



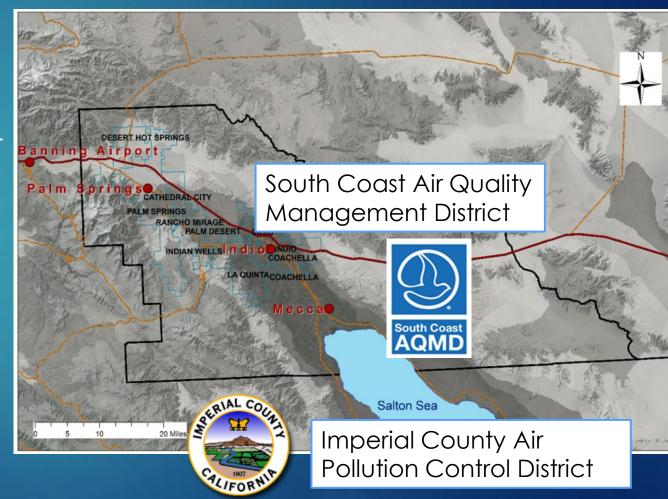
Air Monitoring and Community Benefit Programs in the Eastern Coachella Valley

- COACHELLA VALLEY EJ TASK FORCE MEETING
- DECEMBER 19, 2018
- JO KAY GHOSH, HEALTH EFFECTS OFFICER
- SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Local Air Districts near the Salton Sea



- Two local air districts serve the communities near the Salton Sea <u>SCAQMD Air Monitoring in the Eastern</u> <u>Coachella Valley:</u>
- 3 permanent air monitoring stations
- 2 stations measuring hydrogen sulfide*
- Monitoring for special circumstances – Frost Prevention Burning



Air Quality Trends

- Ozone pollution has been improving for the last couple of decades
- The Coachella Valley still does not meet the federal standards for ozone
- We're continuing to work on this through implementing our Air Quality Management Plan (AQMP)



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT



FINAL 2016 AIR QUALITY MANAGEMENT PLAN



MARCH 2017



Air Quality – How Are We Doing?

The Coachella Valley currently meets the federal standards for:

- Fine Particulate Matter (PM2.5)
- Nitrogen dioxide (NO2)
- Carbon Monoxide (CO)
- ► Lead (Pb)
- Sulfur Dioxide (SO2)

The Coachella Valley does not meet the federal standards for:

Coarse Particulate Matter (PM10), due to windblown dust events that recur in the area

Ozone (O3)

Air Pollution Monitoring near Salton Sea

(86)



+

			Tendo Tiero Tobac
The Salton Sea Hydrogen Sulfide Monitoring Sign up to receive email alerts when Hydrogen Sulfide (H ₂ S) levels reach 30 Parts Per Billion. Please select air monitoring station of interest: Near Shore Site - Alert me when H2S reaches or exceeds 30 ppb Mecca Community Site - Alert me when H2S reaches or exceeds 30 ppb		Near-Shore Site	Mecca Community Site Most Recent H ₂ S 0
		30	
		Most Recent H ₂ S	
		0.5	
Provide your email address and click subscribe	Subscribe Manage My Subscriptions	Parts Per Billion (ppb)	Parts Per Billion (ppb)
		2018-10-17 03:00 PM PDT	2018-10-17 03:00 PM PDT
La Quinta 6			
<u>0</u>	IND AVE 62ND AVE 5		Para Angel
Sath Ave	DOHNS	5 BOrcanyle Ro	ALERAL AND AND
TROUBLE COM			and and a state
Fish Traps Archeological Site	Wecca Community Site	The second second	Orocopia Mountains Wilderness
ET ARE	Reading the second seco		CAPTAGE Frances "
The she			THE PLANE
	70TH AVE SI SU SON ON SON OF A STRUCT BLVD GRAPERDUT	70TH AVE	CTC- CALLER S
5a 55	15 X104	SLVD (11)	The Call is a start of the
RUSS AND STREET	73RD AVE 86 Near-Shore Site		- A marger a
	74TH AVE	Salton SeaPARKSIDE DR State Park	
A STANDARD	Broth AVE	Salton Sea	
ANNE ST. SERVICE TO	ETTTH AVE ON BUCK	State Recreational Area	once
	-78TH AVE S	Salton Sea State Description	COLOTERD
TAN Y 23 BE	66	Recreational Area Salton Sea	10
1 Martin Contractor	81ST AVE	Salton Sea State State Recreational Area Area	
A BIN THE ST	82ND AVE		COACHEL

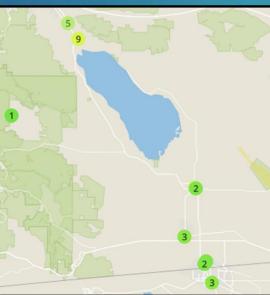
Trende

Contac

Community Citizen Science Projects

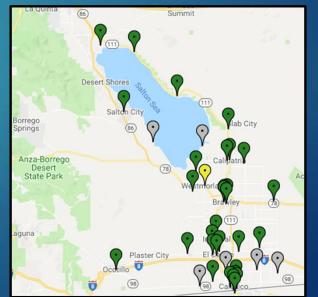


- Community air monitoring networks serve as a complement to regulatory monitors
- Increased use of "low-cost" air quality sensors improves the knowledge of exposure to air pollution at a community and individual level
- Large-scale community air monitoring networks have started in Coachella Valley
 - PurpleAir
 - Identifying Violations Affecting Neighborhoods (IVAN))



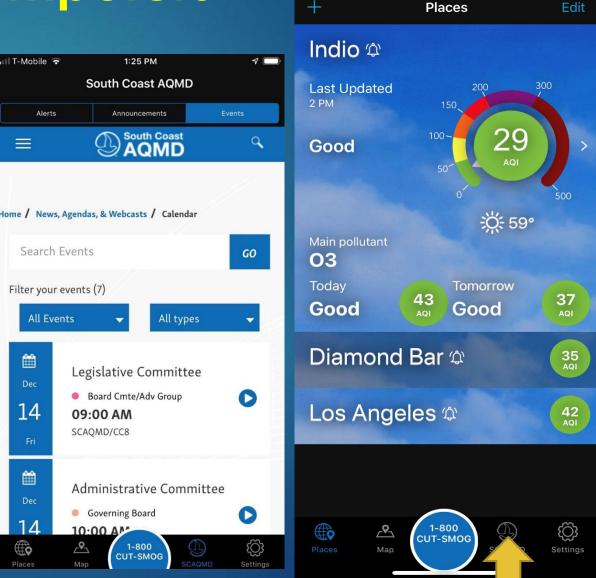
PurpleAir Network

IVAN Network



How to Get Air Pollution Information – SmartPhones and Computers

SCAQMD Phone App Current Weather and Air Quality Forecasted Air Quality SCAQMD AirAlerts (www.AirAlerts.org) Forecasts and real-time alerts Salton Sea H2S Alerts (www.saltonseaodor.org/) Real-time H2S data



Available on the **App Store**

android app on Google play

. ILLTE 🖂

How to Get Air Pollution Information – "Traditional Ways"



 Call 1-800-CUT-SMOG
Daily Air Quality Forecasts (1-800-CUT-SMOG)

> Coachella Valley Rule 403.1 High-Wind Forecasts (909-396-2399)

>Agricultural and Prescribed Burn Forecasts (909-396-3355)

SCAQMD Advisories and Press Releases – Issued for prolonged or severe air quality events

Assembly Bill No. 1318



AB 1318 (V. M. Perez) requires that funds be spent on emission reductions in the following areas:

- > At least 30 percent in environmental justice areas
- At least 30 percent on projects in close proximity to the plant

The remaining 40 percent in any location within SCAQMD's four-county jurisdiction. While not required by AB 1318, the SCAQMD Board decided in February 2012 to dedicate this entire amount to projects in the Coachella Valley.

Road Paving



Purpose: Reduce the amount of dust that is kicked up into the air from dirt roads, parking lots and construction sites



Road Paving

Three Projects:

- Torres Martinez Desert Cahuilla Indians (EJ)
- City of Desert Hot Springs
- Riverside County

Before







After

High Performance Air Filtration



<u>Purpose</u>: Reduce the exposure air pollutants indoors, especially at schools located near freeways and other known sources

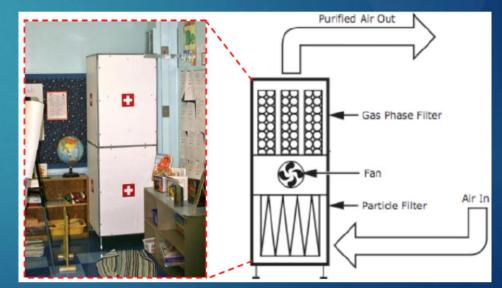
A pilot study^{*} conducted by SCAQMD in Southern California showed that air filtration technologies can remove an average of ~90 percent black carbon (BC), ultrafine PM (UFP), and PM2.5

High-Performance Panel Filte HVAC Air Handler Classroor Gas Phase Filter -- $\lambda \lambda \lambda \lambda 7$ Return Air **Register Air Purification System** Purified Supply Al

<u>Register System</u>



Stand-Alone System



*Polidori, A., Fine, P. M., White, V., & Kwon, P. S. (2013). Pilot study of high-performance air filtration for classroom applications. Indoor Air, 23(3), 185-195.

\$52.2 million in funding \$52.2 millones en fondos

AB 1318 Emission Mitigation

Mitigación de emisiones de AB 1318

2013-present

Projects - **Proyectos**

New CNG and propane vehicles Nuevos vehiculos de propano y gas natural





CV link (In progress) (En progreso)



Solar Installations Instalaciones Solares

Fueling stations abastecimiento



Home weatherization

Climatización de casas

Road paving and landscaping - Pavimentación y jardinería.





School filtration

Filtros en escuelas







Sunline Transit Agency **Riverside County**

Border Valley Trading

College of the Desert

St. Elizabeth's of Hungary **Food Pantry**



Location Ubicación

City of Coachella

Coachella Valley USD

City of Palm Springs

Palm Springs USD

Angel View (Palm Springs) **City of Desert Hot Springs**

Find Food Banks

Desert Sands USD (La Quinta) Torres Martinez Desert Cahuilla Indians (Thermal)

Sun Power Solar (Palm Desert)

Other activities



 Salton Sea Management Program
Specialized support to CARB Salton Sea air measurements
Agricultural burning enforcement and methods evaluations

Continue to engage with these communities for future efforts (i.e. potentially AB 617)