



# ENVIRONMENTAL JUSTICE

COMMUNITY EARTH DAY FORUM

THURSDAY - APRIL 20, 2023 | AT 6:30PM

LOCATION: CALLAHAN CENTER

101 NORTH PARRAMORE AVENUE | ORLANDO, FL 32801

PLEASE CONTACT LAWANNA GELZER AT (407) 953-5599



## Environmental Justice Community Earth Day Forum

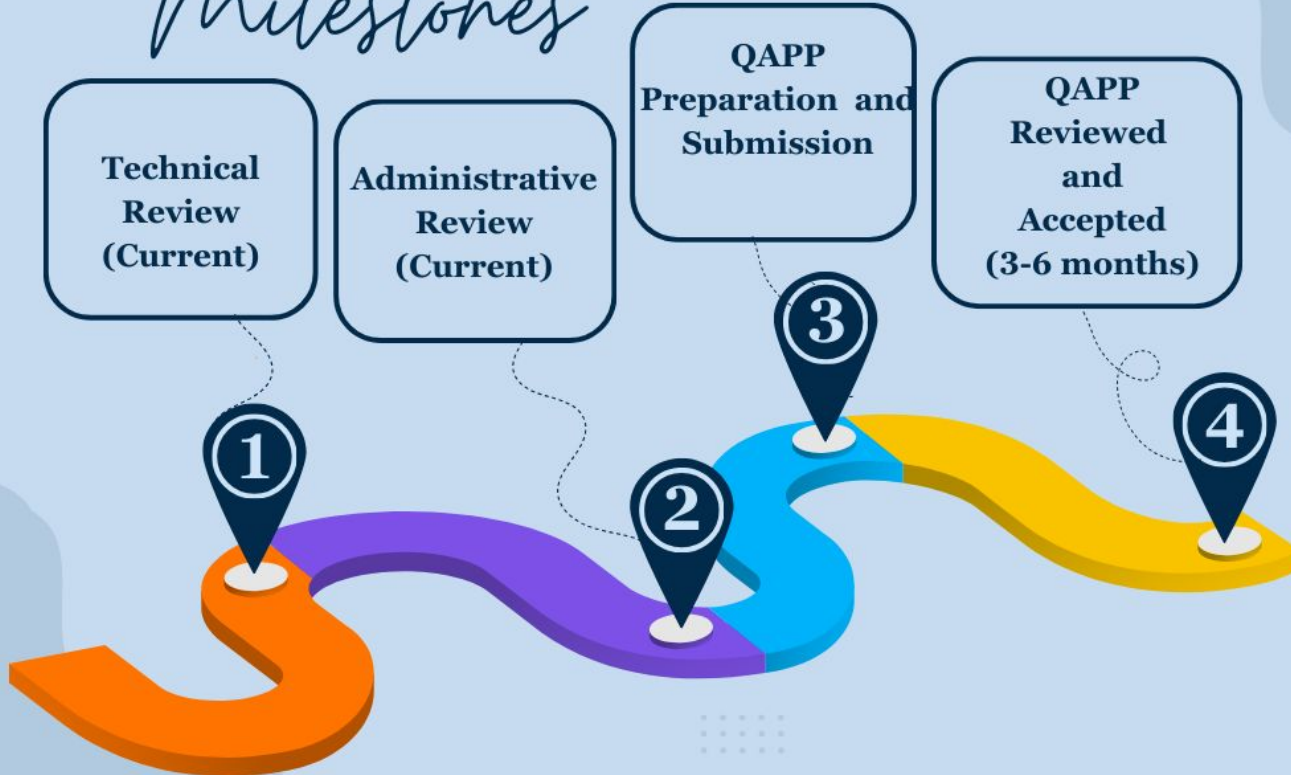
***Thursday, April 20, 2023 @ 6:30PM***

A Seat at the Table: "Equity, Diversity and  
Inclusion"

Location: Callahan Center  
101 North Parramore Avenue - Orlando, FL 32801

# PRE-PROJECT

## *Milestones*



# PROJECT

## *Milestones*

### **Trainings**

- > Air Quality
- > AQ and Health
- > Monitors
- > Data

### **Community AQ Advisory Council**

- > Expert Consultation
- > Representation
- > Council Formation

### **Reporting**

- > From Community Science to Council
- > Reports to Local Government

### **Improvements**

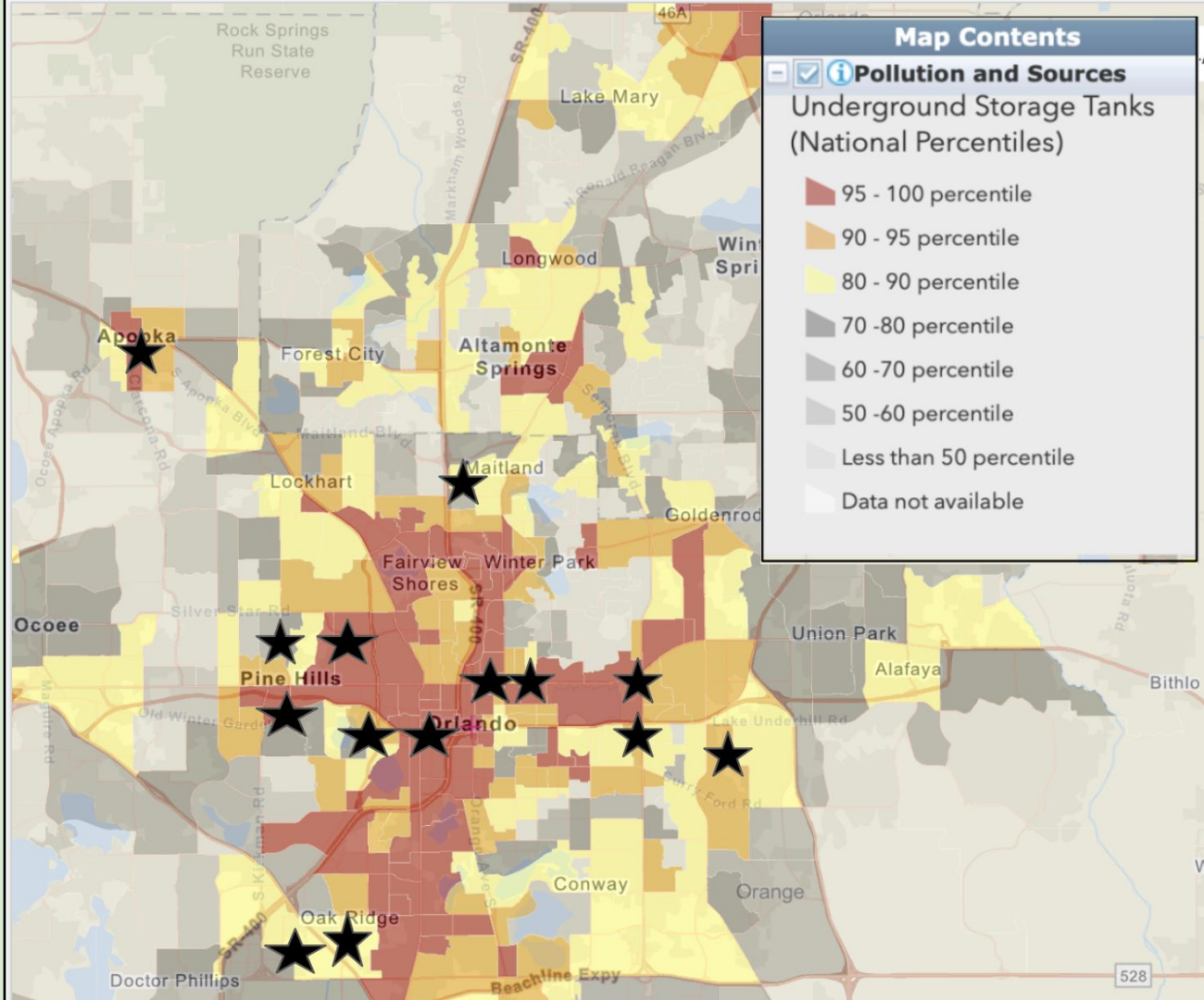
- > Review of Data
- > Recommended Improvements
- > Implement Improvements



14 Zip Codes

Underground Storage Tanks

80th percentile  
in the  
nation  
and  
above

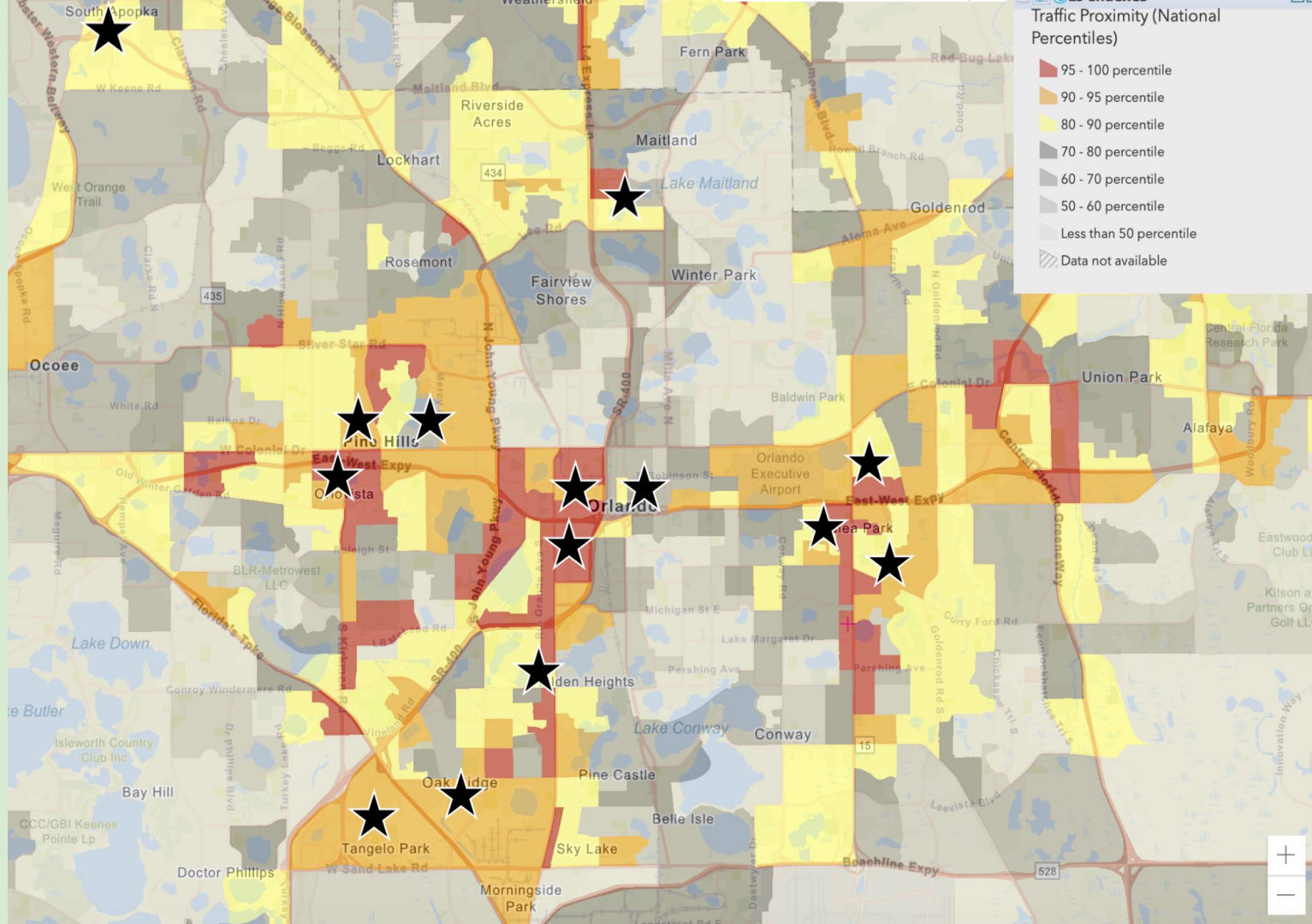




14 Zip Codes

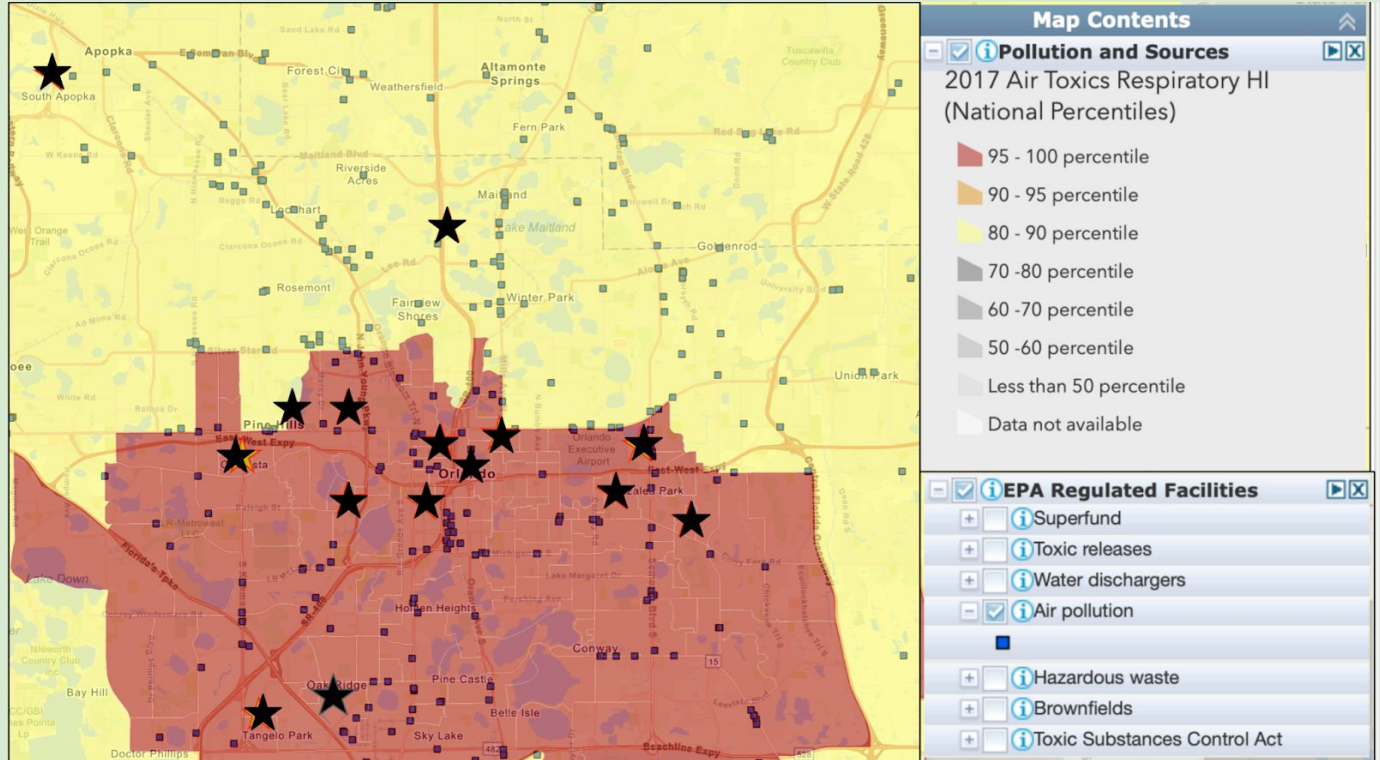
Traffic Proximity

80th percentile in the nation and above



**Map 3: 2017 Air Toxics Respiratory Hazard Index & EPA Regulated Air Pollution Sources.**

**All but 2 of the participating communities are in locations in the national 95<sup>th</sup> - 100<sup>th</sup> percentile of the 2017 Air Toxics Respiratory Hazard Index.**



## Representatives Team

Debbie Reinhart <a href="mailto:reinhart.debra@gmail.com">reinhart.debra@gmail.com</a> Joan Erwin <a href="mailto:joanerwin13@gmail.com">joanerwin13@gmail.com</a>	First Unitarian Church Of Orlando Green Team
Rev. Dr. José Rodriguez <a href="mailto:padre@iglesiaorlando.com">padre@iglesiaorlando.com</a>	Christ the King Episcopal Church
Henry Mendoza, Outreach Manager and Quality Assurance Engineer <a href="mailto:outreach@iglesiaorlando.com">outreach@iglesiaorlando.com</a>	Iglesia Episcopal Jesús de Nazaret
Lawanna Gelzer, Social Justice Advocate <a href="mailto:LawannaGelzer@aol.com">LawannaGelzer@aol.com</a>	Community Equity Project
Shaniqua Rose <a href="mailto:changeforthecommunity@gmail.com">changeforthecommunity@gmail.com</a>	Change for the Community
Aston Mack, Community Activist <a href="mailto:Aston@offoutreach.com">Aston@offoutreach.com</a>	Orlando Freedom Fighters
Marty Melton, Vice President	Inner City Neighborhood Association
Stella Lewis	Washington Shores Neighborhood Association
Justin H. Fortune, President and CEO <a href="mailto:info@pinehillpartnership.org">info@pinehillpartnership.org</a>	Pine Hills Partnership, Inc.

Team Member	Responsibilities
<p>Lawanna Gelzer President, Coalition of 100 Black Women - CFL <a href="mailto:LawannaGelzer@gmail.com">LawannaGelzer@gmail.com</a></p>	<p>Project administration, Fiduciary, hiring &amp; firing, coordination of BIPOC communities, equitable process &amp; dialogue with local government, forming Community Air Quality Advisory Council</p>
<p>Rev. Dr. Jose Rodriguez Christ the King Episcopal Church <a href="mailto:Jose.Rodriguez.fl@gmail.com">Jose.Rodriguez.fl@gmail.com</a></p>	<p>Coordination of participating Hispanic communities, 1 or 2 environmental engineers, translation &amp; interpretation, equitable process &amp; dialogue with local government, forming Community Air Quality Advisory Council</p>
<p>Jennifer Sankey, Ph.D., MHA, BSN, RN, CPPS  President, Central FL Black Nurses Association of Orlando, Inc. <a href="mailto:Jennicoop@embarqmail.com">Jennicoop@embarqmail.com</a></p>	<p>Education Regarding Health Effects of Air Pollution &amp; Pork with the Community Air Quality Advisory Council on Health Implications of the Data</p>
<p>Dr. Haofei Yu  Department of Civil, Environmental &amp; Construction Engineering. University of Central FL <a href="mailto:haofei.yu@ucf.edu">haofei.yu@ucf.edu</a></p>	<p>Education Regarding Air Quality &amp; Interpretation of Air Quality Data consulting with the Community Air Quality Advisory Council</p>
<p>Heather Vickery, MPA  Unitarian Universalist Service Committee (UUSC) - Equity Committer <a href="mailto:hvickery@uucs.org">hvickery@uucs.org</a></p>	<p>Equitable process facilitation, Deliberative dialogue consultation, coordination of the Community Air Quality Advisory Council formation &amp; mgmt process</p>
<p>Josephine Balzac-Arroyo, J.D., LL.M  Rollins College Dept. of Social Entrepreneurship <a href="mailto:jbazac@rollins.edu">jbazac@rollins.edu</a></p>	<p>Drafting documents, process guidance &amp; dialogue mediation with local government, consulting with the Community Air Quality Advisory Council</p>
<p>Janice T. Booher, MS  Director of Civic Engagement and Training Resilient American Communities Health Initiatives Foundation, Inc. <a href="mailto:JanBooherHBE@gmail.com">JanBooherHBE@gmail.com</a></p>	<p>Coordination with Environmental Engineers &amp; Academic partners, Reporting Oversight including QAPP, Dashboard maintenance, Data Librarian, consulting with Community Air Quality Advisory Council</p>



# The Project Will Be Covered on the RAC Central Florida Counties Dashboard

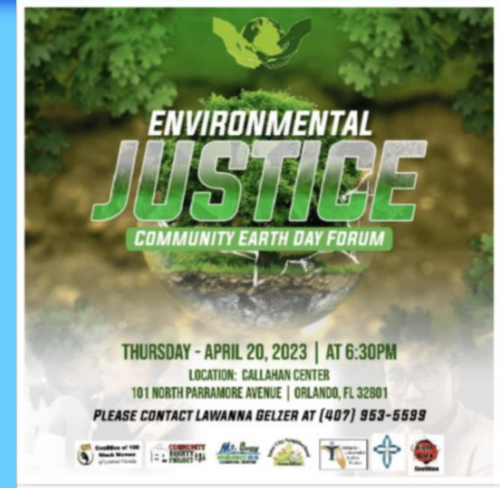
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RESILIENT AMERICAN COMMUNITIES

## CENTRAL FLORIDA COUNTIES

[CENTRAL FLORIDA RESILIENCE SYSTEM >](#)

[RECURSOS EN ESPAÑOL >](#)



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[English Survey](#)

[Spanish Survey](#)

## Congratulations!

We are pleased to announce that the Coalition of 100 Black Women of Central Florida was awarded another EPA grant titled *Enhancing Community AQ Monitoring in Underserved Black & Hispanic Communities in Orange County, FL*. Please see the [White House Press Statement](#) regarding grants awarded to understand how this work is part of the Justice40 commitment for 40% of the benefits of federal investments to address climate change to accrue to Justice40 disadvantaged communities. You may also be interested in the [EPA's Selections for the ARP Enhanced Air Quality Monitoring Competitive Grant](#) to see the quality of your colleagues from around the country who have also received these grants. Our listing is on the first page of this EPA table. This is the short summary of the work we will be doing together:

Please join the Coalition of 100 Black Women of Central Florida and **ALL** of our Community Partners as we hold an introductory meeting this **Thursday, April 20, 2023 @6:30PM** so you may learn about the grant work plan, timeline and milestones. The main body of our work will begin in May of 2023.



## Measurement

RISE CDC Community Partners:  
Coalition of 100 Black Women of Central Florida  
Community Outreach Survey/Form

CFL RISE Snapshot of Work in Progress  
April 21, 2022

Coalition of 100 Black Women  
Air Quality Survey Results  
Presentations Community Meeting  
Thursday, June 24<sup>th</sup> @ 7PM  
Virtual and Social Distanced Event  
Cuban Amphitheater  
Orlando, FL 32811

ENVIRONMENTAL JUSTICE COMMUNITY FORUM  
Agenda

Welcome  
EPA Grant Team  
EPA Grant Partners  
Timeline and Overview  
Survey #1 Results  
Speakers: Janice T. Bocher, MD  
Dr. Wanda Jones  
Call to Action for Community Scientists  
Opportunities  
Closing Remarks

Central FL Disaster Resilience Initiative -  
Phase I Stage 1 Overview

April 3, 2019

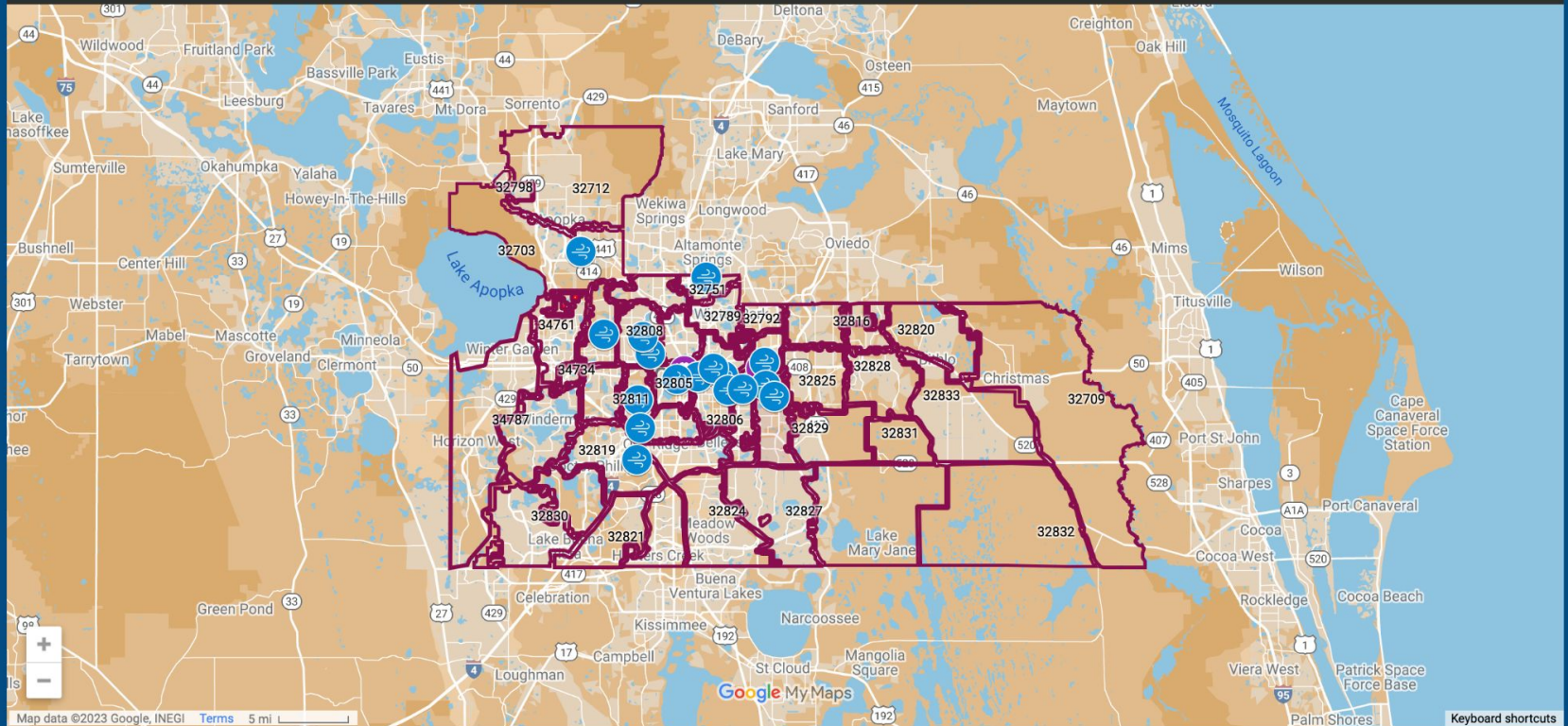
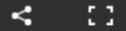
Community Climate Action Survey in  
4 Communities in the  
Orlando Metropolitan Area

Encuesta comunitaria de acción  
climática en 4 comunidades del  
Área Metropolitana de Orlando

The majority of survey respondents were born and raised  
2017, 2018, 2019, and 2020  
La mayoría de los encuestados provenían de los códigos postales  
32801, 32805, 32809 y 32817



## EPA Enhanced Air Quality Monitoring Participating Communities



Pollutant	Symbol	Emitted By Vehicles?
<b>Carbon monoxide</b>	CO	Yes
<b>Nitrogen dioxide</b>	NO <sub>2</sub>	Yes
<b>Ozone</b>	O <sub>3</sub>	Ozone (photochemical smog) is produced by the reaction of volatile organic compounds and nitrogen oxides in the presence of sunlight.
<b>Particulate matter</b>	PM <sub>2.5</sub>	Yes
<b>Particulate matter</b>	PM <sub>10</sub>	Yes
<b>Sulfur dioxide</b>	SO <sub>2</sub>	Yes
<b>Carbon dioxide</b>	CO <sub>2</sub>	Yes
<b>Methane</b>	CH <sub>4</sub>	Yes
<b>Volatile Organic Compounds</b>	VOCs	Yes
<b>Non Methane Hydrocarbons</b>	NMHCs	Yes
<b>Formaldehyde</b>	CH <sub>2</sub> O	Yes

# Vehicle Emissions and Their Health Impacts

Pollutant	Emissions Source	Health Effects
Particulate Matter 2.5 microns (PM <sub>2.5</sub> )	Planes, cars, trucks and buses	>heart and lung diseases, cancers, cognitive disorders, and low birth weights; >Chronic exposure in children: slowed lung-function growth, development of asthma*
Nitrogen Dioxide (NO <sub>2</sub> )		>lung irritation >weakens the body's defenses against respiratory infections such as pneumonia and influenza
Volatile Organic Compounds		> Certain VOCs ( <a href="#">benzene</a> , <a href="#">acetaldehyde</a> , and <a href="#">1,3-butadiene</a> ) — are linked to different types of cancer



# Handheld Monitors from the Previous EPA AQ Air Monitoring Grant

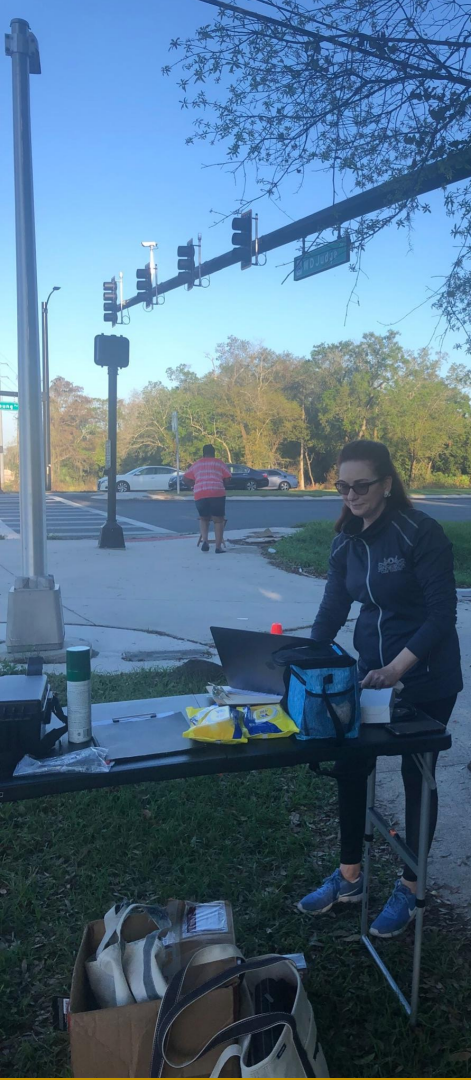
## Portable Aeroqual 500 series air quality monitors



# Field Work with Handheld Monitors









# Public Health Concerns





# Key Learnings from Prior AQ Monitoring with Handheld Monitors

**Table 1. Incidence of Critical Air Pollutant Readings Exceeding Primary Standards NAAQS**

	<b>PM<sub>2.5</sub></b>	<b>PM<sub>10</sub></b>	<b>O<sub>3</sub></b>	<b>NO<sub>2</sub></b>	<b>CO</b>	<b>SO<sub>2</sub></b>
	2.5 micron particulate matter	10 micron particulate matter	Ozone	Nitrogen Dioxide	Carbon monoxide	Sulfur Dioxide
<b>Parramore</b>	0	0	0	0	0	0
<b>Mercy Drive</b>	0	0	0	0	0	0
<b>Holden Heights</b>	0	0	0	0	1	0
<b>Overall</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>

**Table 3. Incidence of Additional Air Pollutants in Vehicle Emissions  
Measured Exceeding Typical Ambient Concentrations**

	<b>CO<sub>2</sub></b>	<b>CH<sub>4</sub></b>	<b>VOCs</b>	<b>NMHC</b>	<b>CH<sub>2</sub>O</b>
	Carbon dioxide	Methane	Volatile Organic Compounds	Non Methane Hydrocarbons	Formaldehyde
<b>Parramore</b>	10	7	0	5	3
<b>Mercy Drive</b>	14	3	0	2	2
<b>Holden Heights</b>	11	2	2	2	1
<b>Overall</b>	<b>35</b>	<b>12</b>	<b>2</b>	<b>9</b>	<b>6</b>

## Completeness: Percent Acceptable Data and Information

Type of Measurement	Acceptable Measurements Reported	Total Measurements Reported	% Valid Submission of Monitor Data
Geospatial (latitude/longitude)	126	252	<b>50.0%</b>
Physical	864	1,638	<b>52.7%</b>
Chemical	500	938	<b>53.3%</b>



# Recommendations

1. The protocol must be simplified to increase reliability of data collected by Community Scientists. It would be advisable to have a real time monitor with continuous data capture using monitors that are directly connected to a computer interface with an online air quality management account.
2. Time stamps and geospatial positioning of monitors should be captured on autofill.
3. Budget must be increased to improve the accuracy and precision of the monitors.
4. Obtain more authoritative guidance on permissible levels of non-criteria air pollutants.