

Regional Stormwater Management Coordinating Council Meeting

February 24, 2021

Welcome and Introductions

Meeting Summary

- November 11, 2020 meeting summary [handout](#)
- Vote on the summary

Fiscal Year 2021 Main Stem Election

Thank you, Main Stem members, for voting in the Main Stem Watershed election. The results are in:

Duy Vu, Environmental Manager, City of Cedar Hill, will fill the vacant seat left by Tad Heimbürger's retirement.

Trash Free Waters Grant

Program Update & Webinar Recap



- NCTCOG Trash Free Texas Webinar was held on Tuesday, January 19th
 - Recording now available on [NCTCOG's Trash Free Waters Project Webpage](#)
 - If you attended the webinar and indicated that your entity has available "Adopt-a-Spot" locations and were interested in adding them to the website, NCTCOG project team staff will be in touch soon!
 - Webinar focused on:
 - How to add "Adopt-a-Spot" litter cleanup locations to [Trash Free Texas](#) website;
 - Promotion of the Trash Free Texas website;
 - Update on efforts to develop a statewide Trash Collection Database; and
 - Preliminary results from the recent survey on organized litter cleanup events.
- Presenting at the Texas Association of Regional Councils (TARC) Solid Waste Planners meeting - ~~February 16th, 2021~~ New date March 30, 2021
- H-GAC hosting an online [Adopt-A-Spot Training](#) on February 25, 2021
- Ongoing efforts with Keep Texas Beautiful and the Houston Advanced Research Center (HARC) on the development of a statewide litter collection database
- Recent survey of COGs to inform the development of products and resources tailored for use by local governments to help replicate and amplify the efforts of the grant

Fostering a Litter Free Environment in North Texas

- Outreach Plan for all projects tasks is under development with a goal of reaching a minimum of 100,000 individuals and a minimum of 150 communities through project tasks over the life of the project
- Outreach Plan to include:
 - Local Government Trash Reduction toolkit
 - Mayor's Challenge Cleanup Event toolkit
 - Plogging and/or recreational cleanup event toolkit
 - Adopt-A-Spot resources and support
 - Social media outreach toolkits to replicate and amplify messaging across regions/state
- Issuing a monthly Trash Free Texas: North Central Texas newsletter beginning in March
 - Subscribe to the newsletter [here](#)
- Follow us on social media!
 - 📘 Facebook: <https://www.facebook.com/TrashFreeTexas>
 - 🐦 Twitter: <https://twitter.com/TrashFreeTexas>
 - 📷 Instagram: <https://www.instagram.com/trashfreetexas/>



Image: NCTCOG, Sargent, Texas, 2019

**Approximately 80 percent
of the litter found in our
waterways originates from
land-based sources.**

Source: *The State of Marine Environment*. United Nations Joint Group of Experts on the Scientific Aspects of Marine Pollution (GESAMP),. 1991. Blackwell Scientific Publications, London.

Webinar Recap

Trash Free Texas: Connecting Volunteers with Litter Cleanup Locations

RIVERS



Video Source:

<https://www.youtube.com/watch?v=cn9yKNyP6dE>

LAKES



STREAMS



ROADWAYS

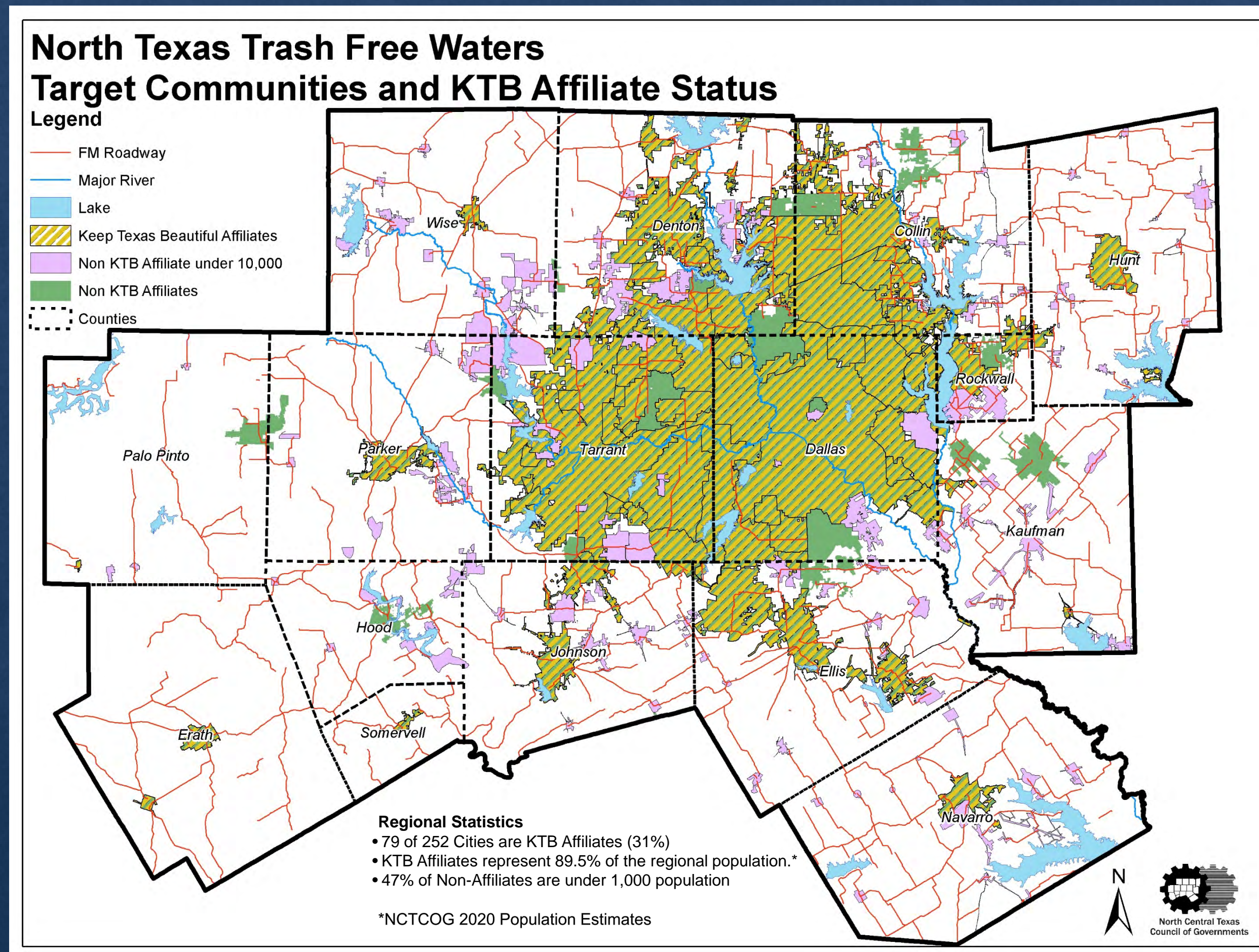


\$50 Million
Annually to Prevent,
Educate, Abate,
Enforce Litter and
Illegal Dumping
Efforts*

*Source: Texans for Clean Water. Study of nine cities in Texas, representing 25% of the state's population, documented expenditures of more than \$50 million annually on prevention, education, abatement, and enforcement efforts to address litter and illegal dumping in their communities and waterways (Burns & McDonnell, 2017).

Fostering a Litter Free Environment in North Texas

- Power in numbers – Use lessons learned from other regional efforts (Know What to Throw Campaign, Holiday Grease Roundup, etc.) in efficiency in amplification of messages
- Make it convenient and easy for users to find a location to clean up trash using Trash Free Texas website
- Examples of spots currently on site:
 - City of Denton
 - City of Fort Worth
 - City of Grand Prairie
- Populate Adopt-A-Spot Map on Trash Free Texas Website for all organizations to use
- Adopt-a:
 - School • Park
 - Riverway • Highway
 - Bayou • Shoreline
 - Anything that needs clean-up!
- Difficult to manage what you cannot measure, work on centralized data collection
- Create simple, easy-to- access resources and focus on areas not represented by KTB affiliates



Measure So We Can Manage

Statewide Organized Litter Cleanup Results December 2020 Survey



251 Responses representing over 150 cities in 66 Counties



77% of respondents participate or host clean-up events and 53% participate in regional events



Collecting cleanup data is most helpful from a litter control perspective



59% supported development of a statewide litter collection database that for use by all types of organizations (local governments, non-profits, individuals, etc.)



95% have never used an app to collect litter data



70% support a mobile or web-based app for use in real-time in the field for data input



Top three clean-up categories: County/city owned parks; roadside/highway; and creek/small drainage waterway



59% put everything in bag and count the total bags (Individual items not categorized)

Contact | Connect

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NCTCOG's Trash Free Waters Project Webpage

<https://www.nctcog.org/environment-development/watershed-management/trash-free-waters-project>

Trash Free Texas

 <https://www.trashfreetexas.org/>

 <https://twitter.com/TrashFreeTexas>

 <https://www.instagram.com/trashfreetexas/>

 <https://www.facebook.com/TrashFreeTexas>



87th Legislative Session Update

Tracking list

Posted on the RSWMCC website at

https://www.nctcog.org/nctcg/media/Environment-and-Development/Committee%20Documents/RSWMCC/FY2021/2021-SW-Legislative-Matrix_1.pdf?ext=.pdf

Roundtable Program

Upcoming TMDL Calculations Workshop

- Slated for April 20, 2021 at 9:30am
- Presentation from Jimmy Millican, Texas Institute for Applied Environmental Research (TIAER), over how to calculate waste load allocations, load duration curves, flow data, and more
- Presentation from Texas Commission on Environmental Quality over the TMDL benchmarks for stormwater permits
- MS Teams meeting link and more information will be sent out soon!

Future Post Construction Inspection Event

- Staff is looking for specific topics or areas that this body would like to see covered
- Please send ideas to chorner@nctcog.org

FY21 Invoices/Cost Shares

Fiscal Year 2021 cost shares amounts are the same as last year

- The webpage has been updated at <https://www.nctcog.org/envir/watershed-management/stormwater/cost-share>
- You may request an invoice through the webpage, or by asking staff to mail you an invoice
- We are at 71% committed, but about 55% funded.

Commitments Received as of February 19, 2021

Addison	Farmers Branch	Sachse
Allen	Fort Worth*	Southlake
Arlington*	Ft. Worth District TxDOT	Tarrant County
Azle	Frisco	University Park*
Benbrook	Garland*	
Carrollton	Grand Prairie*	
Cedar Hill	Hurst	
Cleburne	Irving*	
Colleyville	Kennendale	
Collin County	Lewisville	
Coppell	Mansfield	
Dallas	McKinney	
Dallas Co. Utility Reclamation District	Mesquite*	
DFW Airport	NTTA*	
Denton	Plano*	
Denton County	Richardson	

Committed Total:

\$213,217

Percent
Committed:

71%



* Confirmed Letter of Authorization, as requested by entity

FY2021 Work Program Task Force Projects

PUBLIC EDUCATION TASK FORCE

FY20 Project: Reducing Plastic Waste and Litter in Water Bodies



- [North Texas Community Cleanup Challenge](#) website under development with educational content and toolbox items being added
 - Toolbox to include information such as how the Community Cleanup Challenge works, Partner Resources and Downloads, and safety tips
 - DFW to the Gulf page helps educate residents on watersheds and how trash and litter wind up in aquatic and marine environments
- Region-wide community cleanup challenge slated for September – October 2021! Details on how to participate to follow soon!



FY2021 Work Program Task Force Projects

PUBLIC EDUCATION TASK FORCE

FY21 Special Project: Training and Education

- Goal of hosting one webinar in-between each quarterly meeting of PETF for FY21
- Confirmed Webinar: [Healthy Creeks and Waterways –Vegetation and the Flow of Healthy Waterways](#)
 - **On:** March 31st, 2021
 - **Time:** 9:30 – 11:00 am
 - **Presentations by:** Blake Alldredge, Upper Trinity Regional Water District & Aaron Hoff, Tarrant Regional Water District
 - Registration available [here](#)
- Seeking/confirming speakers and presentations on these prioritized topics:
 - Low-Impact Design
 - Small Scale BMPs
- Look for emails confirming dates and details for each webinar

FY2021 Work Program Task Force Projects

PUBLIC EDUCATION TASK FORCE

2021 March is Texas SmartScape Month



- Campaign slogan: Texas Tough, Texas True
- Graphic features Penstemon, Blackfoot Daisy, and Gayfeather in addition to Bluebonnets
- Included Monarch butterfly as pollinator
- Alternate image with no text available for communities who need this option
- Campaign resources available:
 - [Newsletter article](#)
 - [Newsletter blurb](#)
 - [Image with text](#)
 - [Image without text](#)

FY2021 Work Program Task Force Projects

PUBLIC EDUCATION TASK FORCE

PETF Activity Reports

- Reports for the following periods have been completed and sent to members of the RSWMCC and PETF:
 - August 13, 2019 – August 12, 2020
 - October 1, 2019 – September 30, 2020
 - December 13, 2019 – December 12, 2020
 - January 1, 2020 – December 31, 2020

This benefit is available for all cost share members of the Regional Stormwater Management Plan. If you have a different reporting period or have not received the PETF Activity Report for your reporting period, please contact Crysta Guzman at cguzman@nctcog.org.

FY2021 Work Program Task Force Projects

POLLUTION PREVENTION (P2) TASK FORCE

FY21 Special Project: Training and Education

- Members narrowed down their priority and focus to Member-Led BMP “Show and Tells” which will showcase BMPs they have implemented, highlighting any lessons learned during that implementation
- Tentative Speakers, dates TBA:
 - City of Mansfield
 - City of Irving
- Still seeking volunteer speakers and ideas! Please contact Crysta Guzman at cguzman@nctcog.org to learn more and/or volunteer



FY2021 Work Program Task Force Projects

POLLUTION PREVENTION (P2) TASK FORCE

FY18/19/20 Special Project: Preventing Pollution Training Videos

- Spanish translations for the whole Pollution Prevention: What Can We Do training series is underway
- Spanish options will be added to the Pollution Prevention Online Training System once complete

FY2021 Work Program Task Force Projects

ILLICIT DISCHARGE DETECTION & ELIMINATION (IDDE) TASK FORCE

Upcoming meeting:

- **March 23, 2021 at 9:30 AM**
 - Microsoft Teams Meeting
- Discussion of future training opportunities for the remainder of FY21.
 - Looking for City representatives to instruct training course.
- If your City would like to present a case study to the IDDE group, please contact Sydni Lignons.

IDDE Subcommittee webpage -

<https://www.nctcog.org/envir/committees/regional-stormwater-management-coordinating-council/illicit-discharge-detection-elimination-task-for>

IDDE webpage - <https://www.nctcog.org/envir/watershed-management/stormwater/illicit-discharge>

Point of Contact: Sydni Lignons, slignons@nctcog.org.

FY2021 Work Program Task Force Projects

STORMWATER MONITORING PROGRAM

- 2021 Monitoring activities started January 2021.
- 2020 Annual Monitoring Report and Appendices have been sent to the program participants for their review.
- NCTCOG and program participants met February 22nd to walk through edits to the report.
- COG staff are finalizing the report and preparing it to be mailed to TCEQ before the report deadline, March 1, 2021

Program contact: Sydni Ligon,
sligons@nctcog.org



FY2021 Work Program Task Force Projects

STORMWATER MONITORING PROGRAM

Best Management Practices Analysis and Evaluation Plan (BANEP) update.

- Plan purpose: The BMP Analysis and Evaluation Plan (BANEP) is a high-level approach for evaluating BMPs through the RWWCP.
- The program developed a workbook to capture the data needed to conduct the analysis.
- COG and program consultant held 1-hour individual technical assistance (TA) meetings.
 - six entities signed up for TA call.
 - Discussed the information needed for the analysis and constraints in providing the data.

Program contact: Sydni Lignons,
slignons@nctcog.org



Other NCTCOG Program Updates

NCTCOG Programs

OTHER ENVIRONMENT / DEVELOPMENT PROGRAMS



Integrated Stormwater Management (iSWM)

Public Works Council program

Task Order 4 activities update

- Task 2: Reorganize/Re-evaluate Site Development Controls
- Task 3: Guidance on developing a regional detention program
- Task 4: Detention criteria guidance research
- Task 5: Re-evaluate 85th Percentile (1.5") Rainfall Requirements
- Task 6: 5-Year Outreach and Implementation Strategy (High priority)
- Task 7: Provide details and specifications for water quality BMPs
- Draft documents are available [HERE](#)
- *Final documents at the April subcommittee meeting.*

Training materials available

Early Stormwater Planning Tools for a Successful Development/Redevelopment
December 16, 2020

This training features an overview of stormwater planning tools that can be used for successful development and redevelopment with post-construction BMPs.

- [PowerPoint](#) and [recording](#) can be found in the iSWM training Library:
<http://iswm.nctcog.org/training.html>

NCTCOG Programs

OTHER ENVIRONMENT / DEVELOPMENT PROGRAMS

Integrated Stormwater Management (iSWM)

Public Works Council program



- Upcoming meeting:
 - April 22, 2021 at 1:30 pm, Microsoft Teams

iSWM Implementation Subcommittee -

<https://www.nctcog.org/envir/committees/public-works-council/iswm-implementation-subcommittee>

Point of Contact: Sydni Ligons, sligons@nctcog.org.

NCTCOG Programs

OTHER ENVIRONMENT / DEVELOPMENT PROGRAMS **UPDATE**



Wastewater
And
Treatment
Education
Roundtable

Wastewater & Treatment Education Roundtable

- Why You Shouldn't Use Your Sink Disposal as a Garbage Can and Why Personal Care Products Should Never Be Flushed educational explainer videos under development
- **2020 Holiday Grease Roundup** ended on January 4, 2021.
 - Results are being tallied and will be presented at the March WATER meeting.
 - 2021 Roundup slated for November 22, 2021 through January 10, 2022.
- Now **accepting FY2021 Cost-Shares** at www.nctcog.org/envir/public-works/water-cost-share
- Upcoming **virtual** meeting:
 - March 10, 2021 at 10:00 AM, via Teams
- WATER Point of Contact: Hannah Allen
 - hallen@nctcog.org

NCTCOG Programs

OTHER ENVIRONMENT / DEVELOPMENT PROGRAMS **UPDATE**

✓ TMDL Water Quality



- TMDL Coordination Committee Meeting: July 1, 2021 at 9:30 AM
- Annual TMDL Questionnaire closes on March 12, 2021! Link to survey: <https://www.surveymonkey.com/r/J39SCJZ>
- TMDL Educational Explainer Video under development
 - Will provide background on TMDLs, how they are addressed and prevented, efforts to reduce bacteria, etc.
- On-Site Sewage Facility Social Media Toolkit under development
- TMDL Point of Contact: Hannah Allen, hallen@nctcog.org

More information on www.nctcog.org/TMDL

News and Resources

- The Trinity River National Recreation Trail, designated by the National Park Service on October 22nd, is now also a National Water Trail. It is the only NWT in the state of Texas and one of 33 nationwide. <https://trinitycoalition.org/paddling-trail>
- Regional Greenhouse Gas Inventory and Call for Cities to Participate in Cohort
- NCTCOG Webinar – [Healthy Creeks and Waterway: Vegetation and the Flow of Healthy Waterways](#), March 31, 2021
- EPA Announcement – [TCEQ to Administer Clean Water Program](#)
- EPA Trash Free Waters Webinar Recording: [Experiences and Lessons Learned from Trash Capture Projects](#)
- Texas Association of Builders: [Stormwater Training Webinar and Self-Certification Program](#)



North Texas Regional Integration of Sustainability Efforts (RISE) Coalition

Purpose

- Align regional partner initiatives
- Leverage regional resources and share best practices
- Provide networking and capacity building opportunities
- Identify funding opportunities for projects
- Provide mentorship
- Collaborate as a group on regional sustainability projects and initiatives

The Fiscal Year 2021 Work Plan serves to establish regional collaborative efforts to engage local governments on a broader scale and foster peer exchange on key topics, including, but not limited to:

- Regional Emissions Assessment
- Emissions Impact Analysis and Mitigation/Adaptation Strategy Development
- Urban Heat Island Reduction Strategy Analysis
- Food Diversion and Waste Reduction Programs



Membership in the RISE Coalition

- Local government members in North Central Texas are invited to join the RISE Coalition.
- Quarterly in-person meetings are posted on the **NCTCOG Environment & Development Events Calendar** and on the RISE Coalition website.
- The Coalition is guided by Bylaws.
- A **Frequently Asked Questions** (FAQ) has been developed to clarify membership options and participation opportunities.
- Please visit the **RISE Membership** page to learn more.
 - <https://www.nctcog.org/envir/development-excellence/rise-coalition/rise-membership>

NCTCOG Regional Greenhouse Gas Emissions Inventory Program

Part 1: Regional Call for Cities to Participate in a Regional Cohort

Licenses will be available for member cities to utilize ICLEI software (ClearPath) to produce their own Greenhouse Gas (GHG) Emissions inventory using the U.S. Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions.

Call for Interested Cities:

www.nctcog.org/trans/quality/air/local-regional-greenhouse-gas-emission-inventory

Opens: March 1, 2021

Closes: April 16, 2021

Requirements: NCTCOG Member City
(preference provided to RISE Coalition member cities)

For more information: Jenny Narvaez,
jnarvaez@nctcog.org, 817-608-2342



Regional Greenhouse Gas Emissions Inventory (GHG) Program

Part 2: NCTCOG is also conducting a Regional GHG Inventory for the 12-county Metropolitan Planning Area

- Initial step to conducting a GHG Inventory is collecting emissions sources in the region
- NCTCOG is Initiating Data Collection related to Energy, Waste, Water, and Wastewater
 - NCTCOG will be working through existing Federal, State, and Regional data
 - NCTCOG will contact individual cities, counties, special districts to provide needed data to fill gaps

Data Collection to begin March/April 2021

For reference and information, the data points for the regional GHG inventory are included on the next slide. NCTCOG will identify what is already available for the region and will be working to collect the data needed to fill the gaps.

Data Inputs for Individual City GHG Inventories (Part 1) and Regional GHG Inventory (Part 2)

No specific action is requested at this moment. The data points below are for information only. NCTCOG will be determining the appropriate process to collect this data, members who need to respond, and the process to issue surveys to fill identified data gaps for the region.

WASTE	WATER/WASTEWATER	WASTEWATER TREATMENT
Waste Sent to Combustion Facility (per facility) <ul style="list-style-type: none">Tons of WasteFossil CO2 (metric tons)N2O (metric tons)CH4 (metric tons)Biologic CO2 (metric tons)	Electricity Usage and Units	Emissions from Wastewater Treatment Energy Use <ul style="list-style-type: none">Electricity Used and UnitsNatural Gas Used and UnitsVolume of Water Treated and Units (optional)Population Served (optional)
Waste Sent to Landfill (per facility) <ul style="list-style-type: none">Tons of Waste Landfilled	Natural Gas Usage and Units	Emissions from the Combustion of Digester Gas – Site Specific <ul style="list-style-type: none">Calculation TypePopulation ServedGas Production (scf/day)Is energy recovered from combustion?Gas Composition (%CH4) (if applicable)Do you have gas composition or heat content?Heat Content (btu/scf)Wastewater generation and treatment location
Waste Sent to Compost Facility (per facility) <ul style="list-style-type: none">Tons of Waste Composted	Indicators <ul style="list-style-type: none">Water Consumed (million gallons per year) (optional)Population served (optional)	Emissions from the Combustion of Digester Gas – Population Based <ul style="list-style-type: none">Calculation TypeIs energy recovered from combustion?Population ServedWastewater generation and treatment location
Waste Transportation <ul style="list-style-type: none">Tons of WasteRound Trip Distance to Facility (miles)Transport Fuel	Allocation from Treatment System	Emissions from Flaring of Digester Gas <ul style="list-style-type: none">Digester Gas ProducedDestruction EfficiencyPopulation ServedFraction of CH4 in Digester GasWastewater generation and treatment location
Landfills (per facility) <ul style="list-style-type: none">CH4 (metric tons)	Process Intensities <ul style="list-style-type: none">Water ConsumptionWater Gallons per Day per Capita	Nitrification/Denitrification Process N2O from Wastewater Treatment <ul style="list-style-type: none">Nitrification/Denitrification as a step in the treatment processPopulation ServedWastewater generation and treatment locationIndustrial Commercial Discharge Multiplier
Waste Combustion Facilities (per facility) <ul style="list-style-type: none">Fossil CO2 (metric tons CO2)CH4 (metric tons CH4)N2O (metric tons N2O)Biologic CO2 (metric tons CO2)Indicators - Waste Combusted (tons)/Electricity Generated (kWh)	Energy Use <ul style="list-style-type: none">Water Source (ground, surface, etc)Percent of total gallons from sourceGallons from sourceDistribution kWh/million gallonsExtraction kWh/million gallonsTotal kWh/million gallonsConveyance kWh/million gallonsTotal kWhTreatment kWh/million gallons	Process N2Ofrom Effluent Discharge to Rivers and Estuaries <ul style="list-style-type: none">Do you have daily N load data from your effluent discharge?Daily N Load (kg N/day)Population ServedWastewater Generation and Treatment Location
Composting Facilities (per facility) <ul style="list-style-type: none">Amount of Waste CompostedWaste Type		Fugitive Emissions from Septic Systems – Population Based <ul style="list-style-type: none">Calculation TypePopulation Served



2021 CLIDE Celebrating Leadership In Development Excellence Awards

The CLIDE (Celebrating Leadership in Development Excellence) Awards honor development and planning projects that exemplify the region's Principles of Development Excellence, which outline a vision for sustainable, livable communities in North Texas. The North Central Texas Council of Governments (NCTCOG) is looking for projects and programs from North Texas that exemplify these principles.

Applications Accepted
February 1 - March 8, 2021
www.DevelopmentExcellence.com

Categories for Submittal

New Development

Recognizes developments that are constructed on previously undeveloped sites and that successfully exemplify many of the Principles of Development Excellence.

Redevelopment

Recognizes those developments that reuse and/or rebuild existing structures, and that successfully exemplify many of the Principles of Development Excellence.

Special Development

Recognizes projects that exemplify only one or two of the Principles of Development Excellence, but which are outstanding in their promotion of those selected principles. Projects that exemplify the Environmental Stewardship principle may be highlighted here. Examples include but are not limited to a sustainable infrastructure project, an energy conservation initiative, an open space or trail project, or a stormwater best management practice such as low-impact development.

Raising Public Awareness

Recognizes an organization and/or individual for educating the public or raising awareness of development excellence. Submittals may include but are not limited to: A media outlet in the North Central Texas region for a story or series, or an organization or a local government for a public education campaign.

Public Policy and Planning

Recognizes a local government or private/public partnership for implementing a program or policy that facilitates and promotes various aspects of the Principles of Development Excellence. Submittals may include but are not limited to: adopted policies, programs, ordinances, guidelines (mixed use, open space, natural feature protection, historic preservation, or incentives) that can include a public/private initiative; and comprehensive, neighborhood, area, or strategic plans.

Roundtable Discussion

Now It's Your Turn!



Upcoming Meetings



**Pollution
Prevention
TASK FORCE**
Next Meeting
TBD



**IDDE
TASK FORCE**
March 23, 2021
Teams



PETF
April 21, 2021
Teams



RSWMCC
May 19, 2021
Teams

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