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CITY SECRETARY  
DALLAS, TEXAS

## City of Dallas

POSTED CITY SECRETARY  
DALLAS, TX

1500 Marilla Street,  
Council Chambers, 6th Floor  
Dallas, Texas 75201



### Environment and Sustainability Committee

March 7, 2022

9:00 AM

The Environment and Sustainability Committee will be held by videoconference and in the City Hall Council Chambers (6th Floor).

Members of the public are encouraged to attend the meeting virtually. However, City Hall is available for those wishing to attend the meeting in person following all current pandemic-related public health protocols.

The meeting will be broadcast live on Spectrum Cable Channel 16 and online at <https://bit.ly/cityofdallastv>.

The public may also listen to the meeting as an attendee at the following videoconference [link](#).

## 2021 CITY COUNCIL APPOINTMENTS

COUNCIL COMMITTEE	
<b>ECONOMIC DEVELOPMENT</b> Atkins (C), Arnold (VC), McGough, Narvaez, Resendez, West, Willis	<b>ENVIRONMENT AND SUSTAINABILITY</b> Blackmon(C), Ridley (VC), Arnold, Bazaldua, Resendez, Schultz, West
<b>GOVERNMENT PERFORMANCE AND FINANCIAL MANAGEMENT</b> Mendelsohn (C), Willis (VC), Atkins, Bazaldua, McGough, Ridley, West	<b>HOUSING AND HOMELESSNESS SOLUTIONS</b> Thomas (C), Moreno (VC), Arnold, Blackmon, Mendelsohn, Ridley, Schultz
<b>PUBLIC SAFETY</b> McGough (C), Mendelsohn (VC), Atkins, Moreno, Resendez, Thomas, Willis	<b>QUALITY OF LIFE, ARTS, AND CULTURE</b> Bazaldua (C), West (VC), Arnold, Blackmon, Narvaez, Ridley, Thomas
<b>TRANSPORTATION AND INFRASTRUCTURE</b> Narvaez (C), Atkins (VC), Bazaldua, Mendelsohn, Moreno, Schultz, Willis	<b>WORKFORCE, EDUCATION, AND EQUITY</b> Schultz (C), Thomas (VC), Blackmon, McGough, Moreno, Narvaez, Resendez
<b>AD HOC JUDICIAL NOMINATING COMMITTEE</b> Resendez (C), Arnold, Bazaldua, Ridley, Thomas, West, Willis	<b>AD HOC LEGISLATIVE AFFAIRS</b> Atkins (C), McGough, Mendelsohn, Narvaez, Willis
<b>AD HOC COMMITTEE ON COVID-19 RECOVERY AND ASSISTANCE</b> Thomas (C), Atkins, Mendelsohn, Moreno, Ridley	<b>AD HOC COMMITTEE ON GENERAL INVESTIGATING &amp; ETHICS</b> Mendelsohn (C), Atkins, Blackmon, McGough, Schultz

(C) – Chair, (VC) – Vice Chair

### Handgun Prohibition Notice for Meetings of Governmental Entities

"Pursuant to Section [30.06](#), Penal Code (trespass by license holder with a concealed handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a concealed handgun."

"De acuerdo con la sección [30.06](#) del código penal (ingreso sin autorización de un titular de una licencia con una pistola oculta), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola oculta."

"Pursuant to Section [30.07](#), Penal Code (trespass by license holder with an openly carried handgun), a person licensed under Subchapter H, Chapter 411, Government Code (handgun licensing law), may not enter this property with a handgun that is carried openly."

"De acuerdo con la sección [30.07](#) del código penal (ingreso sin autorización de un titular de una licencia con una pistola a la vista), una persona con licencia según el subcapítulo h, capítulo 411, código del gobierno (ley sobre licencias para portar pistolas), no puede ingresar a esta propiedad con una pistola a la vista."

"Pursuant to Section [46.03](#), Penal Code (places weapons prohibited), a person may not carry a firearm or other weapon into any open meeting on this property."

"De conformidad con la Sección [46.03](#), Código Penal (coloca armas prohibidas), una persona no puede llevar un arma de fuego u otra arma a ninguna reunión abierta en esta propiedad."

Note: A quorum of the Dallas City Council may attend this Council Committee meeting.

**Call to Order****MINUTES**

- A. [22-650](#) Approval of the February 7, 2022 Committee Minutes

**Attachments:** [Minutes](#)

**BRIEFING ITEMS**

- B. [22-651](#) Local Solid Waste Management Plan Update  
[Jay Council, Director, Sanitation Services; Cliff Gillespie, Assistant Director, Sanitation Services]

**Attachments:** [Presentation](#)

- C. [22-652](#) North Central Texas Council of Governments (NCTCOG) Air Quality Program  
[Jenny Narvaez, Program Manager, North Central Texas Council of Governments]

**Attachments:** [Presentation](#)

- D. [22-653](#) Regulatory Air Quality Program  
[Paul White II, Superintendent - Air, Soil, & Groundwater Division, Environmental Quality & Sustainability]

**Attachments:** [Presentation](#)

- E. [22-654](#) Non-Regulatory Air Quality Programs  
[Kevin Overton, Senior Environmental Coordinator, Environmental Quality & Sustainability]

**Attachments:** [Presentation](#)

- F. [22-655](#) Environmental Commission Update  
[Kathryn Bazan, Chair, Environmental Commission]

**ADJOURNMENT**

**EXECUTIVE SESSION NOTICE**

A closed executive session may be held if the discussion of any of the above agenda items concerns one of the following:

1. seeking the advice of its attorney about pending or contemplated litigation, settlement offers, or any matter in which the duty of the attorney to the City Council under the Texas Disciplinary Rules of Professional Conduct of the State Bar of Texas clearly conflicts with the Texas Open Meetings Act. [Tex. Govt. Code §551.071]
2. deliberating the purchase, exchange, lease, or value of real property if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.072]
3. deliberating a negotiated contract for a prospective gift or donation to the city if deliberation in an open meeting would have a detrimental effect on the position of the city in negotiations with a third person. [Tex. Govt. Code §551.073]
4. deliberating the appointment, employment, evaluation, reassignment, duties, discipline, or dismissal of a public officer or employee; or to hear a complaint or charge against an officer or employee unless the officer or employee who is the subject of the deliberation or hearing requests a public hearing. [Tex. Govt. Code §551.074]
5. deliberating the deployment, or specific occasions for implementation, of security personnel or devices. [Tex. Govt. Code §551.076]
6. discussing or deliberating commercial or financial information that the city has received from a business prospect that the city seeks to have locate, stay or expand in or near the city and with which the city is conducting economic development negotiations; or deliberating the offer of a financial or other incentive to a business prospect. [Tex Govt. Code §551.087]
7. deliberating security assessments or deployments relating to information resources technology, network security information, or the deployment or specific occasions for implementations of security personnel, critical infrastructure, or security devices. [Tex Govt. Code §551.089]



# City of Dallas

1500 Marilla Street  
Council Chambers, 6th Floor  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 22-650

**Item #:** A.

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Approval of the February 7, 2022 Committee Minutes

# Environment and Sustainability Committee Meeting Record

The Environment and Sustainability Committee meetings are recorded. Agenda materials are available online at [www.dallascityhall.com](http://www.dallascityhall.com).

**Meeting Date:** February 7, 2022

**Convened:** 9:01 a.m.

**Adjourned:** 10:22 a.m.

**Committee Members Present:**

Paula Blackmon, Chair  
Paul E. Ridley, Vice Chair  
Carolyn King Arnold  
Adam Bazaldua  
Jaime Resendez  
Jaynie Schultz  
Chad West

**Committee Members Absent:**

**Other Council Members Present:**

**Presenters:**

Susan Alvarez, Assistant Director, Office of Environmental Quality & Sustainability  
Pharr Andres, Sr. Climate Coordinator, Environmental Quality & Sustainability  
Lori Clark, Program Manager, DFW Clean Cities Coordinator  
Celina Bonugli, Associate, Clean Energy Innovation, World Resources Institute

## AGENDA

Call to Order (9:01 a.m.)

**A. Approval of the January 3, 2022 Environmental and Sustainability Committee Minutes**

**Presenter(s):** Paula Blackmon, Chair

**Action Taken/Committee Recommendation(s):** A motion was made to approve the minutes for the January 3, 2022 Environmental and Sustainability Committee meeting.

Motion made by: Jaynie Schultz

Item passed unanimously: X

Item failed unanimously:

Motion seconded by: Adam Bazaldua

Item passed on a divided vote:

Item failed on a divided vote:

**B. Green Buildings: 2017 Bond Program Facilities Projects**

**Presenter(s):** Carlos Evans, Director, Office of Environmental Quality & Sustainability; Adriana Castañeda, Director, Bond & Construction Management

**Action Taken/Committee Recommendation(s):** The Committee discussed: Ensuring that city facilities meet the standards for LEED Silver certification and include other green-building designs. Local materials and city policy on environmentally sustainable expansions or renovations. Net zero emissions at Vickery Park branch library.

Motion made by: Paul E. Ridley

Item passed unanimously: X

Item failed unanimously:

Motion seconded by: Jaynie Schultz

Item passed on a divided vote:

Item failed on a divided vote:

**C. Green Building Policy Options**

**Presenter(s):** Susan Alvarez, Assistant Director, Environmental Quality & Sustainability

**Action Taken/Committee Recommendation(s):** The Committee discussed: Plans to monitor the energy usage at the Vickery Park branch library. "Cool roof" building requirement and storage blue roofs. Moderations of UV rays through water storage. Net zero carbon recommendations. Involvement of the Plan Commission in the net zero carbon policy. Original Green Building Code processed through the CPC.

Motion made by:

Item passed unanimously:

Item failed unanimously:

Motion seconded by:

Item passed on a divided vote:

Item failed on a divided vote:

**D. Environment Commission Update**

**Presenter(s):** Kathryn Bazan, Chair, Environmental Commission

**Action Taken/Committee Recommendation(s):** The Committee discussed: Commission staff and nominations from each Council district. The status of the proposal to require SUPs for concrete batch plants. Examining the Tree Docket in CECAP to ensure that trees are not being needlessly cleared during development projects.

Motion made by:

Item passed unanimously:

Item failed unanimously:

Motion seconded by:

Item passed on a divided vote:

Item failed on a divided vote:

**E. Batch Plant and Industrial Uses Code Amendment Update**

**Presenter(s):** Julia Ryan, Director, Planning + Urban Design

**Action Taken/Committee Recommendation(s):** The Committee discussed: Identifying opportunities in our Forward Dallas and other long-term plans to identify areas of town where no one wants to live, where we could place batch and other warehouses.

Motion made by:

Item passed unanimously:

Item failed unanimously:

Motion seconded by:

Item passed on a divided vote:

Item failed on a divided vote:

Adjourn (10:22 a.m.)

**APPROVED BY:**

**Paula Blackmon, Chair**

**Environment & Sustainability Committee**

**ATTESTED BY:**

**Juan Garcia, Committee Coordinator**

**Environment & Sustainability Committee**



# City of Dallas

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Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 22-651

**Item #:** B.

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Local Solid Waste Management Plan Update

[Jay Council, Director, Sanitation Services; Cliff Gillespie, Assistant Director, Sanitation Services]





**City of Dallas**

# **Dallas Local Solid Waste Management Plan Update**

**Environment and Sustainability  
Committee  
March 7, 2022**

**Jay Council  
Director of Sanitation Services**

**Cliff Gillespie  
Assistant Director of Sanitation Services**

# Meeting Agenda



## **LSWMP Update Background**

*Information about LSWMP Update*

## **Study Approach**

*Strategic process for developing the LSWMP Update*

## **Draft Objectives and Goals**

*Draft goals and objectives the City is considering for the updated plan*

## **Options**

*Infrastructure, single-family, multi-family, commercial sector options*

## **Next Steps**

*Upcoming deadlines and meetings in 2022 to complete the LSWMP Update*

## **Q&A**

*City staff available to answer questions*



# LSWMP Update Background



The City's current plan was developed in 2011 and adopted by City Council in 2013. It identified policies, programs and infrastructure that mapped out how the City could achieve Zero Waste.

City has achieved several key milestones since the plan was adopted including:

- In 2015, the City implemented a single-use plastic ban fee that financially supported the development of Comprehensive Climate and Environmental Action Plan (CECAP)
- In 2017, the City entered a public-private partnership to construct a Materials Recycling Facility (MRF) to support increasing residential single-stream material recycled
- In 2020, the City adopted its Multi-Family Recycling Ordinance (MFRO) to increase access to recycling for people who live in multi-tenant properties
- In 2021, the City piloted separate collection of brush and bulky items in select areas to be assessing its feasibility



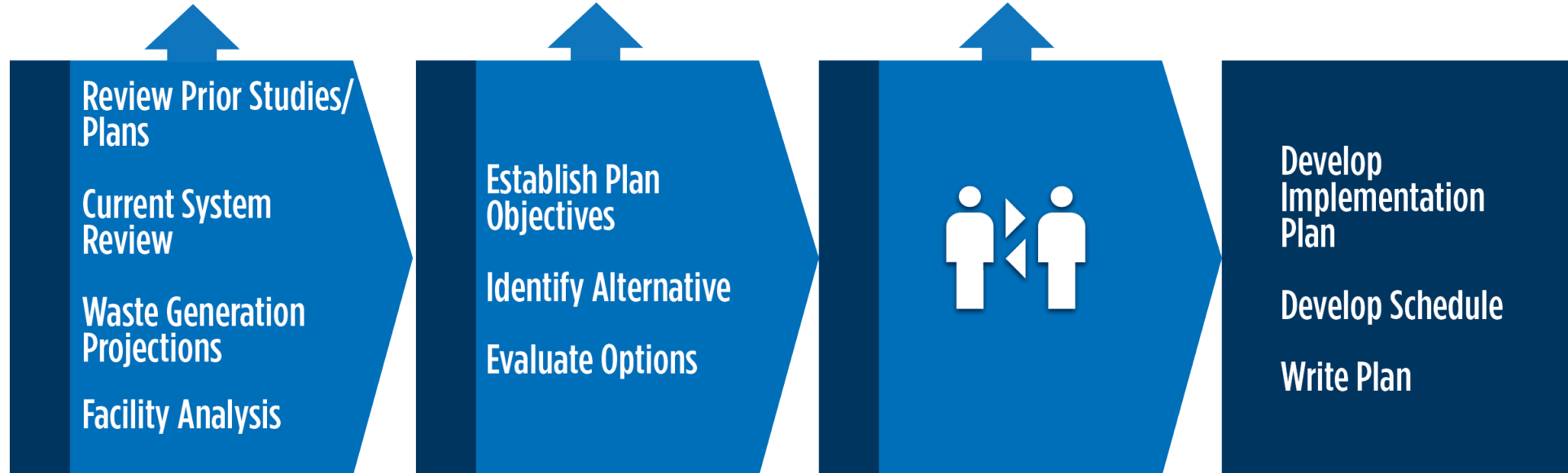
# LSWMP Update Approach



Early Improvement  
Recommendations

Feasibility  
Matrix

Preferred Strategies  
and Options



Evaluate Existing  
System

Develop Strategies  
and Options

Strategy  
Workshops

Local Solid Waste  
Management Plan





# Public & Stakeholder Engagement



- Public and stakeholder engagement is an important part of the LSWMP Update
- Input gathered informs evaluation and recommendations developed as part of LSWMP Update
  - 5,500+ survey responses from single-family residents, multi-family tenants and property managers and commercial entities
  - Individual meetings with neighborhood groups, the Dallas Regional Chamber, Texas Restaurant Association (Greater Dallas Chapter), Apartment Association of Greater Dallas and Texas Campaign for the Environment
  - Interviews with multiple City departments and stakeholders
  - Approximately 6,800 visits to the LSWMP website
- Upcoming stakeholder engagement efforts include
  - Public meeting and community engagement
  - Follow up survey to gather feedback on draft LSWMP Update



# Coordination with CECAP



Comprehensive Climate and Environmental Action Plan (CECAP) material management-related objectives:

1	Actively Promote Source Reduction, Recycling and Composting to the Dallas Community
2	Develop a Comprehensive Green Procurement Plan
3	Improve Solid Waste, Recycling and Brush/Bulky Waste Collection Frequency
4	Improve Potential for Electric Waste Collection Vehicles
5	Update and Implement the Zero Waste Management Plan
6	Expand Efforts to Reduce Illegal Dumping by Implementing Recommendations identified in the Litter and Illegal Dumping Assessment Study
7	Encourage the Development of Material Markets Focusing on Creating New Economic Opportunities
8	Continue to Capture Gas and Expand Capacity from Landfill for Reuse and Evaluate for City Operations
9	Adopt an Ordinance to Implement a City-wide Organics Management Program

CECAP goals include:

**35%** and **80%** diversion of organic waste by 2030 and 2050

**60%** and **90%** of paper waste by 2030 and 2050

**35%** and **45%** reduction in waste landfilled in 2030 and 2040



# LSWMP Update Outline



## Overview Sections

1. Objectives, Goals, Stakeholder Engagement
2. Planning Studies, Regulatory, Trends Review
3. Planning Area Characteristics

## Program, Policies, Infrastructure Evaluation Sections

4. Facilities and Infrastructure
5. Transfer Station System
6. Refuse and Recycling Collection
7. Brush and Bulky Item Collection
8. Landfill Operation
9. Recycling Processing
10. Organics Management
11. Multi-Family and Commercial Sector
12. Household Hazardous Waste and Electronics
13. Public Education and Outreach

## Technical Appendices

- A. Stakeholder Engagement Summary
- B. Regional Facilities Map
- C. Refuse & Recycling Collection Operations Assessment
- D. Transfer Station System Operations Assessment
- E. Landfill Operations Assessment
- F. Implementation Plan





## Update Objectives

Identify long-term strategic considerations that will result in successful operations, programs and material management

## Update Goals

Establish recycling targets and timing based on updated objectives and current system evaluation

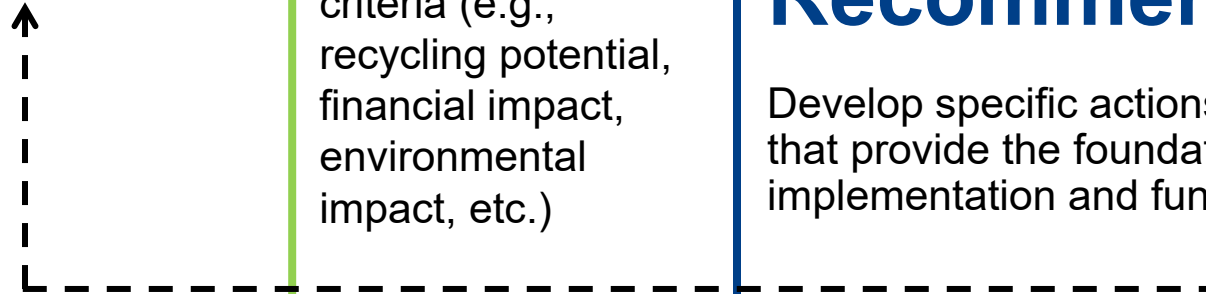


## Evaluate Options

Analyze options to achieve goals based on select criteria (e.g., recycling potential, financial impact, environmental impact, etc.)

## Develop Recommendations

Develop specific actions aligning with options that provide the foundation for the implementation and funding plan





# Draft Updated Objectives



## 2011 LSWMP

Strive for sustainability by considering the entire life-cycle of products, processes and systems.

Demonstrate that the goals of economic growth, environmental stewardship and fiscal responsibility are inextricably linked.

Reduce the volume of discarded materials and maximize diversion from disposal.

Spur economic growth by recovering valuable raw materials and clean energy from discarded material.



## LSWMP Update

Empower residents and businesses to reduce the amount of discarded material generated through proactive education and outreach.

Establish and implement innovative operational best practices to provide efficient, cost effective, and environmentally responsible service.

Provide excellent customer service and support residents and businesses to maximize diversion from landfill.

Operate a clean, green and efficient waste system that seeks to generate energy from organics.



# 2011 LSWMP Zero Waste Goals



- Zero Waste goals adopted in 2013 include
  - **40%** recycling by 2020 | **60%** recycling by 2040 | **80%** recycling by 2060
- Percentages established by projecting the impact of implementing recommended programs, policy and infrastructure
- At the time, trend among peer City was to set high, aspirational diversion targets
  - Fort Worth – **80%** landfill diversion by 2045
  - San Antonio – **60%** diversion by 2045
- Key assumptions informing the development of Zero Waste goals in 2011 LSWMP
  - Successful implementation of flow control ordinance and mixed waste processing
  - Brush separation from residential sector and implementation of organics processing facility
  - Transfer station system capable of managing multiple material streams goals



# Perspectives on Zero Waste Progress



## Successes

Adopted single-use plastic ban fee\*

Built Material Recovery Facility

Adopted Multi-Family Recycling Ordinance

*\*Effective January 1, 2015 (adopted March 26, 2014), repealed June 3, 2015*

## Challenges

Did not move forward to implement flow control ordinance or mixed waste processing

Unable to separately collect and store brush for composting

No organics processing facility developed

Challenges encountered since 2011 require the City to **re-examine goals** as part of LSWMP Update

Goals will be established based on the recommendations being considered



# Infrastructure Options



Infrastructure improvements are **critical** to increasing recycling rate among all the sectors

Infrastructure	Current Condition/Challenges	Implementation Recommendations
Transfer Station System	Aging and unable to manage brush separately for recycling.	Update to separately manage organics.
Landfill	Landfill must meet long-term disposal needs of City and region.	Conserve valuable airspace by continuing efforts to prolong site life.
Composting	Current operations do not allow material to be composted.	Develop a composting facility through public-private partnership.
Fueling	Limited fueling infrastructure for Compressed Natural Gas (CNG) or electric collection vehicles.	Explore purchase of additional CNG vehicles and piloting electric solid waste collection vehicles.



# Single-Family Sector Options



- Maximize single-stream recycling from residential customers
  - **Current status:** City currently captures about **50%** of recyclable material in the blue roll-cart
  - **Opportunity:** Increasing this to **60-80%** means 15,000 - 30,000 more tons that could be recycled annually
  - **Implementation recommendations:** Education, outreach and compliance measures
- Separate brush and bulky item collection
  - **Current status:** Collect brush and bulky item piles together
  - **Opportunity:** Brush currently disposed represents **45-55%** of brush and bulky items, or an additional 60,000 - 75,000 tons that could be recycled annually
  - **Implementation recommendations:** Update transfer stations, new composting facility, restructure brush and bulky item collection program
  - **Future considerations:** Separate collection of food waste and yard trimmings in roll-cart for composting



# Multi-Family Sector Options



- Continue implementing and improving the Multi-Family Recycling Ordinance (MFRO)
  - **Current status:** Based on the initial round of reporting 10,000 tons were recycled by permitted multi-tenant recycling haulers in CY 2020
  - **Opportunity:** With the MFRO in place, the City is well positioned to increase recycling from multi-family generators
  - **Implementation recommendations:** Continue to strengthen the reporting and data verification mechanisms and education, outreach and compliance efforts
  - **Next steps:** Establish a verifiable mechanism to receive refuse tonnage data collected from multi-family complexes
  - **Future considerations:** If existing ordinance does not meet objectives consider additional policies and/or ordinances





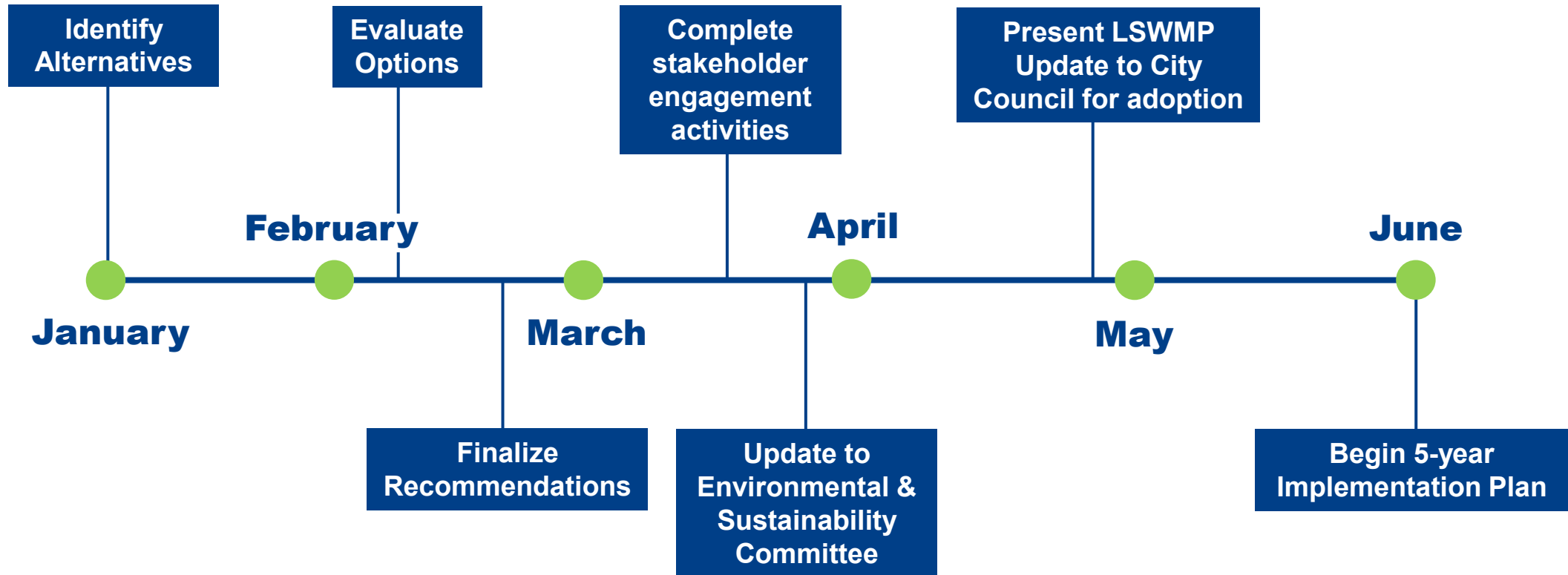
# Commercial Sector Options



- Adjust reporting requirements and increase reporting rate from non-exclusive franchise haulers
  - **Current status:** Limited understanding of ongoing commercial recycling
  - **Opportunity:** Require comprehensive refuse and recycling tonnage information
  - **Implementation recommendations:** Increase compliance and data verification efforts
  - **Next steps:** Require or incentivize haulers to offer recycling and organics services
  - **Future considerations:** Implement commercial recycling requirements and changes to non-exclusive franchise system that support recycling requirements
- Expand Green Business Certification program
  - **Current status:** 16 businesses have been certified as green businesses
  - **Opportunity:** Work directly with commercial generators to increase recycling on a voluntary basis
  - **Implementation recommendations:** Expand number of certified green businesses
  - **Next steps:** Leverage cross-departmental synergies (e.g., Code Compliance inspections)
  - **Future considerations:** Expand program to include technical assistance services to commercial generators



# Next Steps







# City of Dallas

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Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 22-652

**Item #:** C.

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North Central Texas Council of Governments (NCTCOG) Air Quality Program  
[Jenny Narvaez, Program Manager, North Central Texas Council of Governments]

# Air Quality in North Texas

Environment & Sustainability Committee Meeting • March 7, 2022

Jenny Narvaez, Program Manager



North Central Texas  
Council of Governments



Regional Transportation Council

# Regional Greenhouse Gas Emissions Project

## **Regional GHG Inventory**

- Contracting with Local Governments for Sustainability (ICLEI), formally known as the International Council for Local Environmental Initiatives, thanks to generous contribution from Burlington-Northern Santa Fe (BNSF) railroad

## **NCTCOG GHG Inventory Cohort**

### **• Participants:**

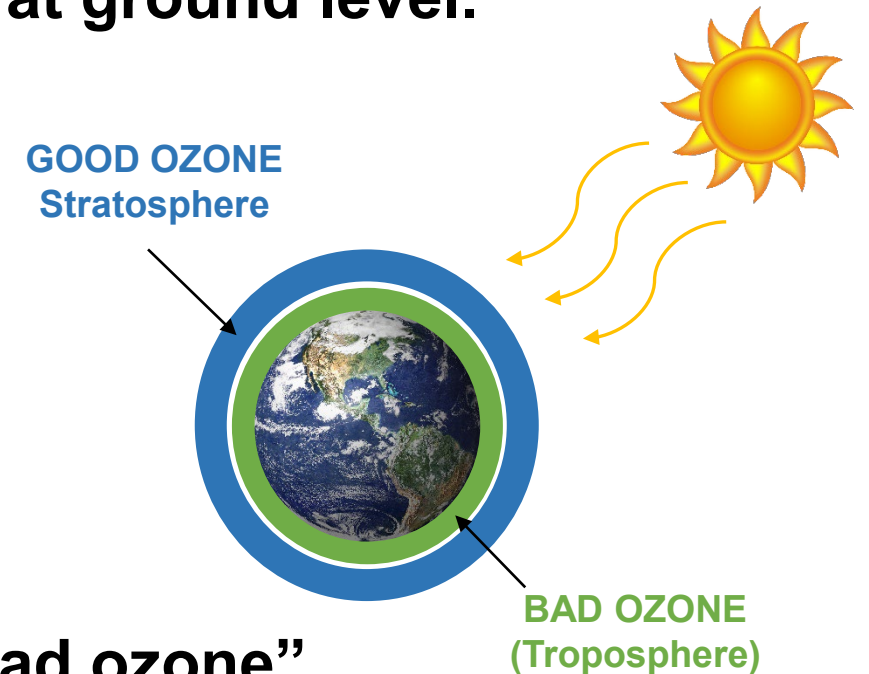
- Carrollton
- Cedar Hill
- Dallas
- Denton
- Farmers Branch
- Fort Worth
- Frisco
- Grand Prairie
- Grapevine
- Lewisville
- Mesquite
- Plano

# Ozone

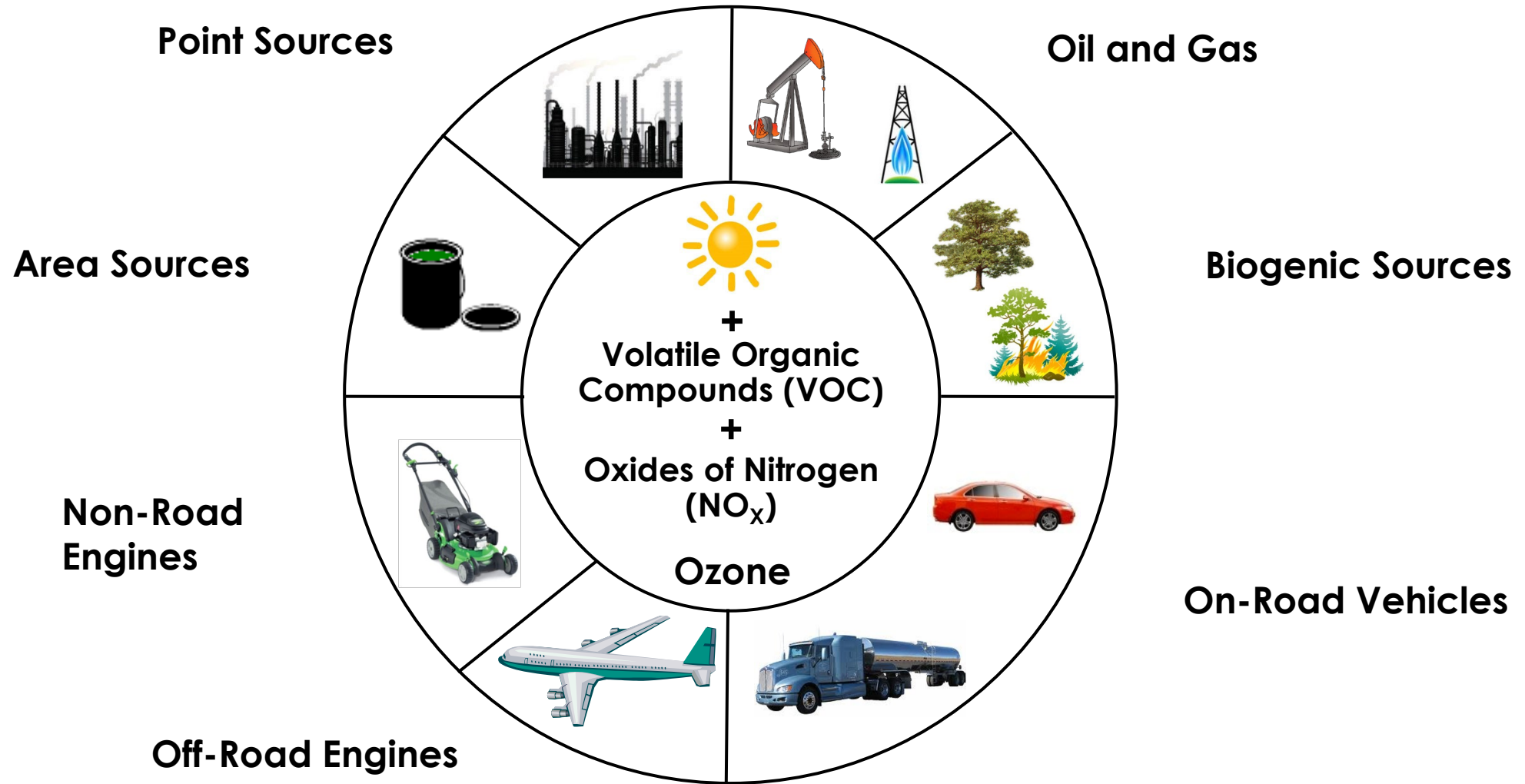
**Ozone, a gas composed of three atoms of oxygen ( $O_3$ ), occurs both in the Earth's upper atmosphere and at ground level.**

**Stratospheric Ozone: forms high in the atmosphere when intense sunlight causes oxygen molecules ( $O_2$ ) to break up and re-form as ozone molecules. Popularly called “good ozone”, it shields us from the harmful effects of the sun's ultraviolet light.**

**Ground-Level Ozone: commonly referred to as “bad ozone” forms when emission sources including, but not limited to, transportation, industrial and commercial operations, and vegetation emit oxides of nitrogen ( $NO_x$ ) and/or volatile organic compounds (VOC) that react in the presence of sunlight.**



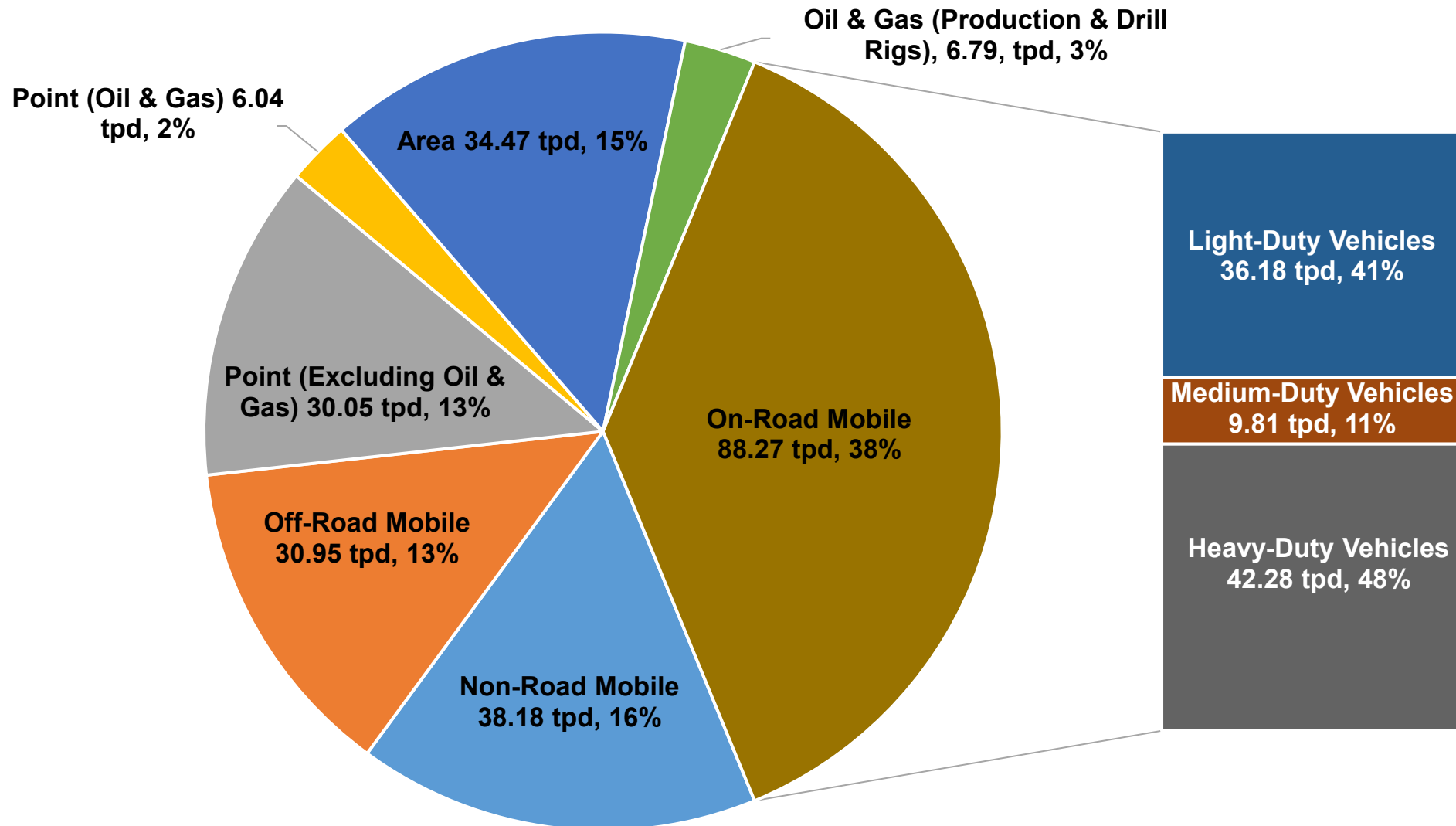
# Ozone Formation



Optimum conditions for the formation of ozone include high temperatures and low winds. Sections are not to scale and are for illustrative purposes only.

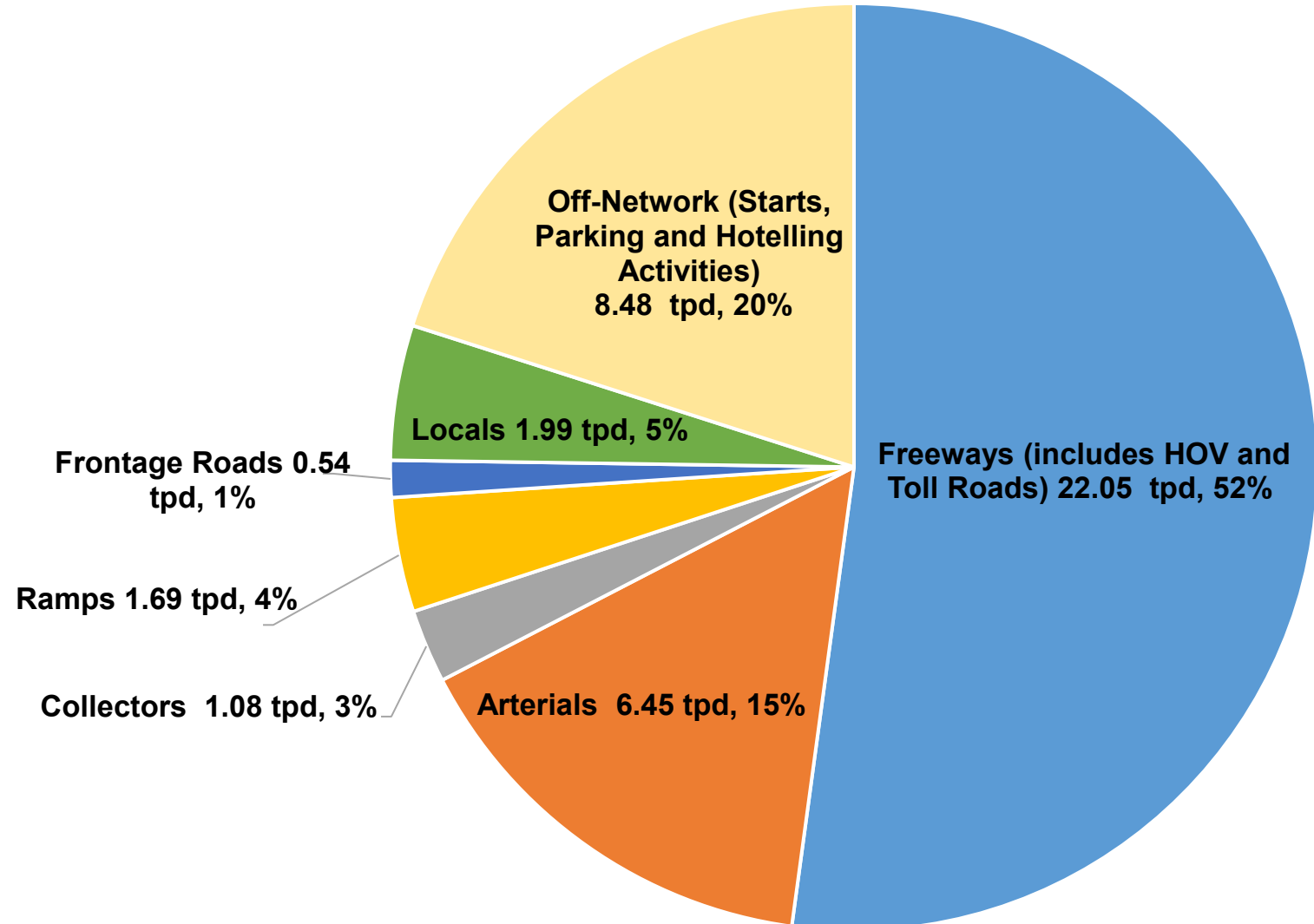
# 2020 NO<sub>x</sub> Emission Apportionment

2020 Total Nitrogen Oxides (NO<sub>x</sub>) = 234.75 tons per day (tpd)



# 2020 Heavy-Duty Vehicles NO<sub>x</sub>

## By Functional Class



# Health Effects of Ground-Level Ozone

**Ozone can:**

**Make it more difficult to breathe deeply and vigorously.**

**Increase the frequency of asthma attacks.**

**Cause shortness of breath and pain.**

**Cause coughing and sore or scratchy throat.**

**Inflame and damage the airways.**

**Aggravate lung diseases such as asthma, emphysema, and chronic bronchitis.**

**Cause chronic obstructive pulmonary disease (COPD).**

**Make the lungs more susceptible to infection.**

**Continue to damage the lungs even when the symptoms have disappeared.**

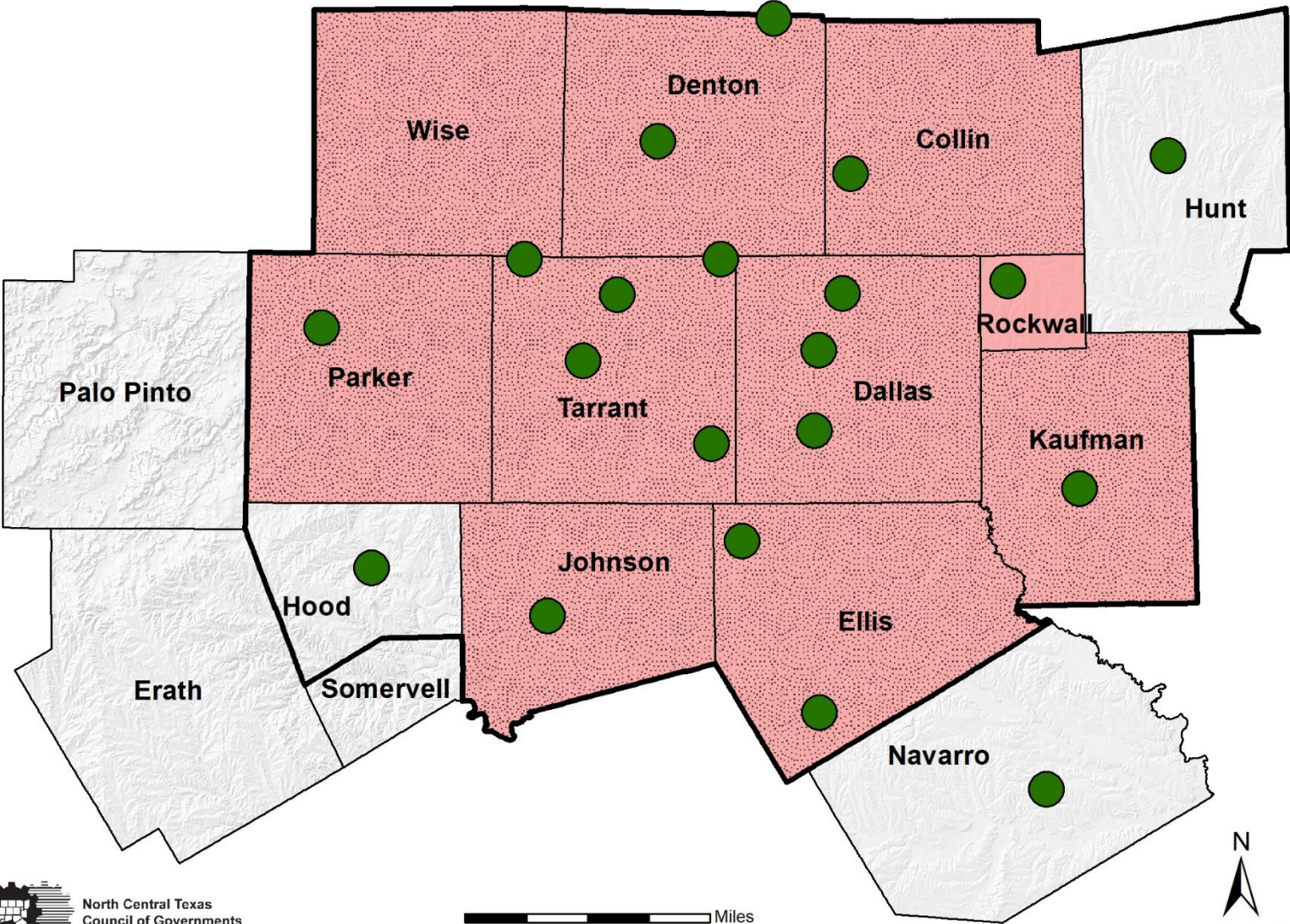


# Monitor Locations

## 2008 and 2015 Ozone NAAQS

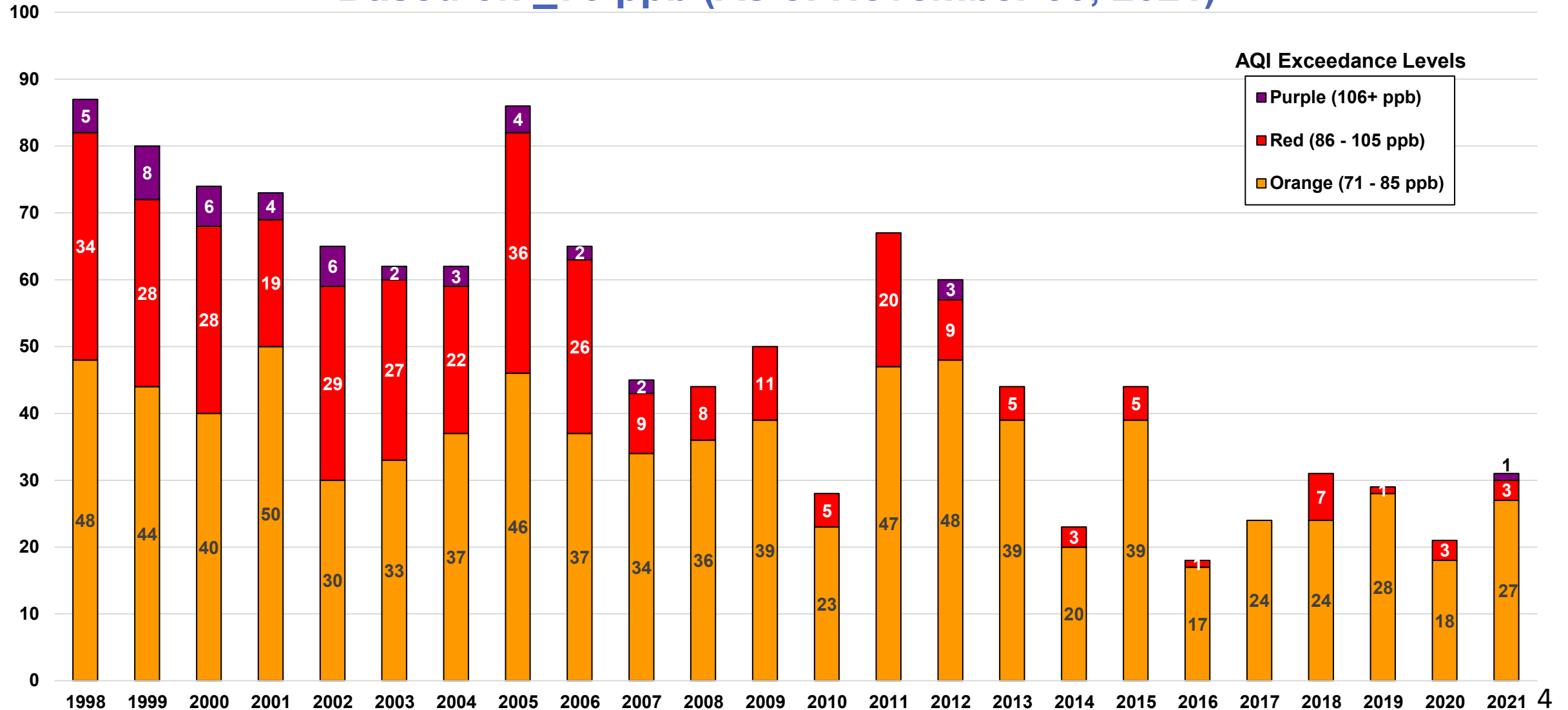
**Legend**

- Counties Designated Nonattainment Under 2015 8-Hour Ozone NAAQS
- Counties Designated Nonattainment Under 2008 8-Hour Ozone NAAQS
- Ozone Monitoring Sites
- Metropolitan Planning Area



# 8-Hour Ozone NAAQS Exceedance Trends

Based on  $\leq 70$  ppb (As of November 30, 2021)



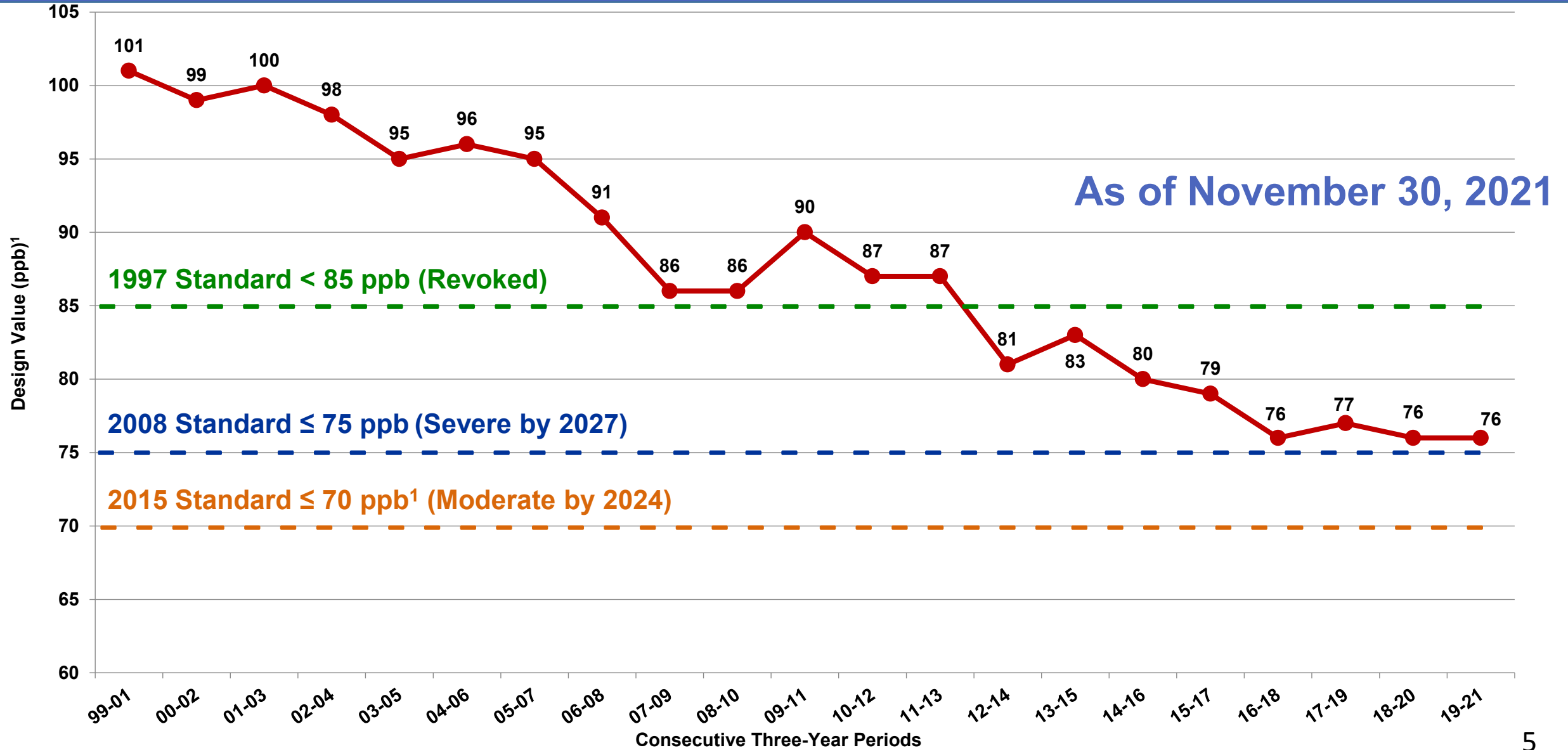
## AQI Exceedance Levels

- Purple (106+ ppb)
- Red (86 - 105 ppb)
- Orange (71 - 85 ppb)

Exceedance Level indicates daily maximum eight-hour average ozone concentration.  
Exceedance Levels are based on Air Quality Index (AQI) thresholds established by the EPA for the revised ozone standard of 70 ppb.

Source: TCEQ, [http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr\\_monthly.pl](http://www.tceq.state.tx.us/cgi-bin/compliance/monops/8hr_monthly.pl)  
ppb = parts per billion

# Ozone Design Value Trends



<sup>1</sup>Attainment Goal - According to the US EPA National Ambient Air Quality Standards, attainment is reached when, at each monitor, the *Design Value* (three-year average of the annual fourth-highest daily maximum eight-hour average ozone concentration) is equal to or less than 70 parts per billion (ppb).

# Reclassification Due to Failure to Attain – Stricter Standards

## Going from Serious Classification to Severe:

**Major source threshold decreased to 25 TPY (from 50 TPY)**

**Impacts businesses that require CAA permitting for new/continued operations**

**Penalty fee program for major sources**

**Per ton penalty fee increase on major sources if the area does not meet required reductions**

**NSR Emission Offset ratio increased to 1.3:1 (from 1.2:1)**

**Low VOC reformulated gas**

**No implications, because our region has already opted in previously**

**VMT growth offset required**

**Analysis to see if more transportation control strategies are needed**

**A continued and thorough assessment of regional implications is ongoing.**

# State Implementation Plan (SIP)

**Federally required by the Clean Air Act for nonattainment areas**

## **Purpose**

**Development and implementation of emission control strategy plans at the federal, state, and local level to improve air quality by reducing emissions of ozone and ozone precursors to rapidly reach attainment.**

**2008 NAAQS Attainment Date ( $\leq 75$  ppb): No later than **July 20, 2027****

***Severe Classification***

**2015 NAAQS Attainment Date ( $\leq 70$  ppb): No later than **August 3, 2024****

***Moderate Classification***

## **SIP Control Strategies and Information**

**<https://www.nctcog.org/trans/quality/air/federal-air-quality/sip-control-strategies>**

**<https://www.tceq.texas.gov/airquality/sip/dfw>**

# Air Quality Education

## What Can You Do?

**Work from home**

**Carpool**

**Bring lunch to work or carpool to lunch**

**Use mass transit**

**Bicycle or walk**

**Reduce idling, including during start up**

**Avoid unnecessary trips**

**Maintain consistent driving speed**

**Conserve water to conserve electricity**

**Postpone mowing to a day that is not an Ozone Action Day**

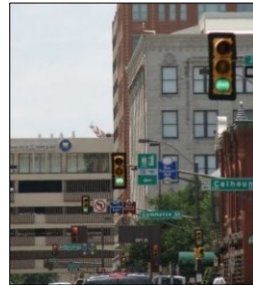
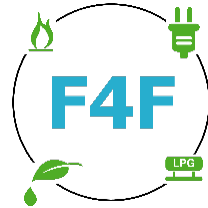
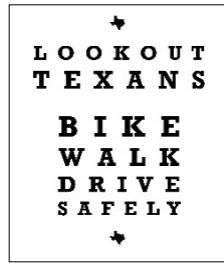
**Limit use of recreational vehicles**



# Sample of Air Quality Initiatives



Rideshare. Record. Reward.



Saving Money and Reducing Truck Emissions



# Air Quality Programs

## Air North Texas

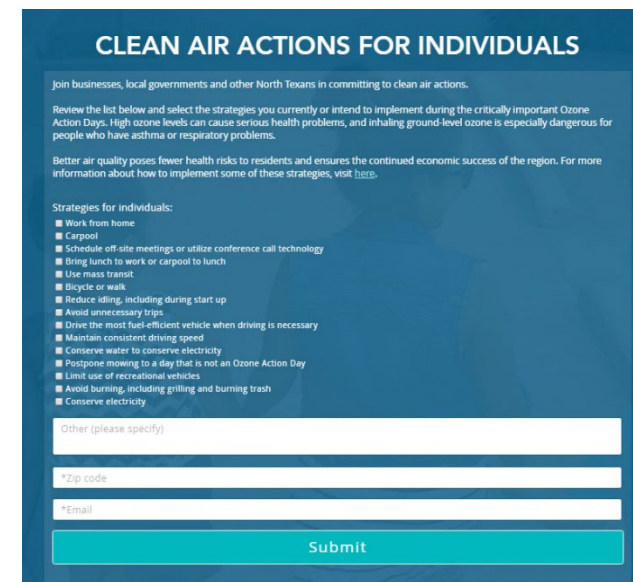
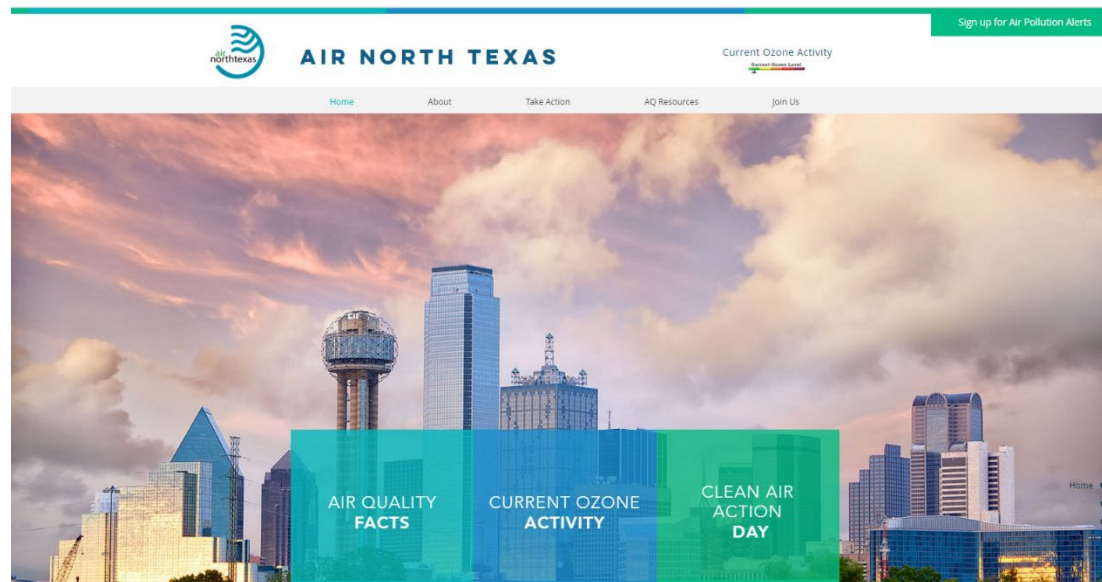
Website: [www.airnorthtexas.org](http://www.airnorthtexas.org)

Sign up for air pollution alerts

Find air quality and ozone information

Commit to clean air actions for individuals, businesses, governments

Become a partner





# NCTCOG Try Parking It Program

**A free alternative commute resource for the North Central Texas region.**

**Rewards commuters for carpooling, vanpooling, taking transit, walking, biking, teleworking, working a compressed week, and even brown bagging your lunch.**

**If you currently drive alone, Try Parking It can assist in locating carpool or vanpool matches.**

**Try Parking it users earn points for tracked commuter activity which can then be redeemed for instant rewards.**



Rideshare. Record. Reward.

To establish a Try Parking It account, visit [Try ParkingIt.com](https://www.TryParkingIt.com) or download the free app from the app store or from Google Play.

# For More Information

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<https://www.nctcog.org/trans/quality/air/ozone>



# City of Dallas

1500 Marilla Street  
Council Chambers, 6th Floor  
Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 22-653

**Item #:** D.

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Regulatory Air Quality Program  
[Paul White II, Superintendent - Air, Soil, & Groundwater Division, Environmental Quality & Sustainability]

# City of Dallas Regulated Air Quality Programs

**3/7/2022**



**City of Dallas**

Paul White II, REM,CFM  
Superintendent  
Air, Soil, & Groundwater Division  
Environmental Quality & Sustainability  
City of Dallas

# Overview



- Introduction
- Air Compliance Program
- Air Monitoring Program
- Questions - Discussion





# Regulated Air Programs



## Key Points

- EQS Regulatory Air Programs are majority funded by Texas Commission and Environmental Quality (TCEQ) Grants
- Regulatory Air Programs (Grantees) act as independent contractors for the TCEQ
- Required to follow the scope of work provided by TCEQ, including; procedures, methods, and performance guidelines
- TCEQ conducts audits on all Regulatory Air Programs



**Dallas Hinton  
Air Monitoring Site**



# Air Compliance Program (ACP)



- The Air Compliance Program (ACP) is comprised of 6 compliance investigators and a manager who enforce state air quality rules in the City of Dallas and act as local contractors on behalf of TCEQ
- ACP operates under a four-year grant agreement with the TCEQ
  - Effective Dates: 9/1/2018 thru 8/31/2022
  - 67% of Total Program Costs are funded by TCEQ
  - 33% Match Requirement (City)
  - FY22 Program Budget \$670,527.00
- Unit 4298, 8 FTE's: 1 Manager II, 1 Env. Coordinator II, 5 Env. Specialists, 1 Admin





# Air Compliance Program (ACP)



- **Regulatory Activities under this program**

- Enforce state air quality rules
- Inspect local industrial/commercial facilities and sources of gasoline vapors (427 in FY21)
  - FY21: **427** Permitted Facility Inspections
- Respond to 311 complaints
  - FY21: **174** Complaint Responses
  - Each officer attends routine TCEQ training to help effectively investigate complaints

- **TCEQ Air Program Audits**

- Monthly TCEQ inspection report audits
- Annual TCEQ ride-alongs with inspectors

- **Revenue Generating Activities**

- Air Pollution Emission Fee adopted budget \$87,500
- SAP Billing System Management



Texas Instruments – Dallas Campus



# Ambient Air Monitoring Program (AAMP)



- Ambient Air Monitoring Program (AAMP) created to monitor the air we breathe for harmful pollutants, verify Clean Air Act compliance, and provide regional air quality data
- City acts as an extension of TCEQ for monitoring the ambient air quality
- 89% of AAMP costs are funded by State and Federal Grants
- Unit 4241, 9 FTE's: 1 Manager II, 1 Env. Coordinator, 6 Env. Specialists, 1 Admin
- FY22 Budget - \$881,763.00



Dallas Bexar Site (Bonton)  
Meteorological "MET" Tower





# Ambient Air Monitoring Program (AAMP)



- EQS performs air monitoring for the US Department of Homeland Security [BioWatch Program](#)
- Program costs are 100% funded by the US Department of Homeland Security and passed through TCEQ to AAMP
  - Maximum authorized grant reimbursement \$581,027.00
- The DHS BioWatch Program was established in 2003 to provide early warning of bioterrorist attacks in more than 30 major metropolitan areas.
- We have more than 20 air monitoring sites dedicated to this program. Every site is visited 7 days a week, 365 days a year. Holidays included



# Ambient Air Monitoring Program (AAMP)



- Pollutant Criteria Monitoring is conducted to verify compliance with the Federal Clean Air Act for several criteria air pollutants, including: ground level ozone, nitrous oxide, particulate matter, carbon monoxide, and sulfur dioxide.
- Data is transmitted to the TCEQ and used evaluate pollutant trends, forecast daily air quality conditions, perform air quality and human health impact studies, and inform regulatory decisions.
- AAMP receives funding from (2) TCEQ grant contracts:
  - **105 Ambient Air Contract**
    - Effective Dates: 9/1/2021 thru 8/31/2023
    - 67% of Program Costs are funded by TCEQ
  - **Rockwall/PM2.5 Air Contract**
    - Effective Dates: 9/1/2022 thru 8/31/2022
    - ***TCEQ funds 100 % of Program Costs***



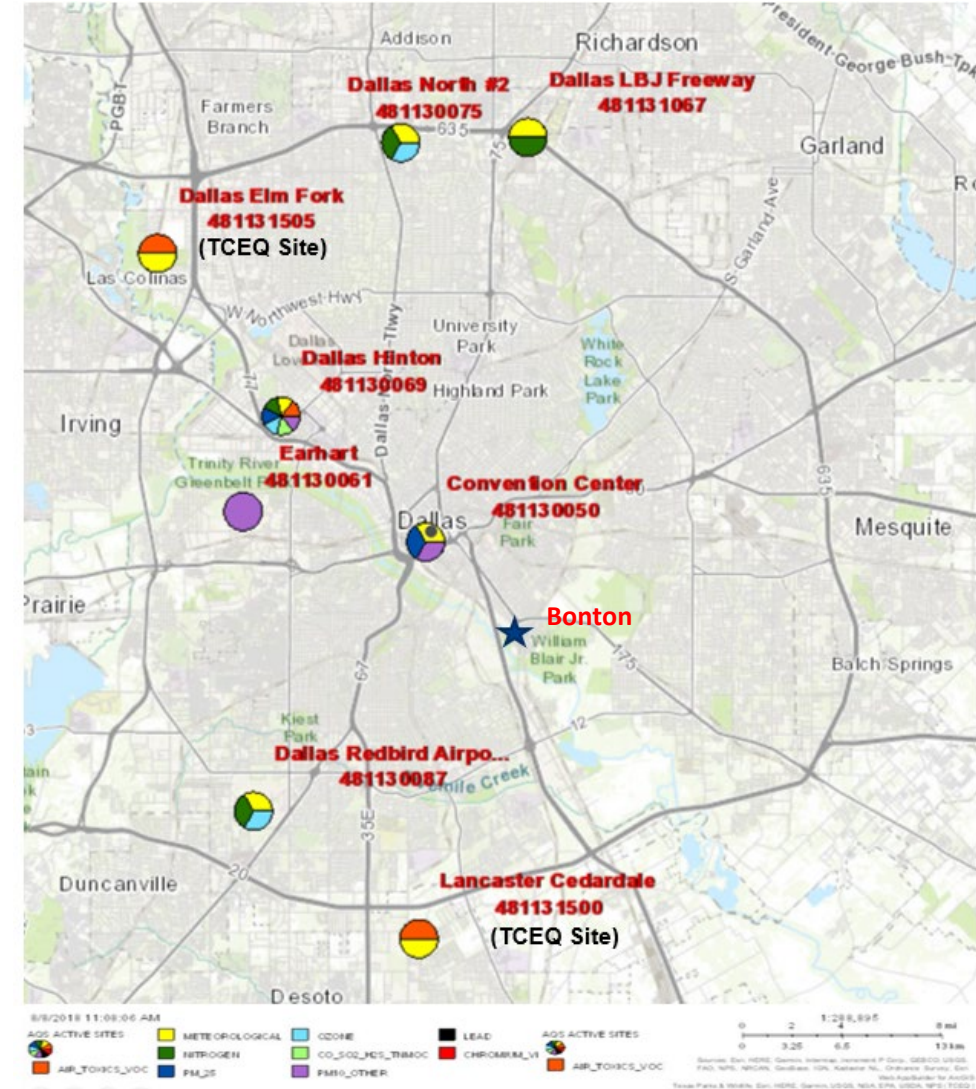


# Ambient Air Monitoring Program (AAMP)



## Air Monitor Site Map

- Seven air monitors sites are strategically located throughout the City (1 monitor is located in City of Rockwall and added additional samplers South of Downtown in the Bonton Community)
- **AAMP Operations**
  - Set-up sampling sites per TCEQ instructions
  - Verify that sampling stations operate properly
  - Deliver physical samples to local laboratory
  - Regular coordination and communication with the Regional and State Offices
  - Training is coordinated through TCEQ
- **AAMP Audit Schedule (Internal & External)**
  - Internal monthly and quarterly audits on monitoring equipment
  - TCEQ audits all sampling equipment annually



# Summary



- 4 TCEQ Air Contracts
  - 3 Contracts will be on the Council Agenda in August 2022
- Staff is highly trained and experienced
- Attend TCEQ and EPA training programs
- Operate complex National and State Air Monitoring Networks
- Approximately \$1.3 million federal and state grant funds are awarded to Regulated Air Programs annually







# QUESTIONS?

Paul White II, REM,CFM

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Office: 214.671.8979





# City of Dallas

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Dallas, Texas 75201

## Agenda Information Sheet

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**File #:** 22-654

**Item #:** E.

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Non-Regulatory Air Quality Programs

[Kevin Overton, Senior Environmental Coordinator, Environmental Quality & Sustainability]



# Air Quality Programs & Projects

- **Kevin Overton, REM**
- **Brittany Hailey, MS**



# Core Air Quality Responsibilities



- Provide leadership for OEQS and other City Departments on Air Quality Issues
  - Lead City efforts to achieve NAAQS compliance
  - Support the CECAP
  - Internal consultant on compliance and air permitting issues
- Track air quality issues and trends with Dallas impacts (leaf blowers batch plants)
- Provide technical expertise on OEQS Air Quality projects
- Represent OEQS on the NCTCOG Surface Transportation & Technical Committee
- Community Air Monitoring Projects





# Update to the GHG Inventory & Benchmarking



- We are currently leading the effort to update to the 2015 GHG Inventory with 2019 data (to be completed later this year)
- In addition, we are working on a regional GHG inventory project with NCTCOG, Denton, Plano, Fort Worth, Lewisville, other North Texas Cities
- Annual Benchmarking Reports to Carbon Disclosure Project (CDP) and American Council for Energy Efficient Economy (ACEEE)
- Benchmarking provides valuable objective comparison to our progress on climate and sustainability to other Texas and U.S. cities. CDP also provides comparison to international cities.



# Neighborhood Air Monitoring



- The neighborhood air monitoring program is ***not*** a regulatory or enforcement effort
- The sensors used in the program do not provide the accuracy or precision required by EPA regulatory methods
- The sensors in this program provide reasonably accurate data for a much lower cost than regulatory methods
- The goal of the neighborhood air monitoring programs is to provide information on air quality that can be used to best utilize our resources to protect Dallas communities

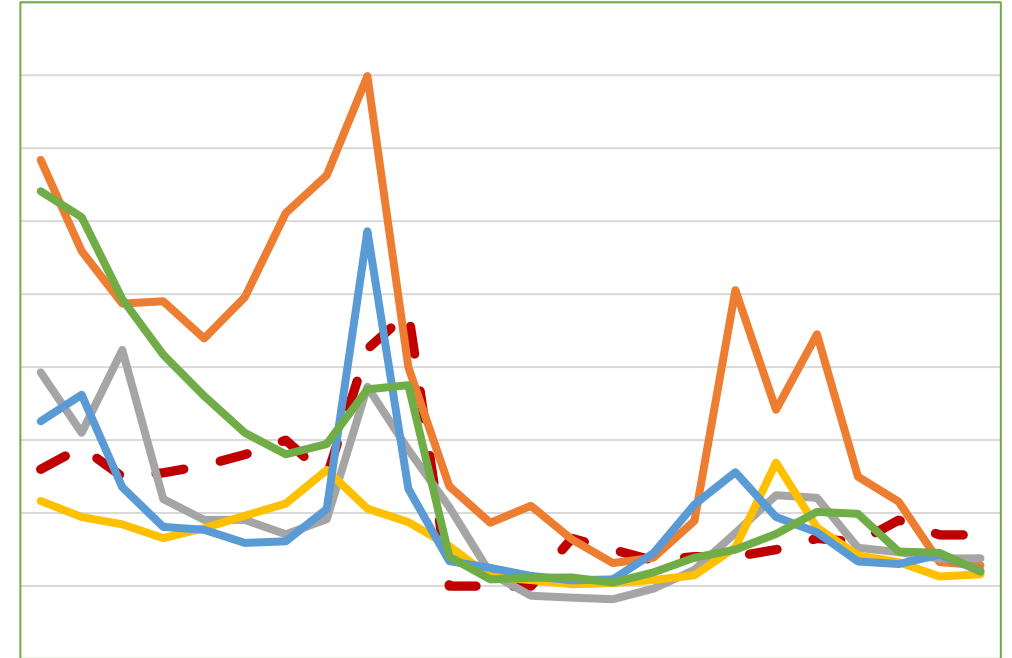




# Breathe Easy Dallas

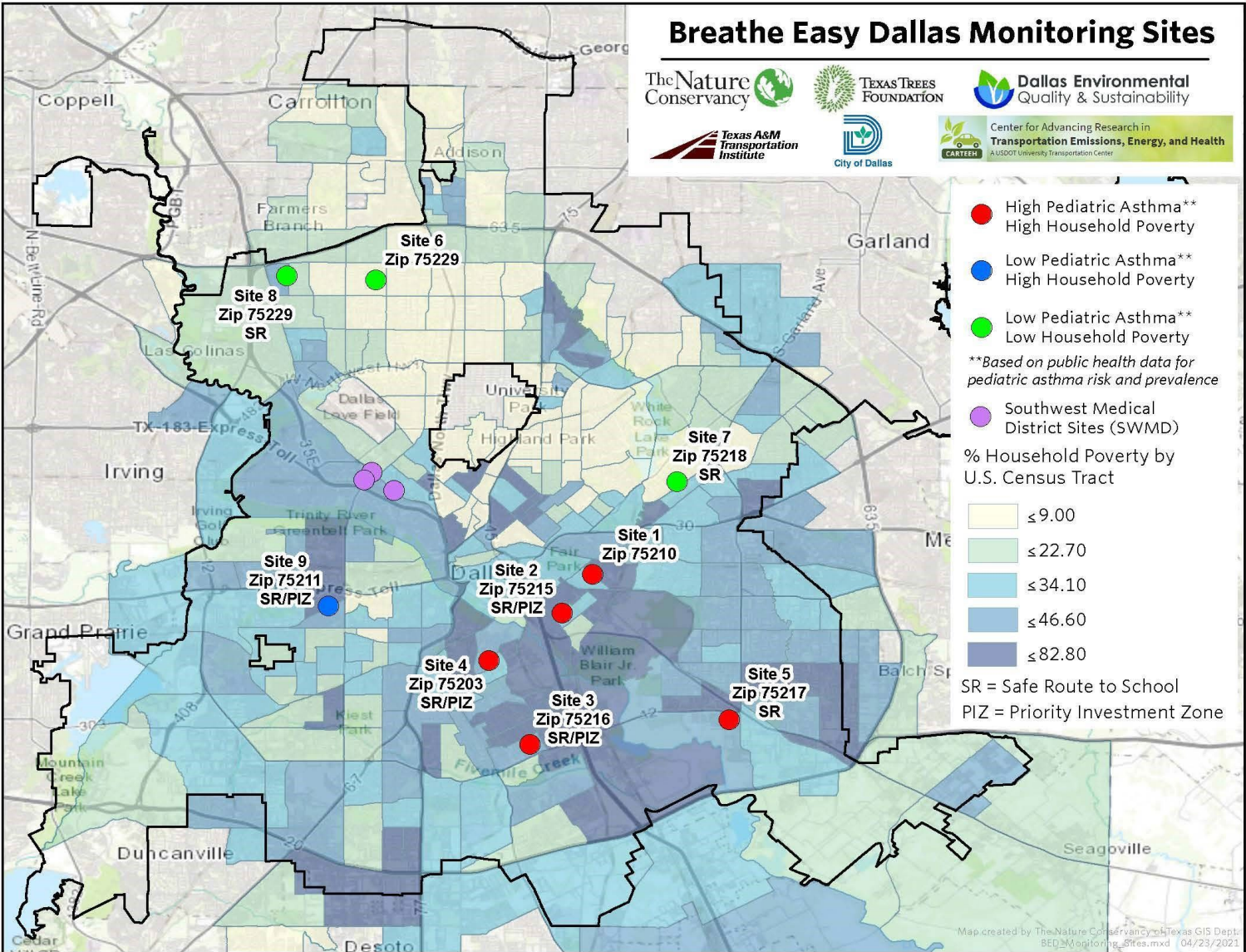


- To better understand **performance of low-cost sensors** and how to utilize this data for public health objectives, including improved outcomes for high-risk populations.
- To **gather high quality local data** characterizing air quality across multiple pollutants, and multiple locations.
- To **contribute to local and regional datasets** that support spatial analysis of air quality and public health measures, including relationships and variability.
- To better understand the role that **local air quality may play in risk for pediatric asthma.**





# Breathe Easy Air Monitors



The Nature Conservancy | TEXAS TREES FOUNDATION | Dallas Environmental Quality & Sustainability | Texas A&M Transportation Institute | City of Dallas | Center for Advancing Research in Transportation Emissions, Energy, and Health (CARTHEH) | A USDOT University Transportation Center

**Photovoltaic Panel**  
(47" x 21.3" x 1.4")  
16.5 lbs

**Battery Box (with battery)**  
(20.6" x 17.5" x 12.0")  
60 lbs

**Monitor Cage**  
(19" x 10" x 7") 5 lbs

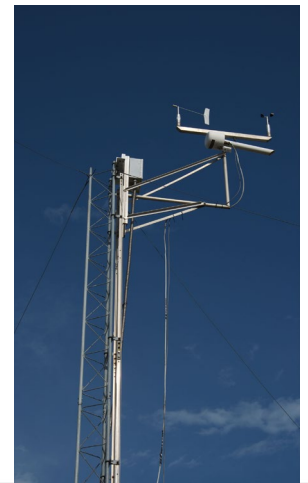
**AQY1 monitor**  
(7" x 8.5" x 5")  
3 lbs



# Breathe Easy Phase 2



- Three monitors in the Southwest Medical District to establish an air quality baseline and continue monitoring during construction and after construction
- West Dallas - Funded with an EPA State Environmental Justice Community Grant
  - Five low-cost air monitors in West Dallas zip codes 75211 and 75212
  - Partners include: TAMU, Children's, Parkland, Positive Breathing and West Dallas 1
- City-Wide - ARPA funded State Environmental Justice project for \$1mm
  - Plans Include 24 low-cost monitors (similar to Breathe Easy Dallas), six modular monitors that can sample additional pollutants (including SO<sub>2</sub>, VOC, & CO), and six meteorological stations
  - Partners include: Dallas Office of Data Analytics and Dallas Department of Transportation
- **Next Steps:**
  - Council Approval for both projects
  - Purchase and "calibrate monitors"
  - Select locations
  - Install monitors and create a public dash-board





# North Texas Climate Symposium



- The symposium brings together regional & national climate experts and local climate advocates
- 2022 will mark the fifth annual event
- Past events featured Dr. Katharyn Hayhoe, General Russell Honoré, Dr. John Nielsen-Gammon, and Robert Kaplan
- Plans for the 2022 are being finalized





# Questions and Comments

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**Brittany Wells**

**[brittany.hailey@dallascityhall.com](mailto:brittany.hailey@dallascityhall.com)**



**Dallas Environmental  
Quality & Sustainability**





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## Agenda Information Sheet

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**File #:** 22-655

**Item #:** F.

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Environmental Commission Update  
[Kathryn Bazan, Chair, Environmental Commission]