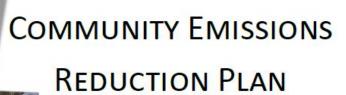
CERP IMPLEMENTATION

UPDATE – IST QUARTER 2020

Wilmington, Carson, West Long Beach January 16, 2020

ASSEMBLY BILL (AB) 617
COMMUNITY AIR INITIATIVES



WILMINGTON, CARSON,
WEST LONG BEACH

SEPTEMBER 2019
FINAL

SOUTH COAST
AIR QUALITY MANAGEMENT DISTRICT

CITY OF CARSON



CERP IMPLEMENTATION - UPDATES

Partnerships are key for a successful CERP implementation

CSC involvement and input is critical

Thank you for your continued commitment!



EXAMPLES OF CSC INVOLVEMENT







Participate in CARB and South Coast AQMD rule development process Disseminate information on how to report idling trucks in the community

Prioritize which schools receive air filtration systems







AIR QUALITY PRIORITY: REFINERIES

MICHAEL KRAUSE
PLANNING AND RULES MANAGER



RULE I 180 REFINERY COMMUNITY AND FENCELINE AIR MONITORING

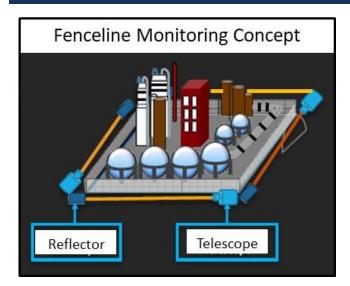


Rule 1180 mandates the implementation of real-time observations of air quality:

- At the fenceline of all major petroleum refineries in the SCAB
- In nearby communities

This will allow for quick identification of leaks and unplanned fugitive emissions of VOC and other air toxics





Fenceline Air Monitoring

- Refineries to submit a Fenceline Air Monitoring Plan in accordance with approved Guidelines
- Refineries to install and operate near real-time and continuous fenceline air monitoring systems one year after Plan approval
- Refineries to make data available to the public through a dedicated website

Community Air Monitoring

- South Coast AQMD to operate a network of air monitoring stations in accordance to a Community Air Monitoring Plan (CAMP)
- Near real-time and continuous air monitoring in communities neighboring refineries
- Data made available to the public through a dedicated website

Requirements for data notification and quality assurance/quality control for both fenceline and community monitoring







South Coast AQMD will hold community meetings to discuss and solicit feedback on the Air Monitoring Plans related to the implementation of Rule 1180. The draft portions of the Refinery Fenceline and Community Air Monitoring plans are available to view at www.aqmd.gov/Rule1180.

Carson Community Center

Thursday December 5, 2019

6:00 p.m. 801 E. Carson Street Carson, CA 90745

Spanish interpretation will be available in Carson

Joslyn Center

Thursday December 12, 2019

6:00 p.m. 339 Sheldon Street El Segundo, CA 90245

Additional language accommodations can be made with at least 7-day advance notice.

For more information, please visit the Rule 1180 website at www.aqmd.gov/Rule118 You can email your questions to Rule1180@aqmd.gov or contact Dr. Andrea Polidori, South Coast AQMD Advanced Monitoring Technologies Manager, at (909) 396-3283

21865 Copley Drive, Districted Bar, CA 91765-4178 agent-890 v 1-890-CUT-SMOG

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RULE 1180 COMMUNITY WORKSHOPS

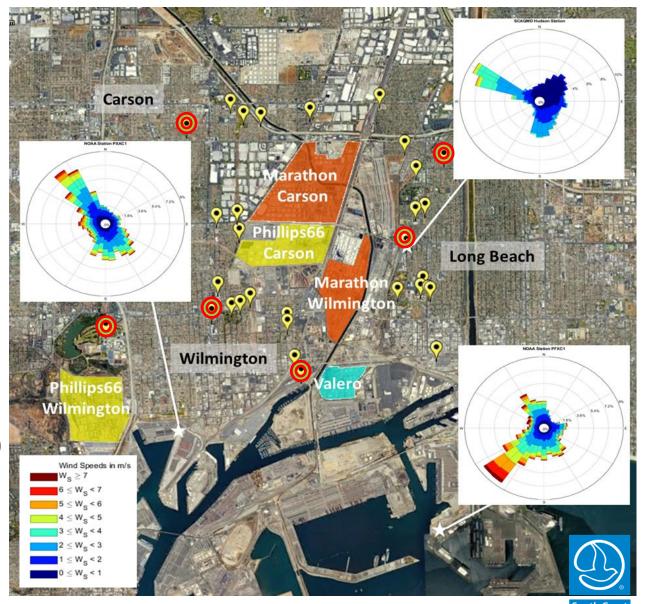
- South Coast AQMD hosted two community workshops
 - Update on the implementation of the refinery fenceline air monitoring plans
 - Collected public feedback on the draft Rule 1180 CAMP
 - For more information visit www.aqmd.gov/Rule1180



COMMUNITY SITE SELECTION CRITERIA

(WILMINGTON / CARSON / LONG BEACH)

- 5 refineries
 - Marathon Carson & Wilmington
 - Phillips 66 Carson & Wilmington
 - Valero Wilmington
- Complex wind patterns
- South Coast AQMD staff evaluated ~30 potential sites
- Six sites have been secured

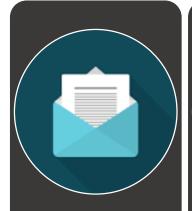


COMMUNITY AIR MONITORING TIMELINE

Community meetings Community air to collect public **Draft CAMP** Public Meetings to Community air monitoring feedback on refinery released for collect additional monitoring network fully and community public review feedback began implemented monitoring June March November December January 2019 2020 2019 2019 2020 Set-up Rule 1180 AB 1647 community air deadline monitoring network Ongoing dialogue with community groups and other stakeholders www.aqmd.gov/Rule1180

AQ Priority: Refineries

FENCELINE AIR MONITORING TIMELINE



Issued partial approval of fenceline air monitoring system for each refinery



was greatly improved from the plans released for public review in December 2018



Continued work with refineries on data presentation, notification and quality assurance

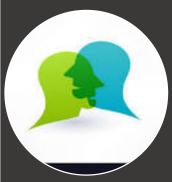


Revised fenceline air monitoring plans released for additional public review (comment period closed December 20, 2019)



Pending approval of a plan does not prevent a refinery from beginning fenceline monitoring

Marathon and Valero partial fenceline systems online on January 1, 2020



Continue working with refineries to improve and implement community notification and QA/QC

March 2019

November 2019

January 2020



AQ Priority: Refineries

0



NEXT STEPS

- Partial refinery and community monitoring have already begun
- Email announcements
 - When community air monitoring is fully deployed and implemented
 - Instructions on how to sign-up for notifications
- Continue working with refineries to improve and finalize community notification and QA/QC
- Additional information on refinery fenceline and community air monitoring can be found at www.aqmd.gov/Rule1180

Contacts

Dr. Andrea Polidori Advanced Monitoring Technologies Manager 909-396-3283

apolidori@aqmd.gov

Dr. Olga Pikelnaya
Program Supervisor
909-396-3157
opikelnaya@aqmd.gov

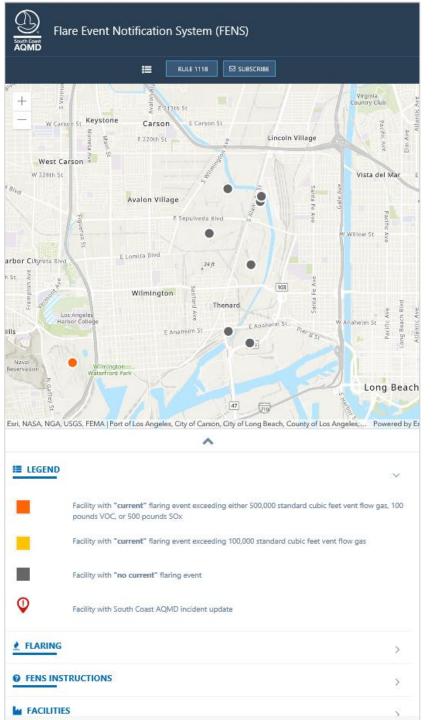


FLARE EVENT NOTIFICATION SYSTEM (FENS)

- Rule III8 requires refineries to notify planned and unplanned flare events that exceed certain thresholds
- Interested public subsequently gets notified (via e-mail, subscribe: http://www.aqmd.gov/sign-up)







FENS PUBLIC PORTAL

- A new public portal has been created and is accessible through www.aqmd.gov/FENS
- FENS includes a web-based Flare Map:
 - Displays all the South Coast AQMD facilities with flares
 - Provides current information as it is submitted to South Coast AQMD
 - Provides historical information for each facility's flaring notification submitted



E-MAIL NOTIFICATIONS



Similar to current email system, notifications will be sent for flare events exceeding rule thresholds

Those already signed up to receive flare event notifications will automatically receive email notifications in FENS

Those interested in signing up for notifications can do so by visiting: http://www.aqmd.gov/sign-up

Emails contain similar information; however, new system now requires refineries to include the <u>reason for flaring</u>



SUMMARY OF FENS FEATURES

System Feature	Current System	New Web Application
Public E-mail Generated*	✓	✓
Single E-mail Notification per Flare Event but Updates Provided via Flare Event Map	X	✓
Flare Event Map Displays all Current Flare Events	×	✓
Flare Event Map Includes Links to Facility Flare History (Past, Current, and Future Flare Events)	Public Records Request	✓
Staff is Requesting Refineries include the Reason for Flare Event in the Notification	Public Records Request	✓

South Coas AQMI



NEXT STEPS

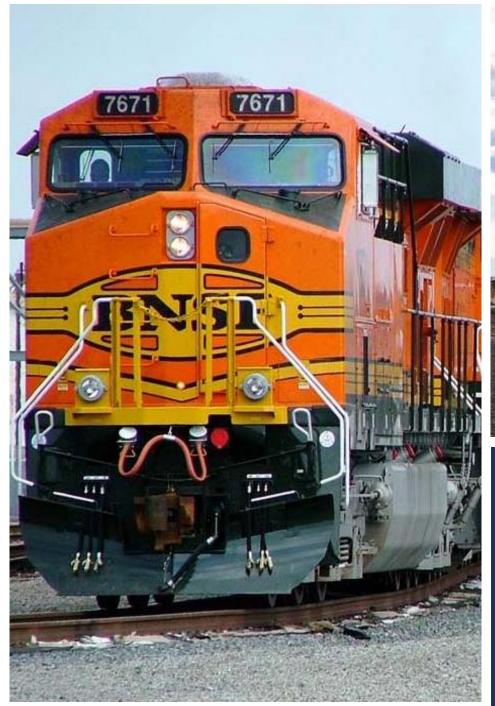
- Staff will hold meetings with members of the public after the launch of FENS to solicit input on areas of improvement
- Implementation of future enhancements plan to deploy in the fourth quarter of 2020

Contact

Michael Krause Planning and Rules Manager 909-396-2706

mkrause@aqmd.gov

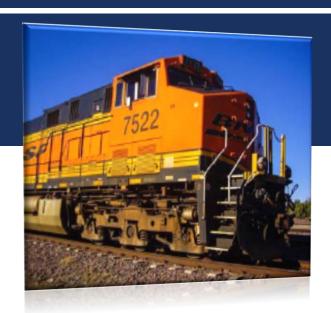






AIR QUALITY PRIORITY: RAILYARDS

DR. SARAH REES, PH.D. ASSISTANT DEPUTY EXECUTIVE OFFICER



INDIRECT SOURCE RULE - RAIL

Proposed Indirect Source Rule (ISR) for Locomotives

- CARB & South Coast AQMD jointly held community workshops to discuss concepts to reduce emissions from locomotives and railyards (Nov. & Dec. 2019)
 - Video from San Bernardino meeting available: https://youtu.be/uWrCDZEFvll

Different Authorities:

U.S. EPA



 Can regulate locomotive engine emission standards

CARB



- Can regulate locomotive activities within California
- Primary Mobile Source Authority

South Coast AQMD



 Primarily Stationary and Indirect Source Authority (facilities that attract mobile sources)



PROPOSED NEW STRATEGIES

CARB Concepts

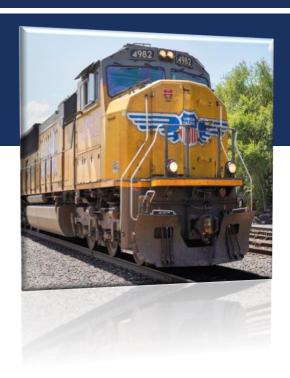
- 1. Establish a Locomotive Emissions Reduction Spending Account
 - > Funding provided by railroads
- 2. In-Use Locomotive Remanufacture Limit
 - Would allow only one remanufacture using older engine technologies
 - 3. Adopt U.S. EPA 30 Minute Idling Limit
 - ➤ U.S. EPA rule becomes enforceable by state (and potentially air districts)
 - 4. Genset Repurposing
 - Replace older switchers at smaller railroads with cleaner, used switchers from BNSF/UP

South Coast AQMD Concepts

- 1. Indirect Source Rule (ISR) to Reduce Exposures from Locomotive Maintenance and Service Emissions
- 2. ISR to Require Facility-Specific Engineering Plans for Zero Emissions Operations
- 3. New Incentive Program Focused on Cleanest Locomotive Use Rather than Locomotive Replacement
 - 4. Evaluate New Monitoring Approaches for In-Use Locomotives







NEXT STEPS - RAIL

- Continue stakeholder outreach
 - CARB plans to hold additional workshops statewide
- ISR to South Coast AQMD Board for consideration in Dec. 2020
- Air Resource Board considers locomotive rules in 2021

Contacts:

CARB Freight Team 916-322-8382

freight@arb.ca.gov
www.arb.ca.gov/rail_concepts

South Coast AQMD Ian MacMillan Planning and Rules Manager 909-396-3244

imacmillan@aqmd.gov www.aqmd.gov/fbmsm







AIR QUALITY PRIORITY: PORTS

DR. SARAH REES, PH.D.
ASSISTANT DEPUTY EXECUTIVE OFFICER

CARB OCEAN GOING VESSEL AT-BERTH REGULATION

- Proposed regulation to further reduce emissions from ocean going vessels while at berth
- Key changes to existing regulation
 - Expand applicability to additional vessel types (RoRos and tankers)
 - Container, cruise and reefer vessels covered under existing regulation
 - Flexibility in emission control technologies
 - Shore power, capture and control systems, alternative fuels, on-board technologies
 - Additional compliance options (terminal/vessel incident events, remediation fund)
 - To take effect January 1, 2021





SOUTH COAST AQMD PORTS MOU

- South Coast AQMD Governing Board directed staff to pursue Memorandum of Understanding (MOU) approach for marine ports
- Contractual agreement between South Coast AQMD and Ports of Los Angeles and Long Beach to reduce emissions
- Based on the 2017 San Pedro Bay Ports Clean Air Action Plan (CAAP) measures
- MOU measures to quantify emission reductions from implementation of the CAAP



DRAFT MOU SCHEDULES



I - Drayage Trucks

Implement Clean Trucks Program

2 - Cargo Handling Equipment (CHE)

 Accelerate Zero Emission (ZE) and Near Zero Emission (NZE) CHE deployment with a 100% ZE CHE goal by 2030

3 - Ocean-Going Vessels (OGV)

Reduce OGV emissions through new and enhanced incentive programs:
 Vessel Speed Reduction, Green Ship Incentives and Clean Ship Program

4 - Harbor Craft

Develop incentive program to upgrade harbor crafts with cleanest engines

5 - Locomotives

 Increase on-dock rail cargo moves to 35% and seek to utilize cleanest locomotives



AQ Priority: Ports

CLEAN TRUCKS PROGRAM

- Only CAAP measure in the MOU with potential SIP creditable emission reductions in 2023
- Truck rate (\$/TEU) will be charged on trucks with loaded containers at port terminal gates
- Revenues collected will be used to fund truck replacements with clean trucks (zero and near-zero emission trucks)







AQ Priority: Ports

25 AQN



SOUTH COAST AQMD'S ENFORCEABLE COMMITMENT

- Commit to achieve projected NOx reductions in 2023
- Monitor implementation of the CAAP measures in the MOU based on annual reports submitted by the Ports
- Report to EPA on implementation of SIP creditable CAAP measures and actual emission reductions achieved
- Make annual reports and relevant data publicly available
- Adopt and submit substitute measure to U.S. EPA in the event of any shortfall through public process



MOU TENTATIVE DEVELOPMENT TIMELINE



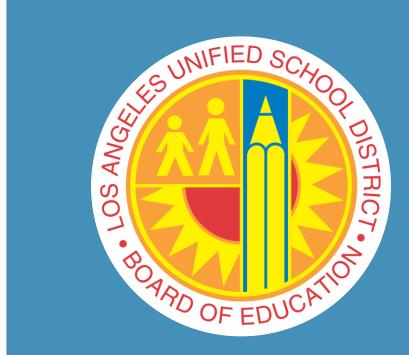
Milestone	Date
Ports MOU Working Group Meeting #4	Feb 2020
Mobile Source Committee Meeting	Spring 2020
Ports Boards MOU Adoption	Spring 2020
South Coast AQMD Board Adoption	Spring 2020

Contact

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zpirveysian@aqmd.gov







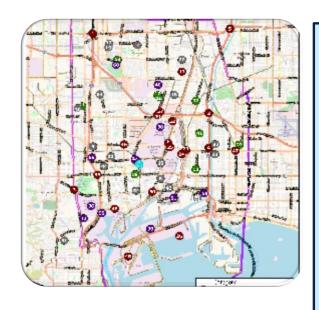


AIR QUALITY PRIORITY: SCHOOLS, CHILDCARE CENTERS, HOMES

NICOLE SILVA PROGRAM SUPERVISOR



REDUCE EXPOSURE HARMFUL AIR POLLUTANTS



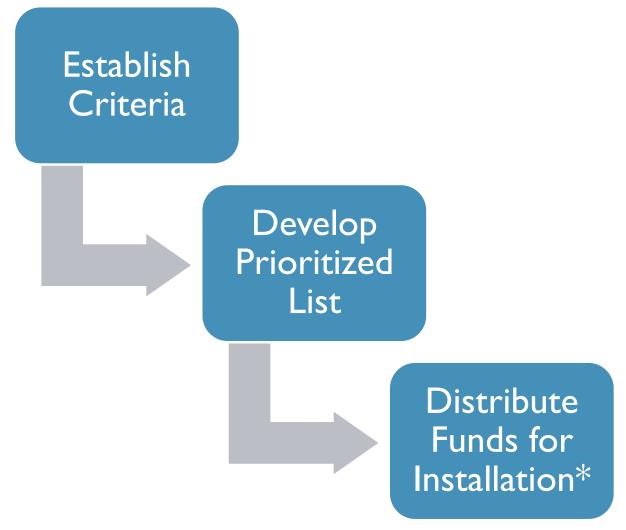
Reduce Exposure to Harmful Air Pollutants at Schools (Chapter 5g, Action 2 of the CERP)

- Continue installation of air filtration systems at schools identified by the CSC
- Priority given to schools near truck routes, railyards and/or major freeways
- Explore opportunities for funding of filtration systems and filter replacements



AQ Priority: Schools

AIR FILTRATION INSTALLATION PROCESS



*Installation of air filtration systems is dependent on funding criteria, potentially affecting the order of the prioritized list.



PURPOSE OF DEVELOPING A PRIORITIZED LIST

- To seek community input on school site selection within the CERP boundary
- Reduce the time necessary for site selection as funding becomes available

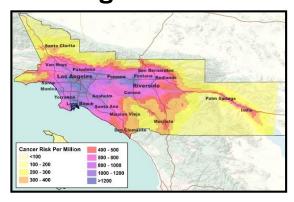
Continue to demonstrate the need for additional funding



PRIORITIZATION FOR AIR FILTRATION SYSTEMS

Some public school districts use the following criteria or information to prioritize school locations in greatest need of air filtration systems:

Existing Criteria:



Multiple Air Toxics Exposure Study (MATES) III - 2008



Proximity to Major Stationary Sources of Air Pollution

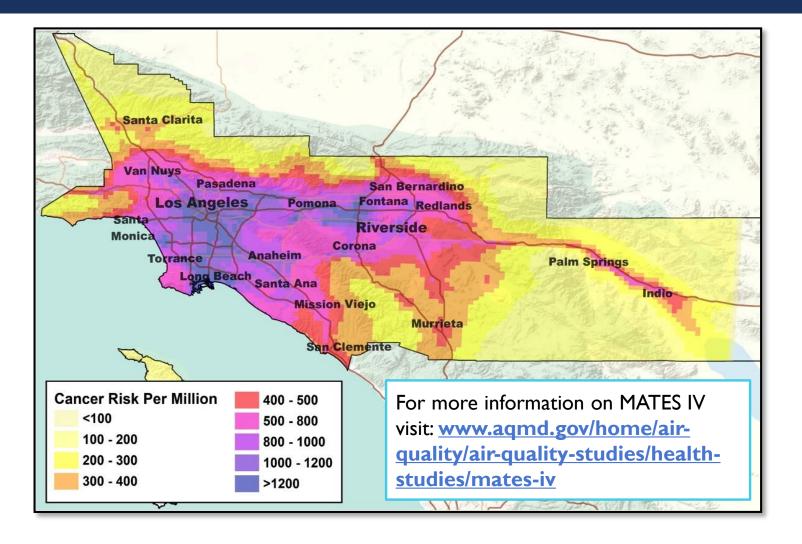


Proximity to Freeways



AQ Priority: Schools

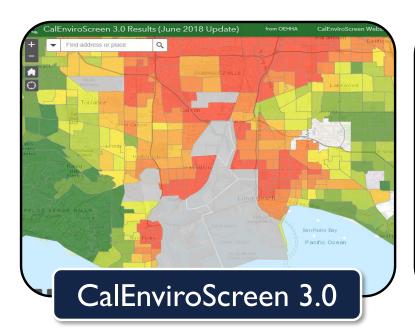
MULTIPLE AIR TOXICS EXPOSURE STUDY (MATES)



PROXIMITY TO SOURCES OF AIR POLLUTION OR **FREEWAYS**



ADDITIONAL PRIORITIZATION CRITERIA



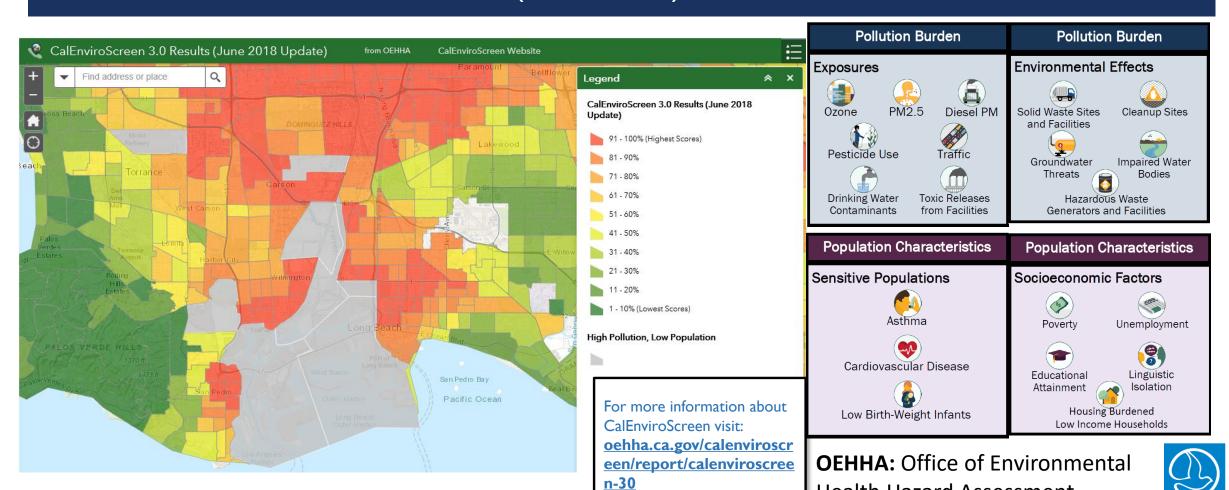






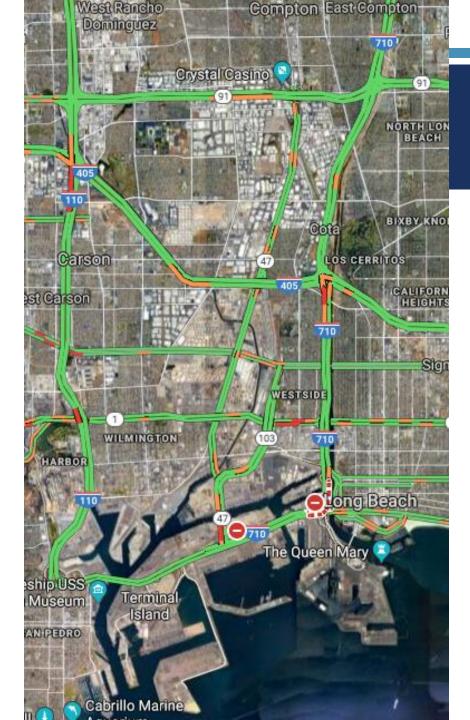
CALENVIROSCREEN 3.0 (OEHHA)

AQ Priority: Schools



Health Hazard Assessment

(State agency)



TRAFFIC CONGESTION SURROUNDING SCHOOL

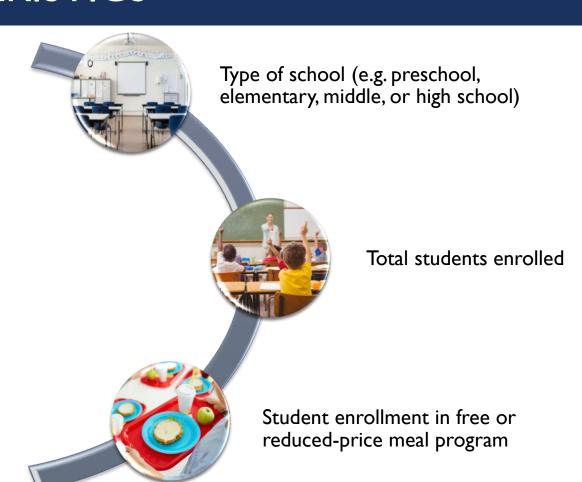






SCHOOL CHARACTERISTICS





PRIORITIZATION FOR AIR FILTRATION SYSTEMS ACTIVITY



Criteria and Brief Description	Rank # (1 – 5)*
Multiple Air Toxics Exposure Study IV (MATES IV) Focuses on the cancer risk from exposure to air toxics across the South Coast Air Basin.	2
CalEnviroScreen 3.0 Identifies California communities by census tract that are disproportionately burdened by, and vulnerable to, multiple sources of pollution.	5
CalTrans Traffic Data Traffic data can show where congestion occurs. Congestion can result in idling vehicles and create an increase in emissions around nearby schools.	3
School Characteristics (Please check the box next to the school characteristic you think should be included) ✓ Highest priority for preschools, followed by elementary, middle, then high schools ☐ Higher priority for schools that have more students ☐ Higher priority for schools with higher percent of students enrolled in free or reduced-price meal program	4
Nearby Sources of Air Pollution Please list which three sources of air pollution that are of most concern when they are near schools. For example, air pollution sources can be refineries, railyards, industrial facilities, and freeways. 1) Freeways 2) Railyards 3) Industrial Facilities	1
*There should be no duplicate values in your ranking.	



South Coast AQMD's AB 617 web page:

www.aqmd.gov/AB617

APPLICATION FEATURES

Download South Coast AQMD's Mobile App



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