Dust Monitoring Compliance Thursday, September 14, 2023

Morning Program

9:00	Welcome	10:45	Intro to Site Contribution Analysis and		
9:05	Overview and Updates of CDPH Regulatory and Community Air Monitoring Approaches		Aeroqual's Site Contribution Tool		
			Connor Porter, Aeroqual		
	Michael Enos, CDPH	11:10	New Developments for Special Applications		
9:40	Regional and National Regulatory Overview		Don Allen and Volker Schmid, CleanAir		
	Brian Newgent and Claire Amin, Aeroqual	11:35	Top 10 Support Questions		
10:05	Monitoring Program Design and Data Analysis		Don Allen, CleanAir, and Connor Porter, Aeroqual		
	Considerations Volker Schmid, CleanAir	12:00	LUNCH		
10:30	BREAK				

Site Contribution

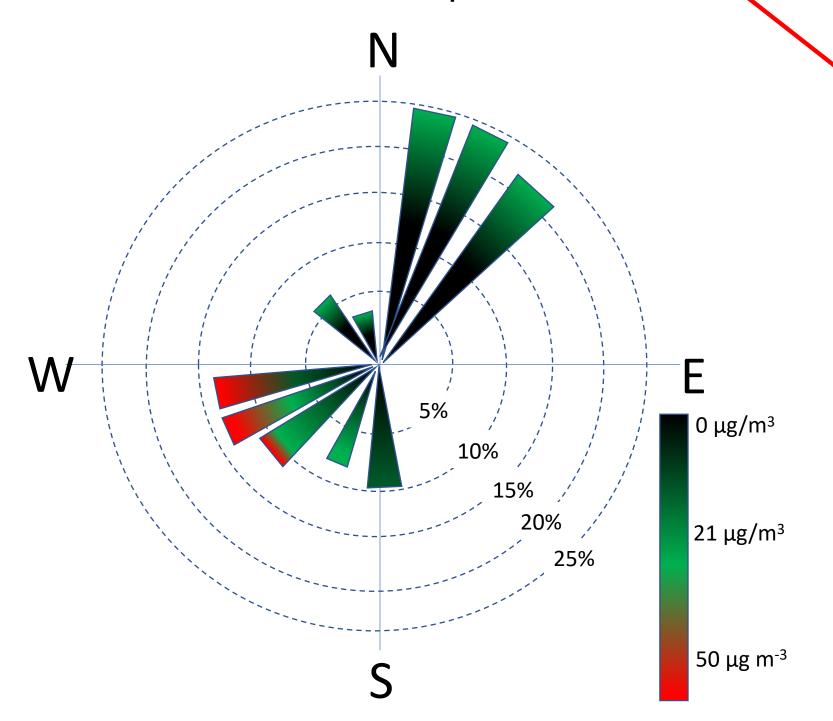
What is it, What does it Solve; An Introduction and Analysis

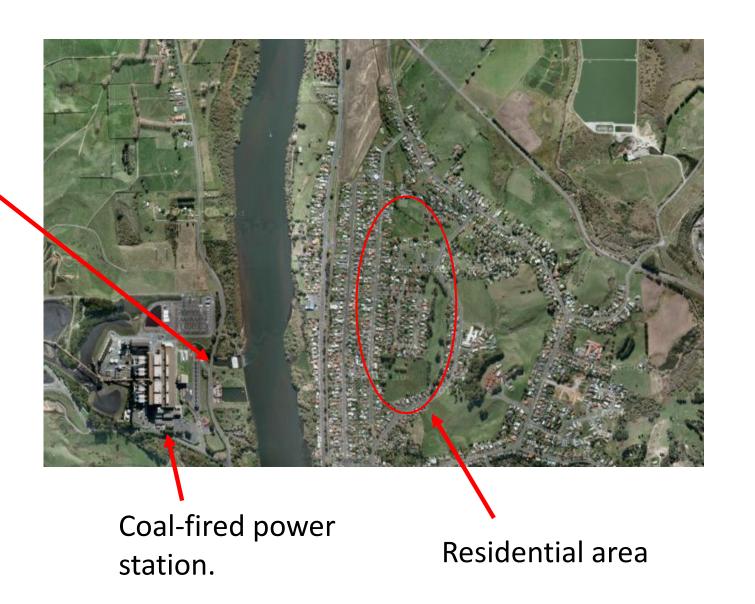
Rose Chart | PM Contribution (**) Clean Air.



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Dust Monitor location with additional wind speed/direction sensor, located on the boundary between residential area and power station.





The pollution rose says that most of wind comes from the **NorthEast** and when it does **PM values are low**. But when wind blows from the **Southwest PM values are high.**

Site Contribution



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Site Contribution - Dusty Remediation - Historical View

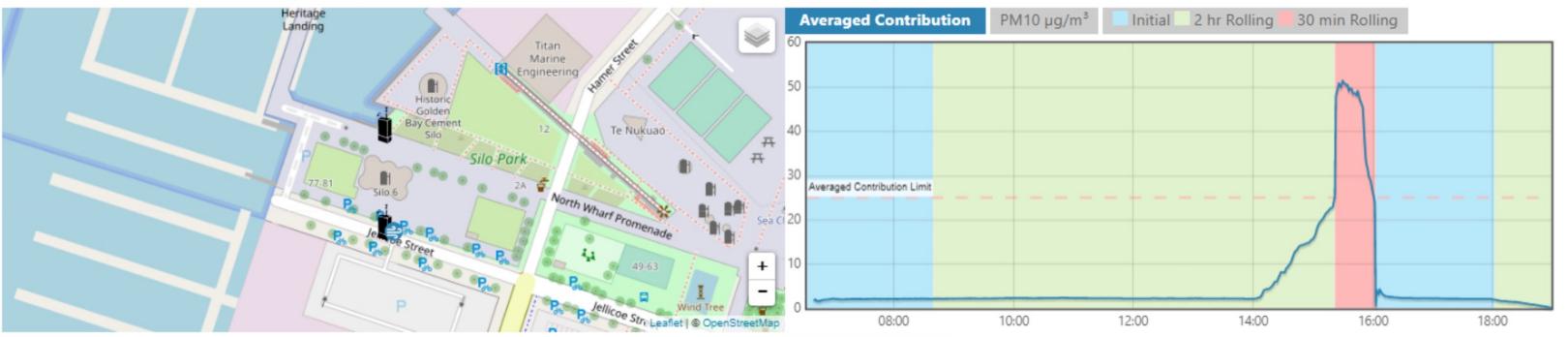
From Date 04/02/2022 06:00 To Date 04/02/2022 19:00 Update

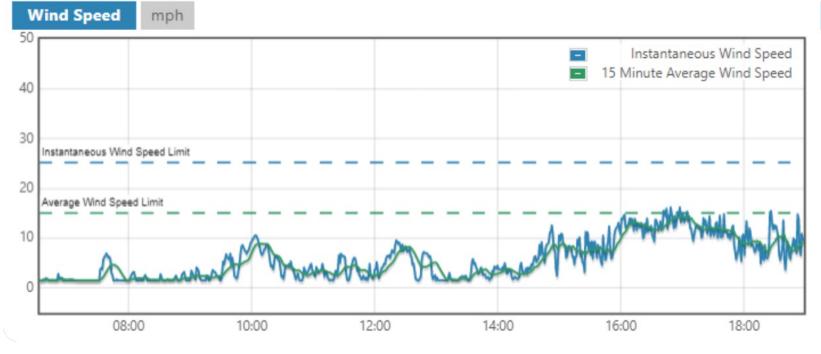
Export as JSON Exp

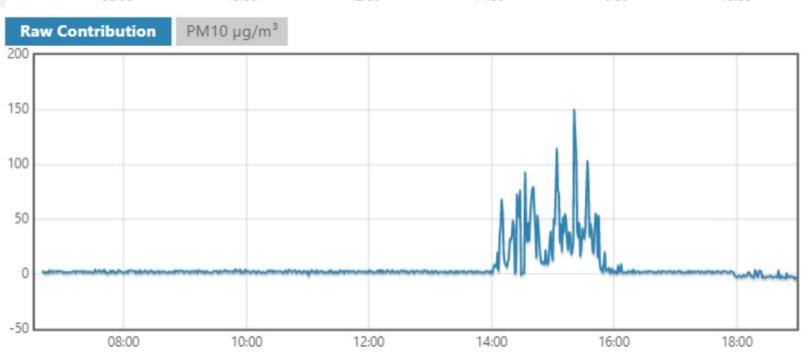
Export as CSV

Live View D

The software automatically tracks pollutant levels, wind direction and speed to calculate the total site contribution. Real-time alerts notify you within a minute if you are approaching regulatory limits. It seamlessly reports data in the required format.







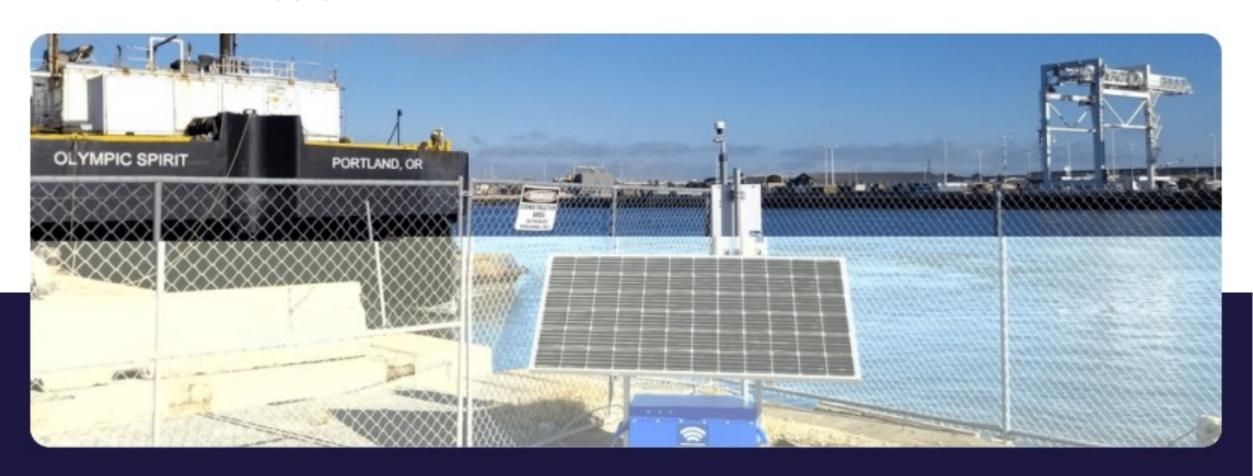
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2019 Catellus / Vista Environmental Consultants

Transforming the former site of the US Navy's Alameda Fleet Industrial Supply Center



Project

Alameda Point Redevelopment

Location

Alameda, California, USA

Date

2019

Services

3x Dust Sentry, Aeroqual Cloud Plus

Measurements

PM₁₀, PM_{2.5}, wind and noise

Sector

Remediation

Case Study

Being a Good Neighbor Requires Real-Time Alerts and Defensible Air-Quality Data A leading national developer used integrated weather, noise, and particulate matter monitoring to produce credible air quality data and achieve regulatory compliance.

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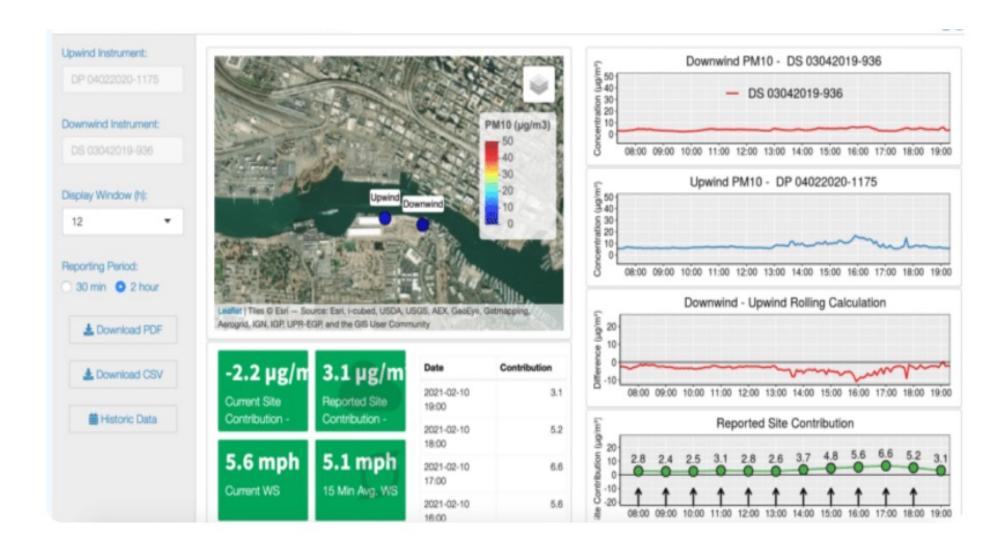
Understanding and Planning for Site Challenges



	ges
1.	The Catellus site shares an eastern boundary with the community
	and a busy marina housing multiple yacht clubs
2.	Prevailing westerly winds blowing down the Oakland estuary picking
	up dust from other sources
3.	Need to restrict and control the spread of dust and particulate
	matter
4.	Catellus needed a solution that would provide accurate, defensible
	data to protect these community relationships

The Solution

Integration of Hardware and Software



"The solution works really well, and it was valuable to be able to upload and download data remotely and to have a permanent record of it."

Chuck Bove Vista



CleanAir Workshops

Dust Monitoring Compliance

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Proactive Community Outreach

 Explaining the development vision, their activities, and their dust mitigation plan

Three Aeroqual Dust Sentry PM10 w/MET

- One Fully Integrated Meteorological Station
- One Upwind Boundary, one on the Downwind Boundary, and one fixed monitoring station adjacent to the Sensitive marina area

Aeroqual Cloud

 Exceedance alerts were configured for PM and Wind Speeds

Aeroqual Site Contribution

- Calculated the amount of PM10 dust moving onto the site at the west boundary and how much was moving off the east boundary, showing the site's contribution
- Data was combined with wind roses to prove the low impact the site had on dust creation in the community

(#) CleanAir

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The Outcome

Reliable, Accurate, Actionable and Defensible Information Builds Trust, and Reduces Claims

> Achieved Regulatory Compliance

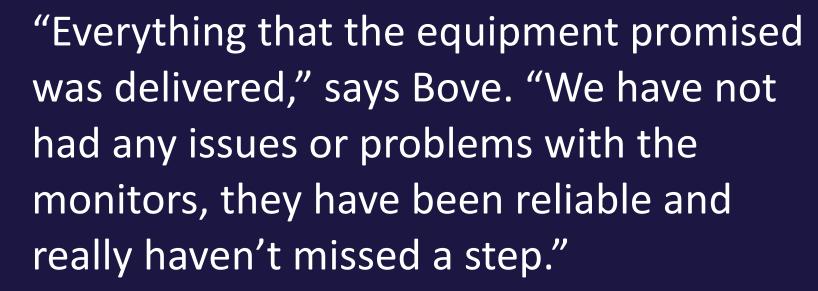
- 100% compliance with air ordinance of PM10 < 75μg/m3
- Nuisance dust below 20 μg/m3

Built Community Trust

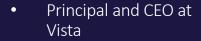
Community meetings previously disrupted by accusations of, "the dust was terrible yesterday," were quickly calmed by sharing reports

Proved Responsibility

- Catellus was able to prove to a local business owner that the metal recycler and railways to the northwest were responsible for metal dust in their paint
- > Over \$60,000 saved in 2 months









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What is Site Contribution?



Understanding how it came about, what it solves

How'd it come about?

Rule 1466 (California)

- The purpose of Rule 1466 is to minimize off-site fugitive dust emissions from earth-moving activities at sites containing specific toxic air contaminants by establishing dust control measures.
 - https://www.aqmd.gov/home/rules-compliance/compliance/rule-1466

DER-10 (State of New York)

- DER-10 provides an overview of the site investigation and remediation process for DEC's remedial programs administered by the Division of Environmental Remediation (DER).
 - https://www.dec.ny.gov/regulations/67386.html

What Does it Solve?

What's the value-add?

- Provides Defensible Data, and Resolves Accountability
- Saves you and your team countless hours of charting and data digestion.
- Provides automated alerts when calculated values reach certain thresholds.

Collates data for you so you don't have to!



Dust Monitoring Compliance

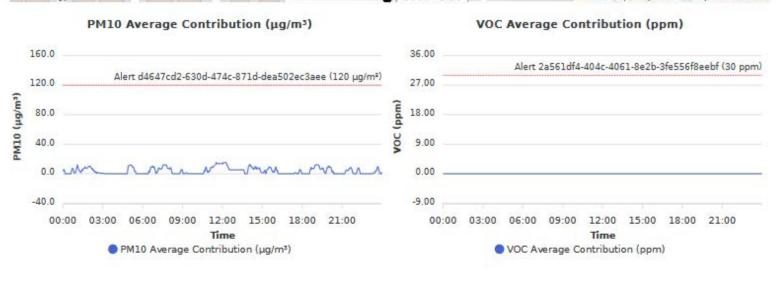
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Daily Environmental Summary	Temp (°F)	Relative Humidity (%)	Barometer (inHg)	Windspeed (mph)	Prevailing wind direction
9/10/2023	44.6-68	35-84	29.8-30.3	0-13.4	SW

Da	ily Monitoring Summary	PM10 (µg/m³)	Time	VOC (ppm)	Time
Min Contril	oution (15 min avg.) - 9/10/2023	0.0	00:11	-0.00	00:04
Max Contri	bution (15 min avg.) - 9/10/2023	15.5	11:32	0.00	00:00







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All the Prep Work

- Ensure There's a Unit That Has Wind Speed & Direction
- Plan it out
 - Where are the units going on site?
 - How many units?
 - Are there designated names for each location?
- Get Your Users Enabled
 - Send an e-mail with a list of e-mails of the users that will be using the Site Contribution tool
- What Contribution Type will you be using?
 - 1466, DER-10, Custom, Other?
 - Know the Averaging Period

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Creating the Contribution



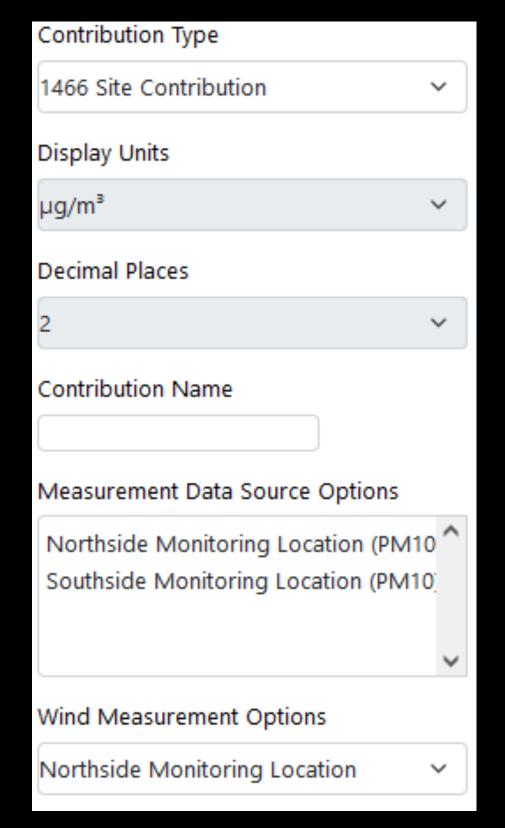
Create Contribution

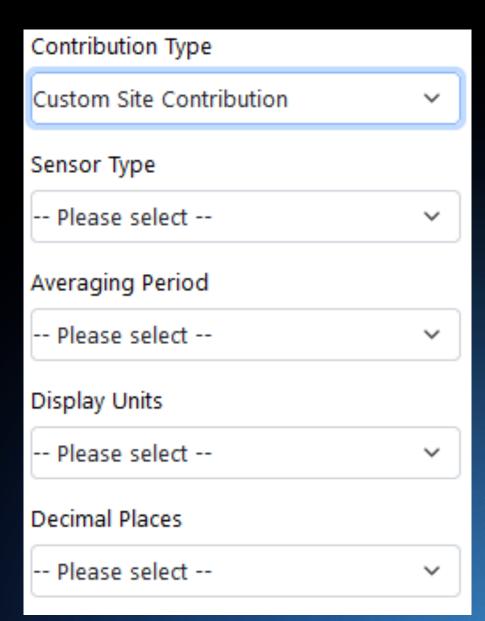
Contribution Type

-- Please select -
-- Please select -
1466 Site Contribution

DER 10 Site Contribution

Custom Site Contribution

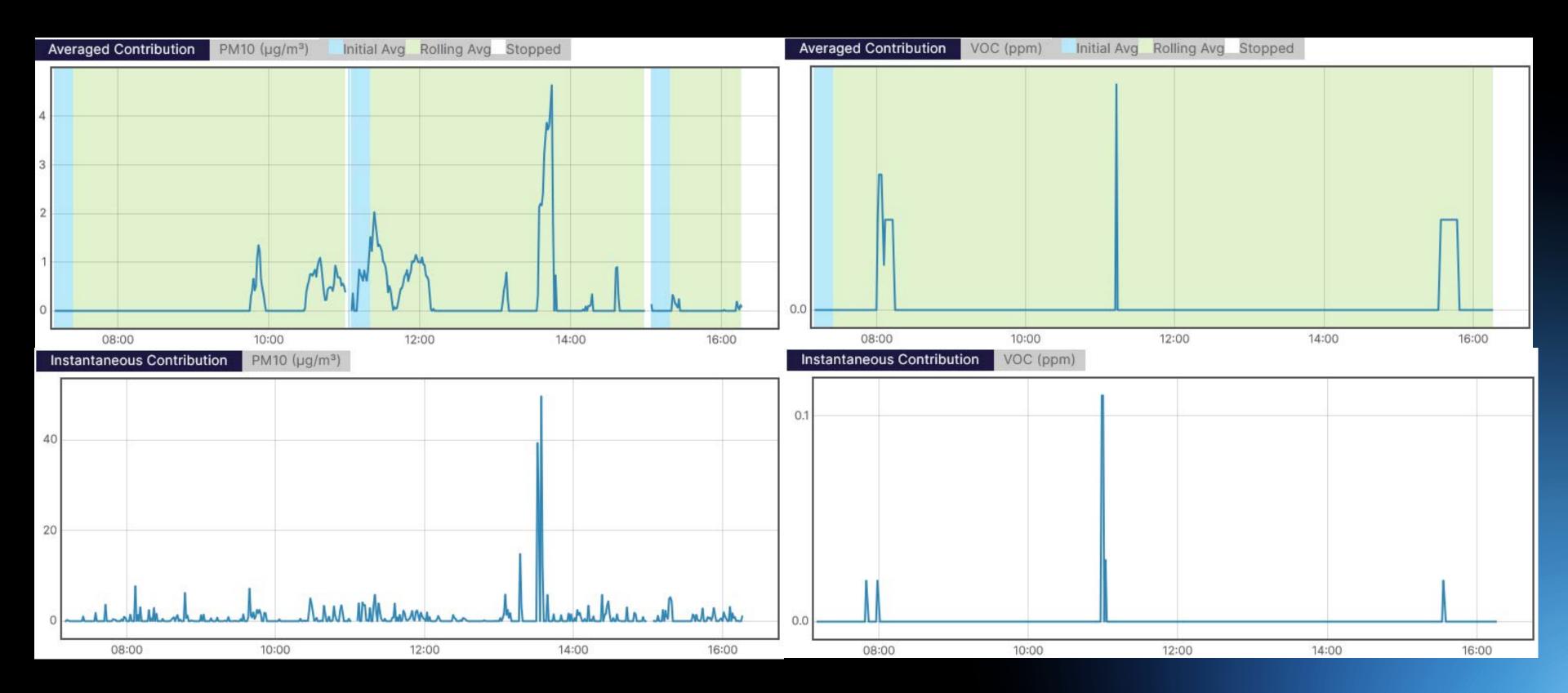




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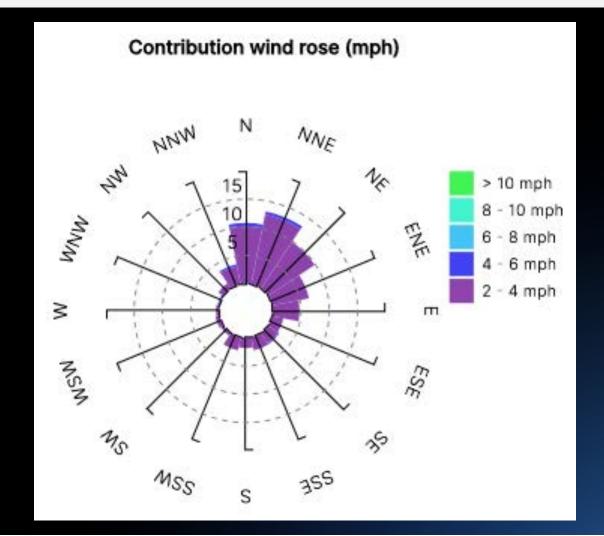
(#) CleanAir

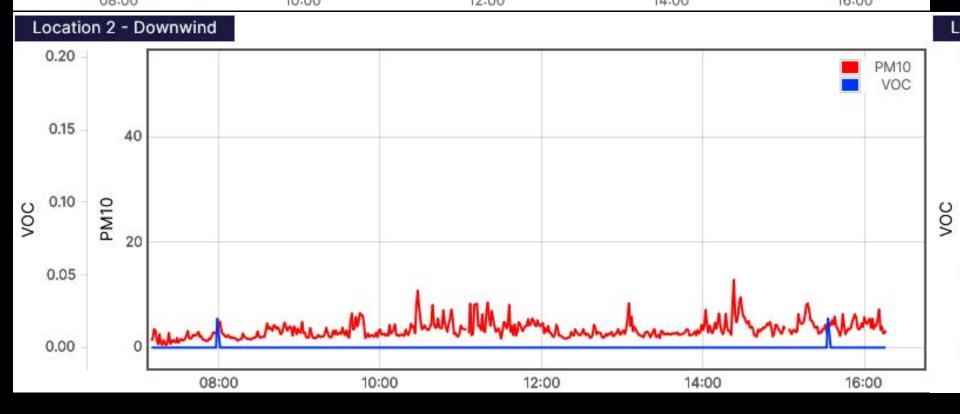
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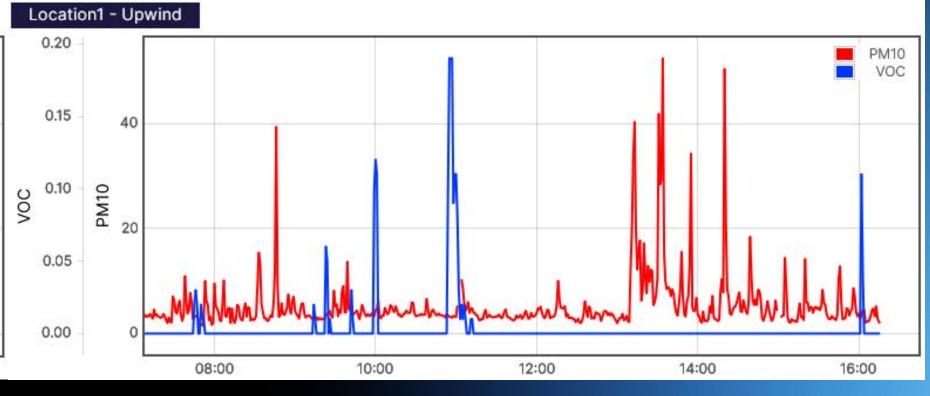
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More Information About Site Contribution

- Blog Post https://www.aeroqual.com/blog/introducing-aeroqual-site-remediation
- 40 Minute Webinar https://www.aeroqual.com/events-webinars/introducing-aeroqual-site-contribution-webinar
- Support Docs https://support.aeroqual.com/Guide/Site+Contribution+tool/288

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