



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

HYBRID LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP MEETING

Advisory Group Members

Mayor Pro Tempore Carlos Rodriguez, LGSBA Chairman (Board Member)
Supervisor Janice Rutherford (Board Member)
Felipe Aguirre
Mayor Rachelle Arizmendi, City of Sierra Madre
Paul Avila, P.B.A. & Associates
Geoffrey Blake, Metal Finishers of Southern California
Todd Campbell, Clean Energy
LaVaughn Daniel, DancoEN
John DeWitt, JE DeWitt, Inc.
Bill LaMarr, California Small Business Alliance
Rita Loof, RadTech International
Eddie Marquez, Roofing Contractors Association
David Rothbart, Los Angeles County Sanitation Districts

Friday, November 12, 2021 ♦ 11:30 a.m.

Pursuant to Assembly Bill 361, a meeting of the Local Government & Small Business Assistance Advisory Group will be held at 11:30 a.m. on Friday, November 12, 2021 through a hybrid format of in-person attendance in Conference Room GB at the South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, and/or virtual attendance via videoconferencing and by telephone.

Given health and safety concerns, seating availability will be limited and the meeting format may be changed to full remote via webcast. Please refer to South Coast Air Quality Management District's website for information regarding the format of the meeting, updates if the meeting is changed to a full remote via webcast format, and details on how to participate:

<http://www.aqmd.gov/home/news-events/meeting-agendas-minutes>

Proof of vaccination or a negative COVID test within 72 hours prior to the start of the meeting will be required for admittance into the auditorium.

Proof of COVID-19 Vaccination includes:

- COVID-19 Vaccination Record Card (issued by the Department of Health and Human Services Centers for Disease Control & Prevention or WHO Yellow Card1) which includes name of person vaccinated, type of vaccine provided and date doses administered); OR
- A photo of a vaccination card as a separate document; OR
- A photo of the vaccine card stored on a phone or electronic device; OR
- Documentation of vaccination from a healthcare provider; OR
- [Digital record](#) that includes a QR code that when scanned by a SMART Health Card reader displays to the reader: name, date of birth, vaccine dates and vaccine type

REMINDER: Mask wearing is required indoors during the meeting.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION AT BOTTOM OF AGENDA

Join Zoom Webinar Meeting – from PC or Laptop
<https://scaqmd.zoom.us/j/92459924491>

Zoom Webinar ID: 924 5992 4491 (applies to all)

Teleconference Dial In

+1 669 900 6833

One tap mobile

+16699006833, 92459924491#

Audience will be allowed to provide public comment through in-person, telephone or Zoom connection during public comment period.

PUBLIC COMMENT WILL STILL BE TAKEN

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't Code Section 54954.3(a)). All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes each.

CALL TO ORDER

ACTION ITEMS (Items 1 through 3):

1. Call to Order/Opening Remarks
(No Motion Required)
*Mayor Pro Tem. Carlos Rodriguez
Committee Chair*
2. Approval of October 8, 2021 Meeting Minutes
(Motion Required)
[Attachment 1]
*Mayor Pro Tem. Carlos Rodriguez
Committee Chair*
3. Review of Follow-Up/Action Items
(No Motion Required)
Staff will review the follow-up/action items identified in the previous meeting.
*Derrick J. Alatorre
Deputy Executive Officer
Legislative, Public Affairs & Media*

DISCUSSION ITEMS (Items 4 through 5):

4. End-of-Year Summary Report on State Legislature's and Governor's Actions during 2021 Legislative Session
Staff will provide an end-of-legislative-year summary report on the actions of the state Legislature and Governor, including those relating to the budget and South Coast AQMD bills of interest.
(No Motion Required)
*Philip Crabbe III
Public Affairs Manager
Stacy Day
Legislative Assistant
Legislative, Public Affairs & Media*
5. The New South Coast AQMD Real-Time Air Quality Index (AQI) Map
Staff will provide an overview of the new South Coast AQMD Real-Time AQI Map
(No Motion Required)
[Attachment 2]
*Nico Schulte
Air Quality Specialist
Planning, Rule Development & Area Sources*

WRITTEN REPORT:

6. Monthly Report on Small Business Assistance Activities All
Summary of assistance and outreach activities conducted by South Coast AQMD's Small Business Assistance Office for October 2021.
(No Motion Required)
[Attachment 3]

7. Monthly Status Report on Rule 2305 Implementation: Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program All
Summary of implementation, outreach and compliance activities for September 2021.
(No Motion Required)
[Attachment 4]

OTHER MATTERS:

8. Other Business
Any member of this body, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't Code Section 54954.2)

9. Public Comment Period
At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Local Government and Small Business Assistance Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

10. **Next Meeting Date** - Friday, December 10, 2021 at 11:30 a.m.

ADJOURNMENT

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Van Doan at (909) 396-3117 or send the request to kdoan@aqmd.gov.

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Local Government and Small Business Assistance Advisory Group meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to the South Coast AQMD. Please contact Van Doan at (909) 396-3117 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to kdoan@aqmd.gov.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on Mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

A countdown timer will be displayed on the screen for each public comment. If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the “**Participants**” button on the bottom of the screen.
- A list of participants will appear on the right side of the screen. At the bottom of the list, please click on the grey “**Raise Hand**” button.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the “**Participants**” button on the bottom of your screen.
- A new screen will pop up with the list of participants. Look for the “**Raise Hand**” button on the screen and click the button.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please **dial *9** on your keypad to signal that you would like to comment



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DRAFT

LOCAL GOVERNMENT & SMALL BUSINESS ASSISTANCE ADVISORY GROUP FRIDAY, OCTOBER 8, 2021 MEETING MINUTES

MEMBERS PRESENT:

Mayor Pro Tempore Carlos Rodriguez, LGSBA Chair (Board Member)
Supervisor Janice Rutherford (Board Member)
Felipe Aguirre
Paul Avila, P.B.A. & Associates
Geoffrey Blake, Metal Finishers of Southern California
Todd Campbell, Clean Energy
John DeWitt, JE DeWitt, Inc.
Bill LaMarr, California Small Business Alliance
Rita Loof, RadTech International
Eddie Marquez, Roofing Contractors Association
David Rothbart, Los Angeles County Sanitation Districts

MEMBERS ABSENT:

Mayor Rachelle Arizmendi, City of Sierra Madre
LaVaughn Daniel, DancoEN

OTHERS PRESENT:

Mark Abramowitz
Harvey Eder
Frank Forbes
Mark Taylor, Board Member Consultant (Rutherford)

SOUTH COAST AQMD STAFF:

Jill Whynot, Chief Operating Officer
Derrick Alatorre, Deputy Executive Officer
Jason Aspell, Deputy Executive Officer
Sujata Jain, Chief Financial Officer
Sarah Rees, Deputy Executive Officer
Susan Nakamura, Assistant Deputy Executive Officer
Lisa Tanaka O'Malley, Assistant Deputy Executive Officer
Victor Yip, Assistant Deputy Executive Officer
Daphne Hsu, Principal Deputy District Counsel
Karin Manwaring, Senior Deputy District Counsel
Mitch Haimov, Senior Air Quality Engineering Manager
Michael Morris, Planning and Rules Manager
Ricardo Rivera, Senior Staff Specialist
Van Doan, Air Quality Specialist

Elaine-Joy Hills, Air Quality Specialist
De Groeneveld, Senior Information Technology Specialist
Anthony Tang, Information Technology Supervisor
Paul Wright, Senior Information Technology Specialist
Aisha Reyes, Senior Administrative Secretary

Agenda Item #1 – Call to Order/Opening Remarks

Chair Carlos Rodriguez called the meeting to order at 11:30 a.m.

Supervisor Janice Rutherford commented on the Governing Board (GB) Retreat and the presence of California Air Resources Board (CARB) members. Supervisor Rutherford learned that there may be a disconnect between CARB members and South Coast Air Quality Management District (South Coast AQMD) staff regarding activities and regulations; however, was pleased that CARB members were informed and involved in the challenges faced by South Coast AQMD, particularly with the AB617 communities.

Ms. Jill Whynot indicated that the retreat was not recorded due to technical challenges; however, all the handouts are available.

Mr. Todd Campbell asked if there are any reactions to CARB's Board Member Hector De La Torre's comment regarding low nitrogen oxides (NO_x) trucks as South Coast AQMD needs CARB's assistance with this matter. Chair Rodriguez refrained from commenting and Supervisor Rutherford agreed that the solution would be to have low emission trucks, which would get us closer to attainment.

Agenda Item #2 – Approval of August 13, 2021 Meeting Minutes

Chair Rodriguez called for approval of the August 13, 2021 meeting minutes. Ms. Rita Loof requested to amend page 4, item 5 indicating her support for Supervisor Rutherford's comments made at the Administrative Committee meeting regarding the Clean Air Program. The minutes were approved unanimously.

Mr. Harvey Eder commented on his request for records and solar renewables.

Agenda Item #3 – Review of Follow-Up/Action Items

Mr. Derrick Alatorre reviewed the follow-up and action items from the previous meeting and indicated that Ms. Loof requested to discuss with Engineering and Permitting (E&P) regarding facility names and query for ultraviolet/electron beam (UV/EB) equipment using BCAT (basic equipment) code.

Mr. Jason Aspell stated that staff closed out a public records request on May 4 that collected all active permits for UV/EB facilities in our database and E&P permitting file. Ms. Loof clarified she had made this request in December 2020 and received information that there were 108 facilities that currently had permits for UV/EB equipment. Subsequently, she submitted another request, but was informed to make a request for each facility; however, was not provided with each facility name. Mr. Aspell stated he will discuss the clarification with the records department.

Mr. Bill LaMarr expressed his concerns regarding Ms. Loof's request and make one public records request with a list of all commercial printers providing Standard Industrial Classification (SIC) codes. Mr. LaMarr suggested information be obtained independently. Ms. Loof clarified that RadTech is a non-profit organization and membership is made up of equipment manufacturers, raw material suppliers and formulators; therefore, the data collection is not a self-serving exercise and market research. Ms. Loof provided background information from 2017 regarding provisions impacting printers. Mr. Aspell indicated the information requested by Ms. Loof has been sent. Mr. LaMarr commented that Small Business Alliance represents printing industries and indicated the suppliers, manufacturer and formulators should have information on equipment sold to businesses.

Mr. Alatorre provided the next follow-up item, which was to discuss the transfer of Home Rule Advisory Group (HRAG) with Planning, Rule Development and Area Sources (PRDAS) department. It was recommended that the two advisory groups remain separate. Per the charter, HRAG reports to the Stationary Source Committee and the members are appointed by the GB. Mr. LaMarr recommended to keep the advisory groups separate, which are distinct in mission statements and charter. Mr. LaMarr added that he hopes HRAG can resume. Mr. David Rothbart agrees the groups should remain separate and asked Mr. Alatorre if he had any feedback on when HRAG would reconvene and if any GB member would volunteer to Chair HRAG. Mr. Alatorre responded he will take the inquiry to the Chair of the GB.

***Action Item #1:** Discuss with GB Chair regarding reconvening HRAG and appointing a new HRAG Chair.*

Mr. Alatorre proceeded with the next action item, which was to consult with Mr. Wayne Nastri regarding whether trade associations could be allowed to participate on the Community Steering Committee (CSC). Mr. Alatorre read CARB's adopted blueprint which indicates that the "CSC is composed of community members who live, work, or own businesses within each community. For example, community residents, small business, facility managers/workers, school personnel." It also states that "this can include the owners of the small businesses, which are important community voices, locally-based business associations such a Chamber of Commerce. The community membership must draw from workers or managers from the facility itself to keep the focus on the community." Mr. Alatorre indicated this addresses Mr. LaMarr's question about trade associations not being able to join a CSC, but are still welcome to make public comment.

Mr. LaMarr indicated he is familiar with the blueprint; however, it does not explain why the California Council for Environmental and Economic Balance (CCEEB) has a seat on the consultation group and other CSCs, which is a large business organization. Mr. LaMarr further stated that Western States Petroleum Association (WSPA), Burlington Northern and Santa Fe (BNSF) Railway, and Union Pacific are seated on a CSC, which may not have representatives that reside in the appropriate communities. Mr. LaMarr indicated that small businesses are reluctant to identify themselves in venues that may be hostile to their presence. In addition, when meetings are held during the daytime, they are during normal business hours and evenings would be a long day for these businesses. Small Business Alliance is interested in representing these businesses and industries and points of view in these communities. These businesses are as much of a community as the residents are, hiring from these communities, pay taxes, and supply revenue to these communities. Mr. Alatorre commented that this may be a consultative group, which is not the same as a CSC. The consultative/working groups are led by CARB and not by air quality districts. Mr. Alatorre further stated that representative may actually be members who work or live in these communities.

***Follow-up Item #1:** Research representatives in CSC.*

Chair Rodriguez asked Mr. LaMarr if the intent of Small Business Alliance is to participate in AB 617 meetings. Mr. LaMarr responded he brought this up in 2018/2019 to the former Chair of the GB, and asked the same question regarding participation. Mr. LaMarr received a letter to participate; however, the invitation was rescinded by South Coast AQMD due to the location of the Small Business Alliance not being in any of the communities. Not all members are within these communities, but some of them are. Some members are reluctant because of unaccommodating members; therefore, small business representation is at a minimum. Chair Rodriguez responded that if there is an inconsistency and

requested to provide comparisons in a correspondence. Mr. Alatorre indicated that the blueprint was established and adopted by CARB and recommended questions regarding trade association representation be presented to CARB. Chair Rodriguez agreed and commented that the point of distinction is if the blueprint is being followed and there is consistency in the participants.

Ms. Loof recalled the comments Mr. LaMarr made in 2018/2019 and stated support of the concept of having a seat for business organizations. Ms. Loof has participated in the CARB meetings for Environmental Justice and indicated there are no representation for the business community at these meetings. These businesses can implement the goals and visions and can provide essential feedback. The business organizations are non-profit that are national-based and not community-based; therefore, do not fall under the definition. Ms. Loof further stated that there has been discussion about providing links within South Coast AQMD's website as resources and encourages staff to work with these business organizations to enhance the list currently on the website.

Chair Rodriguez requested staff to put on the agenda the topic of participation in CSCs and to clarify the required steps, channels, and process to reform the participation requirements.

***Action Item #2:** Put on a future agenda a discussion on participation requirements on CSCs, clarify the steps, channels, and process to reform the participation requirements, and how to seek changes from CARB.*

Mr. Alatorre asked Ms. Daphne Hsu whether a letter, with the consensus of the advisory group, would have to be submitted to the Administrative Committee, then to GB, and the GB would then take a position. Ms. Hsu indicated that LGSBA reports to the Administrative Committee, which reports to the GB. Ms. Hsu stated she would have to do research as to whether or not there are other options. Chair Rodriguez commented on his interest in LGSBA having the opportunity to make a request to CARB in making an adjustment to a policy.

Ms. Loof supported Chair Rodriguez's comment and stated she agreed with LGSBA playing a more active role. Ms. Loof provided background information regarding changes to the LGSBA charter submitting a letter as a group to the Administrative Committee.

Mr. Alatorre indicated the last action item was to distribute a letter from Mr. Nastri to Environmental Justice groups about zero-emission versus near zero-emission vehicles, which was sent to the LGSBA members on October 1, 2021.

Agenda Item #4 – FY 2021-22 General Fund Budget

Ms. Sujata Jain provided an overview of the General Fund Budget detailing staffing levels, expenditures, and revenues required to maintain current program commitments.

Mr. LaMarr inquired about renovations made on "aging infrastructure" and asked what major items fall under this category. Ms. Jain responded that there is a list of items in the budget, such as the roof and atrium, which money is set aside for maintenance. Some are deferred; however, should be budgeted.

Mr. Rothbart stated there is quite a vacancy rate and indicated that it is taking years to obtain a permit. Mr. Rothbart expressed support in getting assistance for E&P. Ms. Whynot responded that we are working hard to address permitting needs and have 12 to 13 engineers starting in a few weeks.

Mr. Eder commented about COVID-19 and solar conversion.

Agenda Item #5 – Update on Proposed Amended Rule 219 – Equipment Not Requiring a Written Permit Pursuant to Regulation II

Mr. Michael Morris provided an overview of Proposed Amended Rule 219 to address mobile fueling operations and a request for amendments for UV/EB.

Ms. Loof shared her involvement with the 1998 amendments to Rule 219 and commented that technology changes quickly; however, South Coast AQMD rules do not move fast enough to accommodate new innovations. Ms. Loof mentioned that, in the past, South Coast AQMD recognized UV/EB and light-emitting diodes (LED) processes as pollution prevention. Ms. Loof stated that some policies need to be looked at the bigger picture of cleaning the air while keeping businesses in Southern California. Ms. Loof referenced a slide regarding newly configured system not qualifying for exemption under Rule 219. Ms. Loof indicated there are some systems that are now hybrid and there is an equipment being charged for the addition of UV material with no emissions when the facility was already charged for their solvent system. She supports putting limits on Rule 219 to eliminate toxic materials. Ms. Loof asked that when a facility brings in a new innovative hybrid system, not exclusively UV and EB, with a solvent component, if the UV/EB can be assessed separately from the solvent system so as not be double charged.

Ms. Susan Nakamura informed LGSBA that the working group meeting for Rule 461 and 461.1 was cancelled.

Mr. Mitch Haimov indicated that the change in emissions associated with adding UV curing component to the existing operation at Fender Guitar was zero and not the total emissions. The coating being used is non-compliant coating, which is the reason it is sent to an afterburner for control in order to comply with Rule 1136. There is no emission benefit or detriment and was an emission neutral project. Ms. Loof agreed the emissions were neutral and the difference in emission from the UV process was zero. The non-compliant material was the solvent portion vented into an afterburner to control emissions, which already has a permit.

Mr. Campbell asked if South Coast AQMD will target mobile fueling businesses. Ms. Nakamura responded that the proposed rule would apply to retail and non-retail. Staff is essentially trying to keep the non-retail very similar to the current provisions and will be further discussed. The retail portion has been the focal point and trying to address all aspects of retail. Ms. Nakamura indicated it is just for gasoline dispensing.

Agenda Item #6 – Monthly Report on Small Business Assistance Activities

No comments.

Agenda Item #7 – Other Business

Mr. Rothbart requested for a presentation on the summary of the status of Rule 317 Fee Equivalency Account Reconciliation Report and review the annual report provided by the Executive Office on where we are in compliance with the rule. As we move forward, the additional credits that have not been entered in the State Implementation Plan (SIP) have been used to come in compliance for Section 185 penalties. Mr. Rothbart asked if these items are going into the SIP, what will be remaining and will Rule 317 be functional.

***Action Item #3:** Put on a future agenda a presentation on an overview of Rule 317 Fee Equivalency Account Reconciliation Report.*

Chair Rodriguez requested, as an on-going update, to be briefed on the outreach efforts pertaining to Warehouse Indirect Source Rule (ISR). Chair Rodriguez also requested for ongoing updates on current discussion with Ports of Los Angeles and Long Beach, and the matter of the Memorandum of Understanding (MOU) under discussion.

Mr. Alatorre provided the Warehouse Actions and Investments to Reduce Emissions (WAIRE) hotline number (909-396-3140) and email address (waire-program@aqmd.gov).

Agenda Item #8 – Public Comment

Mr. Eder commented on local governments, Clean Power Alliance, climate change and solar energy.

Agenda Item #9 – Next Meeting Date

The next regular LGSBA Advisory Group meeting is scheduled for Friday, November 12, 2021 at 11:30 a.m.

Adjournment

The meeting adjourned at 1:19 p.m.



The New South Coast AQMD Real-Time Air Quality Index Map

Nico Schulte, Ph.D.

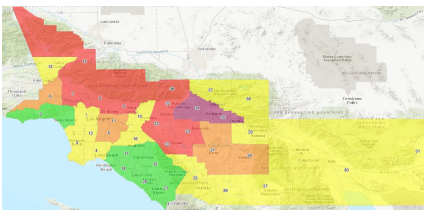
Scott Epstein, Ph.D.

Air Quality Assessment, PRDAS

1

Methods of Displaying Real-Time Air Quality Data

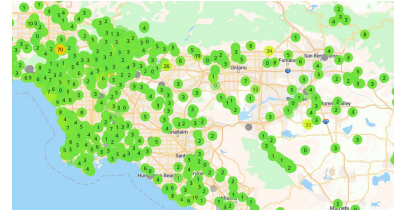
Historical "Proxy Method"



AirNow



PurpleAir



Limitations identified:

- Location of monitor that is driving an area's current AQI is unclear
- Distance-weighted interpolation doesn't account for complex terrain
- Public often looks at multiple maps to understand current air quality (PurpleAir map) and does not interpret consumer-grade sensor data appropriately
- Resolution is too large to accurately represent localized events (i.e. "Proxy")
- For maps showing point-data, some locations may have AQI values that do not consider measurements from all relevant pollutants

2

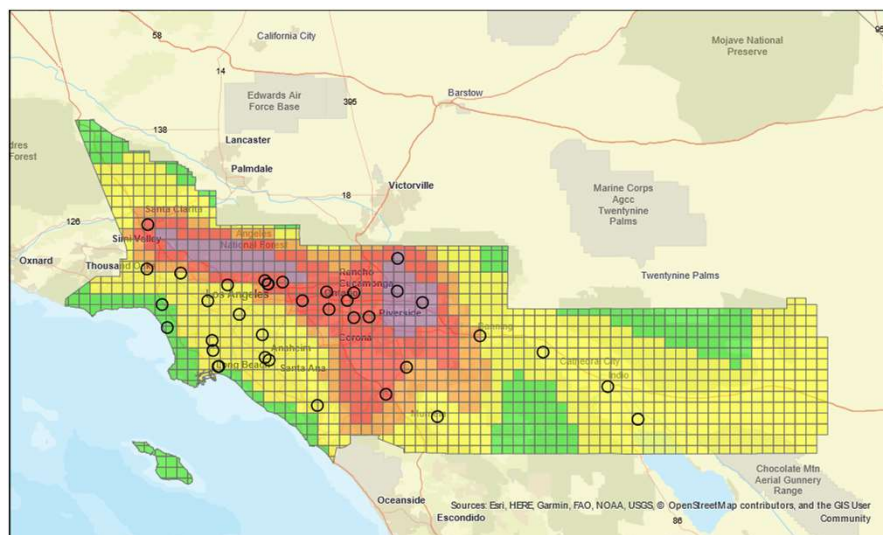
Outline

- How the AQI map works
- Treatment of consumer-grade sensors
- How the AQI map helps you use consumer-grade sensor data
- How accurate is the AQI map?

Schulte, N., Li, X., Ghosh, J.K., Fine, P.M., Epstein, S.A. **Responsive High-Resolution Air Quality Index Mapping Using Model, Regulatory Monitor, and Sensor Data in Real-Time**, 2020, *Environmental Research Letters*, 15 1040a7

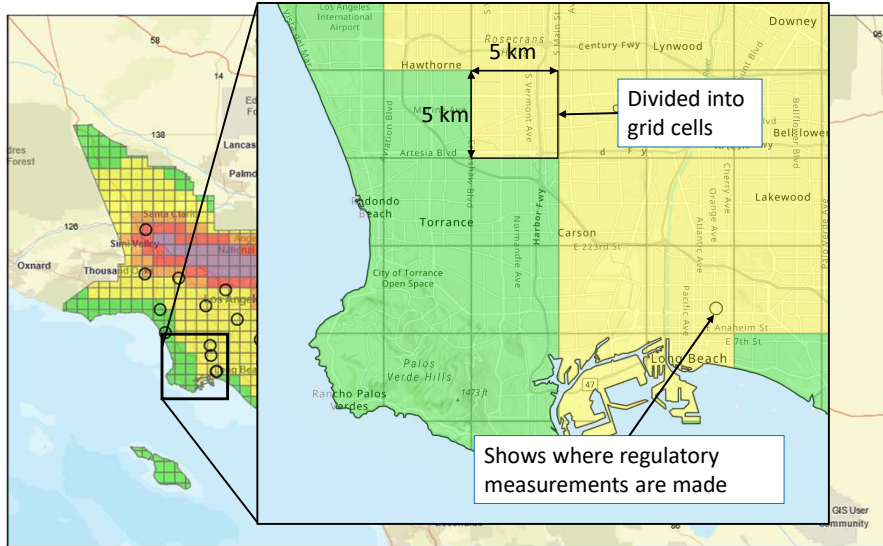
3

Real-Time AQI Map (www.aqmd.gov/aqimap)



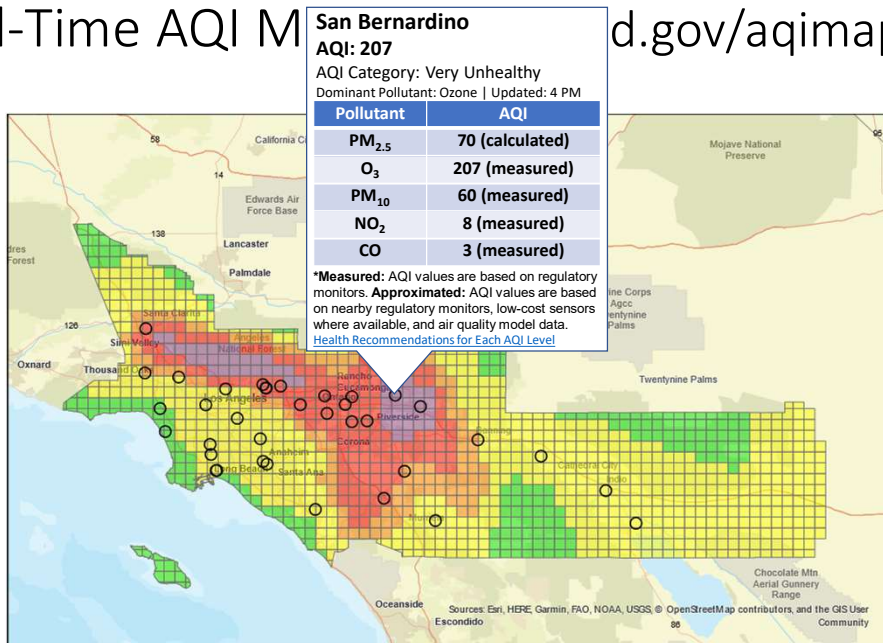
4

Real-Time AQI Map (www.aqmd.gov/aqimap)



5

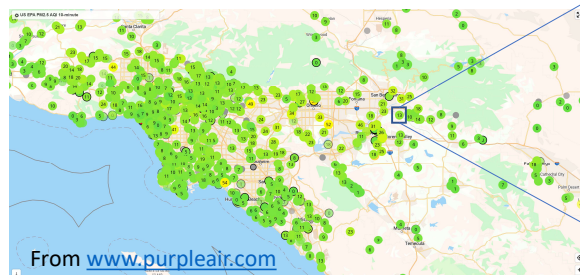
Real-Time AQI Map (www.aqmd.gov/aqimap)



6

Consumer-Grade Sensors

- About 700 PurpleAir PM2.5 sensors in 2021; Great spatial coverage
- **South Coast AQMD AQI Map** uses sensor data to fill in gaps between monitor measurements



PurpleAir Low-Cost sensor

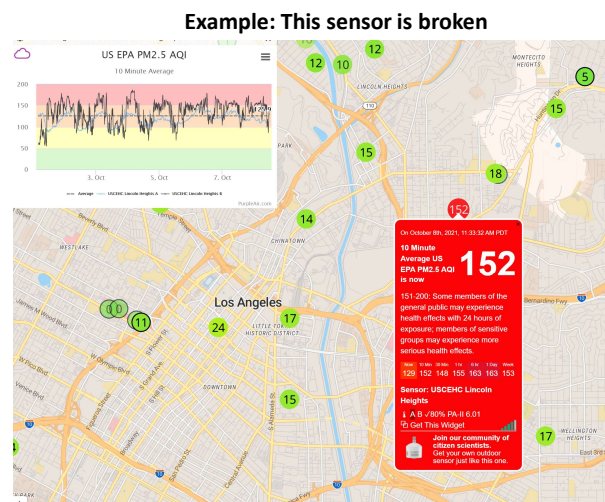


Other types of sensors are also being deployed (aeroqual AQY) and will be integrated after testing
The AQI map also uses model data

7

Interpreting Consumer-Grade Sensor Data

- Sensor data should be:
 - Representative (place sensor away from local pollution sources)
 - Calibrated/corrected (often based on colocation with regulatory monitors)
 - Reliable (remove broken sensors)
 - Averaged (1-hour averages for NowCast AQI)
- **South Coast AQMD AQI map handles these issues**



8

Treatment of Consumer-Grade Sensor PM2.5 Data

1) Quality Control PurpleAir data

By comparing the simultaneous measurements from the two channels within each sensor and applying statistical criteria



<https://notunhealthy.com>

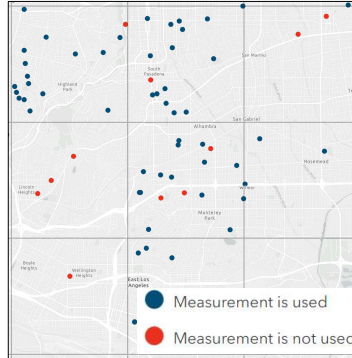
2) Calibrate PurpleAir data

Using collocated reference monitor data and correction for relative humidity



<https://www.aqmd.gov/aq-spec/>

3) Combine sensors to estimate average concentration in grid cell

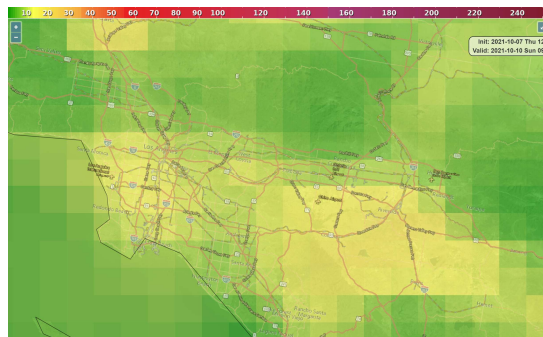


To “smooth” variation from local source impacts with non-AQMD sensors, we average at least 3 sensors in each grid cell

9

AQI Map Also Uses Model Data

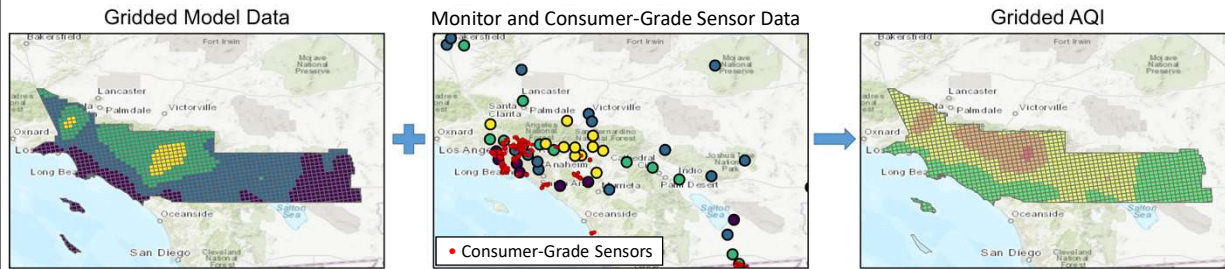
- National Air Quality Forecast Capability
 - Community Multi-Scale Air Quality model with Global Forecast System meteorology
 - National Emission Inventory 2016 (NEI)
 - Kalman Filter Analog bias correction
 - 6z/12z daily runs
 - PM2.5 and Ozone



From <https://digital.mdl.nws.noaa.gov/airquality>

10

How the AQI Map Works



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

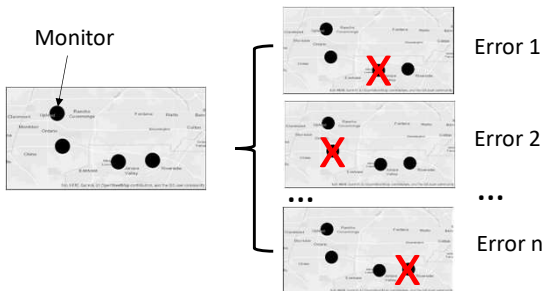
Pollutant	Method	Far from monitors	Near monitors
PM _{2.5}	Fill in gaps between monitors using model and consumer-grade sensor data	Models and consumer-grade sensor data drive concentration	Monitor data drives concentration
O ₃	Fill in gaps between monitors using model	Models drive concentration	
PM ₁₀ , NO ₂ , CO	Natural neighbor interpolation	Monitor data drives concentration	

11

11

Evaluating Performance Compared to Other Methods

Leave one out cross validation holds out one monitor at a time to estimate error



Root Mean Square Error (all pollutants)

Pollutant	Proxy	Inverse Distance Weighting	South Coast AQMD AQI Map
PM _{2.5} [$\mu\text{g m}^{-3}$]	7.6	7.73	5.94
O ₃ [ppb]	10.2	8.75	7.12
PM ₁₀ [$\mu\text{g m}^{-3}$]	34.7	36.1	33.6
CO [ppm]	0.171	0.191	0.163
NO ₂ [ppb]	7.57	6.94	6.22

IDW – Inverse distance weighting as used by AirNow maps

- South Coast AQMD AQI map has lower errors than Proxy and IDW for all pollutants used in AQI calculation
- Additional assessment conducted for PM_{2.5} data with independent data sets

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Map Performance Excels During Wildfires



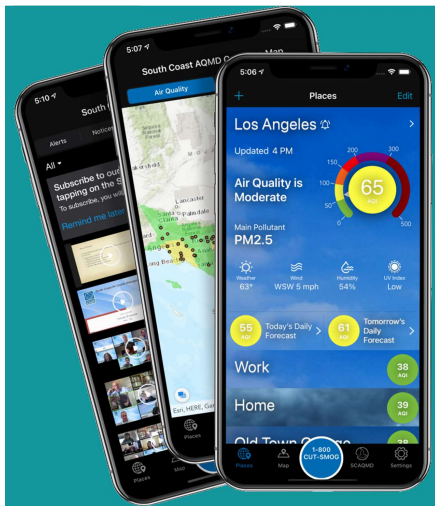
PM_{2.5} RMSE [$\mu\text{g m}^{-3}$] on fire days

Method	Proxy	Inverse Distance Weighting	South Coast AQMD AQI Map
Leave One Out Cross Validation	7.04	6.62	6.01
Gravimetric validation dataset	5.68	4.39	3.35
North Hollywood validation dataset	19.2	16.8	9.15

Proxy and Inverse Distance Weighting are other methods that have been used to make AQI maps

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Conclusions



- AQI map has high level of accuracy and avoids common public misunderstandings
- Air Quality sensors are an important tool for supplementing regulatory measurements in the AQI map
- Currently looking for additional locations to site PurpleAir PA-II and Aeroqual AQY sensors to help fill data gaps in the map!
- Data displayed on South Coast AQMD homepage and mobile app (www.aqmd.gov/mobileapp)
 - App can push notifications during periods of poor air quality

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Small Business Assistance Report on October 2021 Activities for LG&SBA Advisory Group Meeting of 11/12/2021

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Services Offered – October

■ Permit Application Assistance	207
■ Fee Review Committee Requests	1
■ Air Quality Permit Checklists Processed	85

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Permit Assistance – October

- 207 Activities Providing Help with Permit Applications. Examples include:
 - 52 *General Contractors/Consultants/Architects*
 - 22 *Restaurants*
 - 7 *Manufacturing Facilities*
 - 10 *Retail Stores*
 - 3 *Dry Cleaners/Garment Cleaners*
 - 11 *Auto Body and Repair Shops*
 - 13 *Warehouses (Storage/Distribution)*
 - 5 *Fuel Dispensing Facilities*

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Activities – October

- No on-site consultations conducted
- Event(s) Attended
 - No Events Attended

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Dry Cleaner Grants Issued (as of 10/2021)

- Professional Wet Cleaning 166
- CO₂ Machines 4
- Hydrocarbon (funds expended) 488

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Small Business Activity October 2020 – October 2021

ACTIVITY	Permit Assistance	On-Site Consultations	Variance Assistance	Fee Review Requests	Air Quality Permit Checklists
Oct-2020	280	0	0	3	84
Nov-2020	214	0	15	2	50
Dec-2020	251	0	43	2	59
Jan-2021	226	0	3	1	70
Feb-2021	179	0	1	2	62
Mar-2021	236	0	0	4	90
Apr-2021	203	0	0	2	69
May-2021	166	0	0	0	93
Jun-2021	205	0	0	0	63
Jul-2021	234	0	0	2	63
Aug-2021	202	0	0	2	68
Sep-2021	179	0	0	1	72
Oct-2021	207	0	0	1	85
TOTAL	2784	0	62	22	928

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October 2021 Report

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South Coast Air Quality Management District

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Rule 2305 Implementation Status Report: Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program

September 1, 2021 to September 30, 2021

1. Implementation and Outreach Activities:

Activity	Past Month	Since Rule Adoption
Calls and Emails to WAIRE Program Hotline (909 396-3140) and Helpdesk (waire-program@aqmd.gov)	119	658
Views of Compliance Training Videos (outside of webinars)	409	1,096
Emails Sent with Information About WAIRE Program Resources	3,753	~10,000
Visits to www.aqmd.gov/waire	2,078	~4,000
Presentations to Regulated and Community Stakeholders	8*	40

**Including Training Webinar #4, Q&A sessions at the Advanced Clean Transportation Expo and the Harbor Trucking Association's Dray Tech Conference, presentations to the AB 617 - Southeast Los Angeles CSC, Southern California Leadership Network, South Pasadena Chamber of Commerce Legislative Affairs Committee, and Thrive 90805 Resiliency and Environmental Stewardship Community Conference.*

2. Highlights of Recent Compliance Activities

Warehouse owners were required to submit the Warehouse Operations Notification (WON) through the WAIRE Program Online Portal (POP) by September 1. The WON provides building information, owner and lessee contact information, and lease duration. Staff is currently processing, validating, and analyzing these submitted reports.

As of September 30, a total of 646 WON reports have been submitted, representing 2,556 warehouses. During rulemaking, staff estimated that there could be up to about 3,300 warehouses that could be subject to the rule. Staff is reviewing the submitted data as well as 3rd party purchased data and CARB data to identify the potentially unreported warehouses. Once identified, staff will conduct targeted outreach to determine if reports should have been filed for these additional buildings and will take appropriate steps to ensure all required WON reports are submitted. Among the larger owners that potentially own 10 or more warehouses, staff has so far been able to identify that 30 out of an estimated 45 have submitted WON reports. These 30 owners are associated with more than one-third of the reported 2,556 warehouses. Ultimately, the submitted WON report information will be used to conduct targeted outreach to warehouse operators as their requirements begin to phase in.

About 62% of the submitted WON reports also included payment through the online system. About 1% were exempt from fees, and the remaining 37% have yet to submit payment. Staff is following up with monthly electronic payment reminders and will take appropriate enforcement action if fees are not paid.

3. Anticipated Activity in October

- Public Access to WAIRE Program Data – Introductory Working Group Meeting:
Wednesday, October 20, 2021