positive vote of 2/3 of the PWC membership of NCTCOG Executive Board
 - Bylaws reviewed by the PWC once every 5 years



1. Meeting Summary

- Public Works Council will vote to approve the August summary.
- August 21, 2025, meeting summary is available for review online.

2. Dallas-Fort Worth Air Quality Improvement Plan-Comprehensive Action Plan (DFW AQIP-CAP)

- NCTCOG staff will seek the PWC's approval on the Transportation Sector and Water/Wastewater Sector elements of DFW AQIP-CAP, a plan developed by NCTCOG to reduce carbon dioxide equivalent emissions by 2050. If approved, the plan will be brought to NCTCOG's Executive Board for endorsement.
- The <u>Transportation Measures</u> and <u>Water & Wastewater</u>
 <u>Measures</u> are available online for review.



Comprehensive Air Quality Planning

Dallas-Fort Worth Air Quality Improvement Plan: Comprehensive Action Plan (CAP)*

Outlines through 2050:

- Comprehensive Emissions Inventory and Projections
- Targets and Measures to Improve Air Quality in All Sectors

Includes:

- Comprehensive Stakeholder Engagement
- Air Quality Planning for All Emissions of Local Concern
- Integrating NCTCOG Regional and Statewide Efforts**

Potential Impact of Regional Growth:



Nonattainment and Conformity Lapse



Section 185 Fees (Failure to Attain Fees)



Constrained Resources and Lacking Infrastructure



Health Impacts

^{**}TCEQ's Comprehensive Roadmap to Reduce Emissions https://www.tceq.texas.gov/agency/climate-pollution-reduction-grants



^{*}The DFW AQIP development is supported by funding from Environmental Protection Agency's (EPA) Climate Pollution Reduction Grants (CPRG): Planning Grants

EPA CAP Guidelines and Requirement Overview

Emissions Inventory (EI) and Projections

- All Sectors (to the extent possible)
- All counties/region covered by CAP
- Short-term Projections (i.e. 2030 or 2035)
- Long-term projection (i.e. 2050)

Target

- Be actionable, ambitious, and achievable
- Take into consideration local conditions (not previously adopted National targets)
- Consider technical/economic feasibility

Measure Requirement(s)	Included Today?
Description, including clear responsible parties	
Quantified CO ₂ e Emissions Reduced in 2050 to support CAP Goals	
Cost	
Community Benefits	
Implementation Authority and Responsibilities	
Funding Opportunities	
Criteria Air Pollutant Reduced in 2030/2050	Revisions from Priority Plan Underway
Implementation Timelines and Milestones	
Metrics for Tracking Progress	
Workforce Analysis	Coming Soon



Key Data Sources For El and Projections

When possible NCTCOG Used Sources Which:

- Are specific to NCTCOG region; or Texas specific;
- Had already been vetted/approved/included in other plans;
- Assumed no/minimal improvements to current emission rates (to be conservative)

Transportation

Population Growth

Vehicle Activity Data

Texas Transportation Institute (TTI)
Statewide Airport Emissions

Texas Non-Road Model and MOVES

Mobility 2050

Water/Wastewater

ICLEI ClearPath

Population Growth

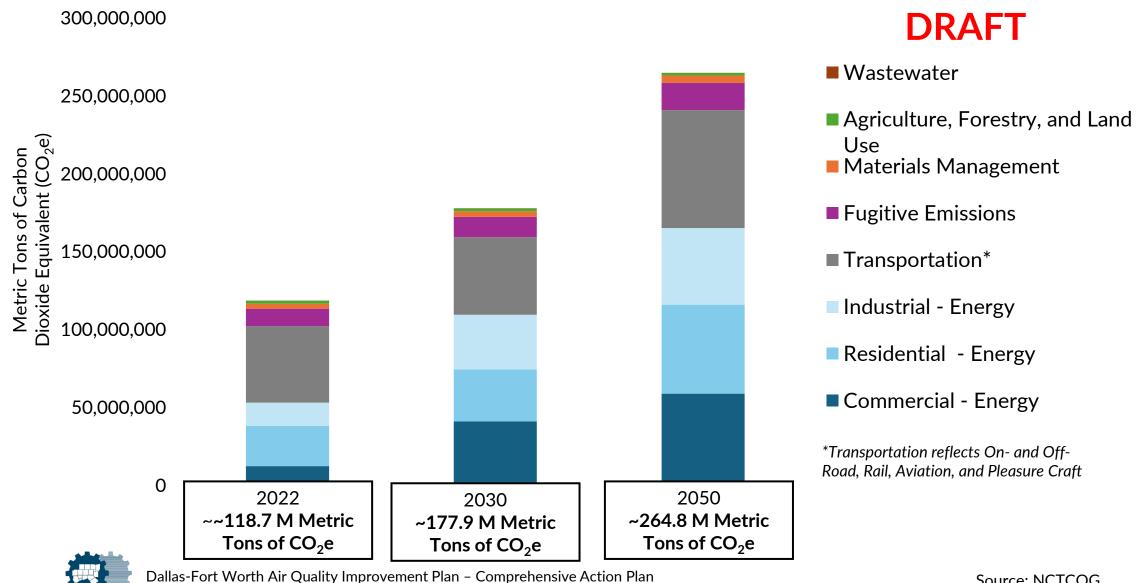
EPA National Pollutant Discharge Elimination System

Texas Water Development Board Municipal Water Use



Emissions Inventory and Projections Results

All sectors, Carbon Dioxide Equivalent (CO2e), Metric Tons/Year NCTCOG 16-county area



Emissions Inventory and Projections

Percent Change In NCTCOG 16-County Carbon Dioxide Equivalent Emissions					
Sector	2022-2030	2022-2050			
Commercial- Energy	229%	371%			
Residential- Energy	29%	121%			
Industrial – Energy	135%	229%			
Transportation	2%	55%			
Materials Management	13%	46%			
Agriculture, Forestry, Land Use	-7%	-20%			
Fugitive Emissions	16%	55%			
Wastewater	15%	53%			
Total	50%	123%			

Forecasted Changes by 2050



¹Increase in Electricity Demand of 214%



²Increase in Vehicle Miles Traveled of 81%



³Increase in Water Demand of 97%

¹ERCOT 2025 Long-Term Load Forecast Reports,

www.ercot.com/gridinfo/load/forecast

²NCTCOG 2050 Demographic Forecast; <u>www.nctcog.org/executive-</u>

<u>director/nctcog-executive-board</u> - November 2024 Item 15

³ 2026 Region C Water Plan;

https://www.twdb.texas.gov/waterplanning/rwp/plans/2026/C/RegionC_2026_RWP_VolumeI.pdf





Methodology to Selecting Transportation Measures and Targets

Step 1: Review Priority Action Plan Measures Against EPA Requirements for Comprehensive Action Plan

Step 2: Compare Measures for Consistency with Mobility 2050 Policies and Program

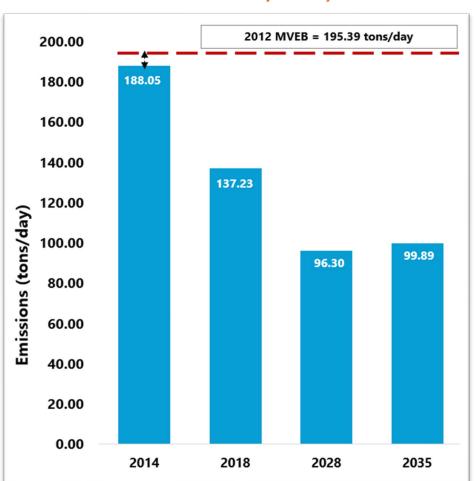
Step 3: Update Measures and Collect Input from Stakeholders/Committees

Step 4: Receive Subject Matter Committee Approval

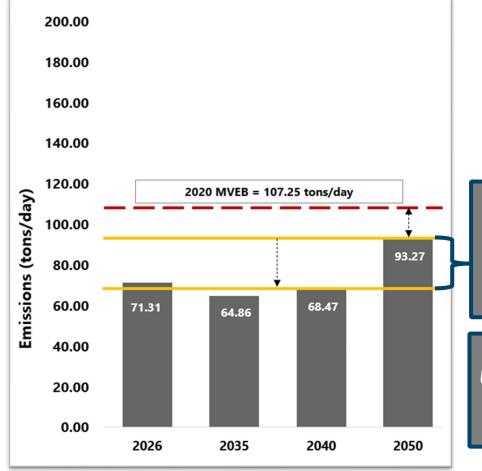
Development of Transportation Targets

Historical and Modeled On Road Transportation Nitrogen Oxides (NO_X) in Tons/Weekday, NCTCOG 10 County Nonattainment Area

Old - Conformity Analysis



New - 2025 Conformity Analysis



Proposed NO_X Reduction Goal

~Reduce 25% in 2050

Align 2050 NO_X emissions with levels around current analysis year

PROPOSAL:
Use NO_X Reduction Goal As
Basis For All
Transportation Goals,



Transportation Measures

DRAFT: Transportation Sector Target:

25% Reduction of NO_X 25% Reduction of 2050 CO_2e ~23.17 Tons/Weekday of NO_X ~ 19 million metric tons of CO_2e in 2050



System Operations

- Optimize Transportation System Efficiency
- Optimize Truck and Rail Flow
- Enhance Regional Traffic Signal Operations

Provides ~ 20% of Reduction Goal

Vehicle/Equipment Technology Upgrades

- Adopt Alternative Fuel Vehicles/Equipment
- Expand Availability of Low Emitting Fuels
 - Implement Emissions Compliance Program
 - Reduce Emissions from Airports

Provides ~ 50% of Reduction Goal



Mode Shift and Land Use

- Expand Active Transportation Network
- Reduce Vehicle Miles Traveled
- Increase Access to Transit Service

Provides ~ 30% of Reduction Goal

For more information regarding these measures please see Transportation Handout.





Methodology to Selecting Water and Wastewater Measures

Step 1: Review Priority Action Plan Measures Against EPA Requirements for Comprehensive Action Plan

Step 2: Compare Measures for Consistency with the Region C Water Plans

Step 3: Update Measures and Collect Input from Stakeholders/Committees

Step 4: Receive Approval from Water Resources Council

Development of Water/Wastewater Targets

- Surveyed local governments, water and wastewater service providers, and MS4 permit holders
 - -Survey was distributed from July 15, 2025, to August 22, 2025.
- Engaged with the NCTCOG Water Resources Council and the Water Efficiency Network of North Texas
- Consulted NCTCOG's annual Water Quality Management Plan
 Update and both the 2021 Region C Water Plan and the draft 2026
 Region C Water Plan to determine expected demand and mitigation activities

Water/Wastewater Measure Overview

DRAFT: Water/Wastewater Sector Target:

25% Reduction of 2050 CO₂e emissions; ~ 220,000 metric tons of CO₂e in 2050

Watershed Management



- Provide Rebates for GSI Installations
- Increase Native Plants in Riparian Corridor Systems
- Construct Stormwater Detention Basins
- Update Stormwater/Wastewater Conveyance Infrastructure

Provides ~27% of CO₂e Reduction Goal

Wastewater Infrastructure



- Repair Aging/Failing On-Site Sewage Facility Systems
- Provide Sanitary Sewage Upgrades in Developing Areas
- Improve Bio-Solids Management
- Implement Methods for Non-Potable Water Reuse

Provides ~15% of CO₂e Reduction Goal

Water Resources



- Improve Local Water Conservation
- Implement Building-Scale Rainwater Harvesting

Provides ~16% of CO₂e Reduction Goal

Water & Wastewater Treatment Infrastructure



Improve Water & Wastewater Treatment Process Efficiency

Provides ~40% of CO₂e Reduction Goal

For more information regarding these measures please see Wastewater, and Watershed Management Handout



DALLAS-FORT WORTH AIR QUALITY IMPROVEMENT PLAN

Funded through the Environmental Protection Agency's Climate Pollution Reduction Grants

Upcoming Meetings/Input Opportunities:

Go to www.publicinput.com/dfwAQIP for more information and for draft documents

Contact Us



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Discussion Items



3. FY26 Meeting Schedule Changes

- To accommodate the Public Works Roundup on August 20, 2026, NCTCOG would like to move the quarterly meeting to August 13, 2026.
- To help participants avoid traffic and better accommodate schedules, NCTCOG would like to adjust the regular meeting times to 10:00 a.m. to 12:00 p.m.

4. Development and Floodplain Regulations Model Code Workshop

The integrating Transportation and Stormwater Infrastructure Project
(TSI) seeks to reduce future flood risk through the integration of
transportation, environmental, and stormwater planning based on
continuation and expansion of the region's urbanization. Staff is
seeking feedback on elements to include in a model development code
and floodplain ordinance that is underway. A feedback workshop will
be held on Thursday, January 29th, 10:00-12:00 at NCTCOG.
 Registration for the event is available here.





Integrated Transportation and Stormwater Infrastructure (TSI) Study:

Considering Model Codes for Development & Floodplain Regulations

Public Works Council – November 20, 2025
Presented by: Jeffrey C. Neal (NCTCOG – Transportation)

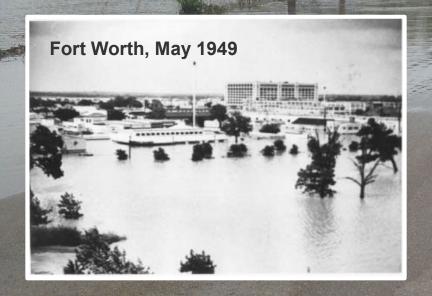






Also Funded by the Texas Water Development Board and Texas Department of Transportation.





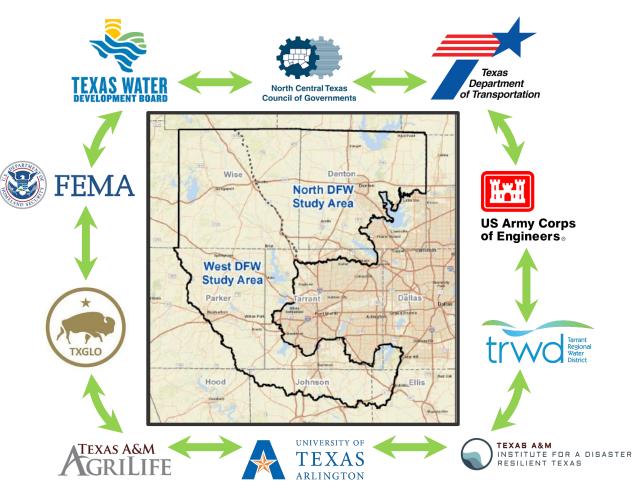
Rhome, May 2015
Courtesy Tarrant Regional Water District

WHAT: TSI Study Partners & Objectives

Working group of partners and stakeholders conducting a \$10 million comprehensive planning effort to address flood risk upstream of the Dallas/Fort Worth urban cores:

- Proactive planning (planning-level designs)
- Collaborative partnership between stormwater, environmental, & transportation infrastructure
- Keeping residents, property, & infrastructure safe, with opportunities to also improve regional water storage & water quality
- State-of-the-art flood hazard area models with defendable & quantifiable "what-if" scenarios
- Flood warning system framework
- Nature-based solutions (e.g., green stormwater infrastructure, wetlands, urban forests/prairies)
- Tools, literature, & data to aid with community engagement and floodplain administration





Consultant Partners:

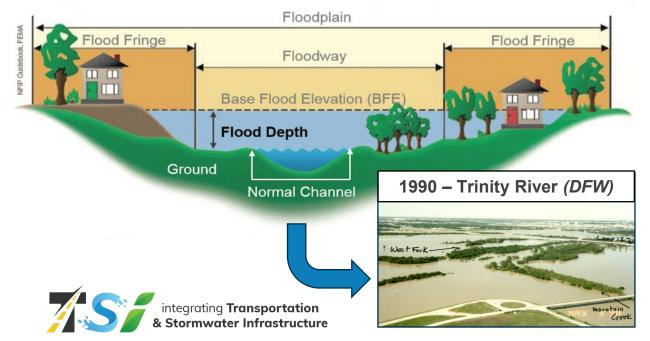
- Freeze & Nichols, Inc.
- Halff Associates, Inc.
- Highland Economics

Expected Completion:

Fall 2026

WHY: Urbanization Increases Flood Risk

- Floodplains among Earth's most valuable ecosystems, plus among most threatened
- Effects of urbanization:
 - Adds imperious cover (runoff ≤ 10% more)
 - □ Depletes valley storage (runoff ≤ 30% more)
- Flooding increased with negative societal impacts
- Currently, no comprehensive plan addresses rapid urbanization effects upstream from DFW urban core

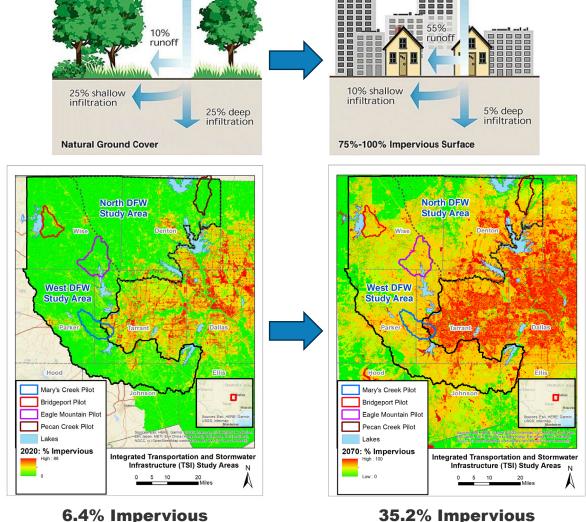


More Impervious Surface = More Runoff

30% evapotranspiration

40% evapotranspiration

(2020)



(2070)

WHY: Criticality of Transportation/Stormwater Integration

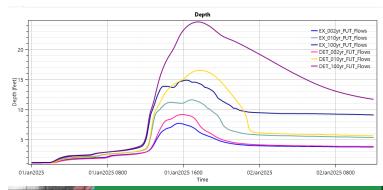
- Transportation & stormwater infrastructure costs are some of the most substantial in flood events
- Transportation failures impact access & reliability:
 - Affects emergency response performance & evacuation route efficiency during events
 - Affects connectivity to/from critical services, employment & education opportunities, & community cohesion after events
 - Degrades asset conditions & maintenance efficiencies
- Stormwater failures affect system adaptability:
 - Lacks consistent regional infrastructure data & modeling
 - Constrains evaluation of accumulated watershed impacts
- Rebuilding costs/schedules can be excessive & difficult to accommodate with other needs
- Most flood fatalities occur at roadway drainage crossings & other water flow/storage bottlenecks
- Upstream development has rendered downstream road crossings & drainage systems inadequate

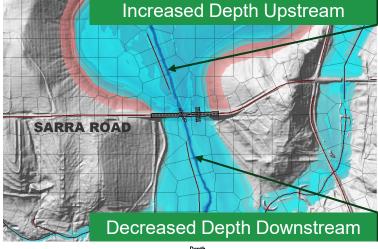


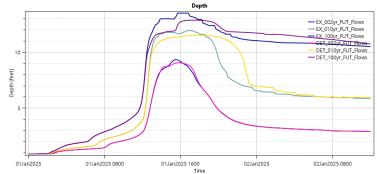


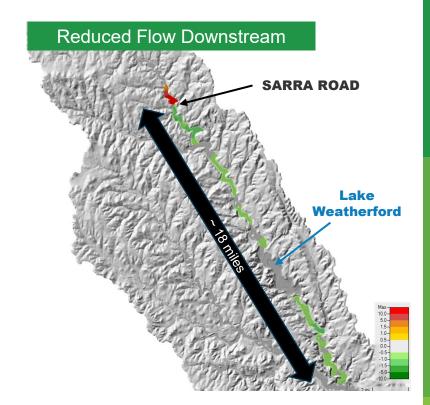
EXAMPLE: Sarra Road – Parker County











Key Summary Statistics – 2070

- 100-year Conditions (upstream):
 - Valley Storage: + 2,000 acre-ft
 - Flow Rate: 3,000 ft³/sec
- 10-year Conditions (downstream):
 - Flow Rate: 1,000 ft³/sec
 - Elevation Reduction: 0.5-1.0 ft



Estimated Study Timeline

Fall 2025/Winter 2026

Continue training workshops and site visits to individual communities

Spring 2026

Conduct project update meeting series #5 to present findings and seek stakeholder feedback

Summer/Fall 2026

Submit deliverables to funding agencies

Winter/Spring 2026

Complete hydrology & hydraulics (H&H) modeling and identify transportation, environmental & other policy recommendations

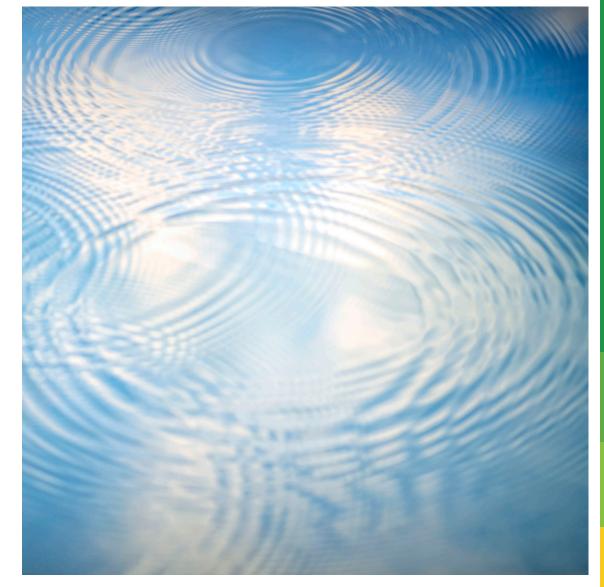
Summer 2026

Conduct project update meeting series #6 to present final products incorporating stakeholder feedback



Model Codes Task Overview

- Develop model development codes that support TSI Study goals for reducing flood risk and integrating transportation, stormwater, & environmental planning.
- Identify enabling or supportive State code provisions.
- Receive input from stakeholders on draft code elements.
- Incorporate feedback to refine model codes.
- Local governments may choose to use the model codes as a resource for regulatory updates to improve flood prevention & mitigation.



Development Regulations Model Code

- Identifying best practice strategies that can be incorporated into development (land use/ zoning/subdivision) codes to help prevent and/or mitigate future flood events
- Model codes can address green stormwater infrastructure, nature-based solutions, lowimpact development, & other strategies

Examples:

- Impervious cover limits
- Clustered development
- Creation/preservation & maintenance of open space
- Green parking lot infrastructure
- Incentive zoning





Floodplain Ordinance Model Code

- Identifying higher standards for incorporating into flood damage prevention ordinances to help reduce economic losses, prevent future flood hazards, & protect public health/safety
- Model codes can address higher construction standards for development in flood-prone areas

Examples:

- Critical facilities
- Freeboard
- Manufactured homes
- No rise in Special Flood Hazard Area (SFHA)
- Setback in erosion-prone area
- Preserving valley storage

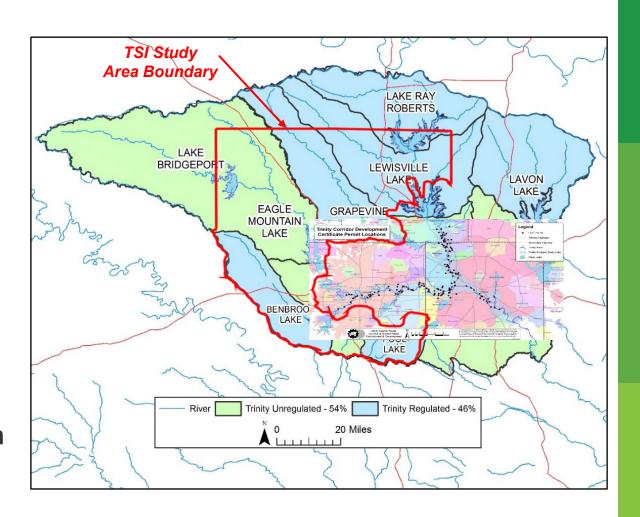




Regional Governance/Regulation Considerations

Trinity River COMMON VISION – Corridor Development Certification (CDC) Program

- Communities & counties along Trinity River:
 - Consistent & transparent development criteria
 - Allows development, but not adverse impacts
 - Preserves storage & water surface elevations
- Current/future H&H simulations are dynamic living models:
 - Check-in, check-out
 - Fee structure
- 3rd party reviews (USACE)
- Could duplicate program within the TSI region
- Drive future collaboration across developers, infrastructure providers, & communities





We Want to Hear from YOU!

What development code elements (e.g., zoning, subdivision design, street design standards, etc.) has your jurisdiction adopted to prevent and/or mitigate flooding?

■ Please complete this 3-question survey:

Preventing Flooding Through Local Development Codes: City Survey



https://tinyurl.com/TSICodes





Integrating Transportation & Stormwater Infrastructure (TSI) Model Development & Floodplain Ordinances Workshop

<u>Purpose:</u> To receive feedback on enhanced stormwater infrastructure elements, including increased detention/retention areas and/or nature-based solutions (NBS), to incorporate into a model development code and model floodplain ordinance for flood prevention and mitigation.

<u>Intended Audience:</u> Anyone with technical expertise, experience, or interest in the areas of flood prevention or mitigation using development or floodplain regulatory tools.



Thursday, January 29, 2026, 10:00 am-12:00 pm



NCTCOG, 616 Six Flags Drive, Centerpoint II, Arlington, Transportation Council Room



Hybrid meeting format



For more info, visit http://www.nctcog.org/TSI

Register Here:







CONTACTS:



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Shawn Conrad

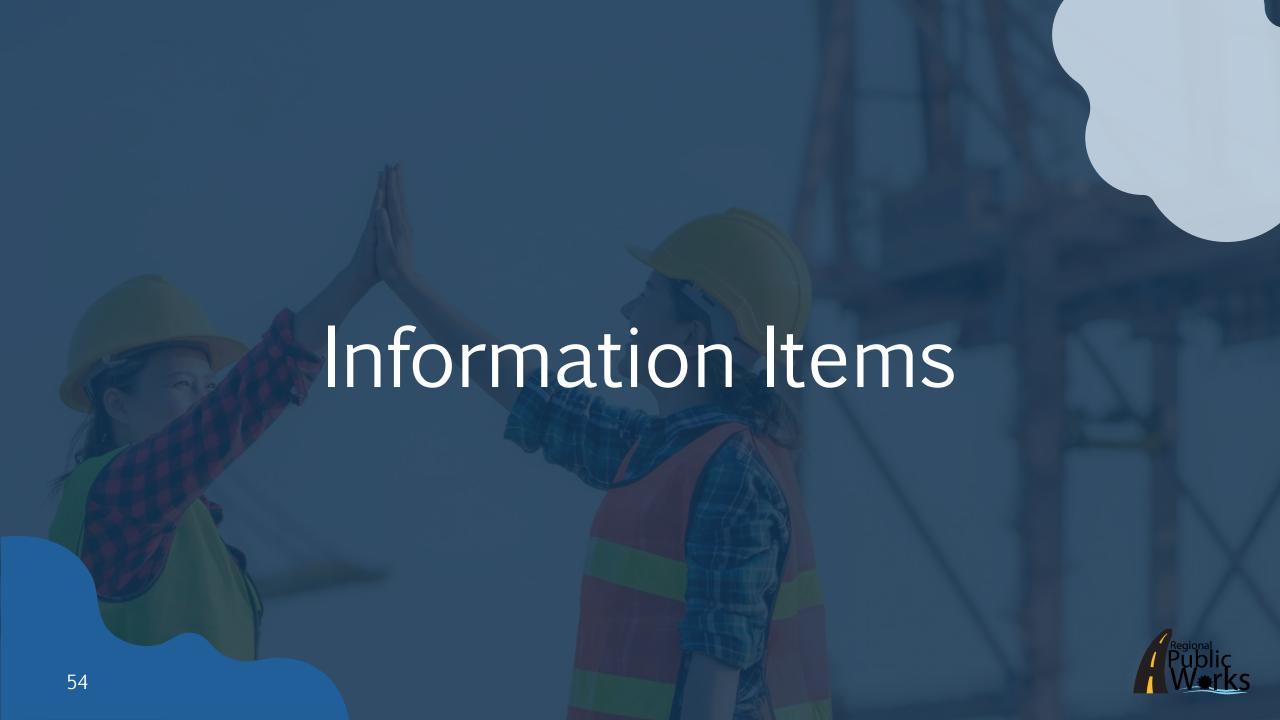
Program Manager
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Jeffrey C. Neal

Senior Projects Manager Transportation (214) 223-0578 jneal@nctcog.org





FY2026 Public Works Work Program Update



- Cost shares to be distributed in late-November or early December via email
- Overall Program Budget Goal: \$360,000
 - \$80,000 dedicated to iSWM Subcommittee

- Public Works <u>Council Video</u>
- Public Works Careers Promotion Video





Trainings

- Partner with state/regional associations or local private sector entities to develop specific trainings for public works members
- Promote learning from other municipalities with different structures including opportunities for cross-training, cross-partnerships, and networking
- What are your training needs for FY26? What ideas do you have to promote learning and development from other municipalities?

27th Annual Public Works Roundup

- August 20, 2026
- Hurst Conference Center
- Planning for presentation topics will begin at the February PWC meeting
- Any suggestions or ideas for next year?



Please contact Madisson Dunn at mdunn@nctcog.org or 817-704-5611 for more information.

Sustainable Public Rights of Way (SPROW) Subcommittee



- Purpose: Provide support and technical advice to the PWC on sustainability issues associated with public works infrastructure.
- Background:
 - Established in response to region's population growth and national infrastructure "D" rating in 2008.
 - Subcommittee began meeting in 2008.
 - Members included: PW Directors, City Engineers, Capital Projects Managers, Planners.
 - From 2013 until 2018, the subcommittee hosted annual SPROW Education Forums (some years the forum combined with the Roundup).

Sustainable Public Rights of Way (SPROW) Program Webpage

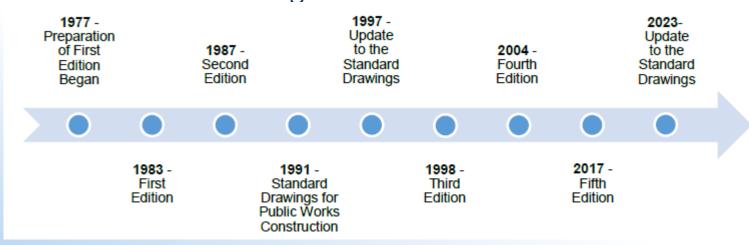
Sustainable Public Rights of Way (SPROW) Subcommittee

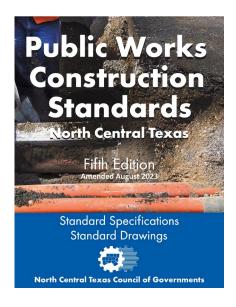
Stay tuned for announcements and meetings in FY26

• **Purpose**: Provide technical expertise to review, revise, and update the construction standards.

Background:

- Established to prevent challenges due to construction inconsistencies between different municipalities.
- First edition of the standards published in 1977.
- Subcommittee began meeting in 2012 to update standards.
- Members included: Local governments and private industry public works professionals.
- Standards and Drawings combined into one document in 2023.



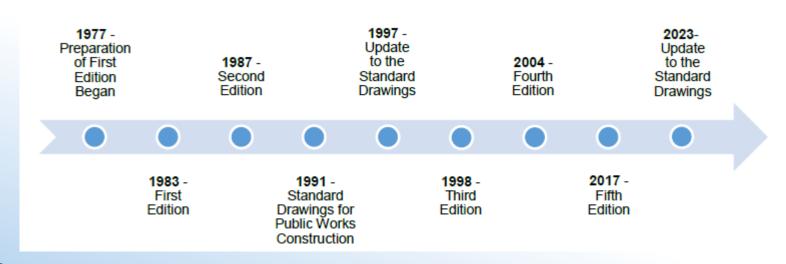


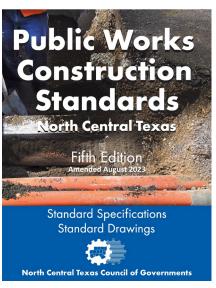
Standard Drawings Subcommittee

• Purpose: Provide technical expertise to review, revise, and update the construction drawings.

Background:

- Established to prevent challenges due to construction inconsistencies between different municipalities.
- First edition of the standards published in 1991.
- Subcommittee began meeting in 2020 to update standards.
- Members included: Local governments and private industry public works professionals.
- Standards and Drawings combined into one document in 2023.



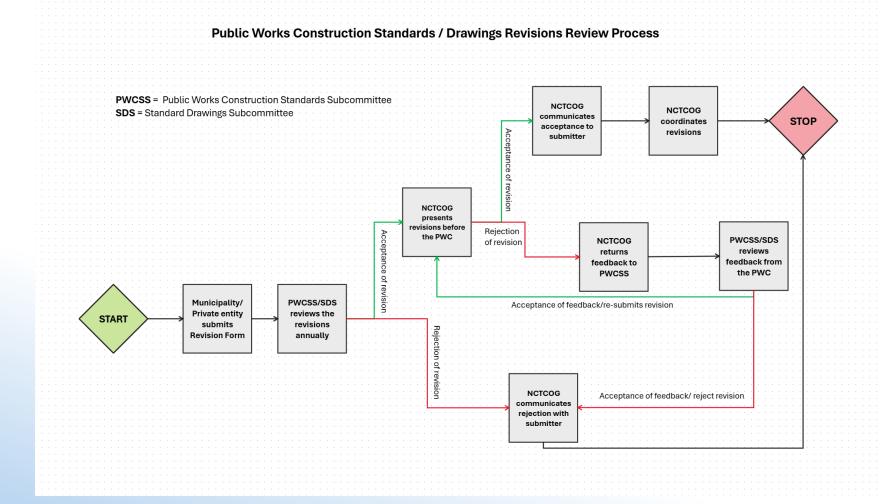


- Process for Receiving and Reviewing Construction Standards/Drawings Revisions
 - Based on feedback from previous meetings, a form was developed to collect recommendations and revisions
 - Submissions to be reviewed during Public Works Construction Standards Subcommittee meeting on March 11, 2026.
 - Subcommittee will receive submissions ahead of the meeting to review

Submission Form



 Process for Receiving and Reviewing Construction Standards/Drawings Revisions



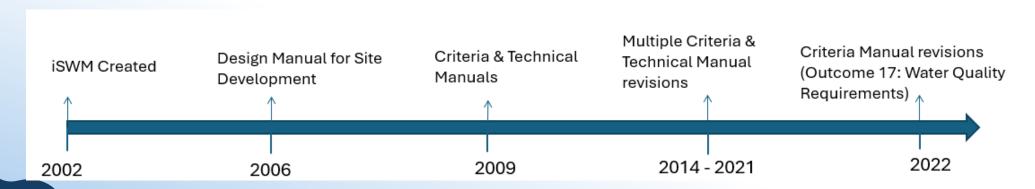
- Next Meeting: March 11, 2026, at 10 a.m. at Metroplex Conference Room
- Subcommittee will review the submissions received for the Public Works Construction Standards.
- Submissions will be distributed to the subcommittee ahead of the meeting.

 Purpose: Provide technical advices to the PWC on integrated Stormwater Management Activities.

Background:

67

- Program created in 2002 through collaboration between 60–70 North Texas local governments, NCTCOG, Freese & Nichols (F&N), and other consultants.
- Uses Low Impact Development (LID) and green infrastructure to reduce flooding, erosion, and water quality decline.
- Supports sustainable growth in a rapidly growing region.
- Helps local governments meet stormwater regulations.
- Provides tools and guidance to help communities manage stormwater on a site-by-site basis.



- Subcommittee established ~2009; meets 4 times per year.
- Chair: Ranjan Muttiah, City of Fort Worth
- Co-Chair: Travis Attanasio, City of Burleson
- Members: Engineers, designers, and community stormwater professionals.
- Manages program activities and \$80,000/year contract (3-year +1+1).

Last Meeting: October 30, 2025

- Guest speaker: Mitch Heineman (CDM Smith) EPA SWMM update, reviewed short-term iSWM goals.
- Discussed website improvements: navigation, accuracy, BMP content. Will send out survey.
- Discussed CRS credits & City Council outreach.

Next Meeting: January 13, 2026 @ 1:30 PM (Centerpoint II – Tejas Room)

Topics: iSWM goals scope, website modernization, survey results, City outreach. **⊌Stormwater** lanagement

FY26 Deliverables



- Research "Cumulative Impacts" on Small Footprint Developments
- iSWM Promotional Presentation for Partnering Organizations
- Develop Technical Case Studies
- Stormwater Quality Monitoring Programs Development for Existing iSWM BMPs

FY26 Deliverables



- Identify Short and Long Term iSWM Manual Updates;
 Implement Updates
- Identify Short and Long Term iSWM Website Updates; Implement Updates
- Identify Short and Long Term iSWM Areas of Modernization for the iSWM Program; Implement Updates
- Project Management

Please contact Katie Hunter at khunter@nctcog.org or 817-695-9102 for more information.

Subcommittee Membership and Involvement

- Council members are encouraged to volunteer for appointment to a subcommittee.
- Per <u>PWC bylaws</u>, the terms for iSWM and SPROW are ongoing. Terms for the Construction Standards and Drawings subcommittee are to be established to achieve the purpose for their work.
- If interested, please complete the survey form linked below.
- Form: https://forms.office.com/r/TpGeH9DYrj
- Responses Due: Thursday, December 11, 2025
- Council members will review all volunteer submissions and vote electronically on their approval ahead of the next Council meeting.

Other Program Activities



Public Works Emergency Response Team (PWERT)

- MetroX participation in the Regional Support Center on Tues, October 28
 - Well planned. TDEM worked hard to create a realistic scenario.
- Presentation on FY26 SHSP Grant Proposals on Wed, November 5
 - PWERT asked for \$231,330 for three Vehicle Interdiction Trailers (VIT).
 - VITs are a critical material need, identified in the MetroX exercise.
 - Still waiting on final word on FY25 SHSP Grant awards.
- Last meeting: October 9, 2025 (in-person); Next meeting: December 11, 2025 (virtual)
 - Review of lessons learned and discuss improvement opportunities from MetroX.

Please contact Justin Stoker at justin.stoker@waxahachie.com for more information.

Integrating Transportation and Stormwater Infrastructure (TSI)

- Stakeholder Subarea Meetings (Round 4)
 - September/October 2025
 - Resources available: www.nctcog.org/tsi
- Model Development and Floodplain Ordinances Workshop (Hybrid)
 - January 28, 2026, 10 a.m. 12 p.m.
 - More information, RSVP, and add to your calendar: https://www.addevent.com/event/fcqv17r29868
- Flood Warning System Workshop (Hybrid)
 - February 17, 2026, 10 a.m. 12 p.m.
 - More information, RSVP, and add to your calendar: https://www.addevent.com/event/skb38xv9sqjc



Please contact Katie Hunter at khunter@nctcog.org for more information.



Community Rating System Users Group

- Floodplain Seminar for Elected Officials
 - September 18, 2025
 - Resources available:
 https://www.nctcog.org/envir/watershed management/floodplain-management/combined floodplain-seminar-for-elected-officials-and-trinity river-common-vision-steering-committee
- Trinity River COMMON VISION Steering Committee approved the FY26 Work Program that may include supporting a multi-jurisdictional Program for Public Information



Please contact Erin Blackman at eblackman@nctcog.org for more information.

Texas Chapter of American Public Works Association (TX-APWA)

 Update provided by Cheryl Taylor, President of the North Central Texas Branch

Wastewater and Treatment Education Roundtable (WATER)

Wastewater And Treatment Education Roundtable

• **Purpose**: Help reduce potential damage to the region's household plumbing systems and wastewater treatment systems as well as to decrease hazards to water quality through educational efforts.

Background:

- Originally established as the North Texas Grease Abatement Council in 2005 to target grease related issues and prevent SSOs.
- Expanded and rebranded subcommittee to Wastewater and Treatment Education Roundtable in 2015.
- Members include: Environmental and education coordinators, public health professionals, utility managers.

Annual Holiday Grease Roundup

- Scheduled for November 1, 2025 January 31, 2025
- American BioSource will provide free containers and collect grease/cooking oil for entities without an established collection program
- Marketing materials available on Wastewater Roundtable webpage for use
- 48 partners confirmed as of 10/28 view full list on <u>Defend Your Drains</u> website



Please contact Hannah Ordonez at hordonez@nctcog.org or 817-695-9210 for more information.

2025 Annual Holiday Grease Roundup Participants































































































North Texas Zero Emission Vehicle Call for Projects

\$58.6 million is available for fleets to replace existing vehicles with zero emission vehicles through the North Texas Zero Emission Vehicle (NTxZEV) Call for Projects

Eligible Applicants: Public or private fleets
Must adopt a policy consistent with the **RTC Clean Fleet Policy (www.nctcog.org/fleetpolicy)**

Eligible Projects: Replacement of existing Class 6 and 7 vehicles with zero emission vehicles and purchasing supporting infrastructure

Interested in Learning More?
Attend a NTxZEV CFP Workshop:
December 2, 2025 at 1:00pm CT
Website to Register and Learn More:
www.nctcog.org/NTxZEV

Eligible Vehicles: Vocational, including but not limited to:
Septic/Bucket Truck Street Sweeper Straight/Box Truck







Step Van



Refuse Hauler



Transit Bus



Funding Levels: 33% to 80% of new vehicle price; varies depending on fuel type (battery-electric or hydrogen fuel cell and vocation type



Upcoming Events, Conferences, and Opportunities





December 18, 2025 at 1 P.M.

Virtual via Zoom

U.S. DOT – Federal Highway Administration



Public Workshop & Equipment Roadeo

February 1 – 4, 2026

Dallas Fort Worth Marriott Hotel & Golf Club

American Public Works Association – Texas Chapter



Upcoming PWC Agenda Topics

- PWC Council Members and NCTCOG may suggest future agenda items
- Next Meeting: February 19, 2026, at 9:30 a.m. (In-person at NCTCOG Offices)
 - Feedback on PW Roundup Topics





Validating OPCC's Using Statistical Methods

Monte Carlo Simulation with Escalated Historical Costs



Statistical Validation of OPCCs

- • OPCC estimates can vary due to inflation, scope uncertainty, and market volatility.
 - • Using escalated historical cost data provides a realistic basis for risk-aware estimates.
 - Monte Carlo simulation quantifies uncertainty by generating thousands of cost outcomes.



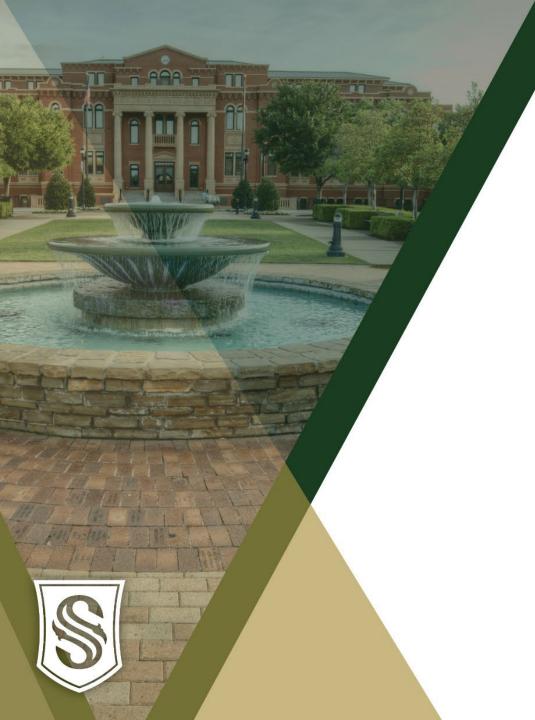


Monte Carlo Simulation | Use Case Example

Davis Blvd at Continental/Union Church

- Intersection Improvement

	Item Description	Quantity	Unit	Mediar (TxDOT estimated	Г	STD. Deviation (TxDOT	Unit Price	SD Check	Item Cost	TxDOT Unit Price + 2 Std Deviations	TxDOT Item Cost	Higher of OPCC and TxDOT Item Cost
	MOBILIZATION (5% MAX)	1	LS	\$	-	\$ -	\$ 150,000.00	\$ -	\$ 150,000	\$0.00	\$0	\$ 500,000
	PROJECT SIGN	2	EA	\$	-	\$ -	\$ 500.00	\$ -	\$ 1,000	\$0.00	\$0	\$ 1,000
3	PREPARE ROW	19	STA	\$ 52,46	3.16	\$ 23,608.42	\$ 5,000.00	\$ 9,530.50	\$ 95,000	\$99,680.00	\$1,893,920	\$ 1,893,920
	FULL DEPTH SAWCUT	699	LF	\$	-	\$ -	\$ 10.00	\$ -	\$ 6,990	\$0.00	\$0	\$ 6,990
	REMOVE ASPHALT (PAV)	3,295	SY	\$	-	\$ -	\$ 15.00	\$ -	\$ 49,425	\$0.00	\$0	\$ 49,425
	EXCAVATION (ROADWAY)	8,000	CY	\$ 116	5.42	\$ 52.39	\$ 30.00	\$ 52.39	\$ 240,000	\$221.20	\$1,769,600	\$ 1,769,600
	EMBANKMENT (FINAL)(DENS CONT)(TY C)	350	CY	\$ 20	6.43	\$ 11.89	\$ 35.00	\$ 11.89	\$ 12,250	\$50.22	\$17,577	\$ 17,577
_1	FL BS (CMP IN PLC)(TYA GR1-2)(FNAL POS) (5")	145	CY	\$ 238	3.69	\$ 107.41	\$ 90.00	\$ 107.41	\$ 13,038	\$453.52	\$65,697	\$ 65,697
	CEMENT	191	TON	\$ 28	1.55	\$ 126.70	\$ 225.00	\$ 126.70	\$ 42,883	\$534.94	\$101,956	\$ 101,956
	CEMENT TREAT (SUBGRADE) (8")	1,043	SY	\$ 7	7.77	\$ 3.50	\$ 20.00	\$ 3.50	\$ 20,860	\$14.76	\$15,395	\$ 20,860
	CEMENT TREAT (SUBGRADE)(6")	6,016	SY	\$ 2	2.75	\$ 1.24	\$ 15.00	\$ 1.24	\$ 90,233	\$5.23	\$31,461	\$ 90,233
	D-GR HMA(SQ) TY-B PG70-22 (7")	346	TON	\$	-	\$ -	\$ 225.00	\$ -	\$ 77,876	\$0.00	\$0	\$ 77,876
	SUPERPAVE MIXTURES SP-C SAC-A PG70-28 (2*)	99	TON	\$	-	\$ -	\$ 225.00	\$ -	\$ 22,250	\$0.00	\$0	\$ 22,250
	CONC PVMT (CONT REINF - CRCP) (8") WITH MONOLITHIC CURB	5,451	SY	\$ 13	1.38	\$ 59.12	\$ 110.00	\$ 59.12	\$ 599,610	\$249.62	\$1,360,679	\$ 1,360,679
7/2	COLORED TEXTURED CONC (8")	103	SY	\$ 108	3.53	\$ 48.84	\$ 220.00	\$ 48.84	\$ 22,611	\$206.20	\$21,193	\$ 22,611
7	BARRICADES, SIGNS AND TRAFFIC HANDLING	12	MO	\$ 65,878	3.92	\$ 29,645.51	\$ 7,500.00	\$ 10,785.34	\$ 90,000	\$125,169.94	\$1,502,039	\$ 1,502,039
	CONC CURB & GUTTER (TY II)	567	LF	\$ 74	4.56	\$ 33.55	\$ 15.00	\$ 33.55	\$ 8,505	\$141.66	\$80,321	\$ 80,321
	CONC SIDEWALK (4")	777	SY	\$ 162	2.52	\$ 73.13	\$ 80.00	\$ 73.13	\$ 62,142	\$308.78	\$239,853	\$ 239,853
	CURB RAMPS (TY 7)	8	EA	\$ 3,61	2.10	\$ 1,625.45	\$ 3,500.00	\$ 1,625.45	\$ 28,000	\$6,862.99	\$54,904	\$ 54,904
	CURB RAMPS (TY 1)	4	EA	\$ 2,912	2.59	\$ 1,310.67	\$ 3,500.00	\$ 1,310.67	\$ 14,000	\$5,533.92	\$22,136	\$ 22,136
	RAIL (TY C221)	334	LF	\$ 18	B.91	\$ 85.01	\$ 150.00	\$ 85.01	\$ 50,100	\$358.92	\$119,879	\$ 119,879
	ADJUSTING MANHOLES (WATER VALVE BOX)	4	EA	\$ 1,900	0.04	\$ 855.02	\$ 1,000.00	\$ 2,216.02	\$ 4,000	\$3,610.08	\$14,440	\$ 14,440
	ADJUSTING MANHOLES (SANITARY)	3	EA	\$ 5,43	9.71	\$ 2,447.87	\$ 3,000.00	\$ 5,224.74	\$ 9,000	\$10,335.44	\$31,006	\$ 31,006
	ADJUST WATER VALVES TO PROP GRADE	9	EA	\$	-	\$ -	\$ 500.00	\$ -	\$ 4,500	\$0.00	\$0	\$ 4,500
	RELOCATION OF WATER METERS	2	EA	\$	-	\$ -	\$ 500.00	\$ -	\$ 1,000	\$0.00	\$0	\$ 1,000
	ADJUST OR RELOC EXIST FIRE HYDRANT	1	EA	\$	-	\$ -	\$ 500.00	\$ -	\$ 500	\$0.00	\$0	\$ 500
	REMOVE AND RETURN EX STONE WALL TO OWNER	1	LS	\$	-	\$ -	\$ 10,000.00	\$ -	\$ 10,000	\$0.00	\$0	\$ 10,000
	REMOVE AND REINSTALL MAILBOX	3	EA	\$	-	\$ -	\$ 1,500.00	\$ -	\$ 4,500	\$0.00	\$0	\$ 4,500



Benefits of Statistical OPCC Validation

- Improves accuracy and defensibility of CIP project estimates.
 - Demonstrates transparency and risk-awareness to leadership and public.
 - • Helps allocate contingency based on probabilistic outcomes rather than intuition.

Conclusion & Next Steps STD Dev 599,777.10 Mean = 4,731,047.61 Median 4,754,606.91 $\min =$ 2,994,912.86 Median + 1 STD 5,354,384.01 6,621,022.70 max =Median + 2 STD 5,954,161.11 Median + 3 STD 6,553,938.21 BIDDER 1 **BIDDER 2** BIDDER 3 **BIDDER 4** BIDDER 5 Task A -Bid **TOTAL** \$4,645,569.71 \$4,403,413.29 \$5,610,531.20 \$5,692,463.72 \$6,334,168.26

James Tuttle

Financial CIP Program Manager | City of Southlake 1400 Main St., Ste. 420, Southlake, TX 76092 (817) 748-8071



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