

**Overview of  
East Los Angeles, Boyle Heights, West Commerce (ELABHWC)  
Assembly Bill 617 (AB 617) Community Emissions Reduction Plan (CERP)**

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**Los Angeles County Public Health Community Meeting**  
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# Who is South Coast Air Quality Management District (South Coast AQMD)?

- Air quality regulatory agency for all of Orange County and the urban portions of Los Angeles, Riverside, and San Bernardino counties
- Approximately 17 million residents

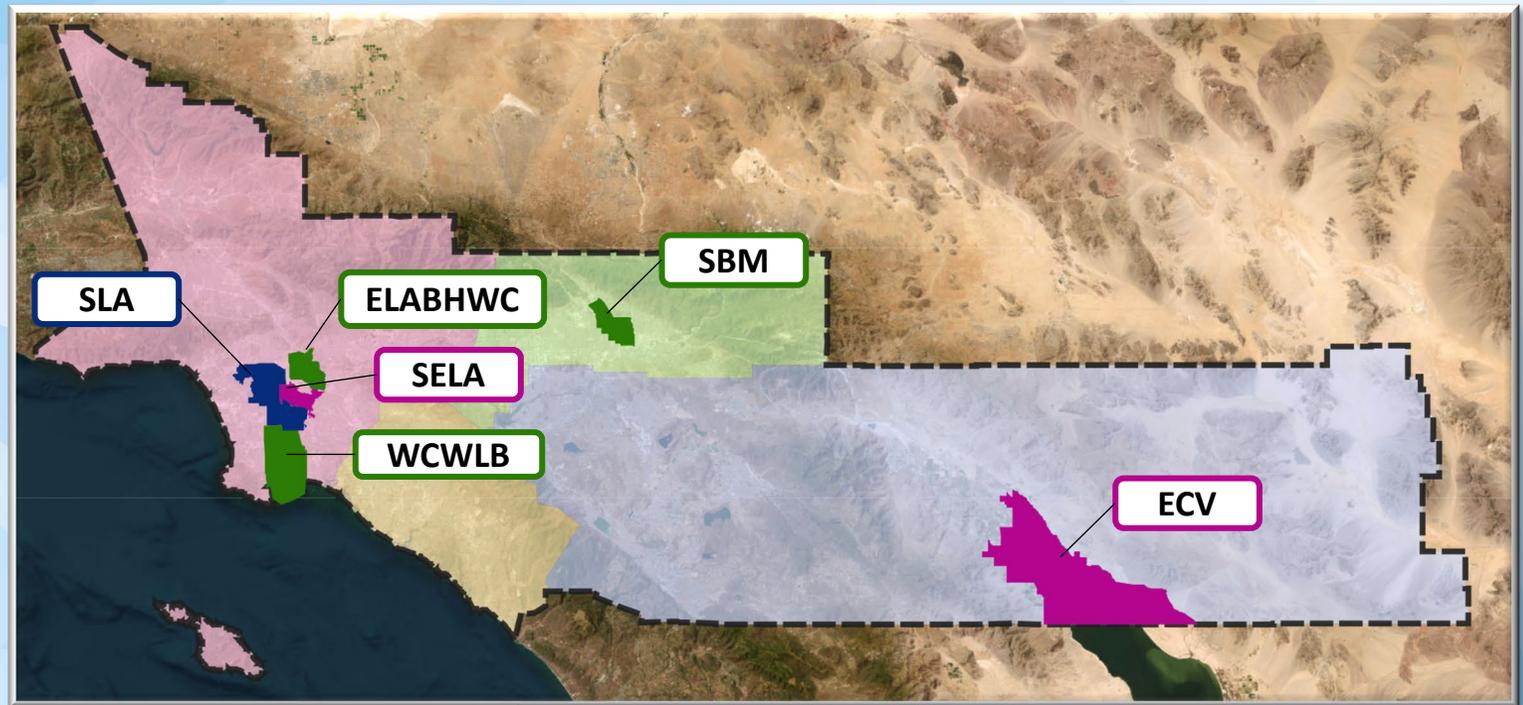
## *Examples of Responsibilities:*

- Develop Air Quality Management Plan
- Adopt and enforce air quality rules and regulations
- Incentivize and deploy clean technology
- Conduct air monitoring
- Conduct outreach



# Overview of AB 617

- AB 617 was signed into state law in July 2017
- Invests resources in Environmental Justice (EJ) communities disproportionately impacted by air pollution
- Involves community engagement to develop Community Emissions Reduction Plan (**CERP**) and Community Air Monitoring Plan (**CAMP**)



## Year 1 Communities (2018)

- East Los Angeles, Boyle Heights, West Commerce (ELABHWC)
- Wilmington, Carson, West Long Beach (WCWLB)
- San Bernadino, Muscoy (SBM)

## Year 2 Communities (2019)

- Eastern Coachella Valley (ECV)
- Southeast Los Angeles (SELA)

## Year 3 Community (2020)

- South Los Angeles (SLA)

# CERP Framework



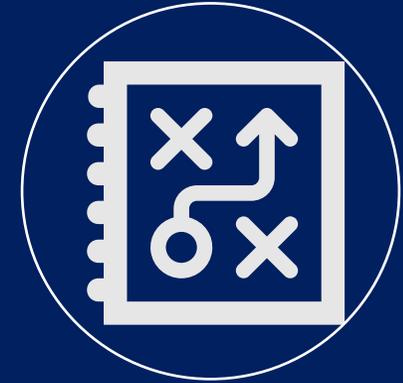
## Air Quality Priorities

- Identified by the Community Steering Committee (CSC)



## Goals

- Reduce emissions
- Reduce exposure



## Strategies & Actions

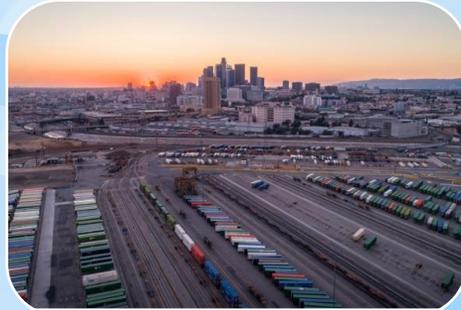
- Air Monitoring
- Collaboration
- Public Information and Outreach
- Incentives
- Rules and Regulations
- Focused Enforcement

# ELABHWC CERP

## Air Quality Priorities



**Neighborhood & Freeway Truck Traffic**



**Railyards**



**Metal Processing Facilities**



**Rendering Facilities**



**Auto Body Shops**



**Exposure Reduction at Sensitive Sites**



**Industrial Facilities, including Waste Transfer Stations**

# ELABHWC CERP Actions to Address Truck Emissions\*



## Quarterly Truck Idling Sweeps and “No Truck Idling” Signs

- Prohibits illegal truck idling, thus reducing truck emissions



## Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions

- Reduces emissions from sources associated with warehouses, including trucks



## Automated License Plate Reader (ALPR) + Portable Emissions AcQuisition System (PEAQs) Pilot Program

- Identifies eligible trucks for replacement through incentives
- Data used to evaluate potential truck routes



\* <http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/east-la/cerp/carb-submittal/final-cerp.pdf?sfvrsn=8#page=126>

## Community Air Protection (CAP) Incentives

- \$20 million invested in mobile source incentives, including trucks
- \$1.8 million allocated for zero-emission truck projects



# ELABHWC CERP Actions to Address Waste Transfer Stations (WTS)\*



Training for WTS operators on applicable rules and best management practices

Outreach on filing an odor complaint and applicable rules

Unannounced facility inspections and odor complaint response

\* <http://www.aqmd.gov/docs/default-source/ab-617-ab-134/steering-committees/east-la/cerp/carb-submittal/final-cerp.pdf?sfvrsn=8#page=190>

# South Coast AQMD Complaint Response Program

Download South Coast AQMD's Mobile App!

- **1-800-CUT-SMOG<sup>®</sup>**, online at [www.aqmd.gov](http://www.aqmd.gov), or via South Coast AQMD Mobile App ([iOS](#)/[Android](#))
- 24 hours a day, 7 days a week
- Complaints regarding odors, dust, smoke, truck idling, etc.
- Complainant information confidential
- Complaints can be made anonymously
- **STAFF RESPONDS TO ALL COMPLAINTS!**

**APPLICATION FEATURES**

- Detailed Monitored Data
- Real-time & Forecasted Air Quality
- Connect with SCAQMD
- AQI on Your Wrist (Apple Watch)

**ADDITIONAL FEATURES**

- Configurable air quality notifications
- Integrated temperature
- Animated weather background
- Interactive air quality map
- Alternative fuel
- Call 1-800-CUT-SMOG at the touch of a button

# ELABHWC CERP Comments/Questions?

**Contact:**

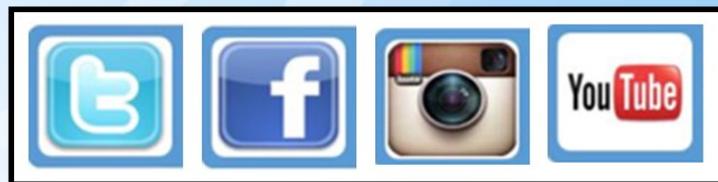
[ab617@aqmd.gov](mailto:ab617@aqmd.gov)

[nkrishnamurthy@aqmd.gov](mailto:nkrishnamurthy@aqmd.gov)

**For more information on ELABHWC visit:**

<http://www.aqmd.gov/nav/about/initiatives/environmental-justice/ab617-134/east-la>

Follow Us on Social Media



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# East Los Angeles, Boyle Heights, West Commerce (ELABHWC) Assembly Bill 617 (AB 617) Community Air Monitoring Plan (CAMP) Overview

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**Mohammad Sowlat, Ph.D.**  
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Monitoring and Analysis Division  
South Coast AQMD

# AB 617 Community Air Monitoring Objectives

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01

Better understand emission sources, pollutants of interest and their levels, and establish baseline

02

Assess air pollution levels in communities to provide information to drive action

03

Support development and implementation of emissions reduction strategies

04

Provide air pollution data to the general public

# Working with the CSC towards developing the Community Air Monitoring Plan (CAMP)



Localized air monitoring in six communities, including East Los Angeles, Boyle Heights, West Commerce (ELABHWC)

# General Air Monitoring Approach

## Mobile Monitoring

- Survey large areas
- Identify areas with persistent elevated levels of pollutants
- Support inspections and enforcement actions
- Inform emission reduction efforts

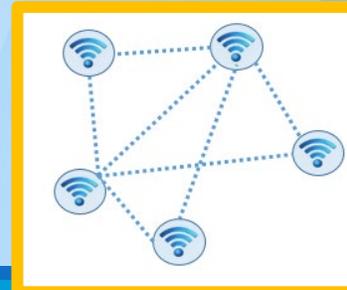
## Fixed Monitoring

- Provide more information about possible sources
- Assess levels in community
- Support emission reduction strategies
- Track progress

## Sensors

- Provide more information about how levels vary within the community
- Complement other monitoring strategies
- Engage the community in air pollution measurement

Comprehensive  
and Purposeful  
Air Monitoring



# Air Monitoring Strategies to Address Truck Traffic and Freeways in ELABHWC

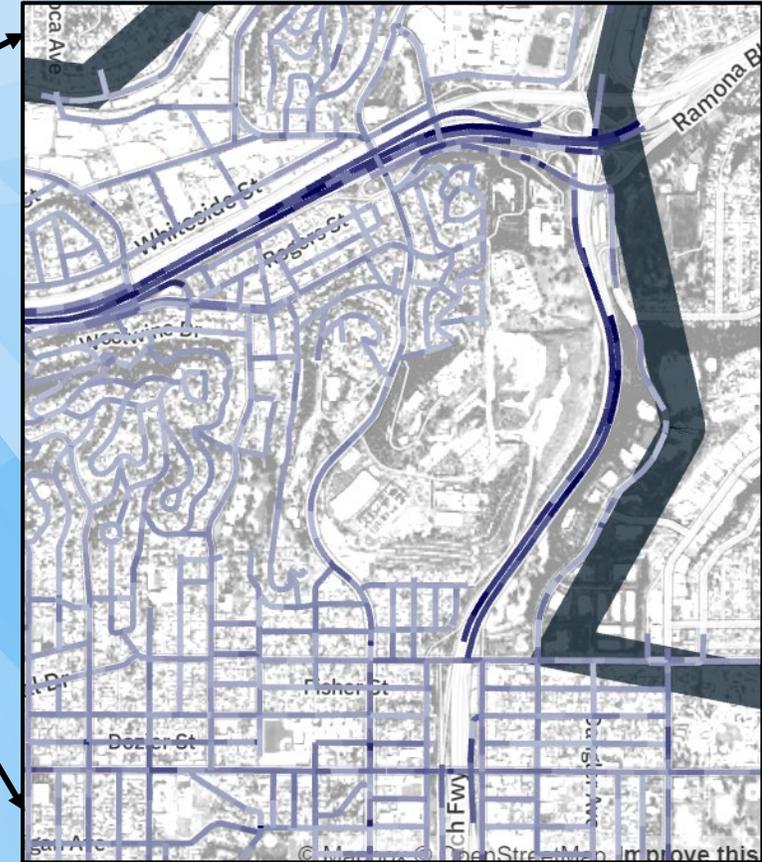


Neighborhood &  
Freeway Truck  
Traffic

- **Target Air Pollutants**
  - BC (Diesel PM Tracer), NO<sub>x</sub>, Ultrafine PM
- **Purpose of Air Monitoring**
  - Identify Areas with Persistent Elevated Levels of Air Pollutants
  - Assess Community Impact
  - Track Progress
- **Air Monitoring Solution**
  - Mobile Monitoring
  - Fixed-Site Monitoring

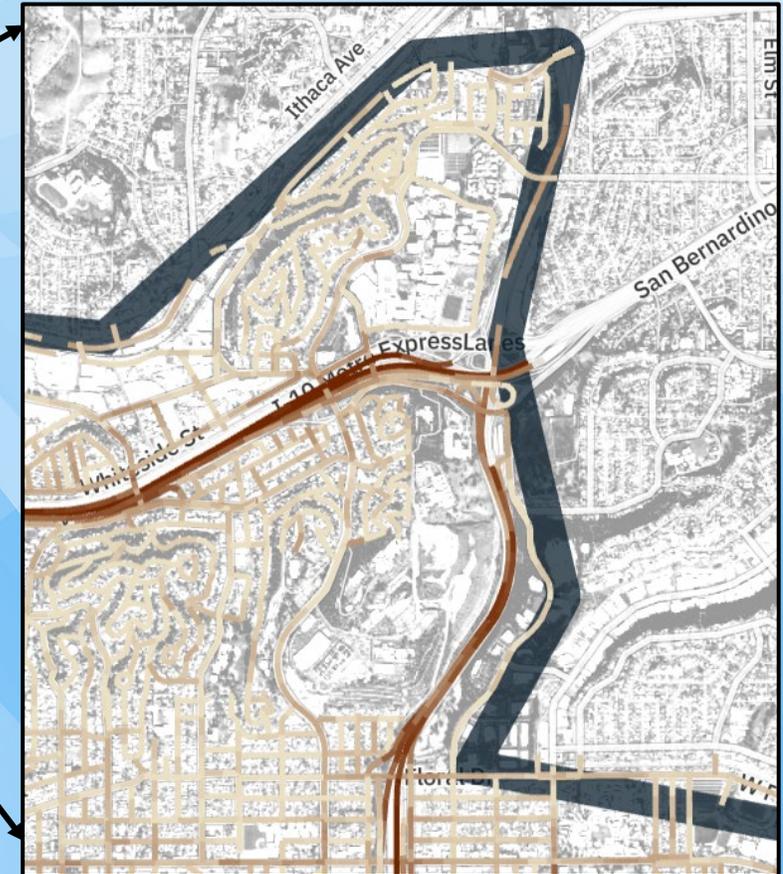
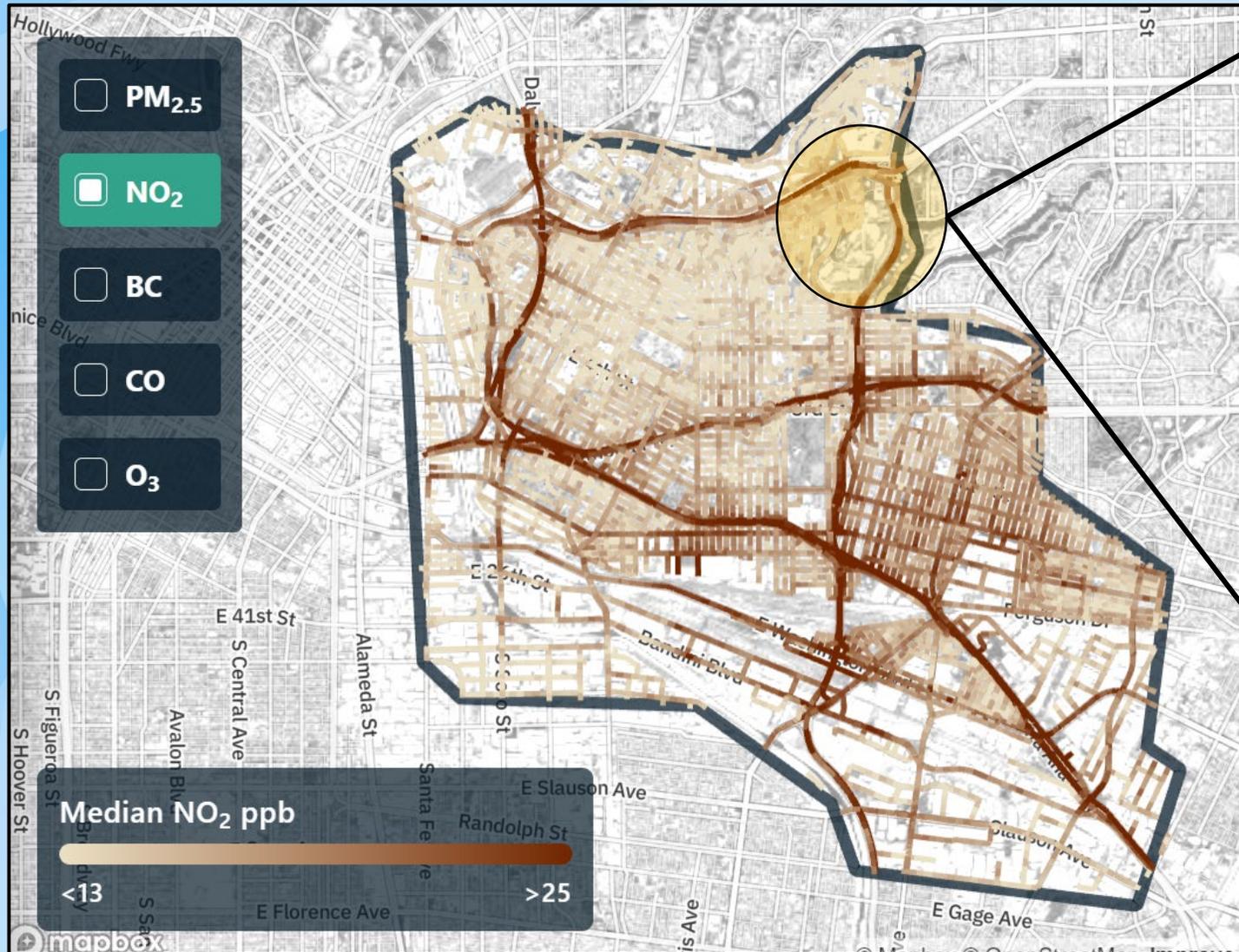


# Concentration map of Black Carbon (BC) in ELABHWC



\*Measurements performed by Aclima, South Coast AQMD's contractor, from July 1<sup>st</sup> through September 30<sup>th</sup>, 2021

# Concentration Map of NO<sub>2</sub> in ELABHWC



\*Measurements performed by Acima, South Coast AQMD's contractor, from July 1<sup>st</sup> through September 30<sup>th</sup>, 2021

# Where to access updates and monitoring data?



<http://www.aqmd.gov/ab617/monitoring/elabhwc>

Real-time air monitoring data

Historical air monitoring data (data dashboards)

Tutorial videos on how to use the data dashboards

Interactive progress reports

Community Air Monitoring Plan (CAMP)

A screenshot of the South Coast AQMD website. The page title is "East Los Angeles, Boyle Heights, West Commerce Community". The main content area includes a section for "Air Monitoring Data Display" with links to real-time measurements and video tutorials, "Interactive Data Summaries" with links to various dashboards and reports, and "Community Air Monitoring Plan (CAMP) Implementation Update" with a link to a progress update. A sidebar on the right titled "YOU MAY ALSO LIKE ..." contains sections for "Jurisdiction", "Regional Contacts", and "March 2013" and "July 2013" CEQA comment letters. The website header includes navigation menus for "AIR QUALITY", "INCENTIVE PROGRAMS", "RULES &amp; COMPLIANCE", "PERMITS", "NEWS, WEBCASTS, &amp; CALENDAR", "TECHNOLOGY ADVANCEMENT", "RESOURCES", and "MEETING AGENDAS &amp; MINUTES".

# Summary

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- Mobile monitoring results in ELABHWC showed increased levels of NO<sub>2</sub>, UFP, and BC on major freeways and roadways
- NO<sub>2</sub>, UFP, and BC levels in ELABHWC were found to be generally lower in residential communities than in and around major streets and freeways
- Although Californians spend less than 10% of their time in enclosed vehicles, 30-55% of their daily diesel PM exposure occurs inside cars and other motor vehicles<sup>1</sup>

<sup>1</sup><https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health>

# ELABHWC CAMP Comments/Questions?

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## Contacts:

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Payam Pakbin: [ppakbin@aqmd.gov](mailto:ppakbin@aqmd.gov)

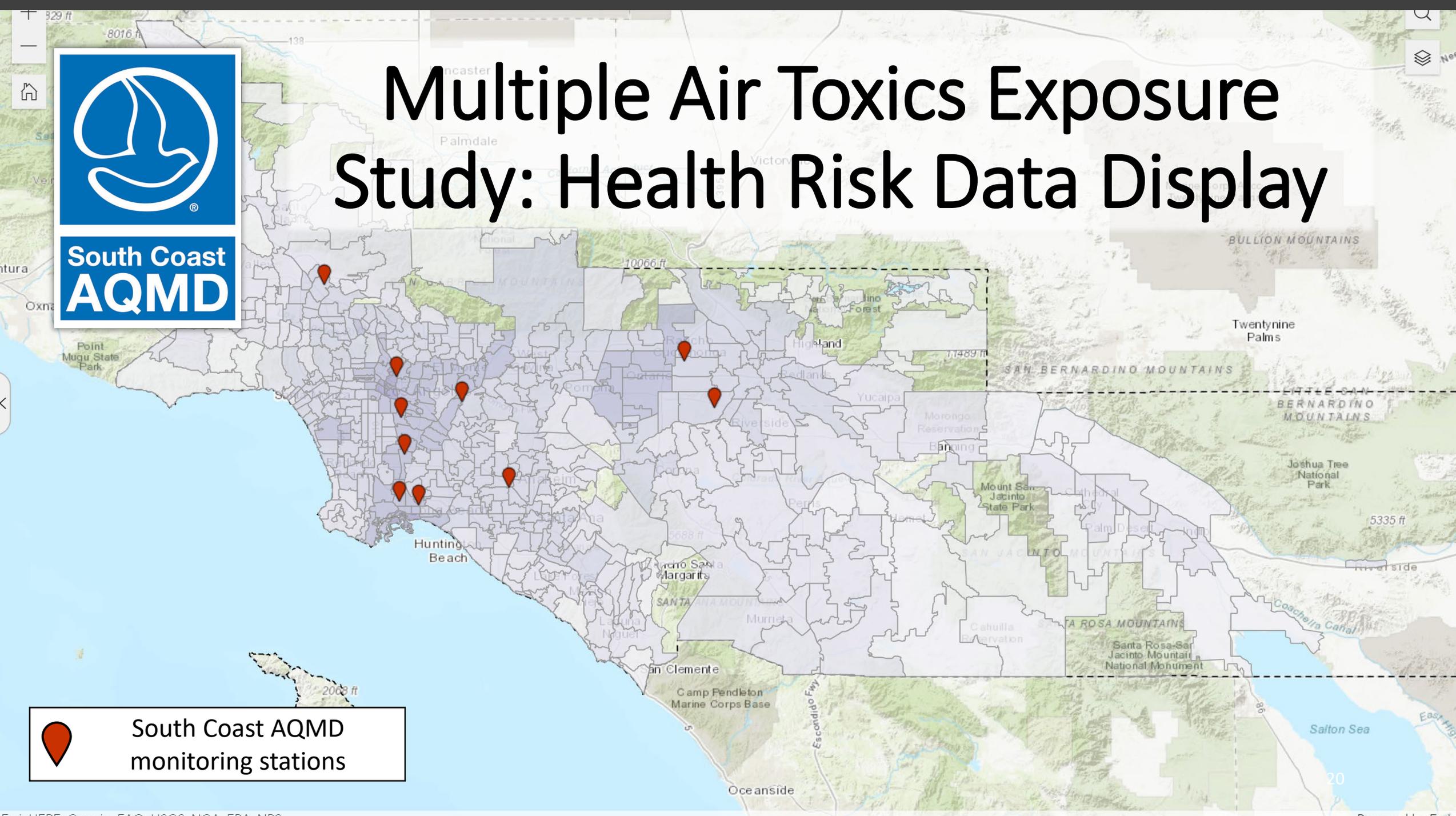


South Coast  
**AQMD**

# Multiple Air Toxics Exposure Study: Health Risk Data Display



South Coast AQMD  
monitoring stations



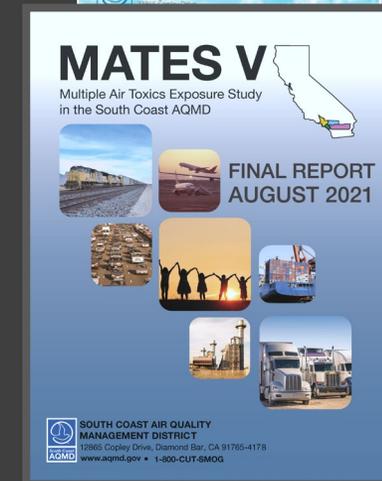
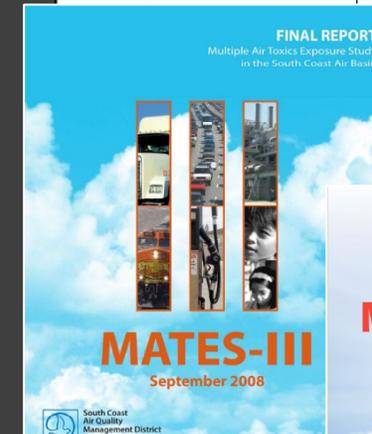
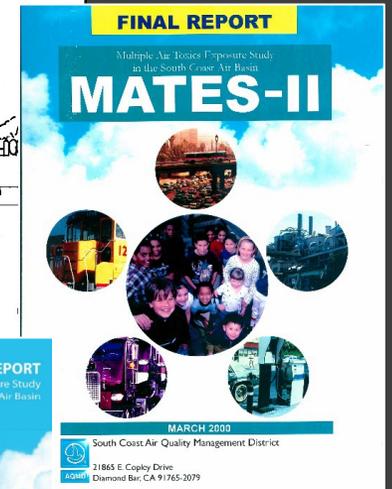
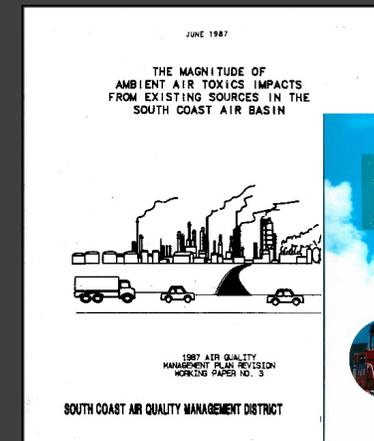
# Air Toxics

- Air pollutants which cause serious illness including cancer
- Emissions from freight and other activities are associated with air toxics
- Health risk assessment evaluates effects of air toxics
  - *Cancer risk* – Number of extra cancer cases occurring over a 70-year lifetime
  - *Chronic hazard index* – Indicates non-cancer health effects can occur due to long-term exposure to toxic air contaminants

# Multiple Air Toxics Exposure Study

[www.aqmd.gov/mates5](http://www.aqmd.gov/mates5)

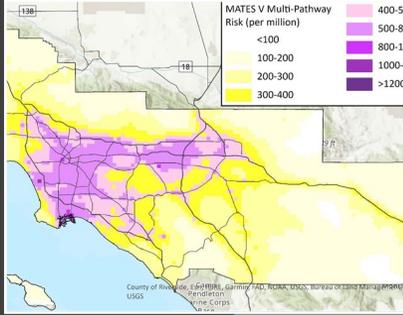
- Fifth Multiple Air Toxics Exposure Study Iteration (MATES V)
  - 2018 – 2019 study period
- South Coast AQMD Environmental Justice Initiative
- Studies Regional Air Toxics Impacts
- Provides the public information about air toxics and health risks
- Evaluates progress in reducing air toxics exposure



[MATES V Final Report Available at www.aqmd.gov/mates5](http://www.aqmd.gov/mates5)



# MATES V: Summary of Results



Air toxics cancer risk decreased by ~50% since 2012, but risks are still high



EJ communities also had decreased air toxics levels, but still higher compared to Basin averages



Diesel particulate matter is the main contributor to air toxics cancer risk



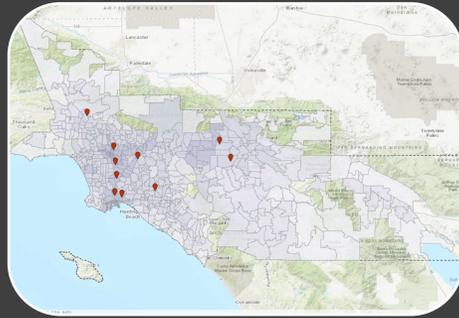
Air toxics cancer risks were higher along goods movement corridors and major freeways



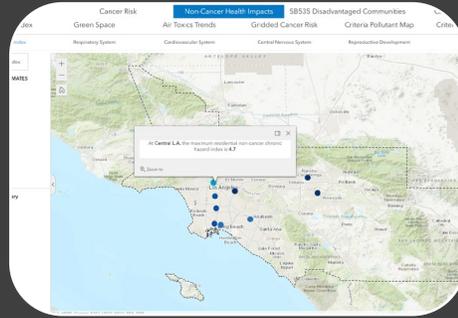
Chronic non-cancer health impacts were estimated for the first time

# MATES Data Visualization Health Risk Data

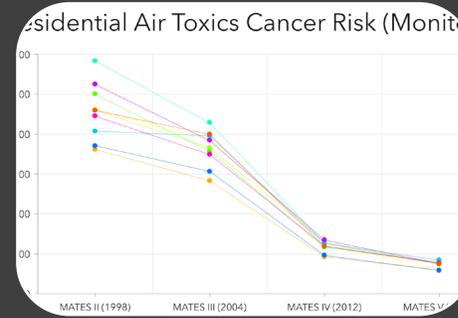
[www.aqmd.gov/MATES5map](http://www.aqmd.gov/MATES5map)



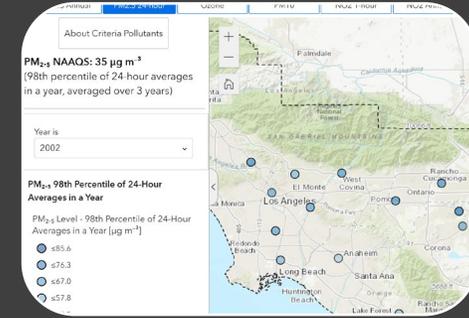
Cancer Risk



Chronic Hazard Index



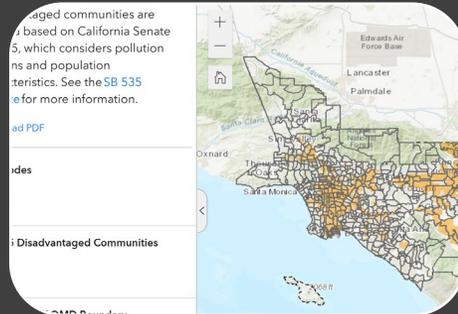
Trends



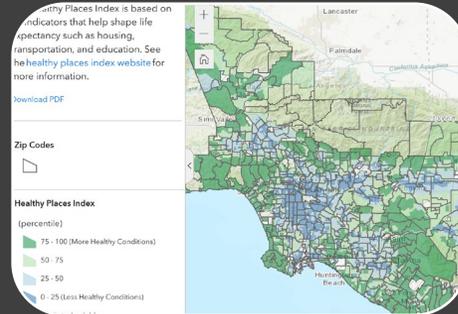
Criteria Pollutant Design Values



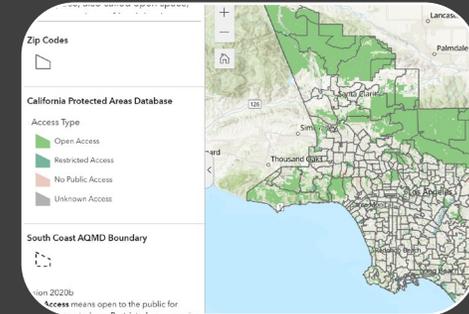
CalEnviroScreen 3.0



Disadvantaged Communities



Healthy Places Index



Green Space



### How to use the MATES Interactive Data Display

[Click the map for more information](#)

Overview **Cancer Risk** Non-Cancer Health Impacts SB535 Disadvantaged Communities CalEnviroScreen 3.0  
 Healthy Places Index Green Space Air Toxics Trends Gridded Cancer Risk Criteria Pollutant Map Criteria Pollutant Trends

About Air Toxics Cancer Risk  
 Information about community profile statistics  
 Information about emission sources  
 Download PDF

Residential Air Toxics Cancer Risk at MATES Monitoring Sites

Residential Air Toxics Cancer Risk Calculated from Model Data

Cancer Risk [per million]

- 1601 - 4800
- 1451 - 1600
- 1301 - 1450
- 1151 - 1300
- 1001 - 1150
- 851 - 1000
- 701 - 850
- 551 - 700
- 401 - 550
- 251 - 400
- 101 - 250
- 0 - 100

South Coast AQMD Boundary

The air toxics cancer risk data presented in the MATES Data Visualization is calculated using a population-weighted average.

Don't show this again

OK

At Anaheim the cancer risk is 582 per million

Pollutants contributing to cancer risk

Pollutant	Contribution (%)
Diesel	41.8%
Benzene	10.3%
Other	10.30%
Formaldehyde	10.30%
1,3-Butadiene	10.30%
Particulate Matter	10.30%

Toxic air p  
between  
cancers ar  
2018, exp

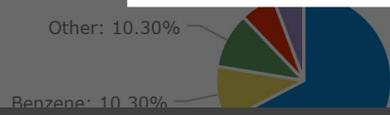
67% of the  
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# MATES V

## Air Monitoring Data Dashboard

[www.aqmd.gov/matesv/datadashboard](http://www.aqmd.gov/matesv/datadashboard)



# MATES V

## Air Monitoring Data Dashboard

July 2021

Instruction

Map of MATES V Air Monitoring Stations

Glossary



Step 1: Select an Air Monitoring Station

Central L.A.

Step 2: Select a Pollutant Category

Fine Particulate Matter (PM2.5)

Step 3: Select a Pollutant Sub-Category

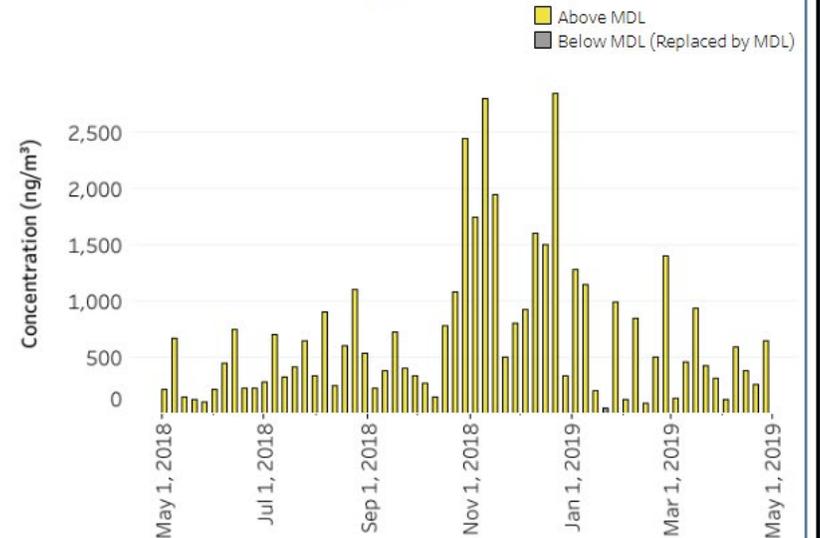
Carbon

Step 4: Select a Pollutant

Elemental Carbon

Generate Plots

Daily Concentrations of PM2.5 Elemental Carbon at Central L.A. During MATES V



Questions?