

**Project Title:**

Enhancing Air Quality Monitoring and Response.

**Applicant Information:**

Tehama County Air Pollution Control District  
1834 Walnut St  
Red Bluff, CA 96080  
Contact Person: Joseph Tona, Air Pollution Control Officer  
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**Amount of Funding Requested: \$139,940****Project Period:**

Fiscal Year 2024/2025 – 2028/2029

**Existing air pollutant monitoring stations in Tehama County:**

Red Bluff - Walnut St (site ID: 061030007)

**Project Description:**

The proposed project includes two components: 1) Enhancing Air Quality Data Collection, and 2) Operation of Monitoring Network in Tehama County.

The Inflation Reduction Act Disadvantaged Communities Map identifies the entirety of Tehama County as disadvantaged. By funding the purchase of two (2) AQLite analyzers and necessary equipment for remote operation, as well as providing support for the monitoring network operation, we aim to enhance air quality monitoring and response capabilities in all areas of Tehama County, including areas lacking electrical infrastructure. This is crucial for managing the increasing frequency of wildfires and other exceptional events. This investment will enable the Tehama County Air Pollution Control District (District) to monitor pollutants, respond to complaints, and more effectively safeguard public health, particularly in vulnerable communities. With a total funding request of \$139,940, we aim to sustain these essential services over the next five years, supporting the health and well-being of all residents in Tehama County.

**1. Enhancing Air Quality Data Collection**

The District proposes to purchase two (2) AQLite analyzers capable of monitoring PM2.5, carbon monoxide, nitrogen oxides, VOCs, and ozone. In addition to the monitors, the District requests the necessary equipment for remote operation, enabling these devices to function independently of electrical infrastructure in remote areas of Tehama County.

These monitors would augment our current station at Red Bluff - Walnut St (Site ID: 061030007), enabling the District to deploy equipment in response to exceptional events such as wildfires. The suite of sensors available would allow the District to better identify the impacts of events and support the exceptional event process, which is likely to become a more frequent occurrence with the recent strengthening of the annual PM standard.

**2. Monitoring Network Operation**

The District requests funding to support staffing expenses for the existing site, as well as the development of portable monitors for exceptional event monitoring. Currently, the District employs an Air Pollution Control Specialist and a supervisor responsible for operating the monitoring network and reporting data. Air monitoring is a critical tool for improving air quality, protecting public health, and ensuring compliance with enhanced ambient air quality standards. Due to California's budget deficit, the District's operational revenues are decreasing, which may lead to underfunding of monitoring operations. The District seeks additional funding to sustain the monitoring network operation for a five-year period.

This funding request of \$85,081 will help sustain the District's air monitoring network, which plays a crucial role in reporting air quality data to ensure compliance with ambient air quality standards and protect public health. The funds will also support ongoing improvements to our data acquisition system and website, enhancing public access to air quality information. This accessibility is a vital part of our exceptional event mitigation plan, ensuring that the community remains well-informed and can take appropriate actions during air quality emergencies. A detailed breakdown of the funding request is included in the attachment.

Budget Details of Proposed Funding Request

**Component 1**

<b>Component</b>	<b>Model</b>	<b>Description</b>	<b>Unit Price</b>	<b>Quantity</b>	<b>Costs</b>
Portable Air Monitoring	AQLite	Portable Multipollutant monitor <ul style="list-style-type: none"> <li>• O3</li> <li>• PM2.5</li> <li>• CO</li> <li>• NOx</li> </ul>	\$15,000	2	\$30,000
		Equipment to support remote operation: <ul style="list-style-type: none"> <li>• Batteries</li> <li>• Solar</li> <li>• Miscellaneous supplies</li> <li>• Data Cloud Access</li> </ul>	\$2,270	2	\$4,540
Outdoor Surveillance Field Camera	Campbell Scientific CCFC-R2	Outdoor observation camera	\$6,210	2	\$12,420
Flow Validation/calibration for Teledyne T400	Alicat MWB-1SLPM-D/GAS	Flow validation/calibration unit to verify, calibrate, or calculate residence time for Teledyne T400.	\$2,000	1	\$2,000
Campbell Scientific Weather Station		Wind Speed, WT/RH, Solar Radiation, Barometer, Datalogger, enclosure and other support materials.	\$5,899	1	5,899
				<b>Total</b>	<b>\$54,859</b>

**Component 2**

<b>Components (choose all that apply)</b>	<i>Personnel Position(s)</i>	Fully Burdened Rate per hour	% FTE spent on grant activities	Subtotal	
Program and Policy Development	Air Pollution Control Officer	\$108.25	5%	\$23,802	
Air Monitoring	Air Pollution Control Specialist	\$92.50	15%	\$61,279	
				<b>Total</b>	<b>\$85,081</b>