



# East LA-Boyle Heights-West Commerce Update

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February 17, 2022

# Mobile Monitoring In East LA-Boyle Heights-West Commerce

With support from the South Coast AQMD, Aclima conducted three months of block-by-block air quality measurements **July 1 – September 30, 2021**. Our analysis of this baseline dataset is now complete.

## Pollutants Measured and Analyzed:

- Fine particulate matter (PM<sub>2.5</sub>)
- Black Carbon (BC)
- Nitrogen Dioxide (NO<sub>2</sub>)
- Ozone (O<sub>3</sub>)
- Volatile Organic Compounds (VOCs)
- Carbon Dioxide (CO<sub>2</sub>)
- Carbon Monoxide (CO)
- Nitric Oxide (NO)
- Methane (CH<sub>4</sub>)
- Ethane (C<sub>2</sub>H<sub>6</sub>)



# Community Air Quality Report supports CERP implementation

**Aclima connects mobile air quality data to the needs of the community** through extensive research and numerous interviews with Community Steering Committee members, community and environmental justice groups, air regulators, and residents.

Hyperlocal monitoring serves the Community Emissions Reductions Plan (CERP) and Community Steering Committee with the ability to **assess, prioritize, and evaluate community air pollution concerns and interventions at the block-to-block level.**

In this report, we use Action Indicators to visualize specific areas of concern defined in the CERP and during Steering Committee meetings: diesel emissions, particulate matter, traffic impacts, air quality near schools, ambient methane levels, and more.

When paired with South Coast AQMD and community-identified concerns, our **Action Indicators facilitate improved prioritization and evaluation of emission reductions strategies** to improve air quality for everyone in the East LA-Boyle Heights-West Commerce area.



# CERP Action Opportunities → Acima Action Indicators → Prioritized Areas

**What actions are in this Plan?**

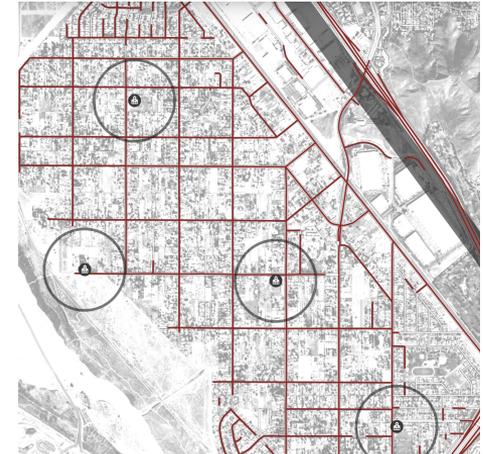
<p><b>Neighborhood Truck Traffic</b></p> <ul style="list-style-type: none"> <li>Identify truck routes and truck enforcement in priority areas</li> <li>Work with City and County to establish truck routes and parking areas</li> <li>Incentive funds for cleaner trucks</li> <li>Use data and new technology to help target enforcement</li> <li>Develop Indirect Source Rules, Strong Truck Rule, Advanced Clean Truck Rule, and Heavy-Duty Low NOx Rule</li> </ul>		<p><b>Warehouses</b></p> <ul style="list-style-type: none"> <li>Develop Indirect Source Rule for Warehouses</li> <li>Enhance land use policies to reduce residential exposure to truck emissions from warehouses (work with City and County)</li> <li>Work with local utilities to encourage zero-emission infrastructure</li> </ul>
<p><b>OmniTrans Bus Yard</b></p> <ul style="list-style-type: none"> <li>As monitoring near the facility to identify potential emission sources</li> <li>Support deployment of zero-emission buses and infrastructure</li> </ul>		<p><b>Railyards</b></p> <ul style="list-style-type: none"> <li>Develop Indirect Source Rule for Railyards, Orange Truck Rule, TRU Regulation, DIE Rule</li> <li>Work with CARG to consider new requirements on locomotives</li> <li>Work with BNSF to replace diesel equipment with cleaner technologies</li> <li>Work with local utilities to encourage zero-emission infrastructure</li> </ul>
<p><b>Concrete Batch, Asphalt Rock, Aggregate Plants</b></p> <ul style="list-style-type: none"> <li>Outreach to operators on best practices and rule requirements</li> <li>Focus on monitoring and inspections to identify potential emissions or violations</li> </ul>		<p><b>Schools, Childcare Centers and Community Centers</b></p> <ul style="list-style-type: none"> <li>Clean Air Raiser Education (CARE) and My Air Quality Matters (MAMM) programs at local schools</li> <li>Outreach to schools (partner with the 28 County Public Health CALS, CHC/CA, Safe Routes to School)</li> <li>Business management program (partner with Arrowhead Regional Medical Center)</li> <li>Air filtration systems</li> <li>Increase green space and plant trees</li> </ul>

More details provided in CERP documents on this webpage: [www.sajpd.gov/the/about/initiatives/community-eforts/air/environmental-justice/ab17-134.htm](http://www.sajpd.gov/the/about/initiatives/community-eforts/air/environmental-justice/ab17-134.htm)

Action opportunities outlined in the CERP address community concerns



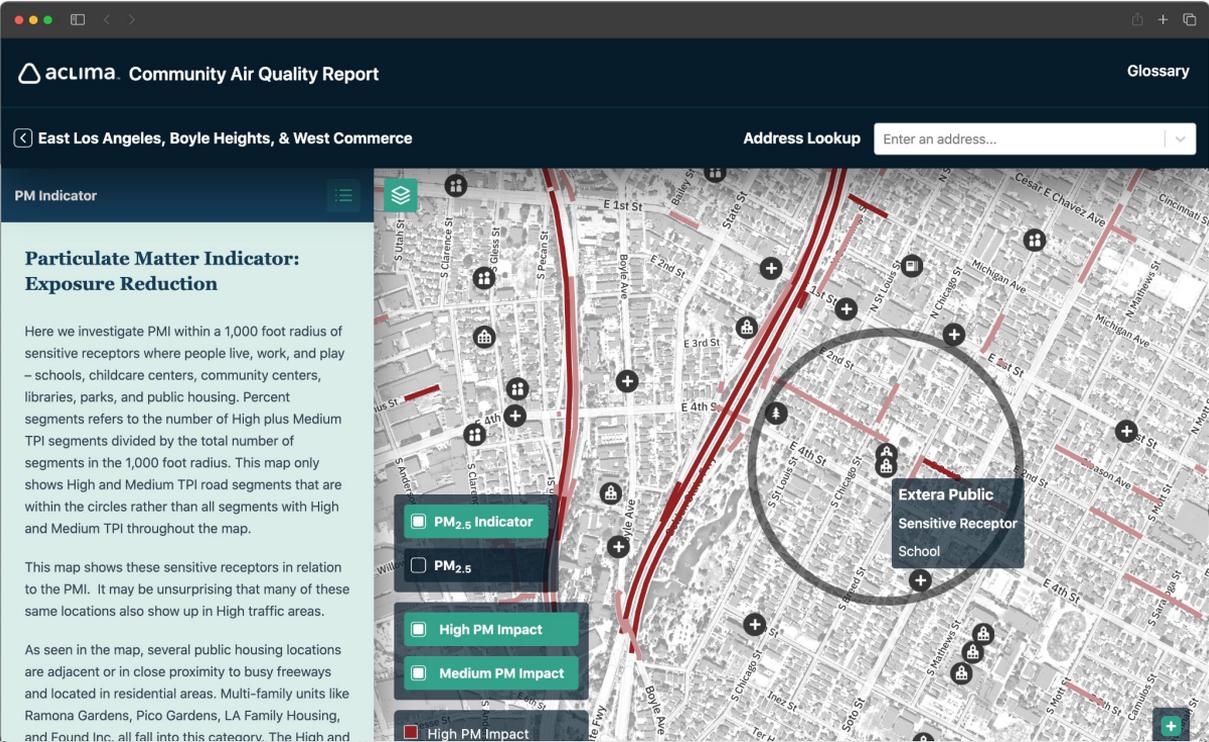
Action Indicators distill hyperlocal data into actionable areas of focus.



Prioritized areas for further investigation and intervention evaluation

# Action Indicators

## Particulate Matter Indicator Near Schools



# Sensitive Sites

Visualize schools, healthcare facilities (hospitals and other), early learning and care sites, community centers, libraries, public housing projects, parks, and more in conjunction with each Action Indicator.

The screenshot displays the ACLIMA Community Air Quality Report interface. The main header shows the report title and a location filter for 'East Los Angeles, Boyle Heights, & West Commerce'. A sidebar on the left is titled 'Diesel Indicator' and contains a section for 'Diesel Pollution Indicator: Exposure Reduction'. The central focus is a pop-up window for 'Euclid Avenue Elementary' at address 34.03125,-118.2063. This window features a map with a red location pin and a black oval highlighting a specific area. To the right of the map is a data panel with a green header indicating '28 indicator segments within 1,000 feet'. Below this, a color scale for Fine Particulate Matter (PM<sub>2.5</sub>) is shown, with a value of 13.8 µg/m<sup>3</sup>. A list of other indicators includes Nitrogen Dioxide (NO<sub>2</sub>) at 15.0 ppb, Black Carbon at 1.2 µg/m<sup>3</sup>, and Carbon Monoxide (CO) at 0.5 ppm.

**ACLIMA Community Air Quality Report**

East Los Angeles, Boyle Heights, & West Commerce

**Diesel Indicator**

### Diesel Pollution Indicator: Exposure Reduction

Here we investigate the DPI within a 1,000 foot radius of schools, childcare centers, community centers, libraries, parks, and public housing. Percent segments refers to the sum of High and Medium DPI road segments divided by the total number of road segments in the 1,000 foot radius. This map only shows High and Medium DPI road segments that are within the circles rather than all segments with High and Medium DPI throughout the map.

As seen in the map, several public housing locations are adjacent or in close proximity to busy freeways. Multi-family units like Ramona Gardens, Pico Gardens, LA Family Housing, and Found Inc. all fall into this category. The High and Medium DPI values found near these buildings are primarily located adjacent to freeways, though as noted, diesel emissions can easily be carried downwind from freeways to residential communities.

## Euclid Avenue Elementary

34.03125,-118.2063

**28 indicator segments within 1,000 feet**

**Fine Particulate Matter (PM<sub>2.5</sub>)** ..... 13.8 µg/m<sup>3</sup>

<14 |-----> 18

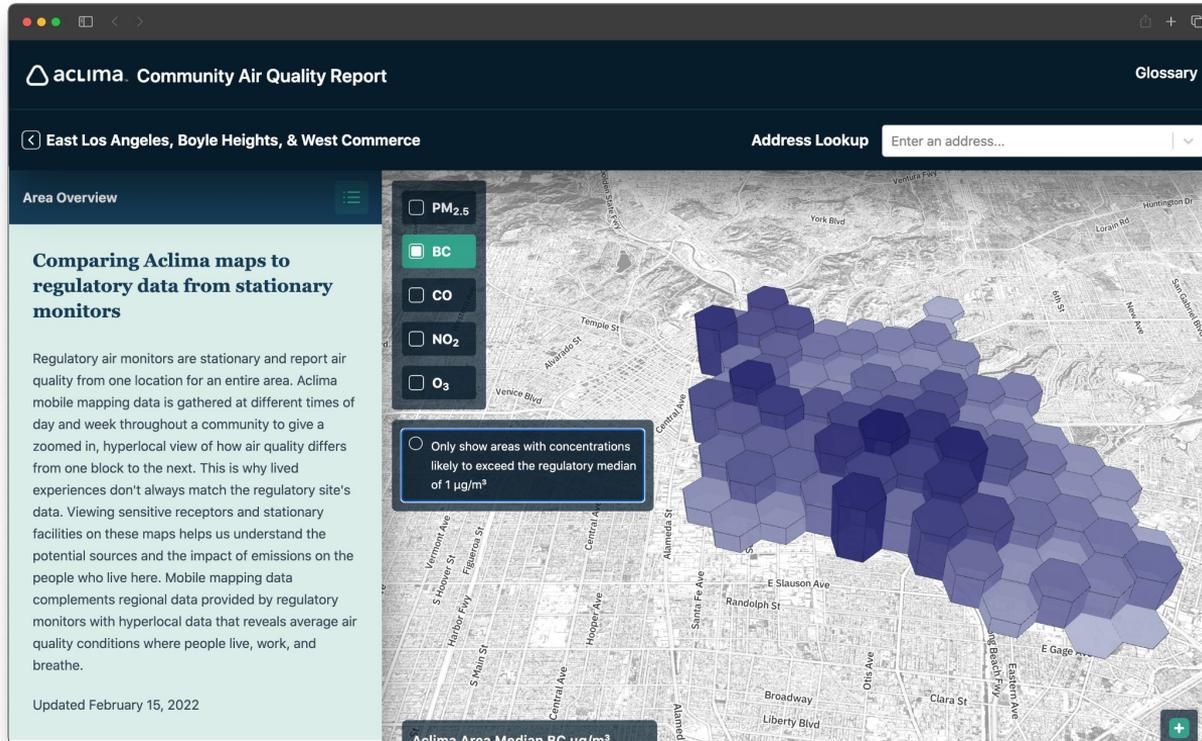
Nitrogen Dioxide (NO<sub>2</sub>) ..... 15.0 ppb

Black Carbon ..... 1.2 µg/m<sup>3</sup>

Carbon Monoxide (CO) ..... 0.5 ppm

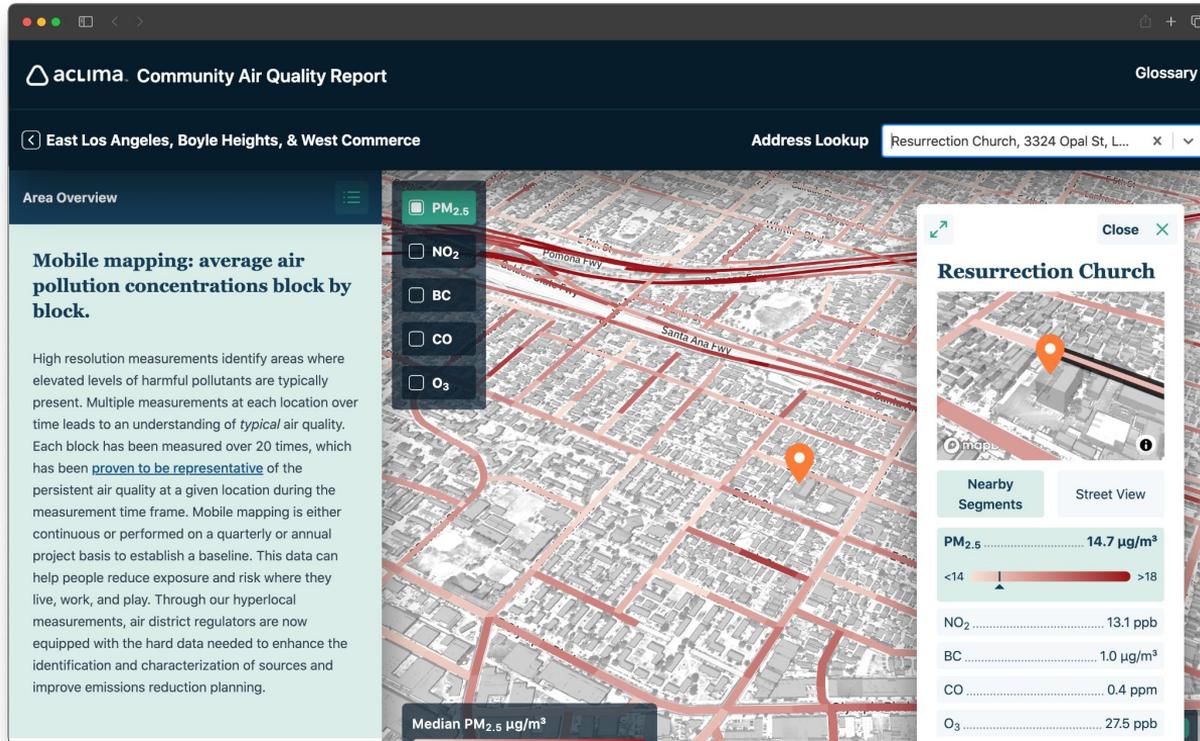
# Regulatory Comparison

Mobile mapping data complements regional data provided by regulatory monitors with hyperlocal data that reveals average air quality conditions where people live, work, and breathe.

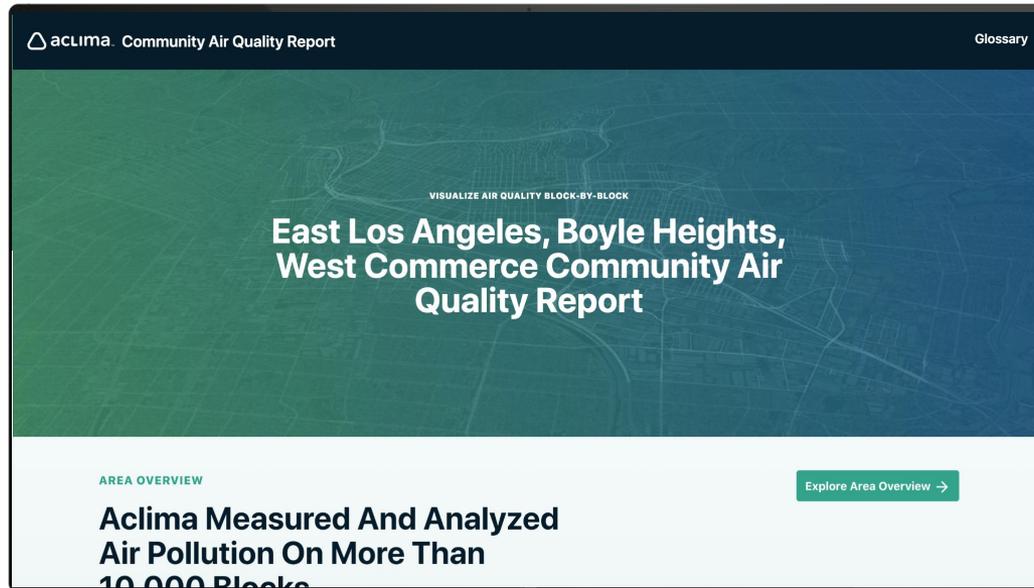


# Address Lookup

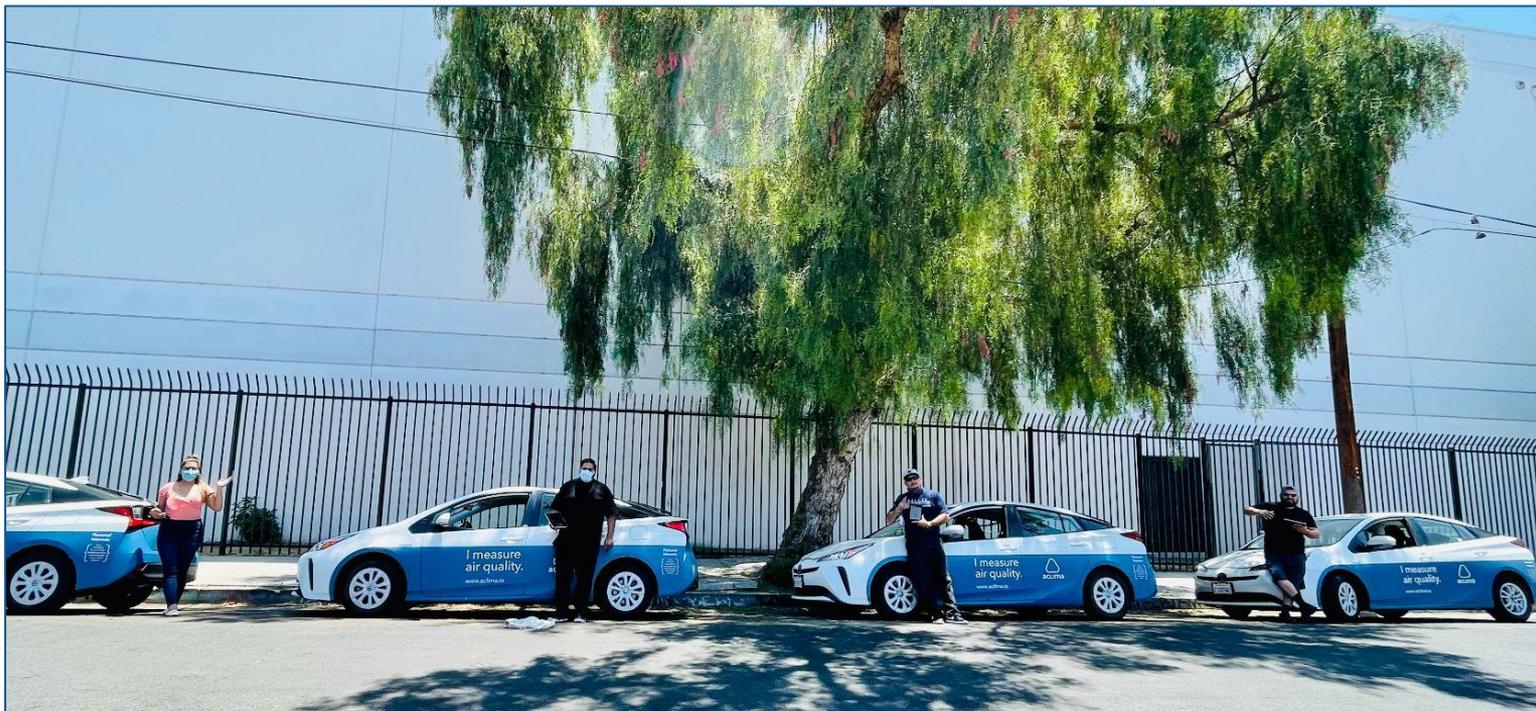
Generate a detailed air quality report for any address within this measurement area.



Available online beginning February 17, 2022:  
<https://aq.aclima.io/ca/elabhwc>



## Gratitude to our amazing East LA-Boyle Heights-West Commerce Data Collection Team!



## Deep-Dive Workshops & Feedback Sessions

*We know that this is a lot to digest, and we would love to have an opportunity to hear **your** feedback.*

***Email [communities \[at\] aclima.io](mailto:communities@aclima.io) and Scott ([scott.andrews \[at\] aclima.io](mailto:scott.andrews@aclima.io)) if you would like to participate in a deep-dive workshop with our team and to let us know if there are any additional data layers or other information we could include to make the tool more useful for your needs.***

An aerial photograph of an industrial or commercial district, overlaid with a semi-transparent green filter. The scene shows a street with several vehicles, including a white pickup truck and a blue car. Buildings with corrugated metal roofs and signs for 'CRAIG & GREEN' and 'QUALITY RENTALS' are visible. In the background, there are more industrial structures and a tall chimney stack. The text 'THANK YOU.' is centered in a large, white, sans-serif font.

THANK YOU.