

INCIDENT RESPONSE OVERVIEW AND EFFORTS RELATED TO 2025 LOS ANGELES WILDFIRES

Governing Board Meeting, April 4, 2025

TERRENCE MANN

DEO, Compliance & Enforcement

NAHAL MOGHARABI

ADEO, Communications

SARAH REES, Ph.D

DEO, Planning, Rule Development, & Implementation

JASON LOW, Ph.D

DEO, Monitoring & Analysis Division





- Robust agency-wide approach
- On standby, ready to deploy
- Air quality incident and/or agency request for assistance
- "Secondary Responders"
- Resource intensive After hours and weekends
- In addition to regular responsibilities





Chiquita Canyon Landfill

Common Response Activities:

- Respond to public complaints
- Air measurements and laboratory testing of airborne contaminants
- Meteorological analysis and modeling
- Develop communication and outreach strategies

Protect the Public!

PHASES OF INCIDENT RESPONSE



ASSESSMENT

- Air Quality Incident
- Executive Briefings
- Response/Safety Evaluation
- EO approval



DEPLOYMENT

- Inspectors Go On-Scene
- Interface/Integrate with Command Structure
- Offer Agency Support



MONITORING

- Deploy Equipment
- Review Data in Context
- Potential Health Impacts
- Reevaluate Deployment

THE INCIDENT COMMAND SYSTEM (ICS)

An Incident Command (IC) or Unified Command (UC) is a standardized emergency management framework that enables a coordinated response to an incident through the integration of personnel, equipment, procedures, facilities, and communications.

Common Acronyms: ER, IMT, JIC, PIO, SO, PHAU, OSC, CP/ICP



CAL FIRE/Riverside County Fire Department

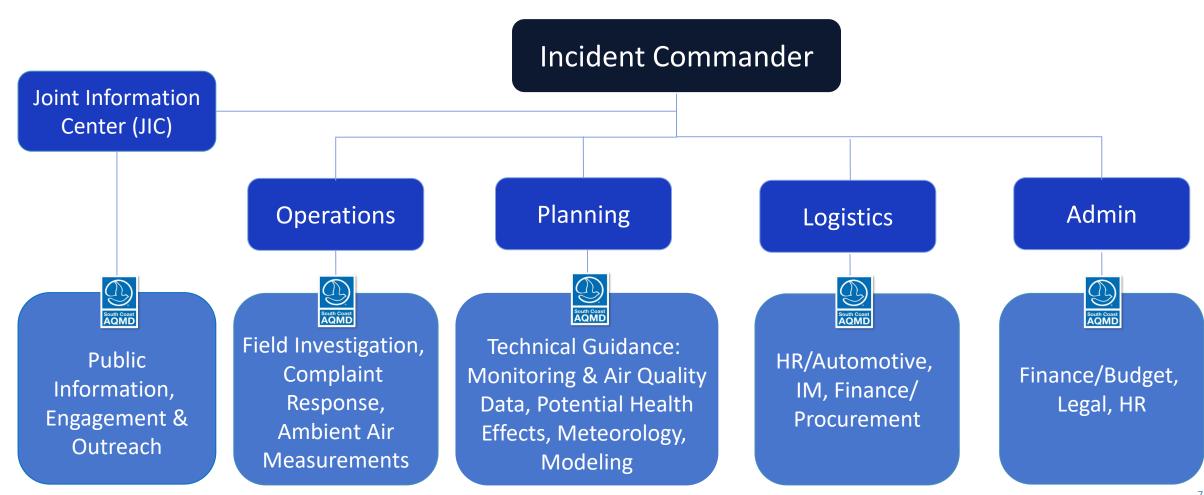
HAZMAT - 7:41 pm Harvill Av X Oleander Av, North

directions, South of Van Buren and North of Ramona Expressway. More information will be posted as it

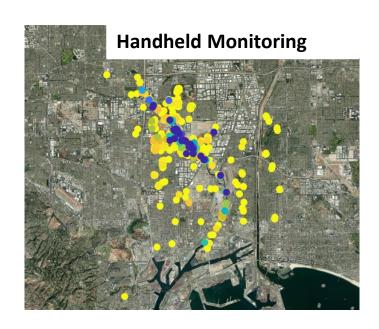
of Perris. Firefighters have responded to an unidentified leak in the area. I-215 closed in both

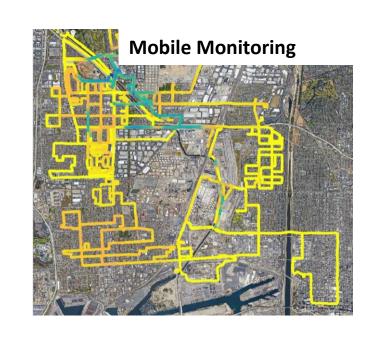
becomes available. #OleanderIC

THE INCIDENT COMMAND SYSTEM (Cont.)



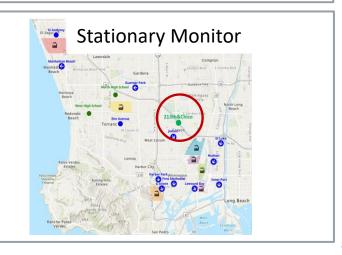






INTERAGENCY COLLABORATION

DOMINGUEZ CHANNEL ODOR EVENT



INTERAGENCY COLLABORATION (Cont.)

Federal













State



Geologic Energy Management



































COMMUNICATIONS

IMPORTANCE OF THE PUBLIC INFORMATION OFFICER:

Trained Staff

Integrate with Joint Information Center

Accurate & Timely Information

Communications Plan & Key Messages







Public Perception Media Coverage Adapt Messaging





Message Consistency Record Keeping

Agency Collaboration

Prevents Conflicting

Information



Joint Information Center



Media
Social Media
Infographics
Public Meetings

Simple Accurate Reliable





Timely
Easy to Understand
Public Health





2025 LOS ANGELES WILDFIRES

- Eaton and Palisades fires began January 7
 - Smoke
 - Windblown ash
 - Air Toxics from burned structures
- Unique Response
 - Large Population Impacted
 - Multiple Incident Commands
 - Overlapping efforts
 - Confusion about air toxics and air quality index



LA WILDFIRES: COMMUNICATIONS

- IC/JIC Integration
- Stakeholder Outreach:
 - Elected Officials
 - Community Meetings
 - Townhalls
- Content Development
 - Webpage
 - Press Releases
 - Infographics

South Coast AQMD dfire Response

AIR QUALITY INCENTIVE PROGRAMS

RULES & COMPLIANCE

PERMITS

2025 Wildfire Response

WEBCASTS, &

TECHNOLOGY ADVANCEMENT

RESOURCES

MEETING

TOWN HALLS



PALISADES

Submit questions at: TinyURL.com/PostFire-Palisade





Post-Fire School Impact

EATON

Submit questions at: TinyURL.com/PostFire-EatonSchools 26

5:30 PM



LA COUNTY POST-FIRE AIR, SOIL, AND WATER ASSESSMENT PLAN

Submit questions at:

27

THURSDAY 6:00 PM

mation, visit:



wildfireliaison@aqmd.gov

During the wildfire recovery process, remaining ash and debris can affect air quality.

By moving quickly to remove wildfire debris from residential proper.

South Coast AQMD is supporting ongoing federal, state and local efforts in response

to the Los Angeles Wildfires. We have issued Executive Orders to allow additional use

of emergency standby generators and are providing support and technical guidance

its safe disposal, federal, state and local experts are working to min impacts. For local property owners who choose to opt out of the go removal program, South Coast AQMD requires that the debris be te presence of asbestos before being removed, according to the procedour dedicated webpage.

Our deepest sympathies and condolences go out to everyone impact devastating fires.

Eaton Air Monitoring

for cleanup efforts.

Palisades Air Monitoring Mobile Air Monitoring

Air monitoring sites were chosen based on first survey results, clean and schools), meteorological conditions, and access to power and se help evaluate potential health impacts to communities close to clear the vicinity of staging areas and truck routes.

UPCOMING WEBINAR

Understanding Air Quality After the LA Fires

Please join local, state, and federal agencies for an informative webinar on air quality impacts in the wake of the Los Angeles wildfires. This important event will provide critical information about recovery operations, air quality concerns and monitoring, and public health impacts. Experts will also discuss available resources and steps individuals can take to protect themselves.

Monday, February 10, 2025 6:00 p.m. - 7:00 p.m. PST Join Webinar: bit.ly/LAfiresAQ

Registration not required Spanish translation available





South Coast AQMD

IN THE NEWS



What areas are affected? As the fires continue

About 17 million people living acros this weekend? dust advisories issued for the three Management District.

The smoke advisory was expected t in effect until late Wednesday as gu fires and further worsen air condition

The worst conditions were in the vigray smoke. In East Los Angeles, the quality is considered to be 50 or les

Los.

A veil of wildfire smoke con

communities Friday as con

The South Coast Air Qualit

Saturday, marking the fifth

the Eaton fire in Altadena.

mountains.

The fresh air came after days of acr officials warned that conditions cou

Air quality, measured on a scale from go blazes break out.

Los Angeles residents might be breathi outside, but Dr. Scott Epstein, the air qu for the Air Quality Management Distric can suddenly change and that windblov be concerns. The lightest of winds can p areas and carry it across the county.

The New York Times

Air Quality Improve but Ash Remains a

to moderate on Monday and mostly goo County on Tuesday, according to data fr **Ouality Management District. A smoke** agency expired at 10 p.m. Sunday. Simil Wednesday, as long as wildfires do not t

Los Angeles Daily News

Why wildfire ash's impact on air quality doesn't show up o AQMD's air quality map

Story by Mona Darwish, Ryanne Mena, Los Angeles Daily News • 2mo • 🐧 3 min read

Despite Tuesday's green map from the South Coast Air Quality Management Distric Angeles County was "good," people should continue to take precautions outdoors, advisory remains in effect until Wednesday evening.

"In most situations (the AQMD map) provides the whole picture. This is sort of a uni lot of ash down at levels where people live that could pose a health issue and won't Dr. Scott Epstein, air quality assessment manager at AQMD.



Did LA fires dump ash on your home? Here's your guide to safely cleaning it up

Published Jan 17, 2025 5:00 AM

How do I clean up ash inside my home?

Scott Epstein, an air quality assessment manager with South Coast AQMD, said the overall goal when you're cleaning is to avoid stirring up the ash. For ash on the ground, that means:

- Don't sweep it dry (this will kick it back into the air)
- · Instead, lightly mist it and sweep it up or use a vacuum with a HEPA filter (most regular vacuums don't have them; they're specially sold in stores)

"A HEPA filter is designed to capture those particles," Epstein said. "Some vacuums without a HEPA filter, the small particles kind of make it back out into the air. That's sort of defeating the purpose and actually can make things worse because then you can inhale it again."













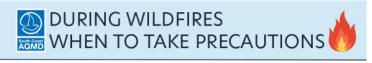




2025 LA WILDFIRES: INFOGRAPHICS







High AQI

Scan here for

more Wildfire

Smoke & Health





Visible Ash











Avoid vigorous physical activity

Ash During A Wildfire



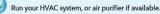
- Dust that is gray or white
- Large enough to see
- Can be the size of sand or larger Visible in the air or on surfaces
- Contains hazardous toxics

Ash particles are too large to be detected by air quality monitors and are not reflected in the Air Quality Index (AQI) map. Although the AQI may show green, hazardous ash may be present in the air

If you see ash, take proper precautions:

Wear a N95 mask.

Stay indoors with windows/doors closed.





If cleaning up ash, wear goggles, gloves, long-sleeved shirts and long pants.

More tips: www.aqmd.gov/home/air-quality/wildfire-health-info-smoke-tips





DIY AIR CLEANER DESIGNS

Good







Materials

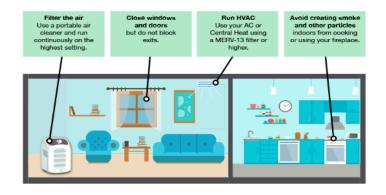
- . 20"x 20" box fan (2012 model or newer)
- 20"x 20" MERV 13 air filters (1-5 depending on design)
- . Use either clamps, duct tape or bungee cords to attach together
- . Optional: Create a shroud from cardboard to improve effectiveness

· Safety tips and instructions are available at: https://www.epa.gov/air-research/research-diy-air-cleaners-reducewildfire-smoke-indoors#FAQ



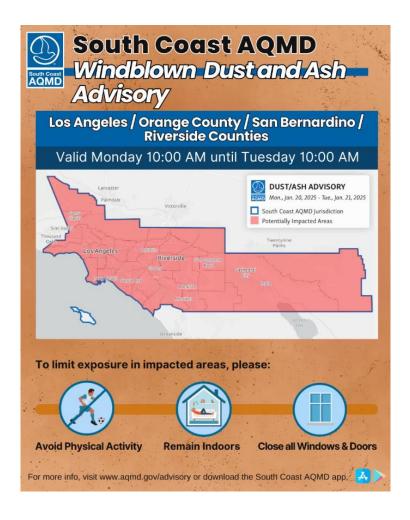
KEEP A CLEAN SPACE DURING A WILDFIRE

The most effective way to avoid harmful particles from wildfire smoke and ash is to stay indoors.



Best

AIR QUALITY ADVISORIES





FOR IMMEDIATE RELEASE: January 14, 2025 MEDIA CONTACT:

Nahal Mogharabi, (909) 396-3773, Cell: (909) 837-2431 Connie Villanueva (909) 396-2409, Cell: (909) 215-5601 press@agmd.gov

South Coast AQMD Advises Residents to take Precautions as Ash Remains a Concern due to Wildfires

DIAMOND BAR - Smoke production from the Eaton and Palisades fires has significantly decreased, as confirmed by satellite imagery, webcam visuals, and local monitors. This has been reflected in the Air Quality Index (AQI), which has been good to moderate in the South Coast Air Basin on Tuesday. With Santa Ana winds in the forecast, conditions may worsen, and the public is urged to remain cautious.

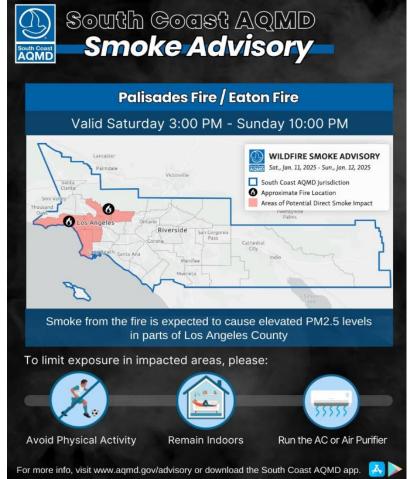
Windblown ash particles may be too large to be detected by air quality instrumentation and will not influence AQI levels. However, ash particles are typically visible to the naked eye either in the air or on outdoor surfaces. Windblown ash from burned structures contain air toxics. If you see windblown ash, take precautions to reduce exposure. In short, although the AQI may show green, it is best to reduce exposure as the forecasted high wind events can carry ash throughout the region from the active Palisades and Eaton wildfires as well as Hurst, Kenneth, Line, Airport, and Bridge fire burn scars.

The South Coast Air Quality Management District (South Coast AQMD) reminds residents to take precautions under any of the following conditions:

- If AQI is elevated
- If you see or smell smoke
- · Visible ash (even if AQI is not elevated)

PROTECT YOUR LUNGS

- Wear a mask: A tight-fitting mask (such as a N-95 or P-100 respirator mask) can provide
- Stay Indoors: Close windows and doors or find alternate shelter to avoid smoke and ash
- Limit Physical Activity: Avoid strenuous activities outdoors when smoke is present
- Use your HVAC: Running your HVAC with a clean high-efficiency filter can keep smoke and ash
- Create a Filtered Space: Use a HEPA air purifier to improve indoor air quality in a room where
- Avoid Bringing Outside Air In: If possible, do not use whole-house fans or swamp coolers that bring in outside air.



AIR POLLUTANTS OF CONCERN DURING FIRES

PM2.5/10

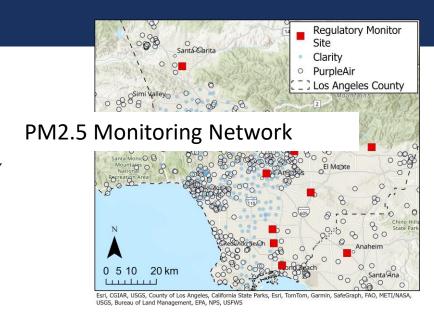
- Smoke, metals, etc.
- Small enough to be inhaled

Ash

 Large particles are visible to the naked eye; not inhalable

Gaseous air toxics

Typically present along with odorous compounds



Ash resuspension is a concern during high winds or ground activity



AIR QUALITY INDEX







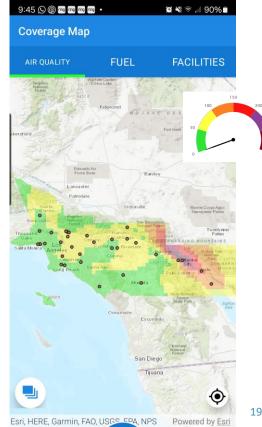
- PM 10
- Ozone (smog)
- Carbon monoxide
- Nitrogen dioxide

Inhalable criteria air pollutants





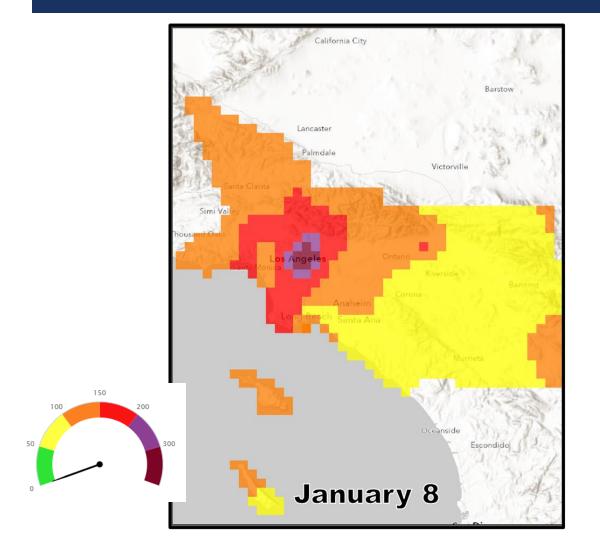
Recommended precautions based on air pollution levels

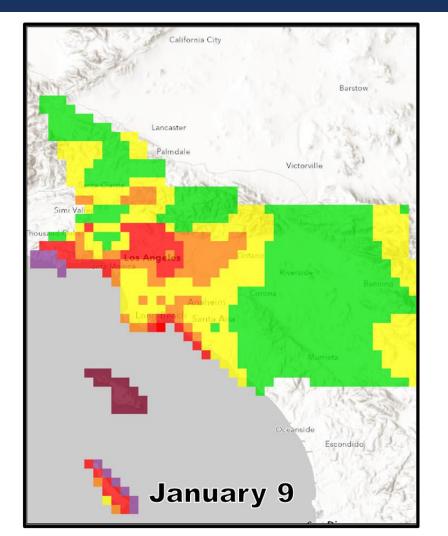


Note: other pollutants not included in AQI



AIR QUALITY INDEX MAPS DURING WILDFIRES





TOOLS TO REDUCE EXPOSURES DURING/AFTER WILDFIRES

During or after fires, take precautions when <u>any one</u> of the following occurs:

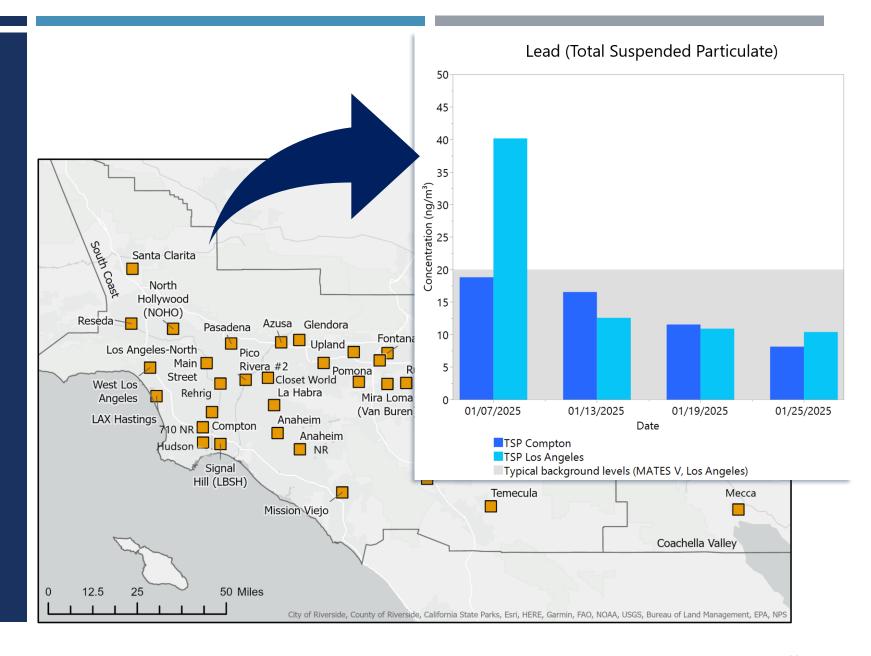
AQI does not include:

- Ash (noninhalable)
- Metals
- Volatile Compounds
- Asbestos



REGIONAL AIR MONITORING NETWORK

- ~35 Permanent Air Monitoring Stations
- Lead measurements at seven locations in the Basin
- Lead, arsenic, and other air toxic metals also measured at several Los Angeles sites
- Year-round data showing the potential impact of wildfires and other unexpected events/incidents on regional air quality



AIR MONITORING TOOLS

- State-of-the-art and researchgrade equipment
 - Mobile monitoring platforms
 - Hand-held monitors
 - Air quality sensors
 - Regulatory and non regulatory methods
- Require specific training for equipment operation, and data validation, analysis and interpretation









MOBILE PLATFORM MONITORING

Strengths

- Survey large areas and locations that are difficult to access
- No siting requirements
- Can be deployed quickly

Limitations

- Instantaneous measurements
- Must follow-up with more accurate monitoring techniques
- High capital cost
- Require specialized personnel



STAGE ONE: MOBILE MONITORING FOR LA WILDFIRES

Four Mobile Monitoring Surveys

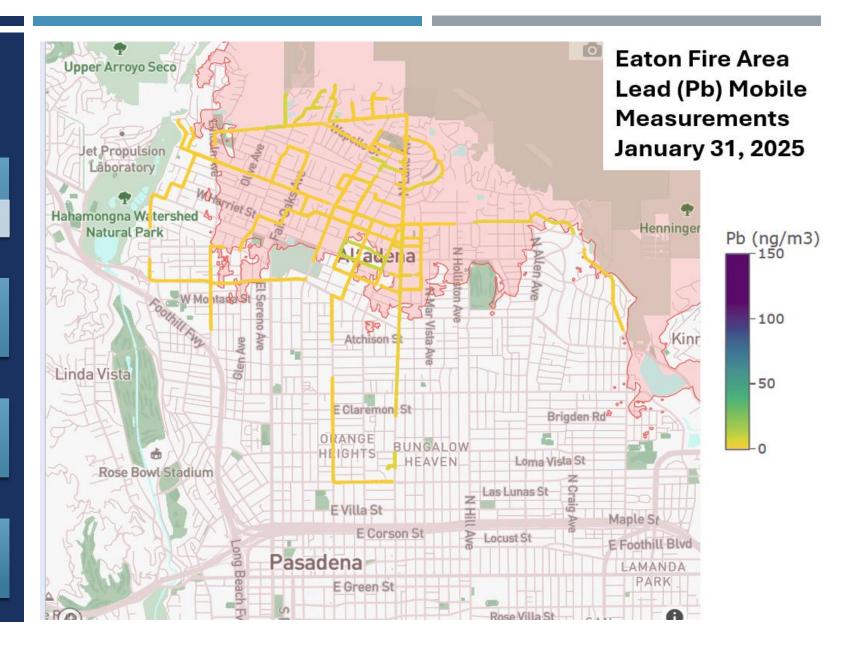
Two for Eaton

Two for Palisades

Measurements for air toxic metals and volatile organic compounds (VOCs)

Identified pollutants that may have concerning elevated levels

Results helped identify temporary stationary air monitoring locations



STAGE TWO: STATIONARY AIR MONITORING FOR LA WILDFIRES

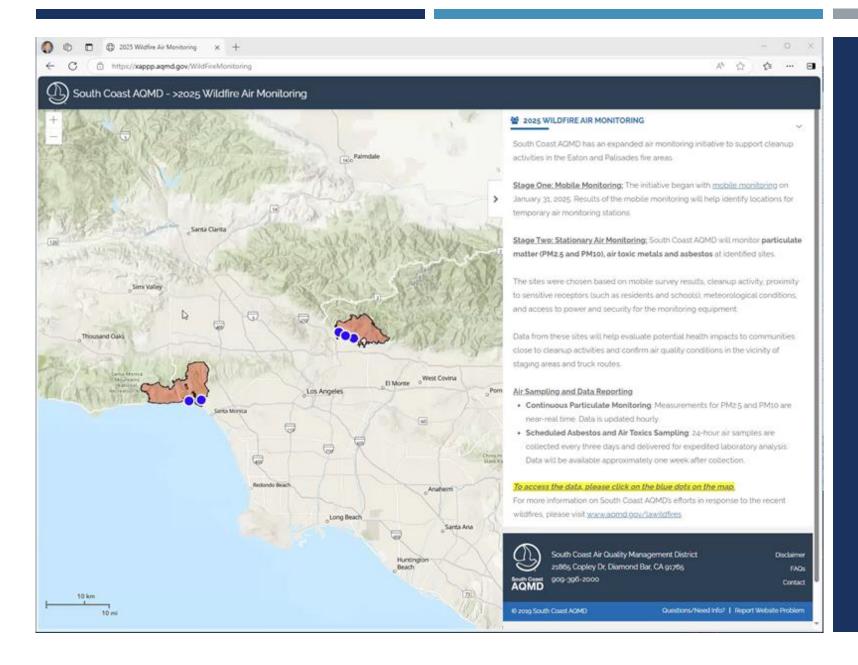


Placement of monitoring stations were determined based on:

- Mobile monitoring results
- Cleanup activity
- Sensitive receptors (residents/schools)
- Meteorological conditions

Air monitors provide data for:

- Toxic metals, including lead and arsenic
- Asbestos, and
- Particulates (PM2.5 and PM10 levels)



DATA DASHBOARD FOR LA WILDFIRE

- Interactive map to visualize and display data from STAGE 2 monitoring
- Continuous PM data reported in real-time
- Laboratory analysis results posted within a week from sampling
- Data and laboratory reports are public available

Hyperion Water Reclamation Plant (2021)

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- Orange County Oil Spill (2021)
- Dominguez Channel Odor Event (2021)
- Oleander Incident (2022)
- Chiquita Canyon Landfill (2023)
- Tustin Hangar Fire (2023)
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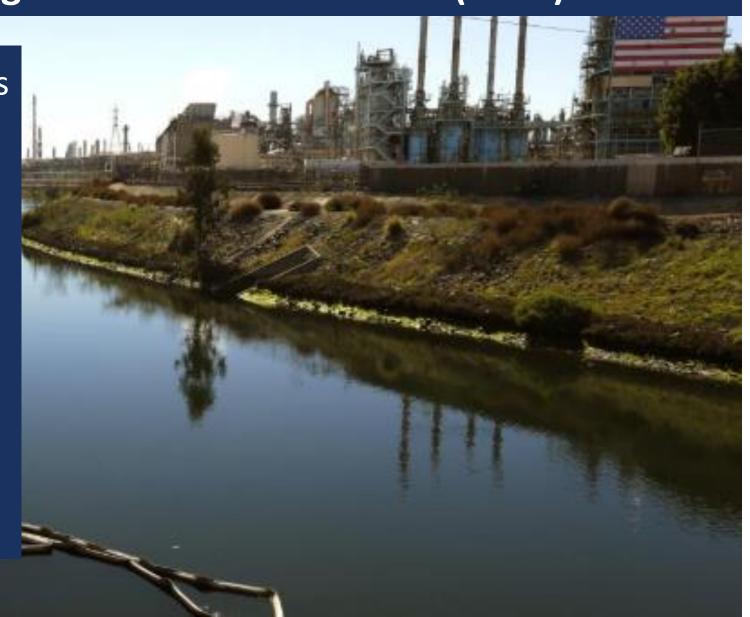
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2026?



RESOURCE CHALLENGES

- Resource Challenges
 - Equipment/Technology
 - Training (E.g. Tabletop Exercises)
 - Staffing
 - Interagency Coordination
 - Funding