

PORTABLE AIR MONITORING PROJECT



In October 2021, the Sacramento Metropolitan Air Quality Management District (Sac Metro Air District) and the City of Sacramento partnered together on a new air quality project to provide real-time local air quality information in underserved communities in the city. The project was supported by a one-time investment of the Sacramento City Council to advance the City's near-term climate action priorities, as outlined in the 2021 Climate Implementation Work Plan.

200 Portable Sensors

The Sac Metro Air District distributed 200 portable air quality sensors to eligible residents and businesses in underserved communities disproportionately affected by air pollution as well as schools within the city. The real-time air quality data collected from these sensors is available on the AirNow fire and smoke map at fire.airnow.gov.



Innovative Street-Level Monitoring

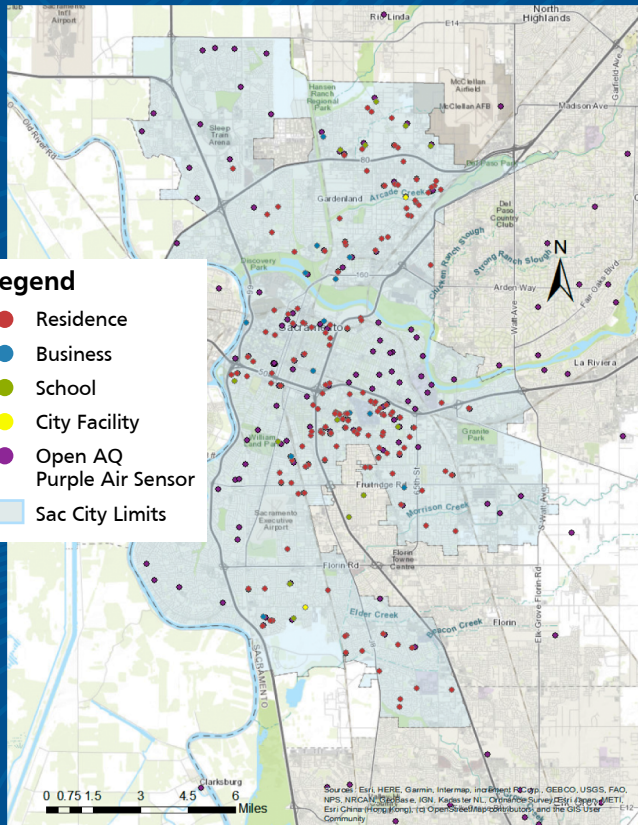
The project included a new point-in-time community-wide air quality comparison using innovative street-level technologies. This was performed by an on-road vehicle temporarily equipped with scientific pollution measurement tools. Information collected can be used by the City and its partners to inform future land use decisions and air quality improvements.

Community Outreach

The Sac Metro Air District and the City of Sacramento created materials in multiple languages to conduct outreach and identify potential sensor recipients throughout the city. The Air District is working to create additional air quality education materials focusing on how to use sensors, access and interpret data, and how residents can best use the information to protect their health.



WORKING TOGETHER FOR CLEAN AIR & A LOW-CARBON FUTURE FOR ALL



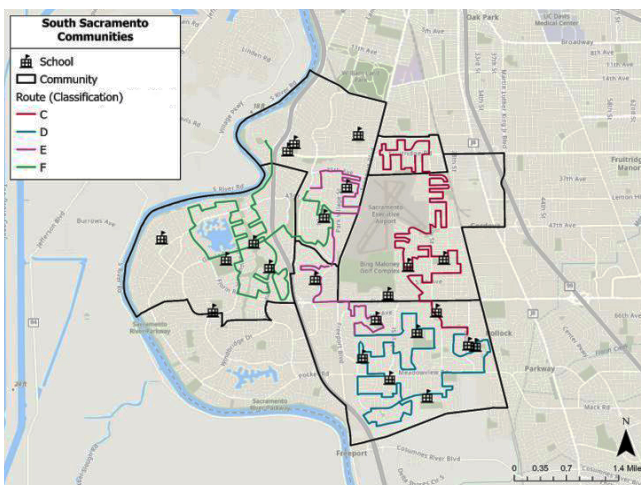
EXPANDING SACRAMENTO'S AIR MONITORING NETWORK

Through this project, the Sac Metro Air District and the City of Sacramento have expanded Sacramento's air monitoring network to include data from 200 new portable sensors in underserved communities. Community members can use air quality information from the sensors to inform their daily activities.

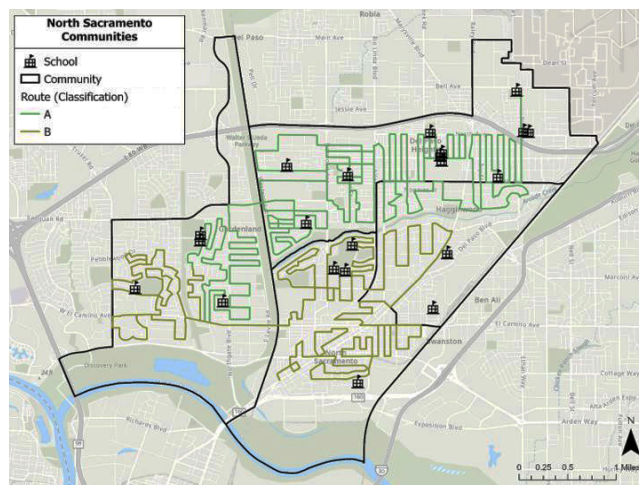
THIS MAP SHOWS THE TOTAL COVERAGE OF AIR SENSORS DEPLOYED THROUGH THIS PROJECT AND PRE-EXISTING PURPLE AIR SENSORS.

Monitoring Air Quality Street-by-Street

In February and March 2023, the Sac Metro Air District and its partners conducted innovative street-level monitoring using a van equipped with sophisticated air monitoring equipment. The van collected air quality data by driving specific routes throughout North and South Sacramento neighborhoods over several weeks. Monitoring measured ground-level ozone, particulate matter, nitrogen oxides, black carbon, and selected volatile organic compounds.



SOUTH SAC COMMUNITIES DRIVING ROUTES



NORTH SAC COMMUNITIES DRIVING ROUTES

Get an overview of this innovative street-level air monitoring project by scanning this QR code to watch a short video.

