

air pollution control district santa barbara county

LOW-COST SENSORS UPDATE

Board of Directors Santa Barbara County Air Pollution Control District

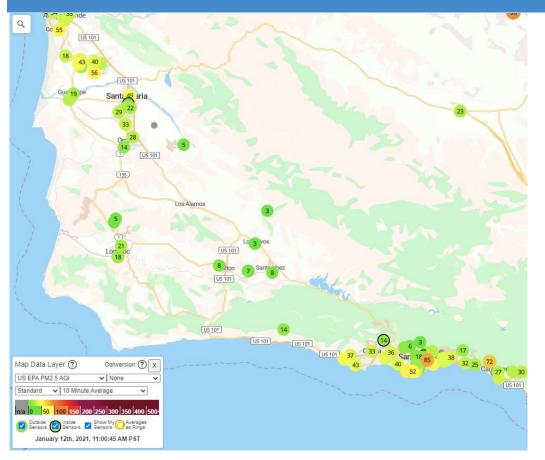
Our Mission: To protect the people and the environment of Santa Barbara County from the effects of air pollution.

Aeron Arlin Genet Director / APCO

Desmond Ho / Air Quality Specialist January 21, 2021



BACKGROUND



- Important education tool
- Interest in low-cost sensor and local air quality conditions due to increasing wildfire frequency
- Provide air quality trends in areas without established air quality monitors



SENSORS



PurpleAir Sensor: Cuyama Elementary



Clarity Sensor: Goleta Monitoring Station



Incorporates:

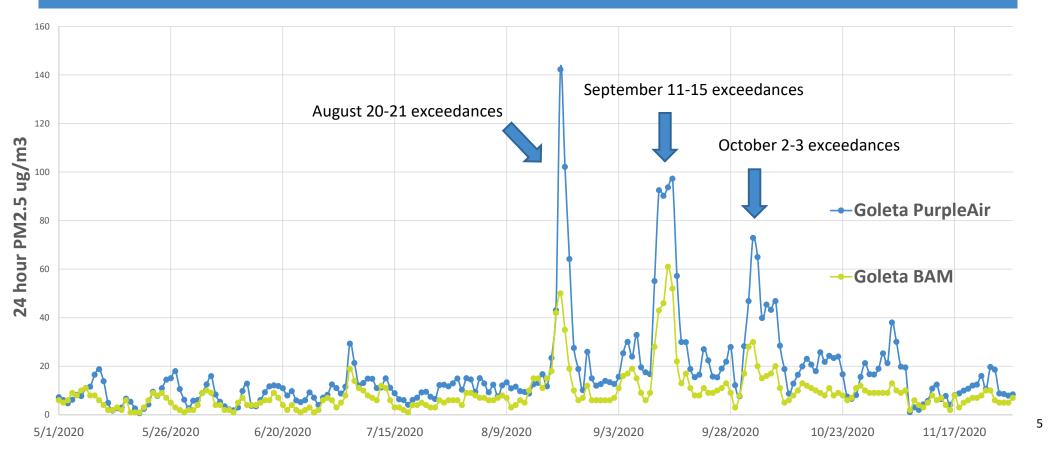


- **A** Temporary monitors
 - PurpleAir sensors
- Regional correction factors for PurpleAir

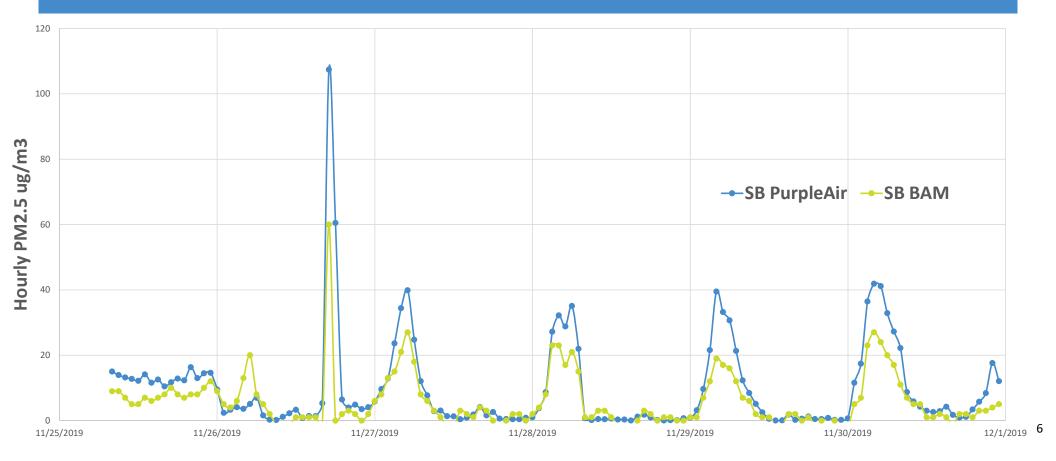


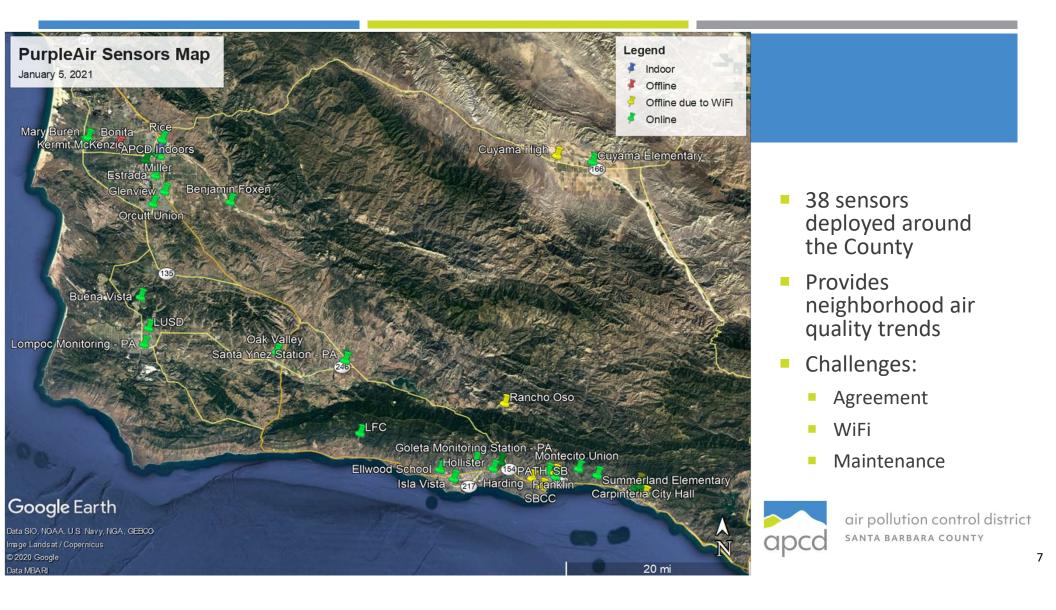
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GOLETA PURPLEAIR VS. BAM



CAVE FIRE (NOV 2019) PURPLEAIR DATA





PROPOSED AGREEMENT AMENDMENT

Two minor changes:

- Liability clause: staff recommends the removal of the monetary liability clause as staff works with site host to find a safe and secure location for the sensors
- Duration of agreement: staff recommends the replacement of the six-month agreement with an indefinite agreement until either party terminates with a 30day notice



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MOVING FORWARD



- District will continue to use PurpleAir sensors to provide air quality trends
- PurpleAir sensors can serve as back-up information
- Continue to work with schools, public organizations, and other community partners



RECOMMENDATIONS

- Receive this update
- Approve the attached amended "Agreement for Low-Cost Air Quality Sensor"
- Delegate authority to the Air Pollution Control Officer to make minor updates to the Agreement subject to concurrence by District Counsel, Risk Management, and Auditor Controller



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CONTACT INFORMATION

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