

Resource Conservation Council Meeting

May 26, 2021

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North Central Texas
Council of Governments
Environment & Development

Welcome and Introductions

Member Roll Call – Please unmute your phone to state your presence.

Guests – Please submit your name and organization into the chat box.

Notification of Conflicts of Interest.

Steve Massey, Chair of the Resource Conservation Council (RCC), will request RCC representatives with a potential conflict of interest relating to an agenda item to notify the RCC of the conflict of interest.

Presentation

NCTCOG Regional Tire Disposal and Recycling Initiative

NCTCOG's Transportation Department will provide an overview of the current status and next steps of the NCTCOG Regional Tire Disposal and Recycling Initiative.

Regional Tire Disposal Initiative Update

Focus: Support and Enforcement

Support

Regional Tire Voucher Program

- Vehicle inspection - if tires fail inspection, voucher is issued to purchase new tires at reduced price at qualifying tire supplier
- Tire supplier - must show proof of proper used tire disposal to qualify for participation
- Questions: eligibility, funding, partnerships, and timeline

Enforcement

Regional Scrap Tire Handlers Database

- Partner with TCEQ on investigation and enforcement
- Maintain for use by law enforcement officers to ensure legal tire disposal

Technology Program

- Identify technological needs of cities/counties for use in enforcement
- Develop regional program to provide access to illegal dumping monitoring technology

Regional Tire Task Force

- Ensure development of regional program continues to move forward
- Assist with programmatic activities
- 16 volunteers so far (municipalities, code compliance, policy makers, tire manufacturers/distributors...)
- Interested? Contact Nick Van Haasen at nvanhaasen@nctcog.org

Regional Tire Disposal Initiative Contacts

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Presentation

NCTCOG Organic Waste to Fuel Feasibility Study

NCTCOG will provide a brief overview of the Organic Waste to Fuel Feasibility Study funded by the Environmental Protection Agency (EPA).

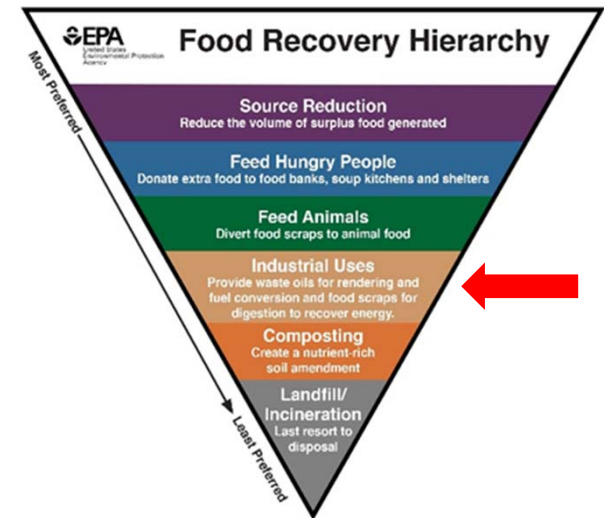
Why is NCTCOG interested in this Topic?

Challenges and Opportunities for North Central Texas

- Retain and Improve Landfill Capacity
 - 36 years of remaining capacity left
- Divert Food Waste and Other Organics
 - Based on recent audits, 50% of NCT waste stream is organic waste (31% food waste)
- Improve Biosolid Management
- Produce Biogas and Renewable Fleet Fuel
 - Support transition to RNG vehicles
- Reduce Greenhouse Gas and Other Emissions
- Meet zero-waste and other goals



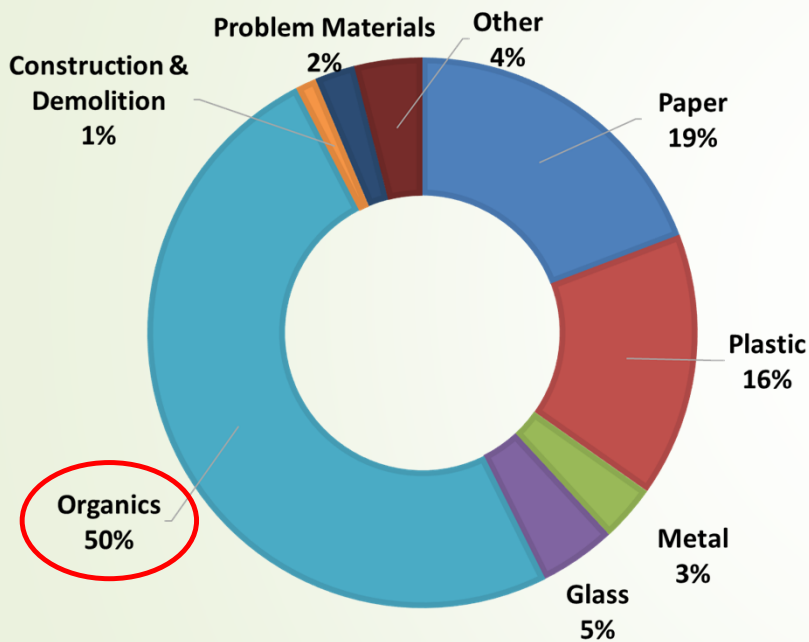
EPA Non-Hazardous Waste Management Hierarchy (Source: EPA)



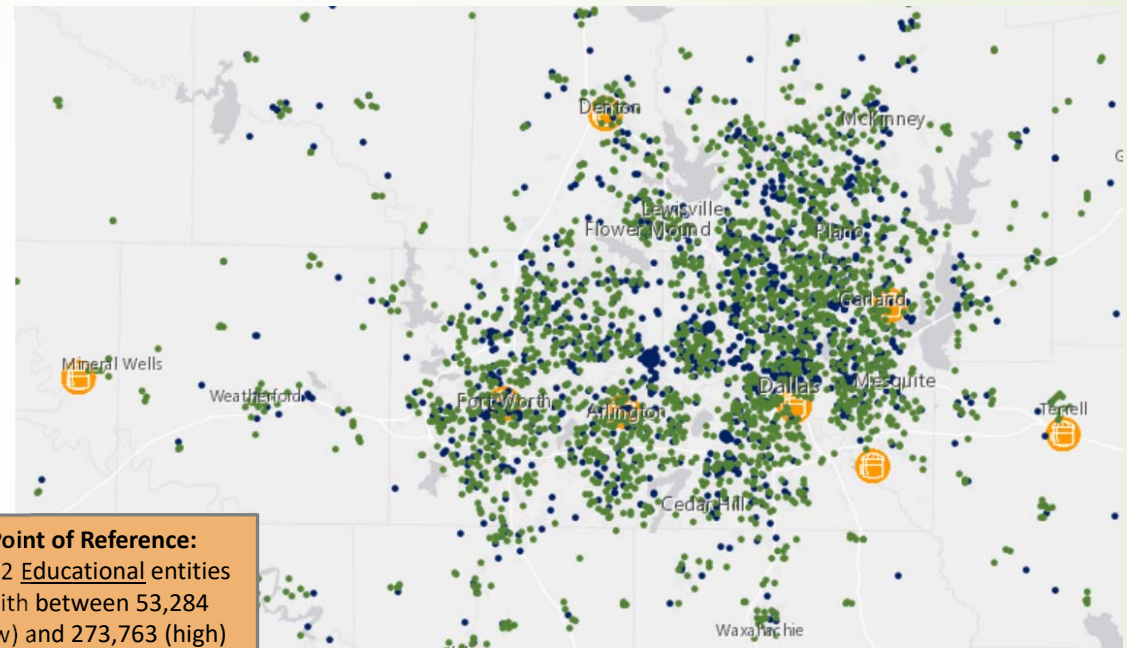
EPA Food Waste Recovery Hierarchy (Source: EPA)

Organic Waste in North Central Texas

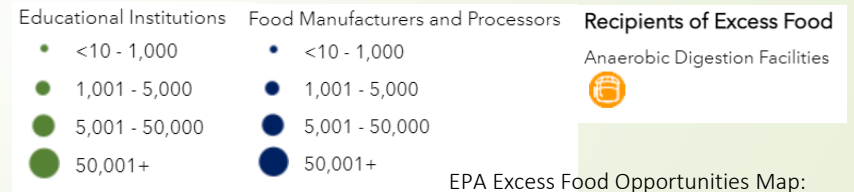
2019 NCT Residential Waste Composition



Top Generators of Estimated Excess Food (Tons per Year)



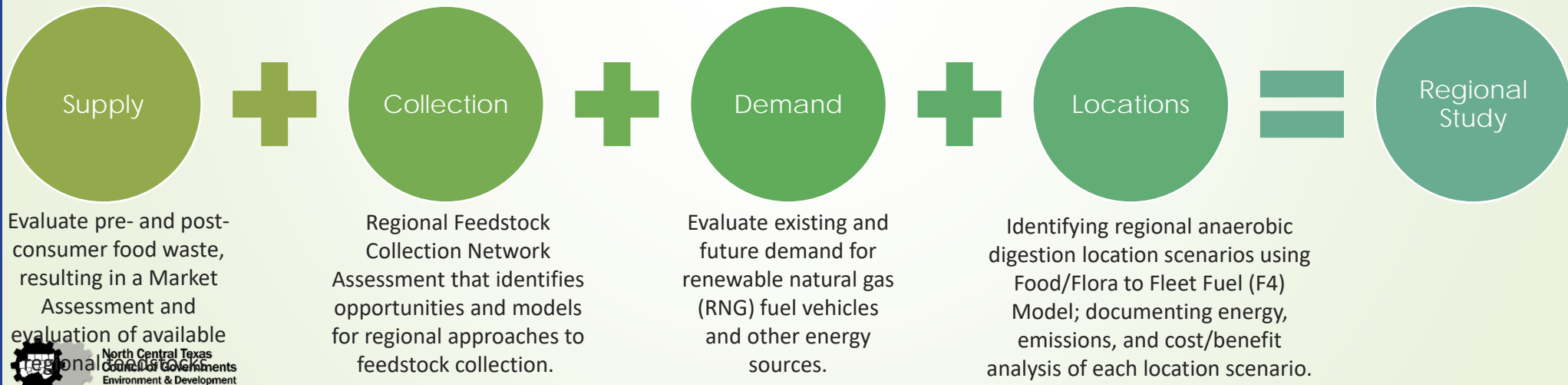
Point of Reference:
 2,542 Educational entities with between 53,284 (low) and 273,763 (high) tons of excess food per year.
 Food Manufacturers and Processors have an estimated 2.5 to 8.2 million tons per year.



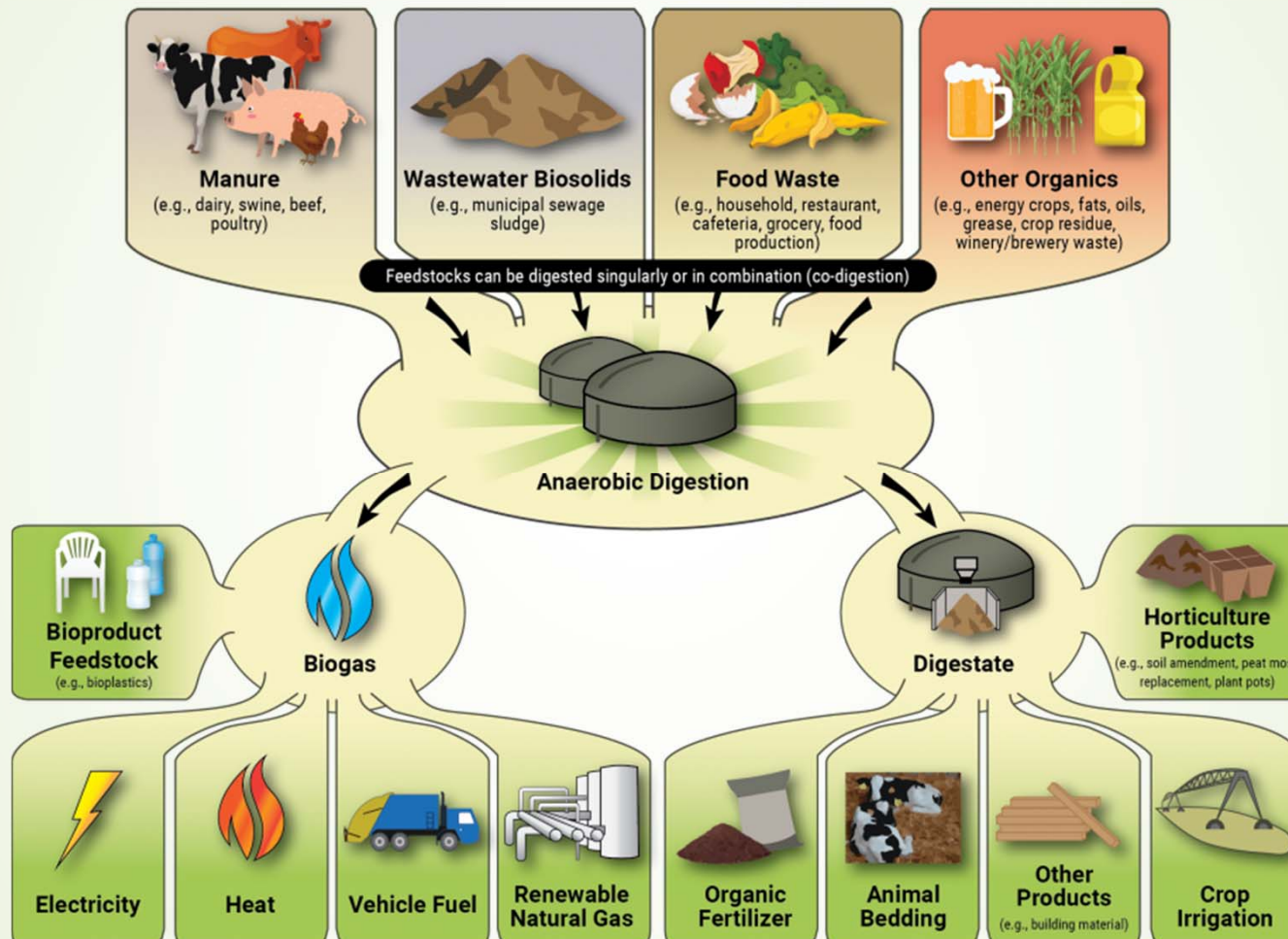
North Central Texas Organic Waste to Fuel Feasibility Study

Regional Study Goals:

- Advance regional efforts to divert food waste, biosolids, and other organics from landfills to preserve landfill capacity
- Increase regional renewable energy opportunities
- Evaluate the potential to reduce fleet emissions
- Identify pilot projects and partnerships to advance those projects

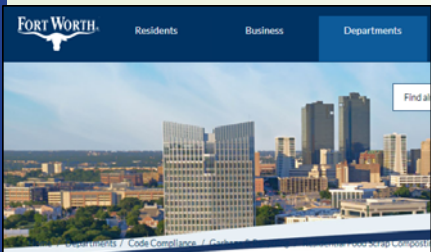


Anaerobic Digestion Process



Initial Regional Feedback (March 2021)

- Priorities for Feedstocks
- Collection Strategies



Residential Food Scrap Composting Pilot Program



Photo by Katie Campbell/Flickr

EAT AND DRINK

Denver's Food Waste Pilot Program Has Launched

Certifiably Green Denver and local restaurants are partnering to reduce food waste. You can help, too.

AMANDA M. FAISON • MAY 10, 2019

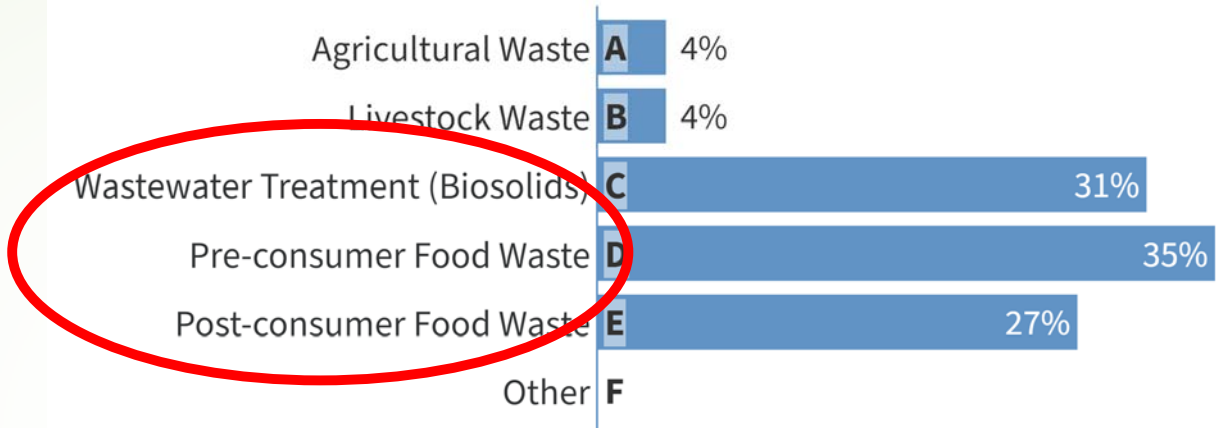
Starting on May 1, Denver got a little greener. That was the day that Certifiably Green Denver—the city's sustainability program that helps businesses green their practices—launched its Food Waste Pilot Program in the Mile High City. This is a monumental step toward reaching the City and County of Denver's climate action goals because the program's focus is on restaurants.



North Central Council of Governments
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<https://www.fortworth.gov/departments/code-compliance/solidwaste/food-scrap-compost>
<https://www.5280.com/2019/05/denvers-food-waste-pilot-program-has-launched/>

What organic **feedstocks** should the study prioritize assessing on a regional scale? (Select up to three)



Which **organic waste collection strategy**/models would be good pilot projects to assess? (Select up to three)



Organic Waste to Renewable Natural Gas Regional Updates

North Central Texas Organic Waste to Fuel Feasibility Study

- Award and initiation of work March 15, 2021
- Partnership between NCTCOG, DFW Clean Cities, and University of Texas at Arlington, and NCTCOG Transportation Department
- Will hire a contractor in Summer

Participation in DOE's Argonne National Lab RNG Working Group

DOE Phase 1 Waste to Energy Technical Assistance – Awarded May 11, 2021

- *Partners:* Cities of Lewisville and Plano, DFW Airport, Toyota Motor North America, and NCTCOG
- *Scope:* Site assessments of three identified potential Anaerobic digestion locations, analysis of feedstocks, capacity, and best strategies for increasing available feedstocks, and guidance in identifying gaps and opportunities based on existing infrastructure and feedstocks.
- NCTCOG and partners will receive 40 hours of FREE technical assistance from DOE

Past Regional Webinars:

- December 9, 2020 - Food Waste, Anaerobic Digestion, and RNG Regional Efforts Roundtable ([recording and presentations available here](#))
- March 24, 2021 – Organic Waste to Renewable Natural Gas Roundtable ([recording and presentations available here](#))
- Next Roundtable in July 2021 – Food Waste Collection Networks in North Texas

Regional Study Next Steps

Establish and Convene Advisory Group with Diverse Stakeholders to Guide Study

- ▶ Municipalities
- ▶ Wastewater Provider
- ▶ School District
- ▶ Private Sector
- ▶ Industry
- ▶ Non-profit
- ▶ University (UTA) and others as appropriate

Next Regional Roundtable – July 2021

- ▶ Dates and Agenda will be posted at:
<http://conservenorthtexas.org/workshops-and-training-opportunities>

Contact:

- ▶ Breanne Johnson at bjohnson@nctcog.org
- ▶ Sign up for news and meeting announcements at:
<https://www.nctcog.org/envir/mail>

Action Items

Meeting Summary. The [March 11, 2021 meeting summary](#) will be presented for approval.

- Members: Please unmute your phone to vote.

Action Items

City of Burleson's Disaster Debris Management Plan

City of Burleson will provide a presentation covering the Disaster Debris Management Plan developed using funding awarded through the Solid Waste Grant Program.

The RCC will be asked to review and accept the study which will then go to NCTCOG's Executive Board for acceptance.

Disaster Debris Management Plan

For

City of Burleson, TX

May 26, 2021

Disaster Debris Management Plan

The City of Burleson:

- ❖ Faced with natural, man-made and technological hazards that may cause a debris generating incident

Johnson County has seen 130 tornadoes since 1951 at EF2 or higher

Seeking funding to develop a Disaster Debris Management Plan:

- ❖ Facilitates quick response and recovery activities,
- ❖ Quick return of our community back to normal,
- ❖ Reduces impacts to humans and the environment
- ❖ Aids in complying with applicable local, state and federal regulations.

Purpose of Grant

Development of a Disaster Debris Management Plan (DDMP) to:

- ❖ Better respond to emergency debris removal situations.
- ❖ Outline the components critical to the success of a debris removal operation
- ❖ Provides key information that will help the City coordinate and effectively manage a turn-key debris removal effort
- ❖ Improve the City's understanding of a debris-generating incident

Purpose of Grant

continue

❖ Delineate roles/responsibilities during a debris removal operation

❖ Rules, regulations, and guidelines

- Federal Emergency Management Agency (FEMA)
- Other agencies governing debris removal

❖ The process of collecting debris

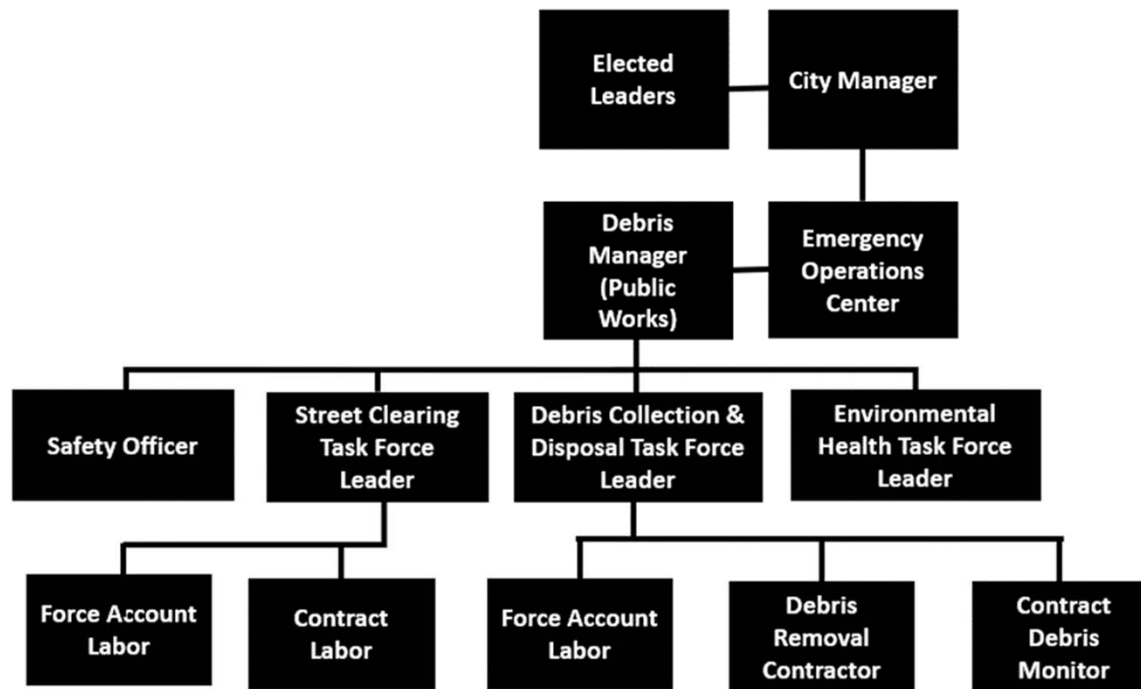
❖ Debris disposal process

- Staged for reduction
- Hauled to final disposal

❖ Establish Contracts

- Hauler
- Monitor

Debris Management Operations Chart



Activating Monitoring/Debris Removal Firms

Hauling and Monitoring Contractors RFP Process

- Monitoring Firm – monitor and certify truck collection and disposal
- Debris Hauling Firm – transports debris to debris management sites
 - ❖ Temporary site
 - ❖ Permanent site

Activation – Firms are non – active state until City activates

DDMP will be review be reviewed annually

Monitoring and Hauling contracts will be reviewed every 3 years

Status

DDMP has been developed, written, City Staff trained

❖ Hauling and Monitoring Contractors being hired

City has paid development firm; reimbursed by the NCTCOG

DDMP is being routed to TDEM and FEMA for review

Quarterly Reports 1 thru 3 completed

All Contractual requirements of NCTCOG are on schedule

***Many thanks to the NCTCOG
for awarding
The City of Burleson
this Grant***

Disaster Debris Management Plan

City of Burleson, TX

Will Allen, *Emergency Management* May 26, 2021

Action Items

FY22-23 Solid Waste Grant Program – Regional COG Managed Projects

The Grant Selection Subcommittee and Regional Management Plan Subcommittee will present their joint recommendation to the RCC regarding regional COG managed projects.

- Recommend that a Regional Project be performed
- Topics: Organics, Tires, or both

Action Items

FY22-23 Solid Waste Grant Program – Regional COG Managed Projects

- Topic Discussion: Organics vs. Tires (or both)
- Tires
 - Regional Tire Disposal & Recycling Initiative
 - Clean Up Events
- Organics (food, yard, biosolids, disaster debris)
 - Pilot Program
 - Technical Study
 - Food Waste Regional Contract

FY2022 and 2023 Budget Allocation

An Example Only

	NCTCOG Regional Coordination Budget (40% of Total)	Implementation Budget (60% of Total)		Total
		Regional Projects (~20%) *	Pass-Through Grants (~80%) *	
FY 2022	\$440,000	\$130,000	\$520,000	\$1,090,000
FY 2023	\$440,000	\$130,000	\$520,000	\$1,090,000
Biennium Total	\$880,000	\$260,000	\$1,040,000	\$2,180,000



Action Items

FY22-23 Solid Waste Grant Program – Regional COG Managed Projects

► Budget

The RCC will be asked to vote on the regional project topic(s) and budget.

Discussion

87th Texas Legislative Session

Bill Number	Author	Topic	Status
HB 2708	Patterson	Relating to the use of certain fees deposited to the hazardous and solid waste remediation fee account for environmental remediation at a closed battery recycling facility site location in a municipality.	Passed House (5/8/21), Passed Senate (5/24/21)
HB 3418	Fierro	Relating to the status purchasing preference for recycled, remanufactured, or environmentally sensitive products.	Passed House (5/7/21), Referred to Senate Committee (5/18/21)
HB 4110	Leach	Relating to the regulation of metal recycling; increasing a criminal penalty.	Passed House (5/14/21), Placed on Senate intent calendar (5/25/21)
SB 1	Nelson	General Appropriations Bill	Passed Senate (4/6/21), Passed House w/ amendments (4/23/21), Senate conference report filed (5/25/21)

Discussion

87th Texas Legislative Session

Bill Number	Author	Topic	Status
SB 594	Hinojosa	Relating to the provision of solid waste disposal services by certain counties; authorizing a fee.	Passed Senate (5/6/21), Referred to House Committee (5/11/21)
SB 1818	Zaffirini	Relating to a defense under the Solid Waste Disposal Act for persons engaged in certain scrap metal recycling transactions.	Passed Senate (4/22/21), Passed House (5/11/21), Sent to Governor (5/19/21)

- NCTCOG is tracking 34 bills related to solid waste.
- Legislative Sessions closes on May 31, 2021
- The full [Legislative Matrix is available online](#) for review.

Discussion

Preferred Meeting Format

- ▶ Format
 - ▶ In-person
 - ▶ Virtual
 - ▶ Hybrid
- ▶ Timeline
 - ▶ Earliest would be September 2021

Discussion

NCTCOG Updates:

- ▶ FY2022 Membership Reappointments
- ▶ Recycle Roundtable – next meeting: August 19, 2021 at 1:30PM
- ▶ Final COVID-19 and Waste Management Conference Call – June 16, 2021 at 2:30 PM
- ▶ Western Region Solid Waste Capacity Study – PAG meeting – June 9, 2021 at 9:30 AM
- ▶ Regional Solid Waste Management Plan Update
- ▶ FY2020-2021 Solid Waste Grants
- ▶ EPA Region 4 Trash Free Waters Grant

EPA Trash Free Waters Grant

- Project Goals:
 - Increase Adopt-A-Spot locations through [Trash Free Texas](#) Website
 - Provide outreach support for regional clean-up events
 - Reduce the use of plastics in restaurants
 - Share and replicate across the state
- Community Cleanup Challenge: <http://communitycleanupchallenge.com/coming-soon.php>
- Trash Free Texas Webinar: Connecting Volunteers with Litter Cleanup Locations (recording): <https://www.youtube.com/watch?v=CL9JhKV2aas&feature=youtu.be>
- TARC Presentation – March 30, 2021
- Trash Free Waters: North Central Texas Newsletter
- Project Webpage: <https://www.nctcog.org/environment-development/watershed-management/trash-free-waters-project>



Other Business

Future agenda items

Roundtable topics

Next Meeting Date:

Wednesday, August 25, 2021 at 1:30 p.m.
The meeting will be virtual. Details to follow.

Resources

- ▶ Materials Management website: <https://www.nctcog.org/envir/materials-management>
- ▶ Regional Solid Waste Management Plan: <https://www.nctcog.org/envir/materials-management/materials-management-plan>
- ▶ Solid Waste Grants: <https://www.nctcog.org/envir/materials-management/grants>
- ▶ Regional Electronics Recycling Contract: <https://www.nctcog.org/envir/materials-management/regional-electronics-recycling-contract>
- ▶ Closed Landfill Inventory: <https://www.nctcog.org/envir/materials-management/closed-landfill-inventory>

Resources

- ▶ Illegal Dumping: <https://www.nctcog.org/envir/materials-management/illegal-dumping>
- ▶ Western Region Waste Capacity Study: <https://www.nctcog.org/envir/materials-management/western-region-solid-waste-capacity-study>
- ▶ Regional Recycling Project (Know What To Throw): <https://www.nctcog.org/envir/materials-management/regional-recycling-survey-and-campaign>
- ▶ Time To Recycle: <http://www.timetorecycle.com/>
- ▶ Senate Bill 1376 Toolkit: <https://www.nctcog.org/envir/materials-management/sb-1376-resources>

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North
Texas
RISE
Coalition

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

Fiscal Year 2021 Work Plan establishes regional collaborative efforts 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,
jinarvaez@nctcog.org, 817-608-2342

Regional Integration of Sustainability Efforts Coalition

www.nctcog.org/envir/development-excellence/rise-coalition



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 Waste Fossil 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 Units Natural Gas Used and Units Volume 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 Type Population Served Gas 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 Type Is energy recovered from combustion? Population Served Wastewater generation and treatment location
Waste Transportation <ul style="list-style-type: none"> Tons of Waste Round 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 Produced Destruction Efficiency Population Served Fraction of CH4 in Digester Gas Wastewater 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 Consumption Water 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 process Population Served Wastewater generation and treatment location Industrial 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 source Gallons from source Distribution kWh/million gallons Extraction kWh/million gallons Total kWh/million gallons Conveyance kWh/million gallons Total kWh Treatment kWh/million gallons 	Process N2O from 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 Served Wastewater Generation and Treatment Location
Composting Facilities (per facility) <ul style="list-style-type: none"> Amount of Waste Composted Waste Type 		Fugitive Emissions from Septic Systems – Population Based <ul style="list-style-type: none"> Calculation Type Population Served