



# Air Quality Programs & Projects

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**Dallas Environmental**  
Quality & Sustainability



# 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.



*Global Protocol for  
Community-Scale Greenhouse  
Gas Emission Inventories*

*An Accounting and Reporting Standard for Cities*





# Neighborhood Air Monitoring



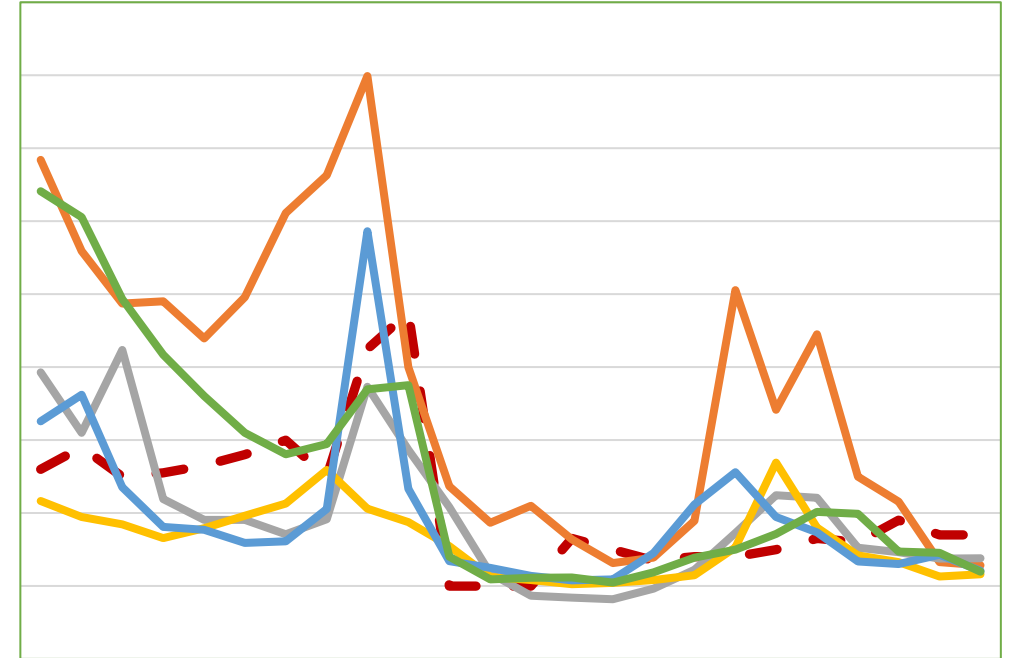
- The neighborhood air monitoring program is ***not*** a regulatory or enforcement effort
- The sensors used in the program do not provide the accuracy or precision required by EPA regulatory methods
- The sensors in this program provide reasonably accurate data for a much lower cost than regulatory 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

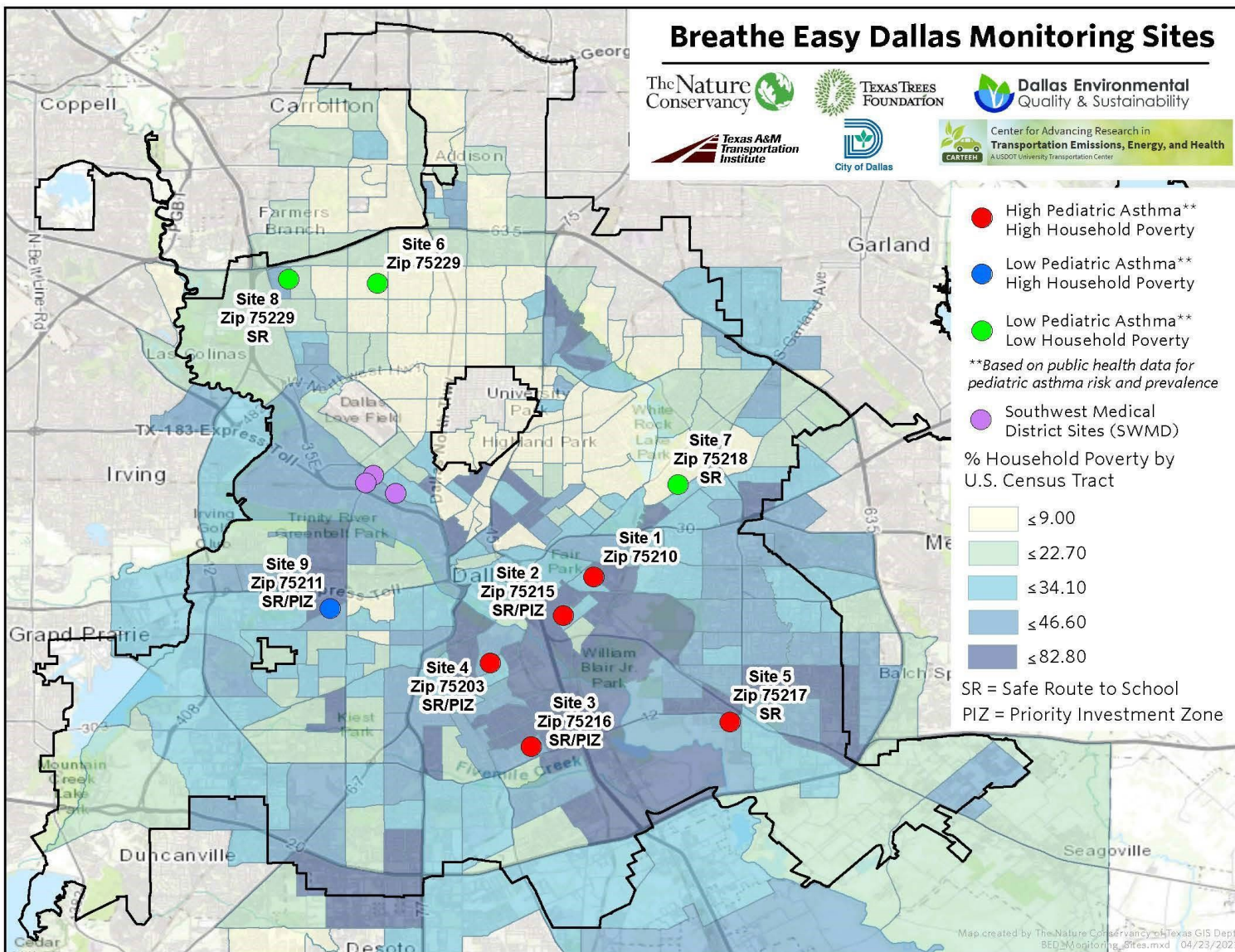


- To better understand **performance of low-cost sensors** and how to utilize this data for public health objectives, including improved outcomes for high-risk populations.
- To **gather high quality local data** characterizing air quality across multiple pollutants, and multiple locations.
- To **contribute 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



**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

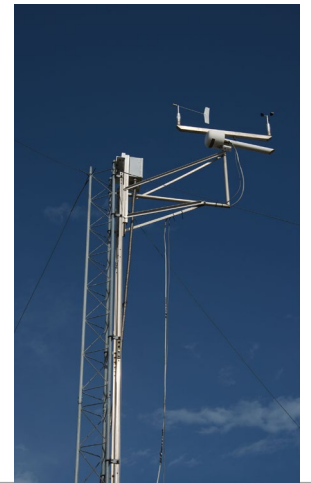
**AQY1 monitor**  
(7" x 8.5" x 5")  
3 lbs



# 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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