



NORTHERN SONOMA COUNTY  
Air Pollution Control District

150 MATHESON STREET HEALDSBURG, CA 95448  
P 707.433.5911 NOSOCOIR.ORG

## **Northern Sonoma County Air Pollution Control District**

### **AB 617 Community Air Protection Program Implementation Grant Report**

**Grant # G21-CAPP-22**

**Grant Term: August 1, 2022 to June 30, 2026**

**Submitted to the California Air Resources Board on:  
December 23, 2022**

## 1. Contact Information

### California Air Resources Board Project Liaison:

Andrea Juarez  
California Air Resources Board  
Office of Community Air Protection  
1001 I Street.  
Sacramento, CA 95814  
E-Mail: Andrea.Juarez@arb.ca.gov

### District Grant Liaison:

Robert Bamford  
Northern Sonoma County Air Pollution Control District  
150 Matheson Street  
Healdsburg, CA 95448  
Phone: 707-433-5911  
E-Mail: Robert.Bamford@sonoma-county.org

## 2. Anticipated Timeline

Work Task	Completed
District Resolution	6/6/2018
Grant G21-CAPP-22 executed.	8/10/2022
Advanced disbursement request for grant .	9/22/2022
Grant funds received.*	11/28/2022
Ordered (3) Clarity multi-pollutant air sensors & (3) meteorological modules.*	9/19/2022
Clarity sensors and meteorological modules delivered.*	10/19/2022
Clarity sensors and meteorological modules deployed.*	11/4/2022
Enhanced, bilingual AQI activity chart and booth at Earth Day for public outreach – April 22,2023.	
Liquidation of all G21-CAPP-22 funds estimated by May 1, 2023.	

\*Note – the District paid for the Clarity order with its own funds and installed the sensors **before** receiving grant disbursement from CARB (but after grant execution) due to supply chain limitations from the manufacturer. If the District didn't immediately purchase the available equipment in stock it would have had to wait at least another 6 months for the next batch of units to be manufactured.

### 3. Summary of Anticipated Tasks

The following summary describes the Northern Sonoma County Air Pollution Control District's ("District" or "NSCAPCD") Community Air Protection Program implementation campaign for Grant Numbers G21-CAPP-22. The District was not selected by CARB for a community project, nor does it have a disadvantaged community. For its Year 5 CAP implementation project, the District has elected to perform a community air monitoring project and a community outreach event with new enhanced and bilingual AQI charts.

- Community Air Monitoring Project.

The District has a pivotal role in providing advisories during wildfire smoke and pollution events; determining air quality for permissible open burn days; and data trends for SIP planning and rule development. Currently the District has (3) PM-10 Beta Attenuation Monitors (BAMs) located in Healdsburg, Cloverdale, and Guerneville. However, the District does not have any PM-2.5 BAMs or desktop-accessible meteorological data from those sites to evaluate local weather conditions or to develop back-trajectories to help determine where pollutants are coming from.

Fine particulate (PM-2.5) has an elevated health risk because the very small particles lodge deeper in the lungs. Therefore, the District wanted to include PM-2.5 surveillance capability at its three monitor sites, but federal certified BAMs are cost and labor prohibitive. The Clarity sensors provide an affordable and highly accurate PM-2.5 pollutant measurement alternative but are not used for regulatory purposes. The Clarity sensors also measure PM-1, PM-10, NO<sub>2</sub>, and ozone. The meteorological modules measure temperature, wind speed, wind direction, relative humidity and atmospheric pressure.

In Attachment 1, a screen shot image is provided demonstrating deployment and operation of the Clarity equipment through the Clarity desktop application that displays the pollutant levels, meteorological information, and pollutant back trajectory models in an interactive map. In Attachment 2, an invoice for the Clarity equipment is provided.

- Community Outreach Event (April 22, 2023).

Guided by a core tenet of the AB617 CAP Program, and under direction from the District Board, the NSCAPCD will participate in a public Earth Day event to provide public information about District programs and to highlight its new AQI activities charts with recommended activities for businesses (including outdoor workers), schools and childcare facilities, government agencies, and the general public. The District is having the enhanced AQI charts professionally translated to include Spanish language versions. AB617 CAP funds will be used for Earth Day booth sponsorship, outreach materials, and AQI chart translation services and printing.

District outreach for these community programs will be launched through the District web site, mailing lists, and social media accounts. Program input was provided by the Sonoma County Department of Emergency Management, Sonoma County Health Department, Communities Organized to Prepare for Emergencies (COPE), the District web site and Board meetings, and other community feedback. The District has a permanent section on its web site for CAP at <https://nosocoair.org/about/activities/>.

#### **4. Grant Funds**

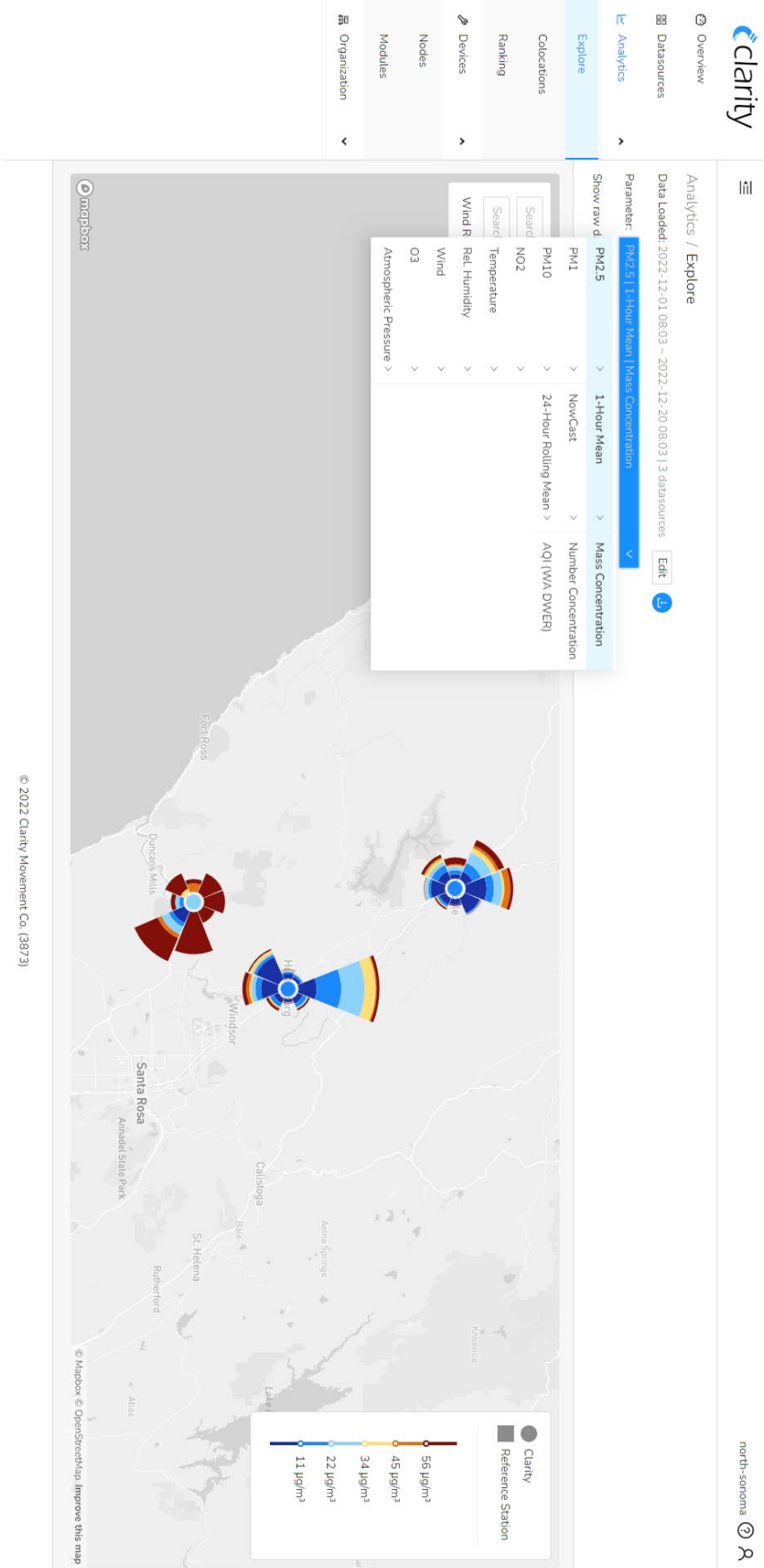
For these projects, the total grant funding amount is **\$15,430** for the community sensor project and the community outreach event. The District has expended **\$8,651** of the grant funds for the community sensor project equipment. The remaining funds (**\$6,779**) will be used for the community outreach event, including the development and translation of the enhanced AQI charts.

All CAPP funds for G21-CAPP-22 are anticipated to be liquidated May 1, 2023; prior to the June 30, 2026 deadline.

#### **5. Itemized Invoice Information**

Available at final report.

# Attachment 1: Demonstration of Clarity Equipment Deployment



## Attachment 2: Clarity Equipment Invoice

Clarity Movement Co.  
808 Gilman Street  
Berkeley, CA 94710



### INVOICE

**BILL TO**

North Sonoma County Air  
Pollution Control District  
150 Matheson Street  
Healdsburg, CA 95448 USA

**SHIP TO**

North Sonoma County Air  
Pollution Control District  
150 Matheson Street  
Healdsburg, CA 95448 USA

**INVOICE #** 1690053740-2353**DATE** 09/19/2022**DUE DATE** 10/19/2022**TERMS** Net 30

ACTIVITY	QTY	RATE (USD)	AMOUNT (USD)
<b>Clarity Node-S Non-Inventory</b> Clarity Node-S with PM2.5, NO2, Temperature, and Relative Humidity; Solar Panel + Battery; Cellular Communication	3	0.00	0.00
<b>Clarity Data License</b> Service Subscription Per Node (x1 year) including Clarity hardware, Clarity Dashboard, APIs, and Clarity air quality expert support service	3	1,400.00	4,200.00T
<b>Wind Module Integration</b> Service Subscription Per (x1 year) including Clarity hardware, Clarity Dashboard, APIs, and Clarity air quality expert support service	3	1,800.00	5,400.00T
<b>Service Discount</b> Wind Module Integration Discount	3	-800.00	-2,400.00T

## Wire Instructions:

Beneficiary's Bank: Bank of America, NA  
222 Broadway, New York, NY 10038, USA  
Routing & Transit #: 026009593 / Swift Code: BOFAUS3N  
Beneficiary: Clarity Movement Co.  
808 Gilman Street, Berkeley CA 94710  
Account #: 325133132753

SUBTOTAL	7,200.00
TAX	648.00
SHIPPING	803.00
TOTAL	8,651.00
BALANCE DUE	<b>USD 8,651.00</b>

The customer may be required to remit sales tax even if Clarity does not collect it.