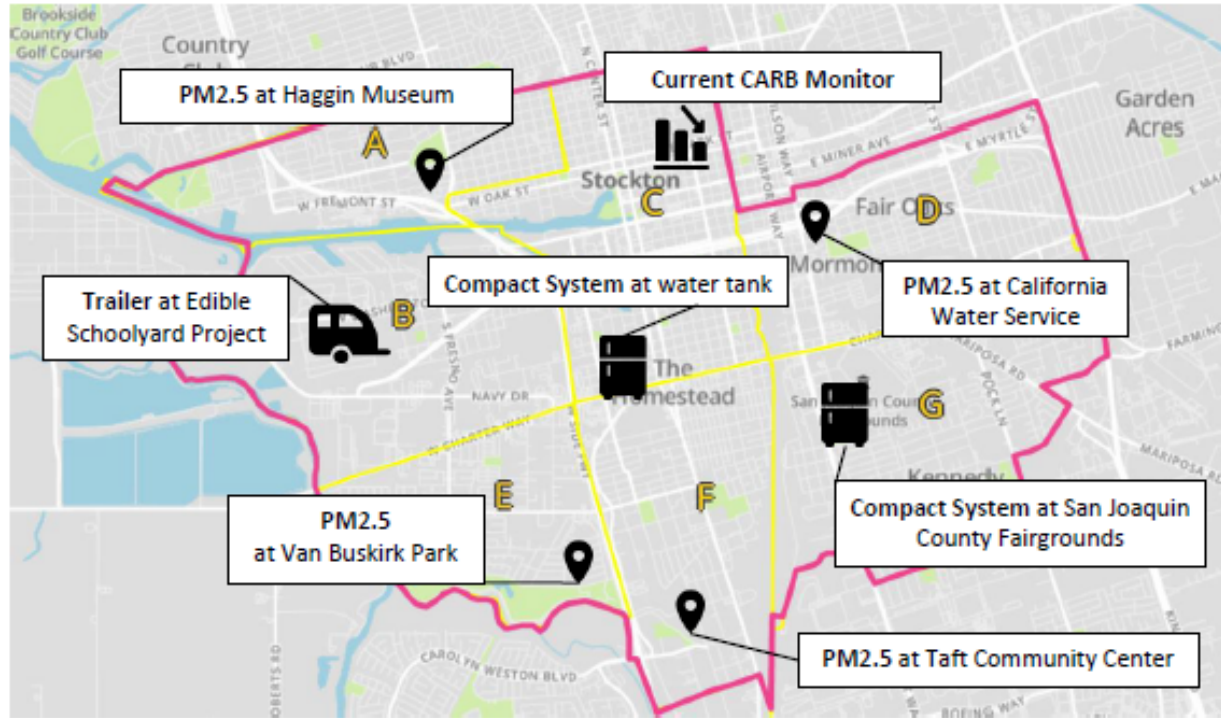


Update on Stockton Community Air Monitoring

Stockton CSC Meeting
August 07, 2024

CAMP Implementation Status

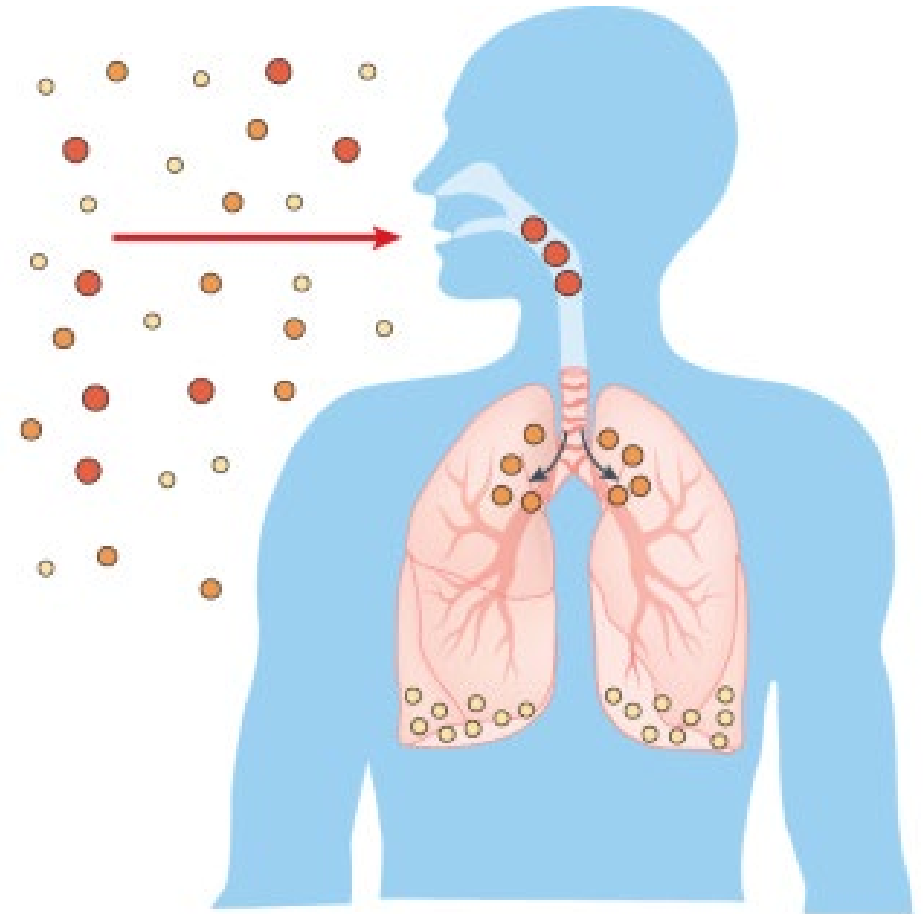


	Mobile Monitoring Van: respond to community concern		Compact System: PM2.5, Black Carbon, SO2, NO2/NO, & VOC
	Trailer: PM2.5, Black Carbon, Ozone, CO, NO2/NO, H2S/SO2, VOC, & Toxics		CARB Monitor: PM2.5, PM10, Ozone, NO2/NO, CO, & Toxics
	PM2.5 Monitor		

Zone	Location	Installed	Notes
A	Haggin Museum	X	PM2.5 installed on April 4, 2022; VOC sampling from Sept. 2022 to June 2023
B	Edible Schoolyard Project (Boggs Tract Community Farm)	X	Installed on June 26, 2023; VOC sampling commenced July 2023
C	University Park (CARB)	X	CARB installed on October 1, 2021
C	Water Tank (El Dorado St. & E. Clay St.)	X	Installed on March 2, 2022
D	California Water Service Building (E. Lafayette St.)	X	Installed on February 16, 2022
E	Van Buskirk Park		Van Buskirk: Information provided to City of Stockton Public Works who needs time to discuss internally. Awaiting response. Permission denied at Conway Homes (Housing Authority of the County of San Joaquin) and Kipp School.
F	Taft Community Center		Working with Taft Community Center to install electrical infrastructure
F	Little Manila Center	X	PM2.5 monitor temporarily deployed at Little Manila Center
G	San Joaquin County Fairgrounds	X	Installed on May 3, 2022

Health Effects of PM2.5

- Premature death in people with heart or lung disease
- Aggravated asthma
- Increased respiratory symptoms – irritation of the airways, coughing, difficulty breathing
- Decreased lung function in children
- Irregular heartbeat and nonfatal heart attacks
- Increased respiratory and cardiovascular hospitalizations
- Chronic bronchitis
- Lung cancer



Key Takeaways

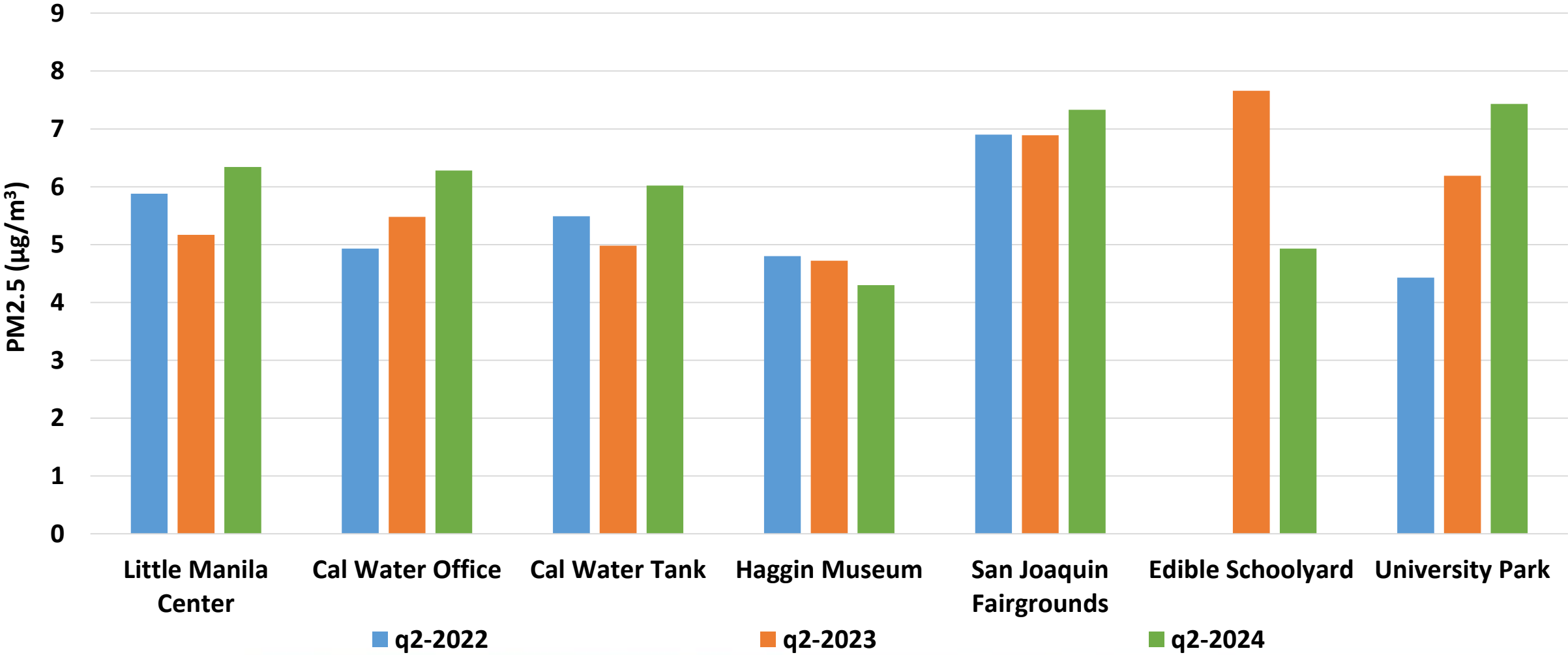
For Quarter 2: PM2.5 levels remain below 24-hour PM2.5 standard across all community sites on all days

For Quarter 2: PM2.5 levels were low at all sites, similar to previous years

Air quality impacts from fireworks and wildfires in June and July

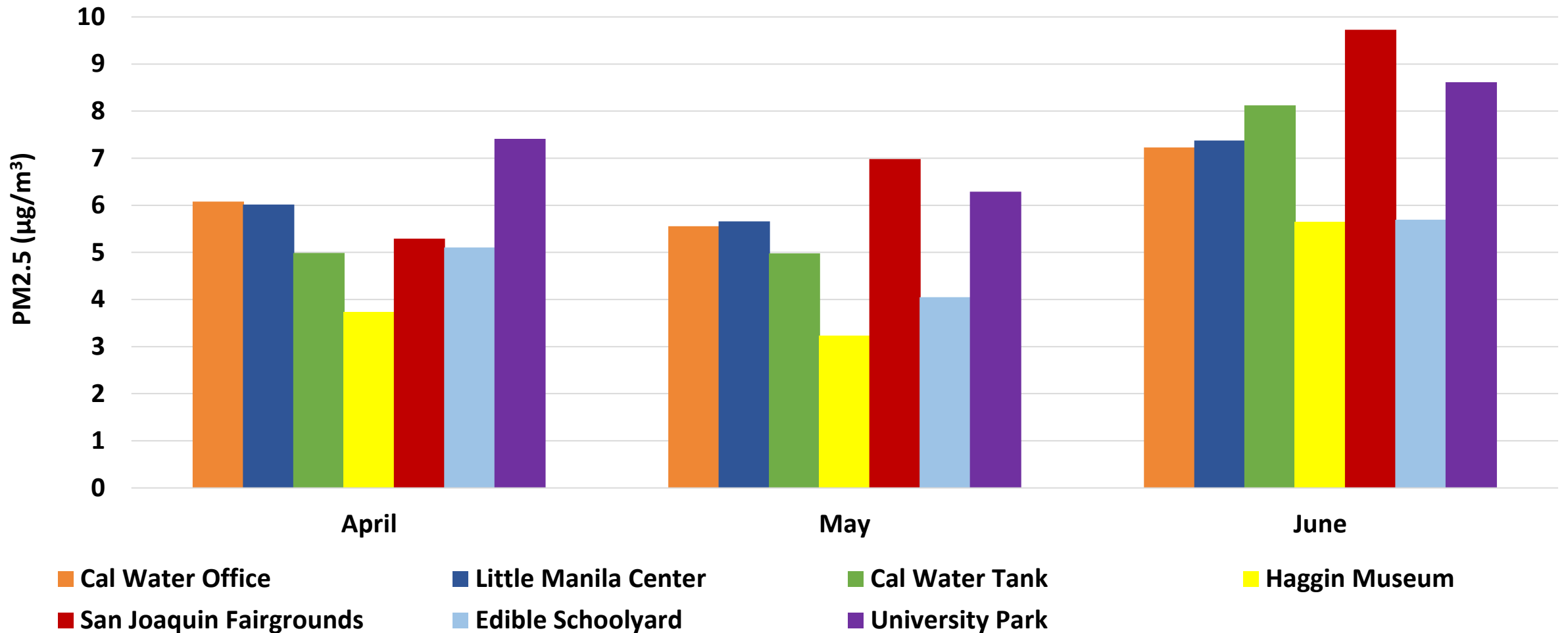
2nd Quarter Average PM2.5 Comparison

2nd Quarter Average PM2.5 low at all sites, similar to previous years



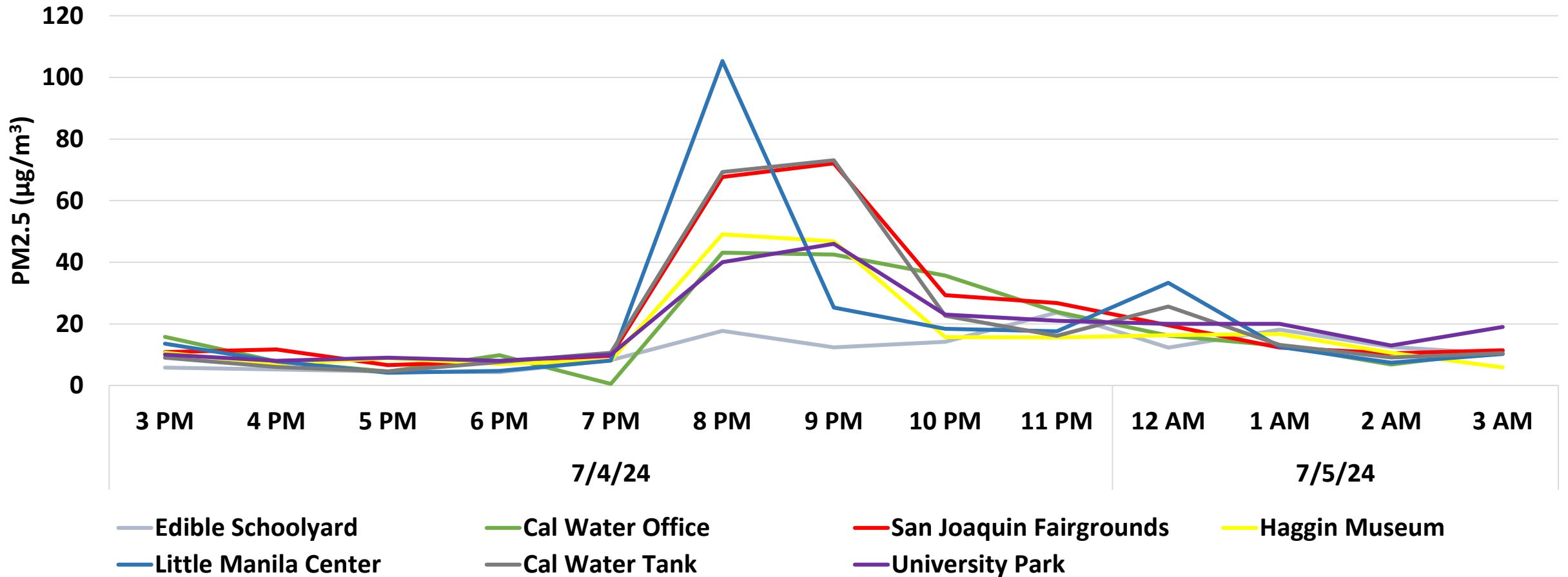
PM2.5 Monthly Average Comparison

Monthly PM2.5 average low at all sites



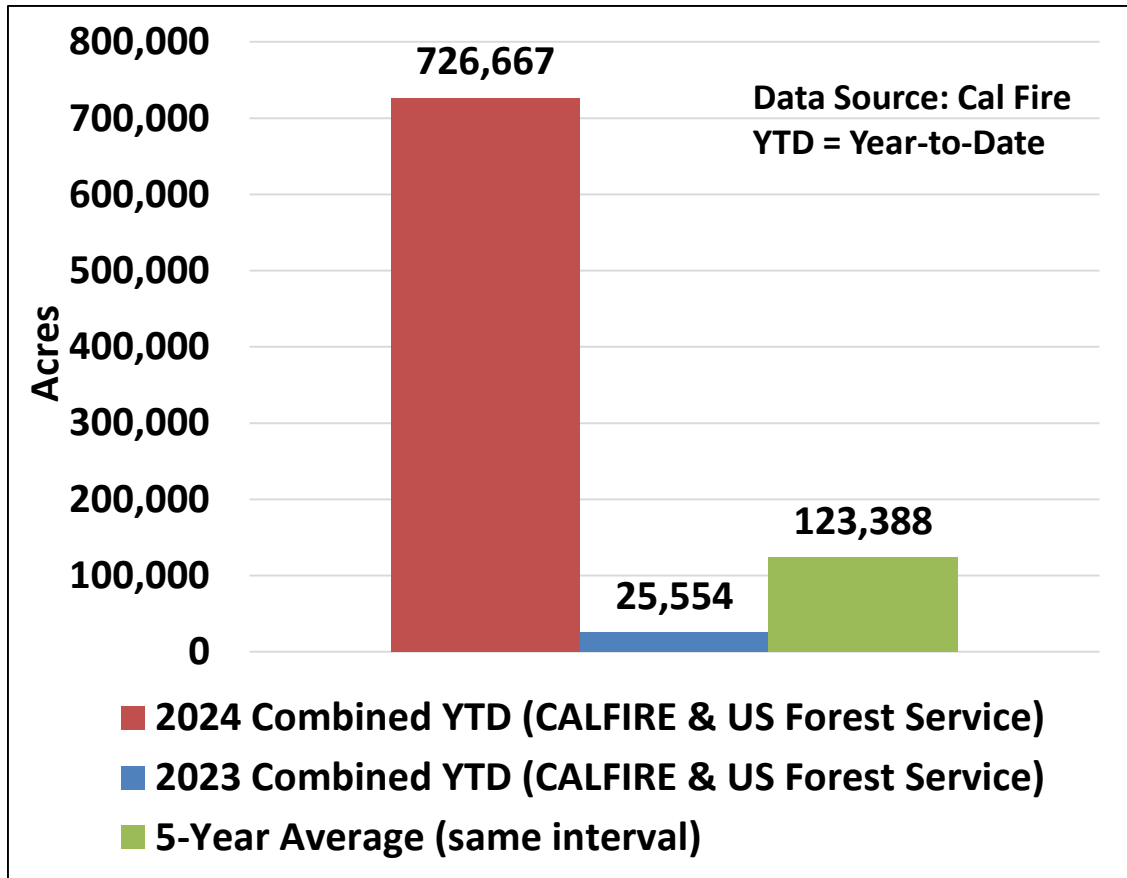
4th of July

Highest PM2.5 spikes close to residential neighborhoods



California Wildfires in 2024 (as of 7/31/24)

California Wildfires in 2024



Wildfires Impacting SJ County in 2024

Start Date	Wildfire Name	Acreage	County Location
6/1/2024	Johnson Fire	20	San Joaquin
6/13/2024	Flood Fire	58	San Joaquin
6/24/2024	Liberty Fire	104	San Joaquin
6/27/2024	Hollow Fire	210	San Joaquin
6/28/2024	1-2 Fire	215	San Joaquin
7/19/2024	Aero Fire	5,425	Calaveras
6/17/2024	Corral Fire	14,168	San Joaquin
6/17/2024	Sites Fire	19,195	Colusa
★ 7/24/2024	Park Fire	383,619	Butte, Tehama
★ 7/30/2024	Pedro Fire	2,722	Mariposa, Tuolumne

★ Still active wildfires as of 7/31

2024 wildfire season is more active than recent years. Few fires have been near the Stockton area.

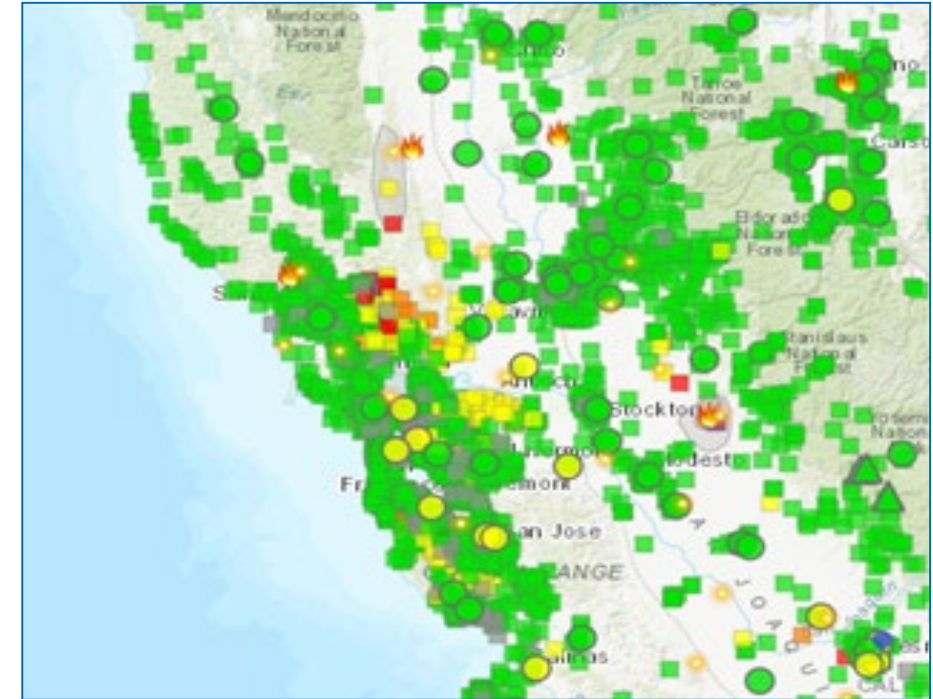
Smoke and Impacts from Sites Fire

Satellite Image



AirNow Fire & Smoke Map

<https://fire.airnow.gov/>

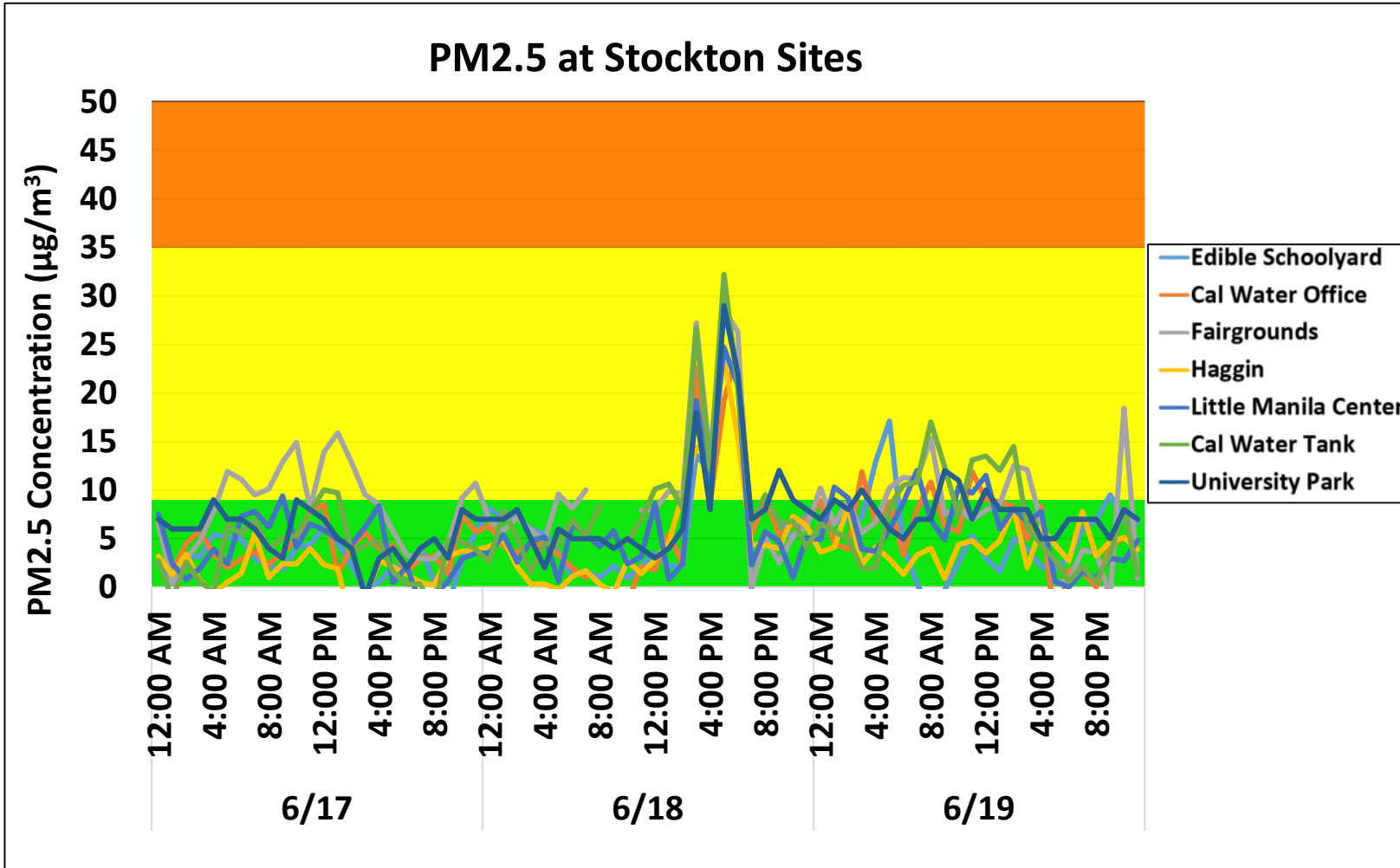


- Smoke traveled south over San Joaquin County and Stockton area

- Fire and Smoke map helpful to identify severity of smoke impacts at ground level

Smoke impacts at ground level vary depending on multiple factors.

Hourly PM2.5 Impacts from Sites Fire



- Hourly PM2.5 readings at the Stockton air monitoring sites show when wildfire smoke impacted air quality
- This example was during the Sites Fire in June
- Concentrations remained in the Good & Moderate AQI categories

Example of recent smoke impacts at Stockton community monitors from Sites Fire

How can the District make sure the community knows that we expect worse air quality?



San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT
NEWS Release
www.valleyair.org

HEALTHY AIR LIVING™
24hr Media Cell Phone (559) 309-3336

Media Contact:
Heather Heinks (559) 994-7591
Spanish-language Contact:

For immediate release 07-01-2024
Attn: Local news, weather, and assignment editors

Personal fireworks increase pollution Valley Air District urges residents to celebrate safely

Valley Air District officials are cautioning the public that pe (PM2.5), including soot, ash and metals, which can cause children, the elderly and people with existing respiratory c use poses significant safety and noise pollution concerns, for wildlife, pets, and residents.

"We are asking Valley residents to be mindful and consider whose health and safety may be impacted by the emission Sheikh, San Joaquin Valley Air Pollution Control District E

Many 4th of July celebrations and public fireworks displays Valley. The Valley Air District suggests taking advantage of more spectacular source of Independence Day entertainr

To encourage safer, air-quality friendly events this 4th of J across the Valley through the [Clean Alternatives to Firew](#) of drones equipped with vibrant LED lights to form pattern as a contemporary alternative to traditional fireworks displ form of entertainment.



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Media Contact:
Heather Heinks (559) 994-7591
Spanish Media Contact:
Martiela Velasquez (559) 230-5849

For immediate release 06-27-2024
Attn: Local news, weather, health and assignment editors

Fresno County Wildfires Impact Valley Air Quality District has issued an Air Quality Alert with the National Weather Service

Ongoing wildfires in the Eastern Fresno County are generating smoke that is now affecting the San Joaquin Valley. Weather patterns through this weekend have the potential to continue to draw wildfire smoke into the Valley counties of Madera, Fresno, Tulare and Kern. As a result, the District has issued an Air Quality Alert with the National Weather Service. Residents impacted by the smoke are advised to stay indoors to minimize exposure to particulate matter (PM) emissions. This Air Quality Alert is in effect until the fires are extinguished.

The District strongly urges the public to take health-protective actions to stay safe when smoke from wildfires affects the Valley, including following [air-quality recommendations](#) when making decisions about outdoor activities. Additional health protective actions include:

- Staying indoors
- Using portable air cleaners or high-efficiency filters to remove fine particles from the air
- Planning ahead and creating a [clean air room](#)
- Visiting a [Clean Air Center](#). Similar to the Valley's cooling centers, the District's Clean Air Centers provide relief when wildfires & smoke events occur

Wildfire smoke contains particulate matter (PM), which can trigger asthma attacks, aggravate chronic bronchitis, and increase the risk of heart attack and stroke. Those with existing respiratory conditions are especially susceptible to the adverse health effects of this form of pollution. Anyone experiencing poor air quality due to wildfire smoke should move indoors to a filtered, air-conditioned environment with windows closed and contact their primary care provider for more information.

- Schools participate in the Healthy Air Living school program
- News releases are issued before known and expected high pollution days
- District posts updates to social media sites like Facebook, X, Instagram, Threads, and Nextdoor



Valley Air District
Published by Hootsuite
June 27

Ongoing wildfires in Eastern Fresno County are generating smoke that's now affecting the San Joaquin Valley. Read more about it by visiting <http://valleyair.org/news>

How can the District make sure the community knows that we expect worse air quality?

San Joaquin Valley Air Pollution Control District
Outreach & Communications Representative Michelle Riv... • 4 days ago

As the Valley continues to be hot today and tomorrow, California fires may increase smoke production and bring stronger impacts to the Valley. If you can smell smoke and see ash, that is an indication that you are being affected by poor air quality. Learn more: www.valleyair.org/wildfires.

#ValleyAirDistrict #Wildfires #SmokeImpacts




Wildfire Impact Update:
Possible smoke impacts from wildfires around the state

*Actualización sobre el impacto de los incendios forestales:
Posibles impactos del humo de incendios forestales en todo el estado*

www.valleyair.org/wildfires

San Joaquin Valley Air Pollution Control District
Communications Representative Danny Gonzalez • 27 Jun

Ongoing wildfires in Eastern Fresno County are generating smoke that's now affecting the San Joaquin Valley. Read more about it by visiting <http://valleyair.org/news>



In the News

Fresno County Wildfires Impact Valley Air Quality

San Joaquin Valley Air Pollution Control District
Outreach & Communications Representative Michelle Rivera • 8 May

A low pressure system will generate gusty winds Wednesday afternoon through tomorrow morning with the strongest winds expected in the northern and western portions of the San Joaquin Valley.

Blowing dust is possible in dry soil areas. Limit or avoid outdoor activities in affected areas & follow air quality at <http://AirNow.gov>.



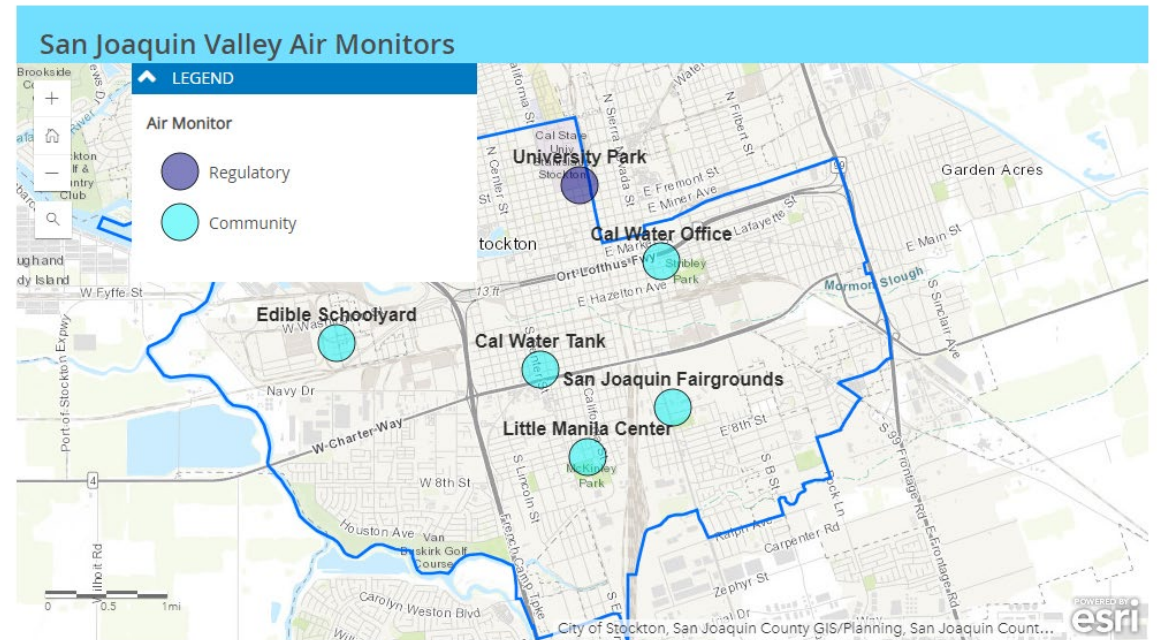
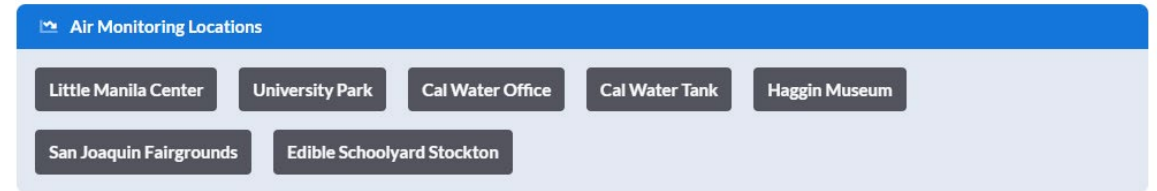
FORECAST PRONÓSTICO

Gusty Winds
Vientos Fuertes

Blowing dust is possible in dry soil areas
Es posible que vea polvo en el aire en áreas secas

Community Air Quality Data

- District AB 617 webpage at: <http://community.valleyair.org/community-air-monitoring>
 - Real-time community air monitoring data
 - Quarterly reports
 - Weekly air monitoring updates



Comments/Questions?