



Truck Traffic, Railyards & Warehouses Monitoring

Monitoring & Analysis Division

Truck traffic, railyards, and warehouses are important sources of particulate matter (PM), black carbon (BC), ultrafine particles (UFP), and nitrogen dioxide (NO₂) and were identified as an air quality priority in the San Bernardino, Muscoy (SBM) community.

Working very closely with the Community Steering Committee (CSC), South Coast AQMD staff developed the following Community Emissions Reduction Plan (CERP) and Community Monitoring Plan (CAMP) strategy to address this air quality priority and to support efforts that reduce exposure to air pollution.

Stationary Monitoring

- Stationary air measurements of diesel exhaust markers (e.g., PM, BC, UFP, and NO₂) are conducted at a monitoring station in SBM community
- Data provides near real-time information about pollution levels in the community and are used to track concentration trends



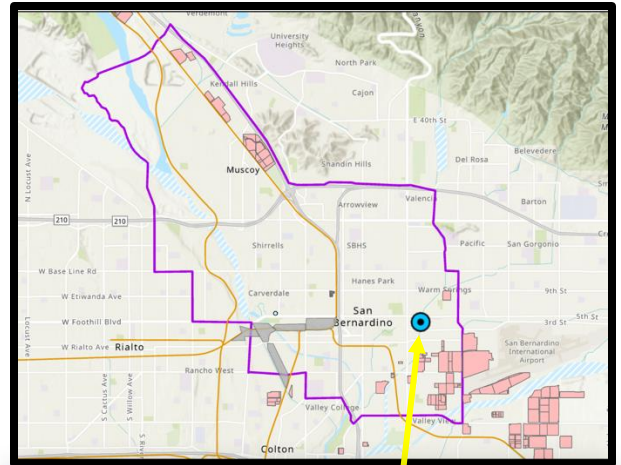
Mobile Monitoring

- South Coast AQMD and its contractor (Aclima) conducted comprehensive mobile measurements of diesel exhaust markers (e.g., PM, BC, UFP, and NO₂) within the SBM community
- Data was used to identify areas with persistent elevated levels of diesel exhaust markers



Inform Exposure Reduction Efforts

- Monitoring data confirmed that most of the schools that were selected for the air filtration project based on CSC inputs were in fact located close to I-215 freeway, where levels of diesel exhaust tracers are typically higher



San Bernardino
Air Monitoring Station

Continuous measurements of
PM_{2.5} and PM₁₀, NO₂, BC, and UFP
June 2019 to Present

Mobile Monitoring



Diesel PM
Mobile Platform

- August 2019 through March 2021
- 17 survey days



Aclima
Mobile Platform

- July 1 through September 30, 2021
- Surveys performed 24-7 throughout the entire community