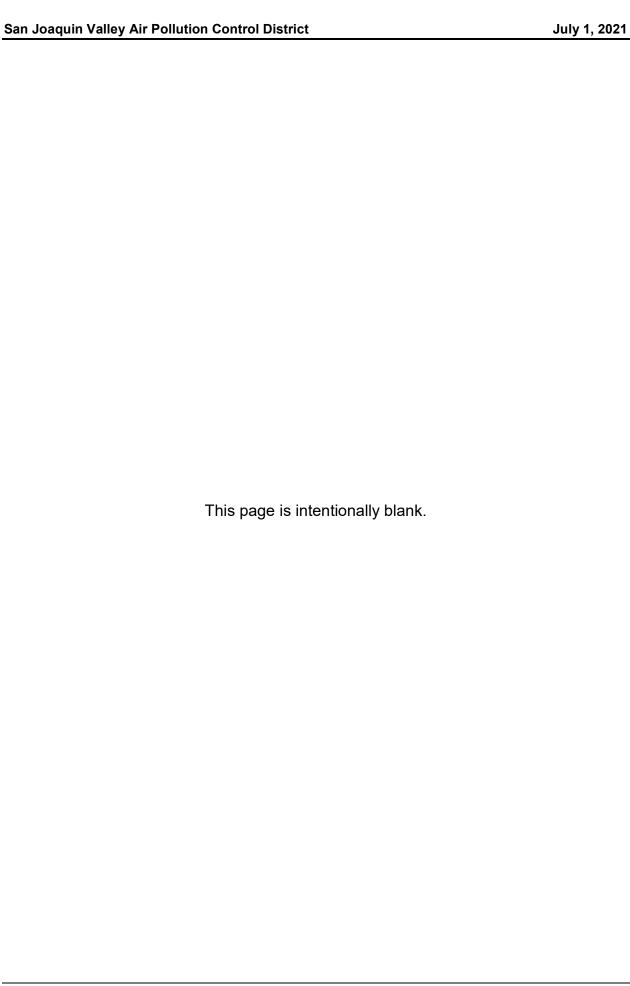


# 2021 Air Monitoring Network Plan



# San Joaquin Valley Air Pollution Control District 2021 Air Monitoring Network Plan July 1, 2021



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# The District's Core Values Exhibited in the Air Monitoring Network

# \* Protection of Public Health \*

The District uses data collected from the air monitoring network to provide real-time air quality data to the public through the Real-Time Air Advisory Network (RAAN), generate daily air quality forecasts, and when needed, issue health advisories. The District also uses data collected from the Valley's air monitoring network as the basis for long-term attainment strategies and to track progress towards meeting federal health-based air quality standards.

# \* Active and effective air pollution control efforts with minimal disruption to the Valley's economic prosperity \*

The District uses air monitoring data to help establish strategies for reaching attainment of federal health-based air quality standards.

# \* Outstanding Customer Service \*

# \* Accountability to the public \*

The District's website provides easy public access to data from the Valley's real-time air monitors, and through the RAAN system, provides notifications to the public when air quality reaches unhealthy levels.

The public can also access historical air quality information through the District's website.

# \* Open and transparent public processes \*

In addition to making air quality data available in real-time, the District uses air quality data in a variety of publicly available documents and reports. The District also conducts a public review period for annual monitoring network plans.

# \* Respect for the opinions and interest of all Valley residents \*

The District has actively made daily air quality information available to Valley residents in a variety of formats, including the District website, the RAAN system, the daily air quality forecast, and the media. The District considers public interests in establishing new air monitoring stations.

# \* Ingenuity and innovation \*

The District strives to use new and improved air monitoring techniques and equipment as approved by the EPA. The District uses the latest science when considering locations for air monitoring stations, and in turn, the data collected from the air monitoring network contributes to ongoing scientific evaluations.

# \* Continuous improvement \*

Through the annual air monitoring network plan, the District evaluates the air monitoring network for opportunities for better data collection and greater efficiency. Throughout the year, the District continually seeks out opportunities to improve the air monitoring network and its service to the public while meeting federal requirements.

# \* Recognition of the uniqueness of the San Joaquin Valley \*

The San Joaquin Valley is an expansive and diverse area. The District strives to site its air monitoring stations in locations that represent each region of the Valley.

# \* Effective and efficient use of public funds \*

The District makes the most of limited resources by structuring the air monitoring network in a way that optimizes personnel time and funding for instruments. The result is a robust air monitoring network that helps the Valley reach its air quality goals without unnecessary expenditures.

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# **EXECUTIVE SUMMARY**

The San Joaquin Valley Air Pollution Control District (SJVAPCD or District) operates an extensive network of air pollution monitors throughout the San Joaquin Valley (Valley) to support its mission of improving and protecting public health. District staff use hourly readings from real-time monitors to communicate the state of the air quality to Valley residents. Through programs and venues such as the Real-Time Air Advisory Network (RAAN), the daily air quality forecast, the District and California Air Resources Board (CARB) websites, and Valley media, residents are able to obtain air quality information that can help them with their activity planning. The District also uses real-time air quality data to manage prescribed burning, hazard reduction burning, agricultural burning, and residential wood burning to ensure these activities do not result in adverse air quality impacts.

As part of the District's long-term efforts to improve public health, air monitors collect data that is rigorously analyzed by laboratory technicians and District staff. This monitoring data determines the Valley's air quality and is fundamental in the Valley's effort to improve air quality and achieve attainment of the United States Environmental Protection Agency's (EPA's) health-based ambient air quality standards as quickly as possible.

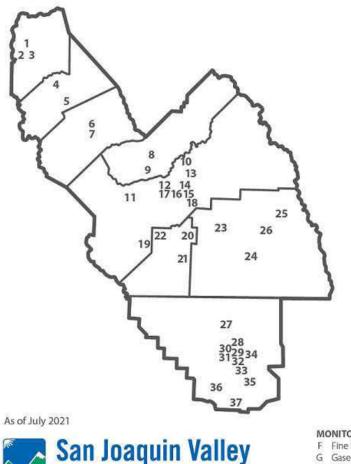
The Valley covers an area of 23,490 square miles, and is prone to one of the most challenging air quality problems in the nation. The Valley is home to over 4,000,000 residents and includes several major metropolitan areas, vast expanses of agricultural land, industrial sources, highways, and schools. The Valley is designated as an attainment area for the federal Lead (Pb), Nitrogen Dioxide (NO2), Sulfur Dioxide (SO2), and Carbon Monoxide (CO) National Ambient Air Quality Standards (NAAQS or standards). In addition, the Valley is designated as an attainment/maintenance area for the PM10 NAAQS (particulate matter less than 10 microns in diameter). The Valley is designated as a nonattainment area for federal PM2.5 and ozone (O3) standards. To address the air quality needs of this expansive and diverse region, the District maintains a robust air monitoring program that meets federal requirements while providing vital information to the public.

The air monitoring network in the Valley also includes air monitoring stations that are managed and operated by CARB and the National Park Service (NPS). Additionally, there are two tribal air monitoring stations operating in the Valley: the Tachi Yokut Tribe operates the Santa Rosa Rancheria air monitoring station located in Kings County; and the Monache Tribe and Foothill Yokut Indians operate the air monitoring station located at Table Mountain Rancheria in Fresno County. Since the tribal monitors are operated under the Tribal Authority Rule which is essential to tribal implementation of the Clean Air Act (CAA), and are not part of the District's jurisdiction, detailed site information for tribal monitors is not provided in this air monitoring network plan.

A map of air monitoring sites in the Valley is provided in Figure 1 on the following page.

Figure 1 Map of Air Monitoring Sites in the San Joaquin Valley

# **Air Monitoring Sites in Operation**



AIR POLLUTION CONTROL DISTRICT

#### SAN JOAQUIN COUNTY

- 1 Stockton-Hazelton: G, M, P, F, T
- ★2 Tracy-Airport: G, M, P, F
- \* 3 Manteca: P, F, M

#### STANISLAUS COUNTY

- # 4 Modesto-14th St. G. M. P. F.
- **★**5 Turlock: G, M, P, F

#### MERCED COUNTY

- ★6 Merced-M St. P, F
- ★ 7 Merced-Coffee: G,F,M

#### MADERA COUNTY

- \*8 Madera City: G, P, F, M
- ★9 Madera-Pump Yard: G, M

# FRESNO COUNTY

Other1:

Monache Tribe/Foothill Yokut Indians

- ▲ 10 Table Mountain AMS+: G, F, P, M
- \* 11 Tranquillity: G, F, M
- \* 12 Fresno-Sky Park: G, M
- ★ 13 Clovis: G, M, P, F
- 14 Fresno-Garland: G, M, P, F, T, N
- ★ 15 Fresno-Pacific: F
- ★ 16 Fresno-Drummond: G, P, M
- \* 17 Fresno-Foundry: G, M, F
- \* 18 Parlier: G, M
- \* 19 Huron: F, M

#### KINGS COUNTY

- \* 20 Hanford: G, F, M, P
- ± 21 Corcoran: F, M, P Other1:

Tachi Yokut Tribe

▲ 22 Santa Rosa Rancheria: G, M, P

#### TULARE COUNTY

- 23 Visalia-Church St: G, F, M, P
- \* 24 Porterville: G, F, M Other2:
- ▲ 25 Lower Kaweah: A, G, M
- ▲ 26 Ash Mountain: A, G, M, F

#### KERN COUNTY

- · 27 Shafter: G, M
- 28 Oildale: G, M, P
- ★ 29 Bakersfield-Golden/M St: F. P.
- \* 30 Bakersfield-Westwind: G, M
- a 31 Bakersfield-California: G, M, P, F, T
- \* 32 Bakersfield-Muni: G, M
- 33 Bakersfield-Airport (Planz): F
- 34 Edison: G, M
- 35 Arvin-Di-Giorgio: G, M
- ★ 36 Maricopa: G, M
- \* 37 Lebec: F, M

#### MONITORING OPERATION

- \* Sites operated by the District
- Sites operated by the District & CARB
- Sites operated by CARB
- ▲ Sites operated by other agencies Other<sup>1</sup> Tribal

Other<sup>2</sup> National Park Service

Air Monitoring Station (AMS)

#### MONITORING DESIGNATIONS

- F. Fine Particulate (PM2.5)
- G Gaseous
- M Meteorological
- P Particulate (PM10) N National Core
- T Toxins

# AIR MONITORING NETWORK PLAN REQUIREMENTS

As specified in Title 40 Code of Federal Regulations (CFR) Part 58, Section 58.10, and as a requirement of the District's EPA 105 Grant, this air monitoring network plan describes the current state of the District's monitoring network and planned changes to the network.

Each year, the District updates the air monitoring network plan and posts it for public inspection for at least 30 days prior to submitting it to the EPA Regional Administrator. Air monitoring network plans provide information on the establishment and maintenance of air monitoring networks that may include the types of stations and monitors listed in Table 1.

Table 1 Types of Air Monitoring Stations, Monitors, and Networks

Abbreviation	Full Name	Description
FRM	Federal Reference Method	EPA defines how these monitors are to work, how they are to be engineered, and how they are to measure pollutants. These monitors are used to determine compliance with EPA's health-based air quality standards.
FEM	Federal Equivalent Method	These monitors are considered to be equivalent to FRM monitors for the purpose of determining compliance with EPA's health-based air quality standards.
NCore	National Core	Multipollutant monitoring stations; in California, these are operated by CARB.
PAMS	Photochemical Assessment Monitoring Station	VOC (volatile organic compounds) speciation sites used in serious, severe, or extreme ozone nonattainment areas for precursor evaluation.
SLAMS	State and Local Air Monitoring Station	Monitoring sites that are used for determinations of compliance with federal air quality standards, though they may be used for other purposes as well.
SPM	Special Purpose Monitor	Not included when showing compliance with the minimum air monitoring requirements; an example might include a temporary monitoring station set up in an area to measure short term air quality impacts of a source. Data collected from an SPM can be used for Regulatory purposes if the monitor has been operational for two years and if the monitor is an FEM, or FRM.
STN	Speciated Trends Network	PM2.5 speciation stations that provide chemical speciation data of particulate matter (PM).

The air monitoring network plan should include a statement of purpose for each monitor and evidence that siting and operation of each monitor meets the requirements of Appendices A, C, D, and E of 40 CFR Part 58. The plan must contain the following information for each existing and proposed site (40 CFR §58.10 (b)):

- The MSA, CBSA, CSA, or other area represented by the monitor. MSA, CBSA, and CSA are statistical-based definitions for metropolitan areas provided by the Office of Management and Budget and the Census Bureau (see Table 2):
  - MSA: Metropolitan statistical area
  - o CBSA: Core-based statistical area
  - CSA: Combined statistical area
- Air Quality System (AQS) site identification number (see Table 3).
- Population estimate (see Table 4).
- Location: Street address and geographical coordinates (see Appendix B).
- Sampling and analysis methods for each measured parameter (see Appendix B).
- Operating schedules for each monitor (see Appendix B).
- Monitoring objective and spatial scale of representativeness for each monitor (as defined in Appendix D to 40 CFR Part 58) (see Appendix B).
- Any proposals to remove or move a monitoring station within 18 months of a plan submittal. Any proposed additions and discontinuations of SLAMS monitors are subject to approval according to 40 CFR §58.14 (see *Improvements and Planned Changes* section of this document).

There are several network plan requirements that pertain specifically to PM2.5 monitoring:

- The monitoring network plan must identify which sites are suitable and which are not suitable for comparison against the annual PM2.5 NAAQS as described in 40 CFR Section 58.30 (see PM2.5 Monitors section of this document).
- The plan must also document how the District provides for public review of changes to the PM2.5 monitoring network when the change impacts the location of a violating PM2.5 monitor, or the creation/change to a community monitoring zone.
- The District should submit any public comments received on PM2.5 monitoring changes in the submittal of the air monitoring network plan.
- On March 18, 2013, EPA finalized the rule to revoke the term "populationoriented." The final rule states that PM2.5 monitors at neighborhood scale or larger, or smaller scales that represent many locations in the same CBSA, are the only monitors representative of "area-wide" air quality that can be compared to the PM2.5 NAAQS.

Table 2 San Joaquin Valley Areas of Representation

TITLE	CODE
Combined Statistical Area (CSA)	Combined Statistical Area (CSA) Code
Fresno-Madera	260
Metropolitan Statistical Area (MSA)	Core-Based Statistical Area (CBSA) Code
Stockton-Lodi	44700
Modesto	33700
Merced	32900
Madera	31460
Fresno	23420
Hanford-Corcoran	25260
Visalia-Porterville	47300
Bakersfield*	12540

Monitors from both the District and the Eastern Kern County Air Pollution Control District can be counted when determining compliance with minimum monitoring requirements for the Bakersfield CBSA. However, only monitors located within the District's boundaries are included in this network plan.

**Table 3 Site Identification** 

MSA/CBSA: Stockton-Lodi							
County: San Joaquin							
Site Name	AQS ID	Operating Agency					
Stockton-Hazelton	060771002	CARB					
Tracy-Airport	060773005	SJVAPCD					
Manteca	060772010	SJVAPCD					
MSA/CBSA: Modesto							
County: Stanislaus							
Site Name	AQS ID	Operating Agency					
Modesto-14th St	06-099-0005	CARB					
Turlock	06-099-0006	SJVAPCD					
MSA/CBSA: Merced							
County: Merced							
Site Name	AQS ID	Operating Agency					
Merced-M St	06-047-2510	SJVAPCD					
Merced-Coffee	06-047-0003	SJVAPCD					
MSA/CBSA: Madera							
County: Madera							
Site Name	AQS ID	Operating Agency					
Madera-City	06-039-2010	SJVAPCD					
Madera-Pump Yard	06-039-0004	SJVAPCD					

**Table 3 Site Identification (continued)** 

	Site Identification (cor	ntinued)
MSA/CBSA: Fresno		
County: Fresno		
Site Name	AQS ID	Operating Agency
Tranquillity	06-019-2009	SJVAPCD
Fresno-Sky Park	06-019-0242	SJVAPCD
Clovis-Villa	06-019-5001	SJVAPCD
Fresno-Garland	06-019-0011	CARB
Fresno-Pacific	06-019-5025	SJVAPCD
Fresno-Drummond	06-019-0007	SJVAPCD
Fresno-Foundry	06-019-2016	SJVAPCD
Parlier	06-019-4001	SJVAPCD
Huron	06-019-2008	SJVAPCD
MSA/CBSA: Hanford-Corcoran		
County: Kings Site Name	AQS ID	Operating Agency
Hanford-Irwin	06-031-1004	SJVAPCD
Corcoran-Patterson	06-031-0004	SJVAPCD
MSA/CBSA: Visalia-Porterville		
County: Tulare		
Site Name	AQS ID	Operating Agency
Visalia-Church St	06-107-2002	CARB
Porterville	06-107-2010	SJVAPCD
Sequoia-Ash Mountain	06-107-0009	NPS
Sequoia-Lower Kaweah	06-107-0006	NPS
MSA/CBSA: Bakersfield		
County: Kern (Valley Portion)		
Site Name	AQS ID	Operating Agency
Shafter	06-029-6001	CARB and SJVAPCD
Oildale	06-029-0232	CARB
Bakersfield-Golden / M St	06-029-0010	SJVAPCD
Bakersfield-Westwind	06-029-2019	SJVAPCD
Bakersfield-California	06-029-0014	CARB
Bakersfield-Muni	06-029-2012	SJVAPCD
Bakersfield-Airport (Planz)	06-029-0016	CARB
Edison	06-029-0007	CARB
Arvin-Di Giorgio	06-029-5002	CARB
Maricopa	06-029-0008	SJVAPCD
Lebec	06-029-2009	SJVAPCD
Fener	00-023-2003	SUVAFUL

County	Total County Population*	Major Urban Area Pop > 100,000	Urban Area Pop < 100,000 and > 50,000		
San Joaquin	773,505	Stockton	Lodi, Manteca, Tracy		
Stanislaus	554,931	Modesto	Turlock		
Merced	283,352		Merced		
Madera	158,602		Madera		
Fresno	1,020,292	Fresno, Clovis	_		
Kings	153,189	_	Hanford		
Tulare	479,403	Visalia	Porterville, Tulare		
Kern (Valley Portion) **	779,304	Bakersfield	Delano		
Kern (Entire County)	916,828	Bakersfield	Delano		
San Joaquin Valley Total	4,202,578				

Table 4 San Joaquin Valley 2020 Population

# Monitoring Objectives, Site Types, and Spatial Scales

Three **basic monitoring objectives** that define the purpose of each analyzer are identified in 40 CFR Part 58 Appendix D:

- Provide air pollution data to the general public in a timely manner (timely/public).
- Support compliance with ambient air quality standards and emissions strategy development (NAAQS comparison).
- Support for air pollution research studies (research support).

**Site types** meet the objectives that define what the monitor is measuring. Some of the general monitoring site types identified in 40 CFR Part 58, Appendix D include:

- Sites located to determine the **highest concentrations** in the area covered by the network.
- Population exposure sites to measure typical concentrations in areas of high population density.
- **Source oriented** sites to determine the impact of significant sources or source categories on air quality.
- General Background sites determine background concentration levels.
- **Regional transport** sites located to determine the extent of regional pollutant transport among populated areas and in support of secondary standards
- Sites located to measure air pollution impacts on visibility, vegetation damage, or other welfare-related impacts.

Data from California Department of Finance E-1 Population Estimates for Cities, Counties and the State, January 1, 2020, Released May 7, 2021

<sup>\*\*</sup> Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries. The San Joaquin Valley Total includes the Kern (Valley Portion) population and not the Kern (Entire County) population.

Scales of spatial representativeness are described in terms of physical dimensions of the air parcel or zone where air quality is expected to be reasonably consistent around the monitor. The monitor thus represents that area, not just the location of the monitor. The following **spatial scales** are identified in 40 CFR Part 58, Appendix D:

- **Microscale**: An area ranging from several meters up to about 100 meters.
- Middle scale: An area covering between about 100 meters to 0.5 kilometers.
- **Neighborhood scale**: Covering an area between 0.5 and 4.0 kilometers in range.
- **Urban scale**: Covering an area of city-like dimensions, from about 4 to 50 kilometers.
- Regional scale: Covering a rural area of reasonably homogeneous geography without large sources, extending from tens to hundreds of kilometers.

New monitoring stations and new monitors that are intended to be compared to the NAAQS must meet EPA siting criteria. Some sites may be appropriate for monitoring all air pollutants, while other sites may be appropriate for a particular pollutant. The District balances a wide range of pollutant siting criteria, spatial scales, monitoring objectives, and practical concerns as it plans and operates its monitoring network. Table 5 summarizes the parameters measured at each air monitoring site in the San Joaquin Valley.

# Meteorology

A variety of meteorological parameters are measured for various District programs and efforts that are affected by weather. Such activities include air quality forecasting, PAMS, exceptional events, long-term planning, and pollutant trend assessment. These activities help protect public health, and have increased the public's and media's awareness of air quality and what can be done to reduce air pollution. See Table 6 for the meteorological parameters measured in the Valley.

# **State of the Air Monitoring Network**

This air monitoring network plan summarizes the state of the District's air monitoring network during 2020. Additionally, changes that the District may initiate through December 2021 are described in the *Improvements and Planned Changes* section later in this document.

 Table 5
 Pollutant Parameters Monitored in the San Joaquin Valley

Site Name	Ozone	PM2.5	PM10	PM10-2.5	NO2	00	SO2	H W	Speciated VOC	NOy	PM2.5 Speciation	< Toxics
Stockton-Hazelton	✓	✓	✓			<b>✓</b>						✓
Tracy-Airport	✓	✓	✓		✓							
Manteca		✓	✓									
Modesto-14th St	✓	✓	✓			✓					✓	
Turlock	✓	✓	✓		✓							
Merced-M St		✓	✓									
Merced-Coffee	✓	✓			✓							
Madera-City	✓	✓	✓									
Madera-Pump Yard	✓				✓			✓	✓			
Tranquillity	✓	✓										
Fresno-Sky Park	✓				✓							
Clovis-Villa	✓	✓	✓		✓	✓		✓	✓			
Fresno-Garland	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Fresno-Pacific		✓										
Fresno-Drummond	✓		✓		✓							
Fresno-Foundry		✓			✓	✓						
Parlier	✓				✓			✓	✓			
Huron		✓										
Hanford-Irwin	✓	✓	✓		✓							
Corcoran-Patterson		✓	✓									
Visalia-Church St	✓	✓	✓		✓						✓	
Porterville	✓	✓										
Sequoia-Ash Mountain	✓	✓										
Sequoia-Lower Kaweah	✓											
Shafter	✓				✓			✓	✓			
Oildale	✓		✓									
Bakersfield-Golden / M St		✓	✓									
Bakersfield-Westwind					✓							
Bakersfield-California	<b>✓</b>	✓	✓		✓						✓	✓
Bakersfield-Muni	✓				✓	<b>✓</b>		✓	✓			
Bakersfield-Airport (Planz)		✓										
Edison	✓				✓							
Arvin-Di Giorgio	✓											
Maricopa	<b>✓</b>											
Lebec		<b>✓</b>										

Table 6 Meteorological Parameters Monitored in the San Joaquin Valley

Site Name	Wind Speed	Wind Direction	Outdoor Temperature	Relative Humidity	Barometric Pressure	Solar Radiation
Stockton-Hazelton	✓	✓	✓	✓		
Tracy-Airport	✓	✓	✓		✓	
Manteca	✓	✓	✓			
Modesto-14th St	✓	✓	✓	✓		
Turlock	✓	✓	✓		✓	
Merced-Coffee	✓	✓	✓			
Madera-City	✓	✓	✓	✓	✓	✓
Madera-Pump Yard	✓	✓	✓	✓	✓	✓
Tranquillity	✓	✓	✓		✓	
Fresno-Sky Park	✓	✓	✓			
Clovis-Villa	✓	✓	✓	✓	✓	✓
Fresno-Garland	✓	✓	✓	✓	✓	
Fresno-Drummond	✓	✓	✓		✓	
Fresno-Foundry	✓	✓	✓		✓	
Parlier	✓	✓	✓	✓	✓	✓
Huron					✓	
Hanford-Irwin	✓	✓	✓		✓	
Corcoran-Patterson	✓	✓	✓			
Visalia-Church St	✓	✓	✓	✓		
Porterville	✓	✓	✓		✓	
Sequoia-Ash Mountain	✓	✓	✓	✓		✓
Sequoia-Lower Kaweah	<b>✓</b>	✓	✓	✓		<b>✓</b>
Shafter	✓	✓	✓	✓	✓	✓
Oildale	✓	✓	✓	<b>√</b>		
Bakersfield- Westwind	1	✓	✓		1	
Bakersfield- California	1	✓	✓	✓		
Bakersfield-Muni	✓	✓	✓	✓	✓	✓
Edison	✓	✓	✓	✓		
Arvin-Di Giorgio	✓	✓	✓	✓		
Maricopa	✓	✓	✓		✓	
Lebec	✓	✓	✓		✓	

# POLLUTANT MONITORING REQUIREMENTS

#### **Ozone**

In 2015, EPA revised the 8-hour average ozone NAAQS by lowering it to 0.070 parts per million (ppm), or 70 parts per billion (ppb). Ozone is formed when its precursors, oxides of nitrogen (NOx) and VOC, chemically react in the presence of heat and sunlight. The Valley's topography, high temperatures, subsidence inversions, and light winds are conducive to the formation of elevated ozone levels. Furthermore, winds at ground level or at higher altitudes transport pollutants from other basins into the Valley, within the Valley to areas downwind, and from the Valley into other regions.

As specified in 40 CFR part 58, Appendix D, Table D-2, ozone monitoring site requirements are based on MSA population and design values (see Table 7 below). Table 8 shows that the Valley's ozone monitoring network meets these requirements. Sites are intended to represent population exposures and maximum concentrations, so most ozone monitors are representative of neighborhood and regional scales. All of the SLAMS ozone analyzers in the District's network operate in compliance with 40 CFR Part 58 Appendix A and Appendix E and measure hourly ozone concentrations. The hourly ozone data is also used in the District's Real-time Air Advisory Network (RAAN) to inform the public of hourly ozone values in near real-time. As such, these analyzers are comparable to the ozone NAAQS (70 ppb) and also meet the "Timely/Public" monitor objective.

**Table 7 SLAMS Minimum Ozone Monitoring Requirements** 

MSA population, based	Number of monitors required if:				
on latest available census figures	Most recent 3-year design value concentrations ≥85% of any ozone NAAQS*	Most recent 3-year design value concentrations <85% of any ozone NAAQS*			
> 10 million	4	2			
4 - 10 million	3	1			
350,000 - < 4 million	2	1			
50,000 - < 350,000	1	0			

Table 8 Ozone Monitoring Requirements for the Valley

MSA	2020 Population	Highest 2020 Ozone Design Value in MSA Including Wildfires (ppb)	Highest 2020 Ozone Design Value in MSA Excluding Wildfires (ppb)	≥85% of any ozone NAAQS^	Number of SLAMS required	SLAMS in MSA
Stockton-Lodi	773,505	70	67	Yes	2	2
Modesto	554,931	80	77	Yes	2	2
Merced	283,352	76	73	Yes	1	1
Madera	158,602	78	74	Yes	1	2
Fresno	1,020,292	87	83	Yes	2	6
Hanford- Corcoran	153,189	80	75	Yes	1	1
Visalia- Porterville	479,403	88	86	Yes	2	4
Bakersfield *	779,304	93	87	Yes	2	7

<sup>\*</sup> Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

# **Photochemical Assessment Monitoring Stations**

The monitoring objective of Photochemical Assessment Monitoring Stations (PAMS) is "research support". Clean Air Act Section 182 and 40 CFR 58 requires serious, severe, and extreme ozone nonattainment areas to have PAMS sites measure speciated ozone precursors in order to better understand the effect of precursors and photochemistry as well as control strategies on ozone formation. PAMS sites measure ozone, carbon monoxide (CO), nitrogen oxide (NO), nitrogen dioxide (NO2), oxides of nitrogen (NOx), and non-methane hydrocarbon (NMH) as well as meteorology. Although the Valley does not exceed federal or state standards for NO2, NOx reductions contribute to air quality improvement for both ozone and particulate matter (PM).

There are four classifications of PAMS sites:

- Type 1: **Background sites** upwind of urban areas, where ozone concentrations are presumed not to be influenced by nearby urban emissions.
- Type 2: **Maximum ozone precursor emissions sites**, typically located in an urban center, where emissions strengths are the greatest.
- Type 3: **Maximum ozone concentration sites**, intended to show the highest ozone concentrations.
- Type 4: **Downwind ozone monitoring sites,** intended to capture concentrations of transported ozone and precursor pollutants, and determine possible areas from which most of the transport may originate. Type 4 sites are currently not required for the San Joaquin Valley.

<sup>^</sup> DVs with and without wildfire impacts ≥85% of any ozone NAAQS

As shown in Table 9, the District has a total of six PAMS sites configured as two networks, one for the Fresno MSA and one for the Bakersfield MSA. In May 2016, the EPA approved the relocation of the ozone SLAMS monitor formerly at Arvin-Bear Mountain to the Arvin-Di Giorgio location in Kern County. Additionally, CARB has begun the process of building a permanent shelter that should have enough space to accommodate all of the PAMS equipment intended for the site. It should be noted that, in lieu of upcoming changes to PAMS program requirements, plans to continue PAMS monitoring at Arvin are pending (see *Planned Changes/Improvements* section of this document).

Each year, the PAMS program operates from June 1 through August 31 on a 1-in-3 day sampling schedule. At least four, three-hour integrated samples are collected each sampling day, which is referred to as a "Trend Day." However, additional samples are collected on "Episode Days," days that are forecasted to have high ozone concentrations. The goal is to sample on three to five multi-day episodes in an ozone season. Other PAMS equipment (e.g., ozone, NO2, non-methane hydrocarbon analyzers) operates on an hourly basis year round.

Table 9 San Joaquin Valley PAMS Network

MSA	Site	Site Type				
	Madera-Pump Yard	Type 1: Upwind/Background site				
Fresno	Clovis-Villa	Type 2: Maximum precursor emissions				
	Parlier	Type 3: Maximum ozone concentrations				
	Shafter	Type 1: Upwind/Background site				
Bakersfield	Bakersfield-Muni	Type 2: Maximum precursor emissions				
	Arvin-Di Giorgio*	Type 3: Maximum ozone concentrations				

<sup>\*</sup>CARB will install PAMS equipment for the Type 3 site at the Arvin-Di Giorgio when space becomes available.

As a part of the October 1, 2015, revisions to the PAMS requirements in 40 CFR Part 58, Appendix D, areas that are classified as Moderate nonattainment or above for 8-hour ozone must develop and implement an Enhanced Monitoring Plan (EMP), explaining how continued measurements of ozone and ozone precursors will assist in understanding the formation of ozone in the area. CARB is responsible for submitting the EMP for the entire state. According to CARB, EPA has made it clear that only an EMP submitted by CARB will satisfy the requirement. The California 2019 Enhanced Monitoring Plan satisfied the requirements of paragraph 5(h) of Appendix D to 40 CFR part 58. CARB is expected to reassess the EMP as part of the next 5-year network assessment required under 40 CFR 58.10(d).

# **Nitrogen Dioxide**

As stated in 40 CFR Part 50, the annual average NO2 standard is 53 ppb, and the 1-hour NO2 standard at the level of 100 ppb. Within the NO2 network, one microscale near-road NO2 monitoring station is required in CBSAs with populations of 1,000,000 or

more in order to meet the NAAQS. Thus a Three-Tier Network design for representing NO2 concentrations near freeways, urban areas, and locations aimed at protecting susceptible and vulnerable communities is outlined in 40 CFR Part 58. The Three-Tier Network design is comprised of:

# (1) Near-road NO2 Monitoring Requirement

Per Section 4 of Appendix D in 40 CFR Part 58, one microscale near-road NO2 monitor is required in each CBSA with a population of 1,000,000 or more and must be located near a major road segment with a high annual average daily truck traffic (AADTT) count. Another near-road monitor is required in CBSAs with populations of 2,500,000 or more; or in CBSAs with populations of 1,000,000 or more that have one or more road segments with 250,000 or more AADTT counts. Additionally, for CBSAs with populations of 1,000,000 or more, EPA requires that one PM2.5 monitor and one CO monitor be collocated at a near-road NO2 site.

In order to meet this requirement, the District proactively established two near-road NO2 monitoring stations in the air monitoring network. One of near-road stations is located in the Fresno CBSA, which reached a population of 1,000,000 in 2019. The near-road air monitoring station in Fresno became operational in January 2016. When the Fresno CBSA population reached 1,000,000, the District installed a CO analyzer and a PM2.5 analyzer to further meet EPA's requirements for near-road air monitoring. Both analyzers became operational in December 2019.

The other near-road NO2 monitoring station in the District's monitoring network is located in the Bakersfield CBSA, which is nearing a population of 1,000,000. The Bakersfield near-road air monitoring station became operational in January 2019. When the Bakersfield CBSA's population reaches 1,000,000, the District will install CO and PM2.5 analyzers as per EPA's requirements.

It should be noted that in 2020, the District has encountered some challenges at the Bakersfield near-road monitoring station. The station had two NO2 analyzers fail as a result of being inundated with construction dust from nearby roadwork on State Route 99. Both analyzers had built-in particulate filters that were designed to trap particles in typical ambient conditions. However, the filters became overwhelmed by the nearby construction as the dust particles subsequently entered the measurement system and destroyed the cavity of both analyzers. Both analyzers were destroyed, leading the District to postpone sampling until the construction work is confirmed to have subsided enough to allow near-road monitoring to resume without damaging the analyzers.

# (2) Area-wide NO2 Monitoring Requirement

Even though the District is not required to have an area-wide NO2 monitor, the District and CARB operate an extensive NO2 monitoring network consisting of 18 monitors, including one near-road NO2 monitor in Fresno and a second near-road NO2 monitor in Bakersfield. The District locates NO2 analyzers as required at PAMS sites and generally collocates NO2 analyzers wherever an ozone monitor is required. Currently,

all of the Valley's NO2 monitors are in compliance with the federal NO2 standards, including the Fresno and Bakersfield near-road NO2 monitoring stations, which are focused on capturing peak NO2 concentrations from heavily trafficked roadways.

# 3) Regional Administrator Required Monitoring

In addition to the minimum NO2 monitoring requirements, at least 40 additional NO2 monitors must be placed across the nation as determined and required by the Regional Administrators in collaboration with States. The primary focus is to place the additional NO2 monitors in locations to protect susceptible and vulnerable populations. The Regional Administrators may require monitor placement in locations inside or outside of CBSAs where:

- existing near-road NO2 monitoring are representative of areas where NO2 concentrations may be nearing or exceeding the NAAQS
- NO2 monitoring is not required but NO2 concentrations may be nearing or exceeding the NAAQS
- Area-wide NO2 monitoring objectives are not being met due to insufficiency of the minimum monitoring requirements for area-wide NO2 monitors

Currently, the Parlier site in the Fresno CBSA, and the Bakersfield-Muni site in the Bakersfield CBSA are the sites within the District's network that are designated to meet this requirement. These sites are located in towns with susceptible and vulnerable populations downwind from urban areas.

#### **Carbon Monoxide**

On August 12, 2011, EPA issued the decision to retain the existing NAAQS for CO. The primary standards are 9 ppm measured over 8 hours, and 35 ppm measured over 1 hour. Monitoring requirements for CO are specified in 40 CFR Part 58 as follows:

- CO monitors are required at all NCore sites. At least one NCore site is required in every state.
- CO must be monitored at PAMS Type 2 sites with a trace-level CO monitor.
- One CO monitor is required to be placed at a near-road NO2 monitoring station in a CBSA with population of 1,000,000 or more. Moving an existing monitor to a new location is acceptable.
- EPA is providing authority to EPA Regional Administrators to require additional monitoring in case-by-case circumstances, such as areas impacted by major stationary CO sources, in urban downtown areas, in urban street canyons, or in areas adversely impacted by meteorological and/or topographical influences.

The District and CARB continue CO monitoring to meet the requirement at the PAMS Type 2 sites (Clovis-Villa and Bakersfield-Muni), and the NCore site (Fresno-Garland) and to supplement related meteorological and criteria pollutant data. Additionally, Fresno is the only CBSA within the District that is comprised of more than 1,000,000

people, thus the District also monitors CO at the Fresno-Foundry site to meet the requirement its near-road NO2 monitoring station.

#### **Sulfur Dioxide**

In 2010, EPA revised the NAAQS and monitoring requirements for SO2 which are outlined in 40 CFR Part 58 Appendix D Section 4.4. As such, a new primary 1-hour standard of 75 ppb was established, and the previous 24-hour and annual primary standards were revoked. Under the revised SO2 NAAQS, the monitoring requirements are determined by a Population Weighted Emissions Index (PWEI) value in units of million persons-tons per year. The PWEI is calculated using each CBSA's updated census data and a combined total of the latest available county level SO2 emissions data in the National Emissions Inventory for the counties in each CBSA. The population of a CBSA is multiplied with the total amount of SO2 in tons per year emitted within a CBSA, and the resulting product is then divided by one million to produce the PWEI value. The Valley's PWEI values are shown in Table 10.

Table 10 San Joaquin Valley SO2 PWEI Values for 2020

County	Total County 2020 Population	SO2 Tons per Year*	PWEI
San Joaquin	773,505	2,306	1,784
Stanislaus	554,931	549	305
Merced	283,352	329	93
Madera	158,602	366	58
Fresno	1,020,292	3,880	3,958
Kings	153,189	659	101
Tulare	479,403	1,354	649
Kern (Valley Portion)	779,304	1,940	1,512

SO2 emissions data is the most recent data for each county from 2020.

Source: California Air Resources Board California Emission Inventory Development and Reporting System (CEIDARS) http://www.arb.ca.gov/ei/drei/maintain/database.htm.

As per 40 CFR Part 58, Appendix D to Part 58 – Network Design Criteria of Ambient Air Quality Monitoring, Section 4.4, at least three SO2 monitors are required in CBSAs with a PWEI value equal to or greater than 1,000,000. CBSAs with a PWEI value equal to or greater than 100,000 but less than 1,000,000, are required to have at least two SO2 monitors. A minimum of one SO2 is required in CBSAs with a PWEI value equal to or greater than 5,000, but less than 100,000.

As determined by the above Network Design Criteria PWEI, the highest PWEI value (Fresno County) is only 3,958, far below the minimum of 5,000 that would require one monitor. Incidentally, the Distinct does not exceed the federal standard for SO2 and for

CBSAs that do not exceed the federal SO2 standard there is no required number of SO2 monitors. As a result, there are no SO2 monitoring requirements for the District. Despite not having any monitoring requirements, there is one SO2 monitor operating within the District's network. This monitor is located at the Fresno-Garland site to meet requirements for the NCore Network.

# **Reactive Nitrogen Compounds (NOy)**

Reactive Nitrogen Compounds (NOy) are among the precursors to ozone and PM2.5, and measuring NOy is important for understanding ozone photochemistry. As part of the National Ambient Air Monitoring Strategy (NAAMS), EPA requires NOy monitoring at 75 locations across the United States in support of a number of objectives. As such, NOy monitoring is conducted at NCore sites and in the PAMS program. NOy is currently monitored at the NCore site at Fresno-Garland within the District's network to meet this requirement.

# **Toxics**

The airborne toxics program is run by CARB. Ambient toxics measurements are collected at Stockton-Hazelton, Fresno-Garland, and Bakersfield-California. Periodic, 24-hour samples are analyzed for the following gases: benzene, carbon tetrachloride, chloroform, ethylene dibromide, ethylene dichloride, methyl chloroform, methylene chloride, perchloroethylene, toluene, trichloroethylene, and m-, p-, and o-xylene. The samples are also analyzed for 20 particulate metals including: arsenic, lead, nickel, cadmium, and hexavalent chromium.

# **Detailed Site Information – Gaseous Monitors**

Criteria such as monitoring methods, monitor types, spatial scales, site types, basic monitoring objectives, current sampling frequencies, and other requirements being met by the District's gaseous pollutants monitoring network are shown in Tables 11, 12, 22 through 27, and Appendix B.

**Table 11 Gaseous Monitors** 

0'' N	Ιαυι	FRM/FEM/Other								
Site Name	Ozone	NO2	СО	NMH	Speciated VOC					
Stockton-Hazelton	FEM	FRM	FRM							
Tracy-Airport	FEM	FEM								
Modesto-14th St	FEM		FRM							
Turlock	FEM	FEM								
Merced-Coffee	FEM	FEM								
Madera-City	FEM									
Madera-Pump Yard	FEM	FEM		Other	Other					
Tranquillity	FEM									
Fresno-Sky Park	FEM	FEM								
Clovis-Villa	FRM	FEM	FEM	Other	Other					
Fresno-Drummond	FRM	FEM								
Fresno-Foundry		FEM	FEM							
Parlier	FEM	FEM		Other	Other					
Hanford-Irwin	FEM	FEM								
Visalia-Church St	FEM	FRM								
Porterville	FEM									
Shafter	FEM	FRM		Other	Other					
Oildale	FEM									
Bakersfield-Westwind		FEM								
Bakersfield-California	FEM	FRM								
Bakersfield-Muni	FEM	FEM	FEM	Other	Other					
Edison	FEM	FRM								
Arvin-Di Giorgio	FEM									
Maricopa	FEM			I						

Monitoring method information for the Fresno-Garland NCore site is provided in Table 23.

**Table 12 Gaseous Monitors - Monitor Type** 

10.0012	Monitor Type						
Site Name	Ozone	NO2	со				
Stockton-Hazelton	SLAMS	SLAMS	SLAMS				
Tracy-Airport	SLAMS	SLAMS					
Modesto-14th St	SLAMS		SLAMS				
Turlock	SLAMS	SLAMS					
Merced-Coffee	SLAMS	SLAMS					
Madera-City	SLAMS						
Madera-Pump Yard	SLAMS	SLAMS					
Tranquillity	SLAMS						
Fresno-Sky Park	SLAMS	SLAMS					
Clovis-Villa	SLAMS	SLAMS	SLAMS				
Fresno-Drummond	SLAMS	SLAMS					
Fresno-Foundry		SLAMS	SLAMS				
Parlier	SLAMS	SLAMS					
Hanford-Irwin	SLAMS	SLAMS					
Visalia-Church St	SLAMS	SLAMS					
Porterville	SLAMS						
Shafter	SLAMS	SLAMS					
Oildale	SLAMS						
Bakersfield-Westwind		SLAMS					
Bakersfield-California	SLAMS	SLAMS					
Bakersfield-Muni	SLAMS	SLAMS	SLAMS				
Edison	SLAMS	SLAMS					
Arvin-Di Giorgio	SLAMS						
Maricopa	SLAMS						

Monitor type information for the Fresno-Garland NCore site is provided in Table 23.

# **Particulate Matter (PM)**

Particulate Matter (PM) can be emitted directly as primary PM as well as formed in the atmosphere through chemical reactions of precursors to form secondary PM. Primary PM can be emitted either naturally or as a result of human (anthropogenic) activity. The resulting ambient PM mixture includes aerosols consisting of components of nitrates, sulfates, elemental carbon, organic carbon compounds, acid aerosols, trace metals, and geological materials. Under current regulations, PM is differentiated by particle size as opposed to composition. Federal air quality standards differentiate two size fractions of PM: PM that is 10 microns or less in diameter (PM10) and the smaller subset that is 2.5 microns or less in diameter (PM2.5).

To better understand the influence of meteorology, natural events, and sources of emissions on the Valley's PM2.5 concentrations, the District conducted the California Regional Particulate Air Quality Study (CRPAQS). CRPAQS was a comprehensive particulate field study for which monitoring occurred between December 1999 and February 2001. Through the use of over 70 Special Purpose Monitor (SPM) PM10 sites and 50 SPM PM2.5 sites, researchers analyzed data from CRPAQS for database development, analysis, and modeling. In addition to CRPAQS, other Valley-specific air quality studies have assessed particulate emissions from agricultural operations, unpaved and paved road particulate emissions, and particulate formation in fog episodes. The design of the Valley's current PM network is an outgrowth of the results and analysis from CRPAQS and other research efforts.

Meteorological conditions directly influence dispersion conditions which, in turn, affect pollutant concentrations. Low pressure systems render atmospheric instability and can produce strong winds which help improve dispersion. Unstable conditions enhance vertical and horizontal mixing of air which help lift pollutants away from the surface and decrease pollutant concentrations. In contrast, high pressure systems produce stable conditions, weak winds, and temperature inversions which cause dispersion to deteriorate and pollutant concentrations to rise. Under high pressure systems, temperature inversions, wherein temperature increases with altitude, impede vertically lifting of air and are very instrumental in trapping pollutants near the Earth's surface. As such, prolonged periods of high pressure and strong inversions can lead to stagnant conditions and elevated pollutant concentrations. This is especially common for PM2.5 during the winter season.

The Valley's PM monitoring network includes federal reference method (FRM) monitors, federal equivalent method (FEM) monitors, and Non-FEM monitors. FRM monitors for PM are manual filter-based monitors. The District's PM FRM samples are primarily collected on either a one-in-six day, one-in-three day, or one-in-twelve day sampling schedule. FRM monitors meet the "NAAQS Comparison" objective, helping agencies determine the Valley's attainment status and helping shape the strategies for reaching or maintaining PM attainment. FRM filters can also be analyzed for PM speciation, lending to their usage for "Research Support" objectives as well.

FEM monitors are often a real-time monitors that have been designated by EPA as being equivalent to FRM monitors. FEMs satisfy both the "NAAQS Comparison" objective and the "Timely/Public" objective. Beta Attenuation Monitors (BAM) and Tapered Element Oscillating Microbalance (TEOM) monitors are continuous, near real-time monitors that provide the hourly PM2.5 and PM10 data used in AQI forecasts, Smoke Management System (SMS) burn allocations, hazard reduction and prescribed burning allocations and, residential wood burning declarations. The hourly PM2.5 data is also used in the District's Real-time Air Advisory Network (RAAN). As such, these monitors help meet the "Timely/Public" objective.

Not all real-time monitors meet the "NAAQS Comparison" objective because they do not meet the rigorous engineering design, quality assurance, and quality control standards necessary for comparison to the NAAQS. As such these monitors are designated as Non-FEM. The District operates four PM2.5 monitors (parameter code 88502) as SPMs. These analyzers have not been certified by EPA as comparable to the PM2.5 NAAQS and do not meet all of the certification requirements. Specifically, EPA requires a runtime of 42 minutes per hour with an eight-minute count and these analyzers operate with a runtime of 50 minutes per hour with a four-minute count. Additionally, these instruments use a Sharp Cut Cyclone PM2.5 inlet instead of a Very Sharp Cut Cyclone PM2.5 inlet. Finally, some of these monitors do not support the approved software to operate in a manner comparable to the NAAQS. While these monitors are non-FEMs, they produce valuable data that is of sufficient quality for their intended purposes. All other required PM2.5 analyzers in the District's network, both SLAMS and SPM, are operated in compliance with 40 CFR Part 58 Appendix A and Appendix E, and are comparable to the PM2.5 NAAQS.

The four Non-FEM PM2.5 monitors operating within the District's network are located at sites that are not required by EPA. The District operates these sites for various reasons, including complying with state laws (Huron), as a settlement to a lawsuit (Tracy-Airport), and for the purposes of helping the District's RAAN and forecasting programs (Porterville and Lebec). Additionally, settlements of California Environmental Quality Act (CEQA) lawsuits between a private company and a private citizen required the company to give the District specific air monitoring equipment to be operated at specific sites. All of these sites and/or equipment are not required for NAAQS purposes.

# **Detailed Site Information – PM Monitors**

As mentioned above, monitoring sites and monitors must meet siting and operational criteria as outlined in 40 CFR Part 58. Criteria such as monitor types, spatial scales, site types, basic monitoring objectives, current sampling frequencies, and other requirements being met by the District's PM network are shown in Tables 19 through 28 and Appendix B.

# **PM Collocation Requirements**

Per 40 CFR 58, Appendix A, Sections 3.2.5 and 3.2.6, the District's particulate matter collocation requirements are met by the Primary Quality Assurance Organization (PQAO). CARB is the PQAO for the District as well as several other air districts. See CARB's Air Monitoring Network Plans for details on how collocation requirements are met by the PQAO. Table 21 shows the collocated PM monitors currently operating in the District's monitoring network, and Table 22 contains details on those monitors.

# Public Review of Changes to the PM2.5 Monitoring Network

Public input is required whenever the District proposes to move an existing violating PM2.5 monitor (40 CFR 58.10(c)). The District uses the annual Air Monitoring Network Plan to notify and seek public comment on any planned changes to the existing PM2.5 network. The public is provided 30 days to comment on the Air Monitoring Network Plan and any PM2.5 network changes. The plan is posted on the District website, after which the public is notified of the availability of the document for the 30-day review. In the event of unanticipated changes to the PM2.5 network that occur outside the Air Monitoring Network Plan process, the District will post the required documentation on its website and seek public comment.

# **PM10 Monitoring Requirements**

The San Joaquin Valley has been redesignated to attainment for PM10, and the District's 2007 PM10 Maintenance Plan and ongoing PM10 monitoring ensure continued compliance with the federal PM10 standard (150 μg/m³). All required SLAMS PM10 analyzers are operated in compliance with 40 CFR Part 58, Appendix A and Appendix E and are comparable to the PM10 NAAQS.

As shown in Table 13 below, Table D-4 of Appendix D to Part 58 specifies that the minimum number of PM10 sites required per MSA is based on population. As such, Table 14 shows that the District's PM10 monitoring network meets the requirements for the San Joaquin Valley. Additionally, the 24-hour PM10 highest concentrations measured at each of the PM10 monitoring sites in the District's network during 2020 are provided in Table 15.

During 2020, the Valley was impacted by high wind and wildfire events that caused extreme increases in PM10 concentrations that led to exceedances of the PM10 NAAQS. Tables 14 and 15 show the highest measured 24-hour PM10 concentrations in the MSAs and by site with the exceptional events included and excluded. The District will revisit the number of SLAMS (Table 14) and the sampling frequency (Table 27) in each MSA each year as a part of the annual Air Monitoring Network Plan.

Table 13 Minimum PM10 Monitoring Requirements\*

Population category	High concentration** > 186 μg/m³	Medium concentration*** ≥ 124 μg/m³	Low concentration**** < 124 μg/m³
>1,000,000	6–10	4–8	2–4
500,000-1,000,000	4–8	2–4	1–2
250,000-500,000	3–4	1–2	0–1
100,000–250,000	1–2	0–1	0

<sup>\*</sup> A range is presented, and the actual number of stations per area is jointly determined by EPA, CARB, and the local agency.

Table 14 PM10 Monitoring Requirements for the Valley

	1 0.0.1			4	PM10 (µg/m³)	<u>y</u>	
MSA		2020	Exceptional Include		Exceptiona Exclud		Number
	County	2020 Population	2020 24-hour Highest concentration in MSA	Number of SLAMS required	2020 24-hour Highest concentration in MSA	Number of SLAMS required	of SLAMS in MSA
Stockton- Lodi	San Joaquin	773,505	335	4-8	141	2-4	3
Modesto	Stanislaus	554,931	332	4-8	143	2-4	2
Merced	Merced	283,352	210	3-4	123	0-1	1
Madera	Madera	158,602	373	1-2	128	0-1	1
Fresno	Fresno	1,020,292	350	6-10	153	4-8	4
Hanford- Corcoran	Kings	153,189	481	1-2	164	0-1	2
Visalia- Porterville	Tulare	479,403	316	3-4	149	1-2	1
Bakersfield***	Kern	779,304	277	4-8	151	2-4	3

<sup>\*</sup> PM10 monitoring requirements for the Valley before all data influenced by exceptional events is removed

High concentration areas which ambient PM10 concentrations exceed the PM10 NAAQS by 20 percent or more.

Medium concentration areas which ambient PM10 concentrations exceed 80 percent of the PM10 NAAQS.
 Low concentration areas which ambient PM10 concentrations are less than 80 percent of the PM10 NAAQS.
 These minimum monitoring requirements apply in the absence of a design value.

<sup>\*\*</sup> PM10 monitoring requirements for the Valley after all data influenced by exceptional events is removed

<sup>\*\*\*</sup> Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

Table 15 24-Hour PM10 highest concentrations at each site<sup>^</sup>

	av N	Exceptional Events Included*	Exceptional Events Excluded**
MSA	Site Name	2020 Highest Concentration	2020 Highest Concentration
	Stockton-Hazelton	147	113
Stockton-Lodi	Tracy-Airport	235	141
	Manteca	335	129
Madaata	Modesto-14th St	332	143
Modesto	Turlock	217	134
Merced	Merced-M St	210	123
Madera	Madera-City	373	128
	Clovis-Villa	308	133
Fresno	Fresno-Garland***	296	124
	Fresno-Drummond	350	153
Hanford-	Hanford-Irwin	388	151
Corcoran	Corcoran-Patterson	481	164
Visalia- Porterville	Visalia-Church St	316	149
	Oildale	277	151
Bakersfield	Bakersfield- Golden State/M St	146	127
	Bakersfield-California	193	106

<sup>&</sup>lt;sup>^</sup>Current Sampling Frequency information is provided in Table 27.

# **PM2.5 Monitoring Requirements**

The San Joaquin Valley is designated nonattainment for PM2.5. Per 40 CFR Part 58 Appendix D Table D-5 the minimum number of PM2.5 sites required per MSA is based on population (see Table 16). Table 17 shows that the District's PM2.5 monitoring network meets the PM2.5 monitoring requirements for the San Joaquin Valley. Additionally, the 2018-2020 24-hour PM2.5 and annual design values for each site in the District's PM2.5 network are provided in Table 18.

<sup>\*</sup> PM10 monitoring requirements for the Valley before all data influenced by exceptional events is removed

<sup>\*\*</sup> PM10 monitoring requirements for the Valley after all data influenced by exceptional events is removed

<sup>\*\*\*</sup> Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23.

**Table 16 Minimum PM2.5 Monitoring Requirements** 

MSA population	Most recent 3-yr design value % of the 24-Hour or Annual PM2.5 NAAQS*							
	≥85%	<85%**						
>1,000,000	3	2						
500,000 - 1,000,000	2	1						
50,000 - <500,000	1	0						

<sup>24-</sup>hour PM<sub>2.5</sub> NAAQS is 35 μg/m<sup>3</sup>. Annual PM2.5 NAAQS is 12 μg/m<sup>3</sup>.

Table 17 PM2.5 Monitoring Requirements for the Valley\*

		Table 17	Exceptional Events Included*				eptional Ev Excluded*			
MSA C	County	2020 Population	24-hour 2018- 2020 Design Value in MSA (μg/m³)	Annual 2018- 2020 Design Value in MSA (μg/m³)	SLAMS required	24-hour 2018- 2020 Design Value in MSA (μg/m³)	Annual 2018- 2020 Design Value in MSA (μg/m³)	SLAMS required	SLAMS in MSA	Number of Continuous PM2.5 Monitors in MSA**
Stockton- Lodi	San Joaquin	773,505	69	13.7	2	65	10.4	2	2	3
Modesto	Stanislaus	554,931	71	14.5	2	65	11.0	2	2	2
Merced	Merced	283,352	53	13	1	53	10.3	1	2	1
Madera	Madera	158,602	53	13.5	1	53	10.7	1	1	1
Fresno***	Fresno	1,020,292	89 <sup>†</sup>	20.3 <sup>†</sup>	3	65	13.9	3	5	6
Hanford- Corcoran	Kings	153,189	69	16.6	1	64	13.0	1	2	2
Visalia- Porterville	Tulare	479,403	64	16.8	1	64	14.0	1	1	3
Bakersfield ****	Kern	779,304	63	17.6	2	64	15.0	2	3	3

Air quality data may include data influenced by exceptional events and/or data completeness and substitution requirements.

<sup>\*\*</sup> These minimum monitoring requirements apply in the absence of a design value.

<sup>\*\*</sup> Number of continuous monitors includes regulatory and non-regulatory monitors.

<sup>\*\*\*</sup> The PM2.5 FRM monitor at Fresno-Garland is one of the monitors helping meet the number of PM2.5 SLAMS required in the Fresno MSA.

Population estimate for Kern County (Valley Portion) was calculated using census tract data for the population living within the District's boundaries.

The Fresno County 24-hour and annual PM2.5 design values reflect the Fresno-Foundry near-road monitoring site which became operation for PM2.5 monitoring in January 2020. Data at this site was heavily impacted by smoke from numerous wildfires in 2020.

Table 18 24-Hour and Annual PM2.5 Maximum Design Values

	able to 24-riot	Exception Inclu	al Events ded*	Exception Exclu	al Events ded**	Exceptional Events Included*		
MSA	Site Name	2018- 2020 24-Hour Design Value	2018- 2020 Annual Design Value	2018- 2020 24-Hour Design Value	2018- 2020 Annual Design Value	Max Site	e in MSA Annual	
Stockton-	Stockton- Hazelton	69	13.7	64	10.4	✓	✓	
Lodi	Manteca	68	12.0	65	8.7			
Modesto	Modesto-14th St	70	12.5	65	9.1			
Modeste	Turlock	71	14.5	64	11.0	✓	✓	
Merced	Merced-M St	53	12.9	53	10.3	✓		
Wierced	Merced-Coffee	53	13.0	53	10.1		<b>✓</b>	
Madera	Madera-City	53	13.5	53	10.7	✓	✓	
	Tranquility	54	9.6	54	6.5			
	Clovis-Villa	77	14.3	65	11.1			
Fresno	Fresno-Garland	63	15.6	63	12.3			
	Fresno-Pacific	61	15.5	61	12.9			
	Fresno-Foundry	89	20.3	64	13.9	✓	✓	
Hanford-	Hanford-Irwin	69	16.6	64	13.0	✓	✓	
Corcoran	Corcoran- Patterson	68	16.1	64	12.8			
Visalia- Porterville	Visalia-Church St	64	16.8	64	14.0	✓	✓	
	Bakersfield- Golden / M St	61	16.6	61	14.1			
Bakersfield	Bakersfield- California	64	16.4	64	13.5	✓		
	Bakersfield- Airport (Planz)	63	17.6	63	15.0		✓	

Air quality data may include data influenced by exceptional events and/or data completeness and substitution requirements.

# **PM2.5 Chemical Speciation Site Requirements**

Per CFR 40 Part 58, the Chemical Speciation Network (CSN) includes Speciation Trends Network (STN) stations and supplemental speciation stations that provide chemical species data of fine particulate. Each State must conduct chemical speciation monitoring and analysis at sites that have been designated part of the STN and

<sup>\*\*</sup> Number of continuous monitors includes regulatory and non-regulatory monitors

approved by the Administrator. Monitoring methods and sampling schedules used at the PM2.5 chemical speciation urban trends sites must be approved by the Administrator. Additionally, the sites must include analysis for elements, selected anions and cations, and carbon. Speciation data can be used to support a variety of efforts including:

- Air quality modeling analyses to help track NAAQS attainment progress and emissions controls.
- Aiding the interpretation of health studies by linking health effects to PM2.5 constituents.
- Understanding the effects of atmospheric elements on visibility.
- Assisting with air monitoring network design and siting adjustments.

In addition to the STN requirement, EPA encourages air agencies to operate additional supplemental speciation monitors to meet needs independent of the requirement such as supporting health effects related studies, and developing State Implement Plans (SIP). There are seven PM2.5 speciation monitors operating in the District's network. Five of the monitors meet the STN requirement, and two are supplemental monitors. Details on these PM2.5 speciation monitors are shown in Table 19, and Appendix B.

**Table 19 PM2.5 Speciation Monitors** 

Site Name	Network Affiliation	Monitor Type	FRM/FEM/ Other	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Frequency	QA Collocated
Modesto- 14th St	CSN Supplemental	SLAMS	Other	PE	N	RS	1:6	
Fresno-	NCore, STN	Other	Other	PE	N,U	RS	1:3	
Garland*	NCore, STN	Other	Other	PE	N,U	RS	1:3	
Visalia- Church St	CSN Supplemental	SLAMS	FRM	PE	N	RS	1:3	
Dakarafiald	CSN, STN	SLAMS	Other	PE, QA	N,U	RS	1:3	<b>✓</b>
Bakersfield-	CSN, STN	Other	Other	PE	N,U	RS	1:3	
California	CSN, STN	Other	Other	PE, QA	N,U	RS	1:6	✓

PE – Population Exposure N – Neighborhood U – Urban RS – Research TP – Timely/Public Hourly = One sample every hour 1:3 = 1 in 3 day sampling 1:6 = 1 in 6 day sampling QA = Quality Assurance \*PM2.5 Speciation monitor information for the Fresno-Garland NCore site is also provided in Table 23.

Per network plan requirements described above, Tables 20 and 21 show the types of monitoring methods, collocated monitors, and monitor types operating in the District's PM monitoring network.

**Table 20 PM Monitors** 

			FRM/FEM/Other					QA Collocated		
Site Name	PM10 (man.)	PM10 (cont.)	PM2.5 (man.)	PM2.5 (cont.)	Valu	2.5 Design ue?^ or No Annual NAAQS	PM10 (man.)	PM10 (cont.)	PM2.5 (man.)	PM2.5 (cont.)
Stockton- Hazelton	FRM	FEM		FEM	Yes	Yes				FEM
Tracy-Airport		FEM		Non-FEM	No	No				
Manteca		FEM		FEM	Yes	Yes				
Modesto- 14th St		FEM		FEM	Yes	Yes			FRM	
Turlock	FRM			FEM	Yes	Yes				
Merced-M St	FRM		FRM (through 1/24/21)	FEM (starting 1/1/2021)	Yes	Yes				
Merced- Coffee				FEM	Yes	Yes				
Madera-City		FEM		FEM	Yes	Yes				
Tranquillity				FEM	Yes	Yes				
Clovis-Villa	FRM	FEM		FEM	Yes	Yes			FRM	
Fresno- Pacific			FRM (through 1/24/21)	FEM (starting 1/1/2021)	Yes	Yes				
Fresno- Drummond	FRM				No	No	FRM			
Fresno- Foundry				FEM	Yes	Yes				
Huron				Non-FEM	No	No				
Hanford-Irwin	FRM	FEM		FEM	Yes	Yes				
Corcoran- Patterson		FEM	FRM		Yes	Yes				FEM
Visalia- Church St		FEM	FRM (through1 2/7/20)	Non-FEM (through 12/8/20) FEM (starting 12/9/20)	No	No				
Porterville				Non-FEM	No	No				
Oildale		FEM			No	No				
Bakersfield- Golden / M St	FRM		FRM (through 12/31/20)	FEM (starting 1/1/2021)	Yes	Yes				
Bakersfield- California	FRM		FRM	Non-FEM	Yes	Yes	FRM		FRM	
Bakersfield- Airport (Planz)			FRM		Yes	Yes				
Lebec				Non-FEM	No	No				

cont. - Continuous man. - Manual QA = Quality Assurance

Monitoring method and monitor collocation information for the Fresno-Garland NCore site is provided in Table 23.

**Table 21 PM Monitors – Monitor Type** 

			or Type	10 1110111	тог туро	QA Colle	ocated	
Site Name	PM2.5	PM2.5	PM10	PM10	PM2.5	PM2.5	PM10	PM10
Olto Hamo	(man.)	(cont.)	(man.)	(cont.)	(man.)	(cont.)	(man.)	(cont.)
Stockton-Hazelton	,	SLAMS	SLAMS	(22.2)	, ,	SLAMS	, ,	
Tracy-Airport		SPM		SLAMS				
Manteca		SLAMS		SLAMS				
Modesto-14th St		SLAMS		SLAMS	SLAMS			
Turlock		SLAMS	SLAMS					
Merced-M St	SLAMS		SLAMS					
Merced-Coffee		SLAMS						
Madera-City		SLAMS		SLAMS	SLAMS			
Tranquillity		SLAMS						
Clovis-Villa		SLAMS	SLAMS	SLAMS	SLAMS			
Fresno-Pacific	SLAMS							
Fresno-Drummond			SLAMS				SLAMS	
Fresno-Foundry		SLAMS						
Huron		SPM						
Hanford-Irwin		SLAMS	SLAMS	SLAMS				
Corcoran-Patterson	SLAMS			SLAMS		SLAMS		
Visalia-Church St	SLAMS	OTHER		SLAMS				
Porterville		SPM						
Oildale				SLAMS				
Bakersfield-Golden / M St	SLAMS		SLAMS					
Bakersfield-California	SLAMS	OTHER	SLAMS		SLAMS		SLAMS	
Bakersfield-Airport (Planz)	SLAMS							
Lebec		SPM						

cont. – Continuous man. – Manual QA = Quality Assurance

Monitor information for the QA Collocated sites is provided in Table 22.

Monitor information for the Fresno-Garland NCore site is provided in Table 23.

Basic **Monitor** Sampling Site **Spatial** Site Name **Pollutant** FRM/FEM/Other Monitoring Scale Frequency **Type** Type Objective SLAMS GB, Stockton-PM2.5 FEM Ν Hourly Hazelton (cont.) QΑ NC. RS Modesto-PM2.5 SLAMS FRM PE. Ν 1:12 14th St (man.) QA Madera-PM2.5 SLAMS FRM HC, Ν NC, RS 1:12 City (man.) QΑ Clovis-Villa PM2.5 **SLAMS** FRM HC, Ν NC, RS 1:3 (man.) QΑ PE, FRM Ν NC, RS Fresno-PM10 SLAMS 1:6 Drummond (man.) QA PM2.5 HC, NC, RS, Corcoran-Ν SLAMS FEM Hourly Patterson (cont.) PΕ TΡ PM2.5 SLAMS FRM HC, Ν NC, RS 1:12 PE, (man.) Bakersfield-QA California PM10 PE, Ν SLAMS FRM NC, RS 1:6 (man.) QΑ

**Table 22 QA Collocated Monitors** 

cont. - Continuous man. - Manual PE - Population Exposure HC - Highest Concentration GB -

General Background

N – Neighborhood RS – Research NC – NAAQS Comparison TP – Timely/Public QA – Quality Assurance

Hourly = One sample every hour 1:1 = One sample per day 1:6 = 1 in 6 day sampling Monitor information for the Fresno-Garland NCore site is provided in Table 23.

#### **NCore**

On October 17, 2006, EPA issued final amendments to the ambient air monitoring requirements for criteria pollutants. These amendments were codified in Title 40 CFR parts 53 and 58 and established a requirement for NCore multi-pollutant monitoring stations to be operational by January 1, 2011. Since CARB's Fresno-First site already met many of the NCore requirements for filter-based and continuous PM2.5, speciated PM2.5, ozone, and meteorological monitoring, CARB submitted an NCore monitoring plan to the EPA in November 2009. CARB's Fresno-First site was selected by EPA to be an NCore site for the Fresno, CA MSA. In December 2010, CARB installed trace level CO, trace level SO2, trace level NOy, and continuous PM10 and 2.5 monitors at this site. A gas dilution calibrator, a zero air generator, and digital data loggers were also installed to support NCore monitoring. In January 2012, CARB relocated the Fresno-First site (site identification number 060190008) two blocks north to the Fresno-Garland site (site identification number 060190011). The Fresno-Garland site continues to serve as the NCore site for the Fresno, CA MSA. Details on the parameters being monitored at the NCore site are shown in Table 23 and Appendix B.

Basic Current **Monitor** FRM/FEM/ Site **Spatial** QA **Pollutant** Monitoring Sampling Scale Collocation Other Type **Type** Frequency Objective PE Ozone SLAMS FEM U NC,RS Hourly Max NO<sub>2</sub> **FRM** U SLAMS NC,RS Hourly PEI CO SLAMS FRM PΕ IJ NC.RS Hourly SO2 SLAMS FEM PΕ U NC,RS Hourly NOy SLAMS Other PΕ U NC,RS Hourly RS,TP SLAMS PΕ Toxics Other Ν Hourly НС Ν PM2.5 (man.) SLAMS FRM NC,RS 1:1 HC,PE, PM2.5 (man.) SLAMS FRM Ν NC,RS 1:6 QA PM2.5 (cont.) **SLAMS FEM** HC,QA Ν NC,RS Hourly PM2.5 Other Other PΕ N,U RS 1:3 Speciation Other Other PE N,U RS 1:3 (STN) PM10 STP PΕ SLAMS **FEM** Ν NC,RS Hourly (cont.) PM10-2.5 **SLAMS** PE,QA FEM Ν NC,RS Hourly (cont.)

Table 23 Fresno-Garland NCore Site

cont. – Continuous man. – Manual PE – Population Exposure HC – Highest Concentration N – Neighborhood U – Urban RS – Research MxPEI – Max Precursor Emissions Impact NC – NAAQS Comparison TP – Timely/Public STP – Standard Temperature and Pressure Hourly = One sample every hour 1:1 = One sample per day 1:6 = 1 in 6 day sampling

#### **Non-EPA Federal Monitors**

Within the District's air monitoring network are Non-EPA Federal monitors which are located in Sequoia and Kings Canyon National Park and operated by the National Forest Service. The monitors operating at the Sequoia-Ash Mountain AMS are affiliated with the Clean Air Status and Trends Network (CASTNET). CASTNET assesses trends in pollutant concentrations, atmospheric deposition, and ecological effects due to changes in air pollutant emissions. Details on these monitors are shown in Table 24 and Appendix B.

**Table 24 Non-EPA Federal Monitors** 

Sequoia-Ash Mountain										
Parameter	Site Type	FRM/FEM/ Other	Spatial Scale	Network affiliation	Basic Monitoring Objective	Current Sampling Frequency				
Ozone	HC, RT	Other	R	CASTNET	NC, RS, TP	Hourly				
PM2.5 (continuous)	НС	Non-FEM	R	None	RS, TP	Hourly				
Meteorology	GB	Other	R	CASTNET	RS, TP	Hourly				
		Sequoi	a-Lower	Kaweah						
Parameter	Site Type	FRM/FEM/ Other	Spatial Scale	Network affiliation	Basic Monitoring Objective	Current Sampling Frequency				
Ozone	RT	Other	R	None	NC, RS, TP	Hourly				
Meteorology	GB	Other	R	None	RS, TP	Hourly				

HC – High Concentration RT – Regional Transport GB – General Background R – Regional NC – NAAQS Comparison RS – Research TP – Timely/Public Hourly = One sample every hour CASTNET – Clear Air Status and Trends Network

As previously noted, purpose, siting, and operational requirements for each monitor must be met as outlined in Appendices A, C, D, and E of 40 CFR Part 58. Accordingly, this detailed site information is provided in Tables 25 through 30 as well as in Appendix B of this network plan.

**Table 25 SLAMS Site Type** 

Table 25 SLAMS Site Type										
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	со	NMH		
Stockton- Hazelton	HC, PE		HC, PE	НС	НС	PE	PE			
Tracy-Airport	RT				RT	RT				
Manteca			HC		HC					
Modesto-14th St	HC, PE		PE		PE		PE			
Turlock	HC, PE		HC, PE	PE		PE				
Merced-M St	·	HC, PE		HC, PE						
Merced-Coffee	HC, PE		PE			PE				
Madera-City	HC, GB		PE		PE					
Madera-Pump Yard	HC, GB					PE		PE		
Tranquillity	PE		PE							
Fresno-Sky Park	HC, PE, RT					PE				
Clovis-Villa	Max PEI, HC	HC	НС	PE	НС	НС	Max PEI, PE	НС		
Fresno-Pacific		PE								
Fresno- Drummond	PE, HC, RT			PE		НС				
Fresno-Foundry			HC			HC	HC			
Parlier	HC, RT					PE		PE		
Hanford-Irwin	HC, PE		PE	PE	PE	PE				
Corcoran- Patterson		HC	HC, PE		HC, PE					
Visalia-Church St	GB	HC, PE			PE	PE				
Porterville	HC, PE									
Shafter	GB, PE					PE		PE		
Oildale Bakersfield-	HC, RT				SO					
Golden / M St		PE		PE						
Bakersfield- Westwind						НС				
Bakersfield- California	HC, GB	HC, PE	PE	PE		PE				
Bakersfield-Muni	HC					НС	PE	PE		
Bakersfield- Airport (Planz)		HC, PE								
Edison	HC, RT					PE				
Arvin-Di Giorgio	HC, PE									
Maricopa	HC, RT									
cont - Continuous	man _ N	/lopuol	PF - Popul	otion Evno	ura LIC	Lliaha	st Concentr	_4:		

cont. – Continuous man. – Manual PE – Population Exposure HC – Highest Concentration RT – Regional Transport GB – General/Background QA – QA Collocation SO – Source Oriented Site Type information for the QA Collocated sites is provided in Table 22.

Site Type information for the Fresno-Garland NCore site is provided in Table 23.

Changes made in 2021 will be reflected in next year's 2022 Network Plan.

Table 26 SLAMS - Spatial Scale

Table 26 SLAMS - Spatial Scale										
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	со	NMH		
Stockton-Hazelton	N		N	N		N	N			
Tracy-Airport	R				R	R				
Manteca			N		N					
Modesto-14th St	N	N	N		N		N			
Turlock	N		N	N		N				
Merced-M St		N		N						
Merced-Coffee	N		N			N				
Madera-City	N	N	N		N					
Madera-Pump Yard	N					N		N		
Tranquillity	U		U							
Fresno-Sky Park	N					N				
Clovis-Villa	N	N	N	N	N	N	N	N		
Fresno-Pacific		N								
Fresno-Drummond	N			N		N				
Fresno-Foundry			MC			МС	МС			
Parlier	N					N		N		
Hanford-Irwin	N		N	N	N	N				
Corcoran-Patterson		N	N		N					
Visalia-Church St	N	N			N	N				
Porterville	N									
Shafter	N					N		N		
Oildale	U				MD					
Bakersfield-Golden / M St		MC		МС						
Bakersfield-Westwind						МС				
Bakersfield-California	N	N	N	N		N				
Bakersfield-Muni	N					N	N	N		
Bakersfield-Airport (Planz)		N								
Edison	N					N				
Arvin-Di Giorgio	N									
Maricopa	N									
N - Neighborhood U -	Hrhan P	Pegional	MC N	licroscala	MD – Mid	ddla sca		nt. –		

N – Neighborhood U – Urban R – Regional MC – Microscale MD – Middle scale cont. – Continuous man. – Manual

Spatial Scale information for the QA Collocated sites is provided in Table 22.

Spatial Scale information for the Fresno-Garland NCore site is provided in Table 23.

Changes made in 2021 will be reflected in next year's 2022 Network Plan.

**Table 27 SLAMS – Basic Monitoring Objective** 

		Table 21			nitoring Or	Jecuve		
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	со	NMH
Stockton- Hazelton	NC,RS TP		NC,RS,TP	NC, RS		NC, RS, TP	NC, RS, TP	
Tracy- Airport	NC,RS,TP				NC,RS,TP	NC, RS, TP		
Manteca			NC,RS,TP		NC,RS,TP			
Modesto- 14th St	NC,RS,TP	NC, RS	NC,RS,TP		NC,RS,TP		NC, RS, TP	
Turlock	NC,RS,TP		NC,RS,TP	NC,RS		NC, RS, TP		
Merced-M St		NC, RS		NC RS				
Merced- Coffee	NC,RS,TP		NC,RS,TP			NC, RS,TP		
Madera-City	NC,RS,TP	NC,RS	NC,RS,TP		NC,RS,TP			
Madera- Pump Yard	NC,RS,TP					NC, RS, TP		RS
Tranquillity	NC,RS,TP		NC,RS,TP					
Fresno-Sky Park	NC,RS,TP					NC, RS, TP		
Clovis-Villa	NC,RS,TP	NC,RS	NC,RS,TP	NC,RS	NC,RS,TP	NC,RS, TP	NC, RS, TP	RS
Fresno- Pacific		NC,RS						
Fresno- Drummond	NC,RS,TP			NC, RS		NC,RS,TP		
Fresno- Foundry			NC,RS,TP			NC,RS,TP	NC, RS, TP	
Parlier	NC,RS,TP					NC, RS, TP		RS
Hanford- Irwin	NC,RS,TP		NC,RS,TP	NC, RS	NC,RS,TP	NC,RS,TP		
Corcoran- Patterson		NC,RS	NC,RS,TP		NC,RS,TP			
Visalia- Church St	NC,RS,TP	NC, RS			NC,RS,TP	NC, RS,TP		
Porterville	NC,RS,TP							
Shafter	NC,RS,TP					NC, RS,TP		RS, TP
Oildale	NC,RS TP				NC,RS,TP			
Bakersfield- Golden / M St		NC, RS		NC, RS				
Bakersfield- Westwind						NC, RS, TP		
Bakersfield- California	NC, RS, TP	NC, RS	RS, TP	NC, RS		NC, RS, TP		
Bakersfield- Muni	NC,RS,TP					NC, RS, TP	NC,RS, TP	RS
Bakersfield- Airport (Planz)		NC, RS						

Table 28 SLAMS - Basic Monitoring Objective (cont'd)

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	со	NMH
Edison	NC,RS,TP					NC, RS,TP		
Arvin- Di Giorgio	NC,RS,TP							
Maricopa	NC,RS,TP							

NC – NAAQS Comparison RS – Research TP – Timely/Public cont. – Continuous man. – Manual

Basic Monitor Objective information for the QA Collocated sites is provided in Table 22. Basic Monitor Objective information for the Fresno-Garland NCore site is provided in Table 23.

Changes made in 2021 will be reflected in next year's 2022 Network Plan.

Table 29 SLAMS - Current Sampling Frequency

Table 29 SLAMS – Current Sampling Frequency									
Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	СО	NMH	
Stockton- Hazelton	Hourly		Hourly	1:6	Hourly	Hourly	Hourly		
Tracy-Airport	Hourly				Hourly	Hourly			
Manteca			Hourly		Hourly				
Modesto-14th St	Hourly	1:12	Hourly		Hourly		Hourly		
Turlock	Hourly		Hourly	1:6		Hourly			
Merced-M St		1:3 (through 12/31/20)	Hourly (starting 1/1/2021)	1:6					
Merced- Coffee	Hourly		Hourly			Hourly			
Madera-City	Hourly		Hourly		Hourly				
Madera- Pump Yard	Hourly					Hourly		Hourly	
Tranquillity	Hourly		Hourly						
Fresno-Sky Park	Hourly					Hourly			
Clovis-Villa	Hourly		Hourly	1:6	Hourly	Hourly	Hourly	Hourly	
Fresno- Pacific		1:3 (through 12/31/2020)	Hourly (starting 1/1/2021)						
Fresno- Drummond	Hourly			1:6		Hourly			
Fresno- Foundry			Hourly			Hourly	Hourly		
Parlier	Hourly					Hourly		Hourly	
Hanford-Irwin	Hourly		Hourly	1:6	Hourly	Hourly			
Corcoran- Patterson		1:3	Hourly		Hourly				
Visalia- Church St	Hourly	1:3 (through 12/7/2020)	Hourly (starting 12/9/2020)		Hourly	Hourly			
Porterville	Hourly								
Shafter	Hourly					Hourly		Hourly	

Table 29 SLAMS - Current Sampling Frequency (cont'd)

Site Name	Ozone	PM2.5 (man.)	PM2.5 (cont.)	PM10 (man.)	PM10 (cont.)	NO2	со	NMH
Oildale	Hourly				Hourly			
Bakersfield- Golden / M St		1:3 (through 12/31/2020)	Hourly (starting 1/1/2021)	1:6				
Bakersfield- Westwind						Hourly		
Bakersfield- California	Hourly	1:1		1:6		Hourly		
Bakersfield- Muni	Hourly					Hourly	Hourly	Hourly
Bakersfield- Airport (Planz)		1:3						
Edison	Hourly					Hourly		
Arvin-Di Giorgio	Hourly							
Maricopa	Hourly							

cont. - Continuous

Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23

Table 30 SPM / Other (PM2.5 Continuous)

Site Name	Site Type	Spatial Scale	Basic Monitoring Objective	Current Sampling Schedule
Tracy-Airport	RT	R	TP	Hourly
Huron	PE	N	TP	Hourly
Visalia-Church St	RT, PE	N	RS, TP	Hourly
Porterville	PE	N	TP	Hourly
Lebec	PE	N	TP	Hourly

<sup>\*</sup> Other

PE – Population Exposure

RT – Regional Transport

N – Neighborhood

R – Regional

TP -

## Timely/Public Hourly One sample every hour

# IMPROVEMENTS AND PLANNED CHANGES TO THE DISTRICT'S AIR MONITORING NETWORK

The Valley air monitoring network is continually being improved. MSA/CBSA-specific changes are generally described below. Before any action is taken on the planned changes noted in this section, the District will work with CARB and EPA, as appropriate, to address necessary requirements for documentation. A summary of the planned changes to the District's air monitoring network during 2020/2021 is provided in Table 31 below.

man. – Manual

Hourly = One sample every hour

<sup>1:1 =</sup> One sample per day

<sup>1:3 = 1</sup> in 3 day sampling 1:6 = 1 in 6 day sampling

Current Sampling Frequency information for the QA Collocated sites is provided in Table 22.

#### Planned Improvements and Other Changes for 2020/2021

#### **Audit Dates for 2020**

Per CARB, notably for 2020, the audit program was fully functional from January through mid-March before being curtailed for the remainder of the year under the constraints imposed by the Governor's Executive Orders in response to the COVID-19 pandemic. Following the guidance on priorities from the March 30, 2020, U.S. EPA memo, the program was amended to continue with required audits for PM and ozone only. All ozone monitors received an annual assessment and all PM monitors, with a few exceptions, received a semi-annual assessment. Unfortunately, not all PM assessments met the criteria of being five to seven months apart. Furthermore, audits during this period were not completed for CO, NO2 and SO2 gaseous monitors.

#### Merced-M St, Fresno-Pacific, & Bakersfield-Golden/M St

Following the shutdown of the CARB laboratory on December 7, 2020, the PM2.5 FRM filter samplers at the Merced-M St, Fresno-Pacific, and Bakersfield-Golden/M St air monitoring sites were removed in December 2020. These sites began PM2.5 sampling with an FEM BAM 1022 sampler on January 1, 2021.

At Merced-M St and Bakersfield-Golden/M St sites, the District plans to replace the PM10 FRM filter samplers with real-time, continuous PM10 samplers in 2021.

#### Stockton-Hazelton

The building that houses the Stockton-Hazelton air monitoring site has been scheduled for demolition for several months. However, due to community concerns about moving a long-standing air monitoring site, CARB is currently researching a site on the same property instead of relocating to a new property. A startup date is not yet known as no lease has been signed. CARB will provide updates as the process evolves.

Additionally, following the shutdown of the CARB laboratory on December 7, 2020, the PM10 FRM filter sampler was replaced by a Met One BAM-1020 on January 28, 2021. In order to make room for the BAM, the collocated PM2.5 BAM was relocated to another site further north.

#### Modesto-14th St

Following the shutdown of the CARB laboratory on December 7, 2020, the PM2.5 FRM filter sampler was removed in January 2021. This collocation is no longer required within the PQAO.

#### Fresno-Sierra Sky Park

Vegetation to the south and southwest of the Fresno-Sierra Sky Park site (06-019-0242) has grown to the point of disrupting wind flow from the south, southwest and the

southeast. In addition, the construction of new homes has encroached upon the perimeter of the site causing potential obstructions. Based on these conditions, the site is no longer meeting the EPA's siting requirements for SLAMS monitors. The District has made efforts to resolve the landscaping issues with adjacent landowners, but has been unsuccessful in gaining cooperation for the needed changes to the landscaping. In the short term, the District will continue to operate the site as is and apply in the EPA AQS database the qualifier flag 'SX' (which means 'Does not meet siting criteria') to all gaseous data going forward to let users of the data know there are siting issues and to use the data with caution. The District will continue to make efforts to resolve the siting issues with adjacent land owners and evaluate other potential options for this site.

#### Fresno-Garland

PM2.5 FRMs were idled by lab shutdown December 7, 2020. After the lab started up again in 2021, the following changes were made to the PM10-2.5 analyzers: One pair of BAM10/BAM2.5 analyzers was removed. The remaining PM2.5 BAM1020 analyzer was designated as the primary PM2.5 analyzer. One PM 2.5 FRM analyzer was removed. The remaining PM2.5 FRM analyzer was designated as collocated, and its sampling interval was reduced to 1 in 3 days.

#### **Corcoran-Patterson**

The PM2.5 FEM QA Collocated Teledyne 602 analyzer, and the PM10 FEM Teledyne 602 analyzer were removed on 12/31/2020 and replaced with BAM 1020 analyzers on 01/01/2021.

#### Visalia-Church St

At the request of the property owner at the Visalia-Church St site, CARB has initiated the process of finding a new location in Visalia for the air monitoring station. Relocation still ongoing. Two potential sites have been identified so the administrative process is underway. Additionally, the PM2.5 non-FEM BAM1020 was converted to an FEM and replaced the FRM in December 2020.

#### **Bakersfield-California**

PM10 FRM sampling suspended in December 2020. Continuous PM10 FEM BAM installed and designated primary in April 2021. Hi-Vols have been terminated.

#### **Bakersfield-Airport (Planz)**

CARB plans are to acquire a platform to raise the sampler off of the tarmac.

#### Arvin-Di Giorgio

CARB plans to install a new, permanent monitoring shelter within the next 18 months.

## All other Sites

No changes are proposed at this time to any other sites in the District.

Table 31 Summary of Proposed Changes to the Air Monitoring Network

CBSA: Stockton	County: San Joac	ıµin
Site Name	Operating Agency	Planned Changes
Stockton-Hazelton	CARB	CARB is renegotiating a site on the same property, northwest of current site
Tracy-Airport	SJVAPCD	None
Manteca	SJVAPCD	None
CBSA: Modesto	County: Stanislau	IS .
Site Name	Operating Agency	Planned Changes
Modesto-14th St	CARB	None
Turlock	SJVAPCD	None
CBSA: Merced	County: Merced	
Site Name	Operating Agency	Planned Changes
Merced-M St	SJVAPCD	Converting filter-based PM equipment to real-time instruments
Merced-Coffee	SJVAPCD	None
CBSA: Madera	County: Madera	
Site Name	Operating Agency	Planned Changes
Madera-City	SJVAPCD	None
Madera-Pump Yard	SJVAPCD	None
CBSA: Fresno	County: Fresno	
Site Name	Operating Agency	Planned Changes
Tranquillity	SJVAPCD	None
Fresno-Sky Park	SJVAPCD	None
Clovis-Villa	SJVAPCD	None
Fresno-Garland	CARB	None
Fresno-Pacific	SJVAPCD	Converting filter-based PM2.5 equipment to real-time instrument
Fresno-Drummond	SJVAPCD	None
Fresno-Foundry (near-road)	SJVAPCD	None
Parlier	SJVAPCD	None
CBSA: Kings	County: Kings	
Site Name	Operating Agency	Planned Changes
	SJVAPCD	None
Hanford-Irwin	SJVAPCD	None

Table 31 Summary of Proposed Changes to the Air Monitoring Network (cont'd)

CBSA: Visalia-Porterville	County: Tulare	
Site Name	Operating Agency	Planned Changes
Visalia-Church St	CARB	CARB has initiated the process of finding a new location in Visalia. The administrative process is underway.
Porterville	SJVAPCD	None
Sequoia-Ash Mountain	NPS	None
Sequoia-Lower Kaweah	NPS	None
CBSA: Bakersfield	County: Kern (Va	alley Portion Only)
Site Name	Operating Agency	Planned Changes
Shafter	Shared	None
Oildale	CARB	None
Bakersfield-Golden State/M St	SJVAPCD	Converting filter-based PM equipment to real-time instruments
Bakersfield-Westwind (near-road)	SJVAPCD	None
Bakersfield-California	CARB	None
Bakersfield-Muni	SJVAPCD	None
Bakersfield-Airport (Planz)	CARB	CARB plans are to acquire a platform to raise the sampler off of the tarmac.
Edison	CARB	None
Arvin-Di Giorgio	CARB	CARB plans are to install a new, permanent monitoring shelter within the next 18 months.
Maricopa	SJVAPCD	None
Lebec	SJVAPCD	None

#### **DATA SUBMISSION REQUIREMENTS**

Air Quality and Precision data are required to be submitted to EPA 90 days after the end of the calendar quarter once all air quality assurance checks are completed. Accuracy data is submitted to EPA by CARB as part of their scheduled audits. CARB is responsible for certifying data from all CARB-operated air monitoring sites, as well as weighing and certifying filter-based measurements from District operated sites. The measurements are weighed at CARB's laboratory in Sacramento, CA. For information on CARB's data certification, see CARB's air monitoring network plan at <a href="http://www.arb.ca.gov/aqd/amnr/amnr.htm">http://www.arb.ca.gov/aqd/amnr/amnr.htm</a>. The District is responsible for certifying data from all District-operated air monitoring sites. The District certified its 2020 data on May 1, 2021.

#### **ACRONYMS AND ABBREVIATIONS**

AQI: Air Quality Index AQS: Air Quality System

BAM: Beta Attenuation Monitor

CAA: Clean Air Act

CASTNET: Clean Air Status and Trends Network

CARB: California Air Resources Board CBSA: Core-Based Statistical Area CFR: Code of Federal Regulations

CRPAQS: California Regional Particulate Air Quality Study

CO: Carbon Monoxide

CSA: Combined statistical area

District: San Joaquin Valley Air Pollution Control District

BAM: Beta Attenuation Monitor

EPA: U.S. Environmental Protection Agency

FEM: Federal Equivalent Method FRM: Federal Reference Method

LAP: Lower Air Profiler

MSA: Metropolitan statistical area

NAAQS: National Ambient Air Quality Standard

NCore: National Core

NMH: Non-Methane Hydrocarbons

NO: Nitrogen Oxide
NO2: Nitrogen Dioxide
NOx: Oxides of Nitrogen
NOy: Reactive Nitrogen
NPS: National Park Service

O3: Ozone

PAMS: Photochemical Assessment Monitoring Station

PM: Particulate Matter

PM2.5: Particulate Matter 2.5 microns or less in diameter PM10: Particulate Matter 10 microns or less in diameter

SIP: State Implementation Plan

SLAMS: State and Local Air Monitoring Station

SJVAPCD: San Joaquin Valley Air Pollution Control District

SMS: Smoke Management System

SO2: Sulfur Dioxide

SPM: Special Purpose Monitor STN: Speciated Trends Network

TEOM: Tapered Element Oscillating Microbalance

VOC: Volatile Organic Compounds

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San Joaquin Valley Air Pollution Control District	July 1, 2021
APPENDIX A:	
Air Monitoring Site Descriptions	

San Joaquin Valley Air Pollution Control District	July 1, 2021
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Appendix A: Air Monitoring Site Descriptions	

#### Stockton-Hazelton

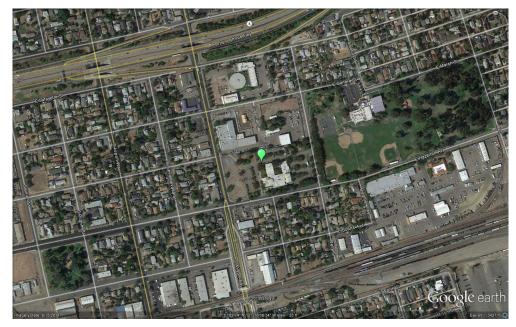
The Stockton-Hazelton monitoring site is operated by the California Air Resources Board (CARB) and is located in the Stockton, CA metropolitan area. It began operating in January 1976. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in an urban area. The site also monitors CO, NO2, toxics, and meteorology.

Site name:	Stockton-Hazelton
AQS ID:	06-077-1002
County:	San Joaquin
Street Address:	1601 E Hazelton St, Stockton CA
Street Address.	95205
Geographic Coordinates:	37.9507 N, -121.2689 W
Distance to road (meters):	62 m (north)
Traffic Count (AADT; Year):	4,600; 2019*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Stockton-Lodi

<sup>\*</sup>Traffic count estimated by City of Stockton Public Works Traffic Engineering Division (2014)







#### Manteca

The Manteca monitoring site is located in Manteca, CA and operated by the San Joaquin Valley Air Pollution Control District (SJVAPCD or District). It became operational in November 2010. The purpose of the site is to monitor representative concentrations of PM2.5 and PM10 from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Manteca
AQS ID:	06-077-2010
County:	San Joaquin
Street Address:	530 Fishback Rd, Manteca CA 95337
Geographic Coordinates:	37.793392 N, -121.247874 W
Distance to road (meters):	12 m (west)
Traffic Count (AADT; Year):	20,487; 2020*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Stockton-Lodi

\*Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120. Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report

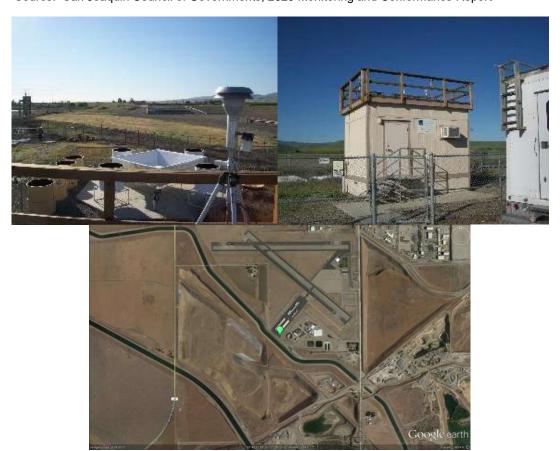


#### **Tracy-Airport**

The Tracy-Airport monitoring site, located in Tracy, CA, was part of a settlement from a lawsuit between the District and CARB that took place in 1995. This air monitoring station was installed for the purpose of monitoring transport of air pollution from the Bay Area to the San Joaquin Valley. The site became operational in 1994 and was operated by CARB until June 1995. The District began operating the site in 1996. The site has been moved several times over the years and became operational at its current location in January 2006. The site monitors transport of ozone, NO2, PM2.5, and PM10 from upwind and nearby urban areas. The site also measures meteorology.

Site name:	Tracy-Airport
AQS ID:	06-077-3005
County:	San Joaquin
Street Address:	5749 S Tracy Blvd, Tracy CA 95376
Geographic Coordinates:	37.682635 N, -121.442495 W
Distance to road (meters):	700 m (east)
Traffic Count (AADT; Year):	5,113; 2020*
Ground Cover:	Dirt and Gravel
Representative Statistical Area (CBSA):	Stockton-Lodi

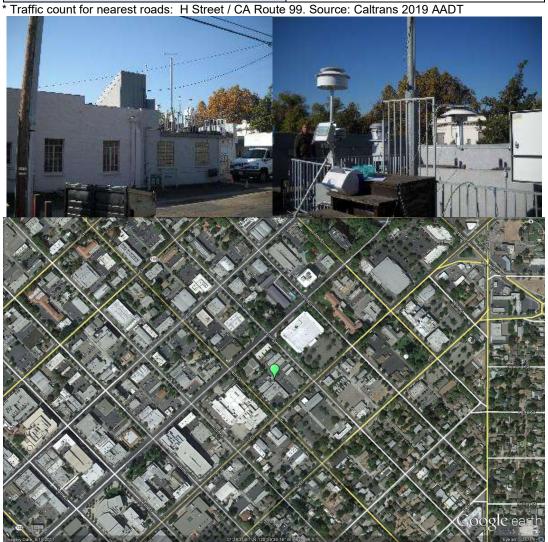
<sup>\*</sup>Traffic count for nearest roads: Linne Rd and Corral Hollow Rd.
Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report



#### Modesto-14th St

The Modesto-14<sup>th</sup> St monitoring site is operated by CARB and is located in the Modesto, CA metropolitan area. It began operating in January 1981. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in local and upwind urban areas. The site also monitors CO, PM2.5 Speciation, and meteorology.

Site name:	Modesto-14 <sup>th</sup> St
AQS ID:	06-099-0005
County:	Stanislaus
Street Address:	814 14th St, Modesto CA 95354
Geographic Coordinates:	37.6421 N, -120.9942 W
Distance to road (meters):	50 m (southwest)
Traffic Count (AADT; Year):	131,800; 2019*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Modesto



#### **Turlock**

The Turlock monitoring site is operated by the SJVAPCD and is located in Turlock, CA. It began operating in April 1992. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 from upwind urban areas. The site also monitors NO2, and meteorology.

Site name:	Turlock
AQS ID:	06-099-0006
County:	Stanislaus
Street Address:	900 S Minaret Ave, Turlock CA 95380
Geographic Coordinates:	37.488317 N, -120.836008 W
Distance to road (meters):	40 m (northeast)
Traffic Count (AADT; Year):	742; 2015*
Ground Cover:	Gravel
Representative Statistical Area (CBSA):	Modesto

<sup>\*</sup> Traffic count for Minaret Ave. between East Ave. and Berkley Ave. Five-day average two-way traffic. Source: City of Turlock Engineering Division 2015



#### Merced-M St

The Merced-M St monitoring site is operated by the SJVAPCD and is located in Merced, CA. It began operating in April 1999. The purpose of the site is to monitor representative concentrations of PM2.5 and PM10 responses from upwind urban areas.

Site name:	Merced-M St
AQS ID:	06-047-2510
County:	Merced
Street Address:	2334 M St, Merced CA 95340
Geographic Coordinates:	37.30832 N, -120.480456 W
Distance to road (meters):	55 m (northwest)
Traffic Count (AADT; Year):	51,000; 2019*
Ground Cover:	Paved, gravel
Representative Statistical Area (CBSA):	Merced

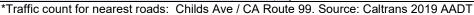
<sup>\*</sup>Traffic count for nearest roads: R St / CA Route 99. Source: Caltrans 2019 AADT



#### Merced-Coffee

The Merced-Coffee monitoring site is operated by the SJVAPCD and is located in the Merced, CA. It began operating in October 1991. The purpose of the site is to monitor representative concentrations of ozone and PM2.5 responses from upwind urban areas. The site also monitors NO2 and meteorology.

Site name:	Merced-Coffee
AQS ID:	06-047-0003
County:	Merced
Street Address:	385 S. Coffee St., Merced CA 95340
Geographic Coordinates:	37.281853 N, -120.433671 W
Distance to road (meters):	15 m (east)
Traffic Count (AAD; Year):	42,500; 2019*
Ground Cover:	Vegetative, dirt and gravel
Representative Statistical Area (CBSA):	Merced





## **Madera-City**

The Madera-City monitoring site is operated by the SJVAPCD and is located in the city of Madera, CA. It began operating in June 2010. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, PM10. The site also monitors meteorology.

Site name:	Madera-City
AQS ID:	06-039-2010
County:	Madera
Street Address:	28261 Avenue 14, Madera CA 93638
Geographic Coordinates:	36.9532 N, -120.0342 W
Distance to road (meters):	70 m (south)
Traffic Count (AADT; Year):	386; 2017*
Ground Cover:	Paved, dirt, and vegetative
Representative Statistical Area (CBSA):	Madera

\*Traffic count for nearest roads: Avenue14 west of Road 29, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2020 Traffic Volumes Report.



## **Madera-Pump Yard**

The Madera-Pump Yard monitoring site is operated by the SJVAPCD and is located in southern Madera County. It began operating in July 1997. This site was established as a Type 1 site for the Photochemical Assessment Monitoring Stations (PAMS) program, and located in an area upwind of Fresno essentially void of upwind or local ozone precursor emissions influences. This site monitors ozone, NO2, NMH, Speciated-VOC, and meteorology for the PAMS program.

Site name:	Madera-Pump Yard
AQS ID:	06-039-0004
County:	Madera
Street Address:	Avenue 8 and Road 29 1/2, Madera CA 93637
Geographic Coordinates:	36.867125 N, -120.010158 W
Distance to road (meters):	20 m (west)
Traffic Count (AADT; Year):	2,980; 2017*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Madera

\*Traffic count for nearest roads: Avenue 7 west of CA Route 99, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2020 Traffic Volumes Report.



## **Tranquillity**

The Tranquillity monitoring site is located in western Fresno County. It began operating in September 2009 and is operated by the SJVAPCD. The purpose of this site is to monitor representative background and rural pollutant concentrations of ozone and PM2.5. The site also monitors meteorology.

Site name:	Tranquillity
AQS ID:	06-019-2009
County:	Fresno
Street Address:	32650 W Adams, Tranquillity CA
	93668
Geographic Coordinates:	36.634225 N, -120.382331 W
Distance to road (meters):	200 m (south)
Traffic Count (AADT; Year):	1,750; 2019*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup> Raw traffic count for nearest roads: Adams Avenue and Route 33 (S. Derrick Avenue) Source: Caltrans 2019



## Fresno-Sierra Sky Park

The Fresno-Sierra Sky Park monitoring site is operated by the SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in July 1986. The purpose of the site is to monitor representative concentrations of ozone responses in an urban area. In addition to ozone, the site also monitors NO2 and meteorology.

Site name:	Fresno-Sky Park
AQS ID:	06-019-0242
County:	Fresno
Street Address:	4508 Chennault Ave, Fresno CA
Street Address.	93722
Geographic Coordinates:	36.841592 N, -119.874739 W
Distance to road (meters):	12 m (west)
Traffic Count (AADT; Year):	15,626; 2018*
Ground Cover:	Gravel, dirt
Representative Statistical Area (CBSA):	Fresno

\*Raw traffic count in a 24-hour period for nearest roads: Spruce Ave east of Milburn Ave Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.

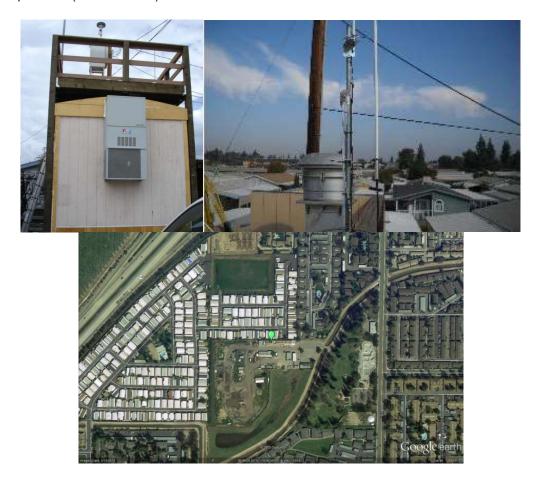


#### Clovis-Villa

The Clovis-Villa monitoring site is operated by the SJVAPCD and is located in the northeastern portion of the Fresno, CA metropolitan area. It began operating in September 1990. This site is a PAMS Type 2 site, a site intended to measure maximum ozone precursor emissions. The site monitors ozone, CO, NO2, NMH and speciated-VOC, and meteorology for the PAMS program. PM2.5 and PM10 are also monitored at the site.

Site name:	Clovis-Villa
AQS ID:	06-019-5001
County:	Fresno
Street Address:	908 N Villa Ave, Clovis CA 93612
Geographic Coordinates:	36.819449 N, -119.716433 W
Distance to road (meters):	260 m (east)
Traffic Count (AADT; Year):	6,480; 2008*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period: 6,480/2008 (Raw traffic count in a 24-hour period: Northbound Villa Avenue south of Bullard Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013 (latest available)

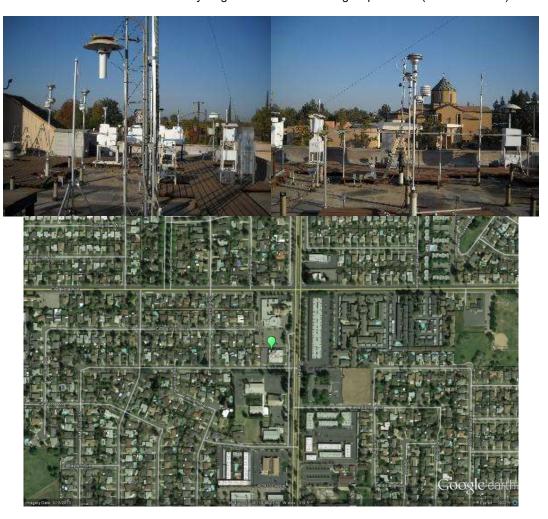


#### Fresno-Garland

The Fresno-Garland monitoring site is a National Core (NCore) site operated by CARB and is located in the Fresno, CA metropolitan area. It began operating in December 2011. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 in an urban area. The site also monitors PM10-2.5, PM2.5 Speciation, CO, NO2, NOy, SO2, Toxics, and meteorology.

Site name:	Fresno-Garland
AQS ID:	06-019-0011
County:	Fresno
Street Address:	3727 N First St, Ste.104, Fresno CA 93726
Geographic Coordinates:	36.7853 N, -119.7732 W
Distance to road (meters):	30 m (south)
Traffic Count (AADT; Year):	7,520; 2011*
Ground Cover:	Gravel covered tar paper with
	wooden deck walkways
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: First St near Dakota Ave Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013 (latest available).



#### Fresno-Pacific

The Fresno-Pacific monitoring site is operated by the SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in January 2000. The purpose of the site is to monitor representative PM2.5 concentrations in an urban area.

Site name:	Fresno-Pacific
AQS ID:	06-019-5025
County:	Fresno
Street Address:	1716 Winery Ave, Fresno, CA 93727
Geographic Coordinates:	36.7263 N, -119.7330 W
Distance to road (meters):	40 m (east)
Traffic Count (AADT; Year):	8,540; 2018*
Ground Cover:	Rubber roof coating
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: Butler Ave/Winery Ave intersection Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.



## Fresno-Foundry

The Fresno-Foundry near-road NO2 monitoring site is operated by the SJVAPCD and is located adjacent to Highway 99 in the Fresno, CA metropolitan area. It began operating in January 2016. The purpose of the site is to monitor representative maximum 1–hour NO<sub>2</sub> concentrations near a high traffic roadway in an urban area. In addition to NO<sub>2</sub>, the site also monitors PM2.5, CO, and meteorology.

Site name:	Fresno-Foundry
AQS ID:	06-019-2016
County:	Fresno
Street Address:	2482 Foundry Park Ave, Fresno, CA 93706
Geographic Coordinates:	N 36.710833, W -119.7775
Distance to road (meters):	16 to 19 meters
Traffic Count (AADT; Year):	122,000; 2019*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Traffic count for nearest roads: CA Route 99 and Jensen Ave off-ramp. Source: Caltrans (2019)



#### Fresno-Drummond

The Fresno-Drummond monitoring site is operated by the SJVAPCD and is located in the Fresno, CA metropolitan area. It began operating in July 1984. The purpose of the site is to monitor representative concentrations of ozone responses in an urban area. In addition to ozone, the site also monitors PM10, NO2, and meteorology.

Site name:	Fresno-Drummond
AQS ID:	06-019-0007
County:	Fresno
Street Address:	4706 E Drummond Ave, Fresno CA 93725
Geographic Coordinates:	36.705474 N, -119.741332 W
Distance to road (meters):	50 m (north)
Traffic Count (AADT; Year):	27,251; 2018*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Fresno

<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: Jensen Ave between Chestnut Ave and Maple Ave. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.



#### **Parlier**

The Parlier monitoring site is operated by the SJVAPCD and is located 20 miles southeast of the Fresno, CA metropolitan area. It began operating in June 1983. The purpose of the site, as a PAMS Type 3 site, is to monitor maximum ozone concentrations and ozone responses from upwind urban areas. The site also monitors NO2, NMH, speciated-VOC, and meteorology for the PAMS program.

Site name:	Parlier
AQS ID:	06-019-4001
County:	Fresno
Street Address:	9240 S Riverbend Ave, Parlier CA
	93648
Geographic Coordinates:	36.597442 N, -119.503659 W
Distance to road (meters):	100 m (east)
Traffic Count (AADT; Year):	10,150; 2009*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Fresno

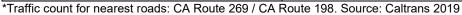
<sup>\*</sup>Raw traffic count in a 24-hour period for nearest roads: E Manning Ave west of S Lac Jac Ave. Source: Fresno COG Traffic Report, 2007-2012.



#### Huron

Huron, CA is located in southwestern Fresno County, and is about 40 miles southwest of Fresno, CA, with the coastal mountain range just to the west. North-south air flow is virtually unobstructed. This monitoring site is operated by the SJVAPCD and was established in September 2009 in order to comply with Assembly Bill (AB) 841. This site monitors PM2.5 and meteorology.

Site name:	Huron
AQS ID:	06-019-2008
County:	Fresno
Street Address:	16875 4 <sup>th</sup> St, Huron, CA 93234
Geographic Coordinates:	36.2363 N, -119.7656 W
Distance to road (meters):	100 m (north)
Traffic Count (AADT; Year):	5,400; 2019*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Fresno







#### Hanford-Irwin

The Hanford-Irwin monitoring site is operated by the SJVAPCD and is located 51 miles south of the Fresno, CA metropolitan area. The site began operating in October 1993. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, PM10, and NO2 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Hanford-Irwin
AQS ID:	06-031-1004
County:	Kings
Street Address:	807 S Irwin St, Hanford CA 93230
Geographic Coordinates:	36.31567 N, -119.643447 W
Distance to road (meters):	60 m (east)
Traffic Count (AADT; Year):	2,828; 2017*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Hanford – Corcoran

<sup>\*</sup>Traffic count for nearest roads: S. Douty Street south of E. Lang Street Source: City of Hanford Public Works - Engineering, Traffic Counts Volume Summary 2017 – City of Hanford.

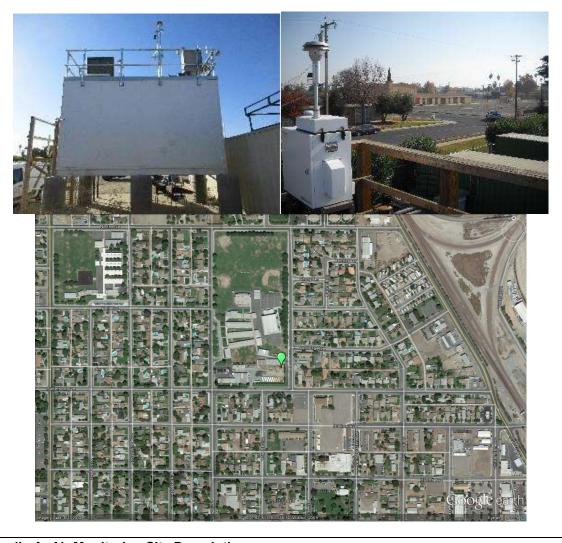


## **Corcoran-Patterson**

The Corcoran-Patterson monitoring site is operated by the SJVAPCD and is located 67 miles south of the Fresno, CA metropolitan area. It began operating in October 1996. The site measures representative concentrations of PM10 and PM2.5. This site also monitors meteorology.

Site name:	Corcoran-Patterson
AQS ID:	06-031-0004
County:	Kings
Street Address:	1520 Patterson Ave, Corcoran CA 93212
Geographic Coordinates:	36.102244 N, -119.56565 W
Distance to road (meters):	30 m (east)
Traffic Count (AADT; Year):	3,000; 2019*
Ground Cover:	Dirt, gravel
Representative Statistical Area (CBSA):	Hanford – Corcoran

<sup>\*</sup>Traffic count for nearest roads: Junction of CA Route 43 / CA Route 137. Source: Caltrans 2019.

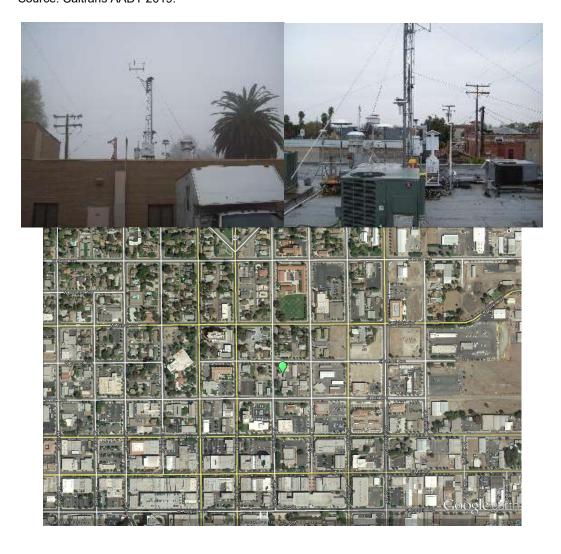


# Visalia-Church St

The Visalia-Church St monitoring site is operated by CARB. It began operating in January 1979. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 from upwind and nearby urban areas. The site also monitors NO2, PM2.5 Speciation, and meteorology.

Site name:	Visalia-Church St
AQS ID:	06-107-2002
County:	Tulare
Street Address:	310 N Church St, Visalia CA 93291
Geographic Coordinates:	36.3325 N, -119.2909 W
Distance to road (meters):	25 m (west)
Traffic Count (AADT; Year):	10,000; 2019*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Visalia – Porterville

<sup>\*</sup>Traffic count for nearest roads: N Court St at W School Ave Source: Caltrans AADT 2019.



# **Porterville**

The Porterville air monitoring site became operational in March 2010 and is operated by the SJVAPCD. The purpose of this site is to monitor ozone, PM2.5, and meteorology.

Site name:	Porterville
AQS ID:	06-107-2010
County:	Tulare
Street Address:	1839 S Newcomb St, Porterville CA 93257
Geographic Coordinates:	36.0310 N, -119.0550 W
Distance to road (meters):	100 m (south)
Traffic Count (AADT; Year):	24,500; 2019*
Ground Cover:	Paved, vegetative
Representative Statistical Area (CBSA):	Visalia-Porterville

<sup>\*</sup>Ahead AADT traffic count for nearest roads: Junction CA Route 190/CA Route 65. Source: Caltrans 2019.

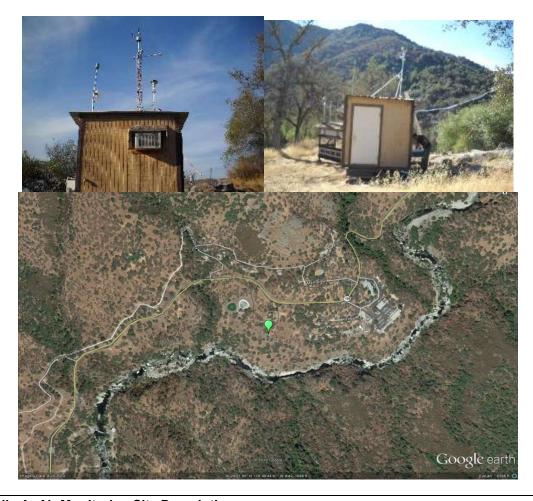


# **Sequoia-Ash Mountain**

The Ash Mountain monitoring station is operated by Sequoia and Kings Canyon National Park and is located at the southern entrance of the Park at 1,500-feet elevation. It began operating in July 1999, though the site has been relocated several times over the years. The site demonstrates the ozone concentrations in the foothills. The site also monitors PM2.5 and meteorology.

Site name:	Sequoia-Ash Mountain
AQS ID:	06-107-0009
County:	Tulare
Street Address:	Ash Mountain, Sequoia and Kings Canyon National Park 47050 Generals Hwy, Three Rivers, CA 93271
Geographic Coordinates:	36.4894 N, -118.8290 W
Distance to road (meters):	120 m (north)
Traffic Count (AADT; Year):	2,300; 2017*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Visalia – Porterville

<sup>\*</sup>Traffic count for nearest roads: CA Route 198 / Sequoia National Park boundary. Source: Caltrans Back AADT 2017



# **Sequoia-Lower Kaweah**

The Lower Kaweah monitoring station is operated by Sequoia and Kings Canyon National Park and is located at the southern entrance of the Park at 6,200-feet elevation. It began operating in January 1987. This is a seasonal-only site that monitors ozone and meteorology from May 31<sup>st</sup> to October 31<sup>st</sup> each year. The purpose of the site is to demonstrate the ozone concentrations in a rural area.

Site name:	Sequoia-Lower Kaweah
AQS ID:	06-107-0006
County:	Tulare
Street Address:	Giant Forest, Sequoia National Park, 47050 Generals Highway, Three Rivers, CA 93271
Geographic Coordinates:	36.5661 N, -118.7776 W
Distance to road (meters):	380 m (southeast)
Traffic Count (AADT; Year):	2,300; 2017*
Ground Cover:	Dirt, vegetation
Representative Statistical Area (CBSA):	Visalia – Porterville

\*Traffic count for nearest roads: CA Route 198 / Sequoia National Park boundary. Source: Caltrans Back AADT 2017



## **Shafter**

The Shafter monitoring site is a shared site operated by CARB and the SJVAPCD and is located 18 miles northwest of the Bakersfield, CA metropolitan area. It began operating in January 1989. This site was established as a PAMS Type 1 site, located in an area upwind of Bakersfield and not to be influenced by upwind or local ozone precursor emissions. In addition to ozone, the site also monitors NO2, NMH, speciated-VOC, and meteorology for the PAMS program.

Site name:	Shafter
AQS ID:	06-029-6001
County:	Kern
Street Address:	578 Walker St, Shafter CA 93263
Geographic Coordinates:	35.5034 N, -119.2726 W
Distance to road (meters):	10 m (southwest)
Traffic Count (AADT; Year):	6,028; 2020*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Central Ave and Walker St. Source: Kern Council of Governments.

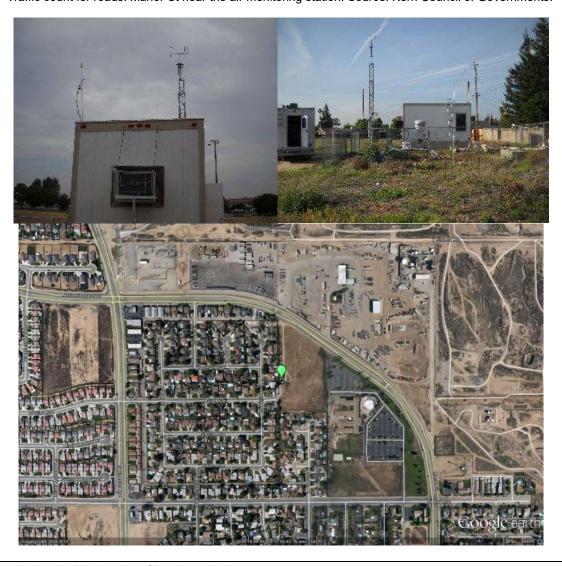


# Oildale

The Oildale monitoring site is operated by CARB and is located 6 miles north of Bakersfield, CA within the metropolitan area. It began operating in January 1980. The purpose of the site is to monitor representative concentrations of ozone and PM10. The site also monitors meteorology.

Site name:	Oildale
AQS ID:	06-029-0232
County:	Kern
Street Address:	3311 Manor St, Oildale CA 93308
Geographic Coordinates:	35.4380 N, -119.0167 W
Distance to road (meters):	150 m (northwest)
Traffic Count (AADT; Year):	6,444; 2020*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for roads: Manor St near the air monitoring station. Source: Kern Council of Governments.

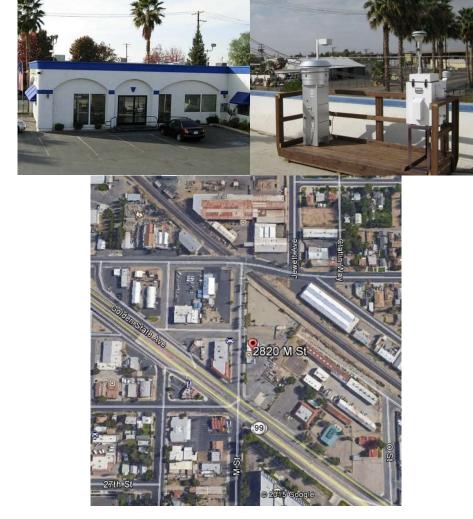


# Bakersfield-Golden / M St

The Bakersfield-Golden / M St monitoring site is operated by the SJVAPCD and is located in the Bakersfield, CA metropolitan area. It began operating in June 2014. The purpose of the site is to monitor representative concentrations of PM10 and PM2.5 in an urban area.

Site name:	Bakersfield-Golden / M St
AQS ID:	06-029-0010
County:	Kern
Street Address:	2820 M St, Bakersfield, CA 93301
Geographic Coordinates:	35.385574 N, -119.015009 W
Distance to road (meters):	13 m
Traffic Count (AADT; Year):	3,486; 2021*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: 30th St at Golden State Ave. Source: Kern Council of Governments.



### **Bakersfield-Westwind**

The Bakersfield-Westwind near-road NO2 monitoring site is operated by the SJVAPCD and is located adjacent to Highway 99 in the Bakersfield, CA metropolitan area. It began operating in January 2019. The purpose of the site is to monitor representative maximum 1–hour NO<sub>2</sub> concentrations near a high traffic roadway in an urban area. In addition to NO<sub>2</sub>, the site also monitors meteorology.

Site name:	Bakersfield-Westwind
AQS ID:	06-029-2019
County:	Kern
Street Address:	2001 Westwind Drive, Bakersfield,
Street Address.	CA 93301
Geographic Coordinates:	35.37695278N, -119.04388889W
Distance to road (meters):	16 to 19 meters
Traffic Count (AADT; Year):	125,000; 2019*
	2,812; 2020**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Kern

<sup>\*</sup> Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2017)

<sup>\*\*</sup> Traffic count for Westwind Drive near the air monitoring station; Source: Kern Council of Governments

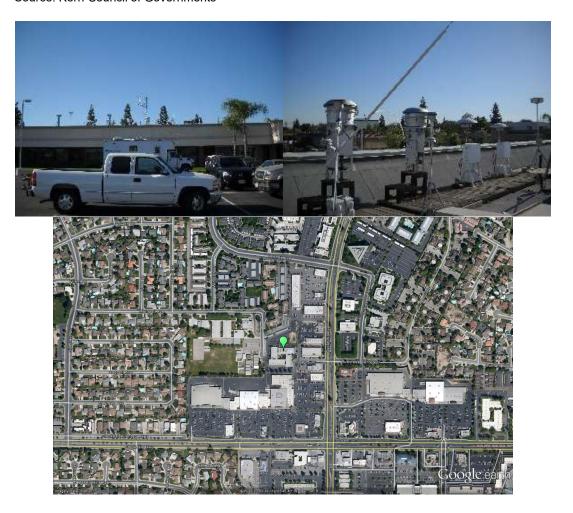


## **Bakersfield-California**

The Bakersfield-California monitoring site is operated by CARB and is located in the Bakersfield, CA metropolitan area. It began operating in March 1994. The purpose of the site is to monitor representative concentrations of ozone, PM10, and PM2.5 in an urban area. The Bakersfield-California site also monitors NO2, PM2.5 Speciation, Toxics, and meteorology.

Site name:	Bakersfield-California
AQS ID:	06-029-0014
County:	Kern
Street Address:	5558 California Ave, Bakersfield, CA 93309
Geographic Coordinates:	35.3566 N, -119.0626 W
Distance to road (meters):	300 m (south)
Traffic Count (AADT; Year):	36,207; 2020*
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr Source: Kern Council of Governments



### Bakersfield-Muni

The Bakersfield-Muni site is located in the Bakersfield, CA metropolitan area and is operated by THE SJVAPCD. It became operational in June 2012. The site serves as a PAMS Type 2 site and its purpose is to measure maximum ozone precursor emissions. The site monitors ozone, CO, NO2, NMH, Speciated-VOC, and meteorology for the PAMS program.

Site name:	Bakersfield-Muni
AQS ID:	06-029-2012
County:	Kern
Street Address:	2000 South Union Ave., Bakersfield, CA 93307
Geographic Coordinates:	35.331612 N, -118.999961 W
Distance to road (meters):	280 m (west)
Traffic Count (AADT; Year):	19,182; 2020* 6,868; 2020**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr and Watts Dr Source: Kern Council of Governments

<sup>\*\*</sup>Traffic count for road adjacent to monitoring station: Watts Dr between S Union Ave and Short St Source: Kern Council of Governments



# **Bakersfield-Airport (Planz)**

The Bakersfield-Airport (Planz) monitoring site is located in the Bakersfield, CA metropolitan area and is operated by CARB. It began operating in September 2000. The purpose of the site is to monitor representative concentrations of PM2.5 from upwind and nearby urban areas.

Site name:	Bakersfield-Airport (Planz)
AQS ID:	06-029-0016
County:	Kern
Street Address:	401 E Planz Rd, Bakersfield, CA 93307
Geographic Coordinates:	35.3246 N, -118.9976 W
Distance to road (meters):	500 m (west)
Traffic Count (AADT; Year):	14,235; 2020* 1,334; 2020**
Ground Cover:	Paved
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest cross street: S. Union Ave between E. Planz Rd and E White Lane. Source: Kern Council of Governments

<sup>\*\*</sup>Traffic count for monitoring station's street address E. Planz Rd. Source: Kern Council of Governments



# Edison

The Edison monitoring site is operated by CARB and is located 9 miles east of the Bakersfield, CA metropolitan area. It began operating in January 1980. The purpose of the site is to monitor representative concentrations of ozone from upwind and nearby urban areas. The site also monitors NO2 and meteorology.

Site name:	Edison
AQS ID:	06-029-0007
County:	Kern
Street Address:	Johnson Farm, Edison CA 93320
Geographic Coordinates:	35.3456 N, -118.8518 W
Distance to road (meters):	450 m (south)
Traffic Count (AADT; Year):	2,753; 2020*
Ground Cover:	Dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

\*Traffic count for nearest roads: Edison Hwy and Comanche Dr.

Source: Kern Council of Governments



# **Arvin-Di Giorgio**

The Arvin-Di Giorgio site is located 18 miles southeast of the Bakersfield, CA metropolitan area. The site began operating in November 2009, and currently monitors ozone and meteorology. The purpose of this site is to measure emissions downwind of the Bakersfield urban area, and serve as a PAMS Type 3 site which would monitor maximum ozone concentrations and transport from upwind urban areas. PAMS equipment will be installed at the site when space becomes available.

Site name:	Arvin-Di Giorgio	
AQS ID:	06-029-5002	
County:	Kern	
Street Address:	19405 Buena Vista Blvd, Arvin, CA 93203	
Geographic Coordinates:	35.2391 N, -118.7886 W	
Distance to road (meters):	10 m (east)	
Traffic Count (AADT; Year):	394; 2020*	
Ground Cover:	Dirt, vegetative	
Representative Statistical Area (CBSA):	Bakersfield	

\*Traffic count for Buena Vista Blvd east of Tejon Hwy. Source: Kern Council of Governments.

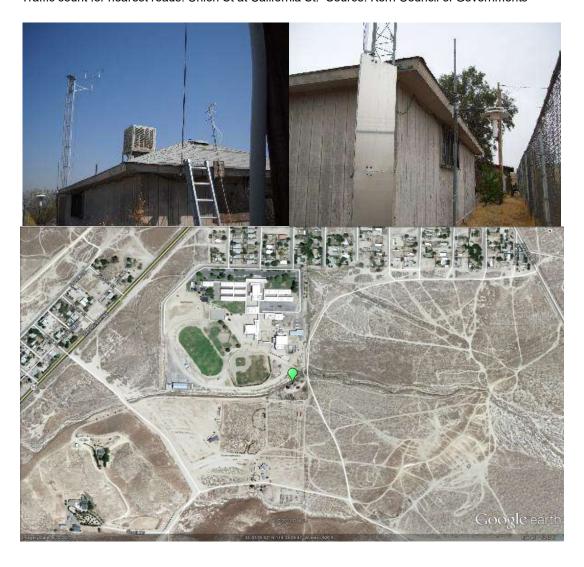


# Maricopa

The Maricopa monitoring site is operated by THE SJVAPCD and is located 45 miles southwest of the Bakersfield, CA metropolitan area. It began operating in July 1987. The purpose of the site is to monitor representative concentrations of ozone in a rural area. The site also monitors meteorology.

Site name:	Maricopa
AQS ID:	06-029-0008
County:	Kern
Street Address:	755 Stanislaus St, Maricopa CA 93352
Geographic Coordinates:	35.051454 N, -119.40262 W
Distance to road (meters):	500 m (northwest)
Traffic Count (AADT; Year):	491; 2021*
Ground Cover:	Gravel, dirt, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Union St at California St. Source: Kern Council of Governments



## Lebec

The Lebec monitoring station was initiated by the Tejon Ranch in 2004, and the District assumed responsibility for this site as of January 2009. This site monitors PM2.5 and meteorology and allows the District to better understand pollution impacts in the southern San Emigdio Mountains. The site is also used for residential wood burning declarations for the Greater Frazier Park Area.

Site name:	Lebec
AQS ID:	06-029-2009
County:	Kern
Street Address:	1277 Beartrap Rd, Lebec, CA 93243
Geographic Coordinates:	34.8415 N, -118.8610 W
Distance to road (meters):	300 m (west)
Traffic Count (AADT; Year):	494; 2018*
Ground Cover:	Gravel, vegetative
Representative Statistical Area (CBSA):	Bakersfield

<sup>\*</sup>Traffic count for nearest roads: Lebec Rd and Interstate 5. Source: Kern Council of Governments



### **Tribal Sites**

Tribal sites are operated under the Tribal Authority Rule which is essential to tribal implementation of the CAA. Since tribal sites are not part of the District's jurisdiction, detailed site information for tribal monitors will not be provided in Appendix B.

## **Table Mountain Air Monitoring Site**

The Table Mountain air monitoring station is located on Tribal land near Millerton Lake in Fresno County, CA and is operated by the Monache Tribe and Foothill Yokut Indians. The site began operating in September 2015. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Table Mountain Air Monitoring Site
AQS ID:	06-019-0500
County:	Fresno
Street Address:	Millerton Rd and Winchell Rd, Friant, CA
Street Address.	93626
Geographic Coordinates:	36.985119 N, -119.658339 W
Distance to road (meters):	Unknown
Traffic Count (AADT; Year):	53,000; 2019*
Ground Cover:	Dirt
Representative Statistical Area (CBSA):	Fresno-Madera

<sup>\*</sup>Traffic count for nearest roads: CA Route 41 and Friant Rd. Source: Caltrans 2019



## Santa Rosa Rancheria

The Santa Rosa Rancheria air monitoring site is located on Tribal land in Lemoore, Kings County, CA and is operated by the Tachi-Yokut tribe. The site began operating in August 2006. The purpose of the site is to monitor representative concentrations of ozone, PM2.5, and PM10 responses from upwind and nearby urban areas. The site also monitors meteorology.

Site name:	Santa Rosa Rancheria
AQS ID:	06-031-0500
County:	Kings
Street Address:	17225 Jersey Ave, Lemoore, CA 93245
Geographic Coordinates:	36.2332 N, -119.7662 W
Distance to road (meters):	40 m (south)
Traffic Count (AADT; Year):	775; 2014*
Ground Cover:	Dirt, paved
Representative Statistical Area (CBSA):	Hanford-Corcoran

<sup>\*</sup>Traffic count for nearest roads: Jackson Ave and 16th Ave Source: 2014 Kings County Regional Transportation Plan – Kings County Association of Governments



San Joaquin Valley Air Pollution Control District July 1, 2021				
Appendix B:				
Detailed Site Information				

n Joaquin Valley Air Pollution Control District	July 1, 2021	
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pendix B: Detailed Air Monitoring Site Information		

#### List of Abbreviations

Site Type			
PE	Population Exposure		
HC	Highest Concentration		
Max PEI	Max Precursor Emissions Impact		
RT	Regional Transport		
GB	General/Background		
SO	Source Oriented		
QA	Quality Assurance Collocation		
	Spatial Scale		
N	Neighborhood		
U	Urban		
R	Regional		
MC	Microscale		
MD	Middle Scale		
Ba	asic Monitoring Objective		
NC	NAAQS Comparison		
RS	Research		
TP	Timely/Public		
_			
N/A	Not Applicable		
AADT	Annual Average Daily Traffic		

### **Audit Dates for 2020**

Per the California Air Resources Board (CARB), the audit program was fully functional from January through mid-March 2020 before being curtailed for the remainder of the year under the constraints imposed by the pandemic. Following the guidance on priorities from the March 30, 2020, U.S. EPA memo, the program was abbreviated to continuing in accordance with the federal mandate for PM and ozone only. All ozone monitors received an annual assessment and all PM monitors, with a few exceptions, received a semi-annual assessment. Unfortunately, not all PM assessments met the criteria of being five to seven months apart. Furthermore, audits during this period were not completed for CO, NO2 and SO2 gaseous monitors.

Site Name	Stockton-Hazelton			
AQS ID (XX-XXX-XXXX)	06-077-1002			
Representative statistical area Name (i.e. MSA, CBSA, other)	Stockton-Lodi			
County	San Joaquin			
Collecting (Operating) Agency	CARB			
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB			
Reporting Agency	CARB			
Site Start Date	1/1/1976			
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FEM, CO, NO <sub>2</sub> , Toxics			
Meteorological Parameters	Outdoor temperature, Wind direction, Wind speed, Relative humidity			
Address	1601 E. Hazelton St., Stockton CA 95205			
GPS Coordinates (decimal degrees)	37.9507 N, -121.2689 W			
Distance to roadways	62 m (north)			
Traffic Count/Year	4,600/2019 (Traffic count estimated by City of Stockton Public Works Traffic Engineering Division)			
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved			

Stockton–Hazelton (1)					
Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Parameter code	44201	81102	81102	88101	88101
Spatial scale	N	N	N	N	N
Site type	HC, PE	HC	HC	HC, PE	GB, QA
Monitoring objective	NC, RS, TP	NC, RS	NC, RS	NC, RS, TP	TP
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation	None	None	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	FEM	FEM	FEM
POC	1	2	5	3	4
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	Primary	QA Collocation
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	Υ	Υ
Instrument manufacturer and model	Teledyne API 400	Sierra Anderson 1200	Met One 1020	Met One 1020	Met One 1020
Analysis method	UV	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation
Method code	087	063	122	170	170
Monitoring start date (MM/DD/YYYY)	01/01/1976	01/01/1985	01/28/2021	05/11/2010	08/23/2010
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31
Probe/Inlet height above ground (meters)	5.7 m	6.5 m	5.7	5.7 m	5.7 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.0 m	1.7 m	2.0	2.0 m	2.0 m

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
Distance from the drip line of closest tree(s)	None	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None	None
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A	1.2
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A	N/A
Residence time (seconds)	4.1	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	No	No
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Bi-weekly	Bi-weekly	Bi-weekly	Bi-weekly
Frequency of one-point QC check (gaseous)	Nightly	N/A	N/A	N/A	N/A

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Last Annual Performance Evaluation (gaseous)	9/3/20	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/2/20, 9/3/20	3/2/20, 9/3/20	3/2/20, 9/3/20	3/2/20, 9/3/20
Changes planned within the next 18 months (Y/N)	Yes. Site demolition planned summer 2020. Site re- negotiation underway.	Yes. Analyzer was removed on 12/7/2020 and replaced with a MetOne BAM 1020 Site demolition planned summer 2020. Site renegotiation underway.	Yes. Site demolition planned summer 2020. Site re-negotiation underway.	Yes. Site demolition planned summer 2020. Site renegotiation underway.	Yes. Analyzer was removed on 1/31/2021 to make room for the PM10 MetOne BAM 1020. Site demolition planned summer 2020. Site renegotiation underway.

Site Name	Tracy - Airport
AQS ID (XX-XXX-XXXX)	06-077-3005
Representative statistical area Name (i.e. MSA, CBSA, other)	Stockton-Lodi
County	San Joaquin
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	01/01/2006
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 Non-FEM, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	5749 S. Tracy Blvd., Tracy, CA 95376
GPS Coordinates (decimal degrees)	37.6826 N, -121.4423 W
Distance to roadways (meters)	700m (east)
Traffic Count/Year	5,113/2020 (Traffic count for nearest roads: Linne Rd and Corral Hollow Rd) Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt and Gravel

Tracy – Airport (1)						
Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology	
Parameter code	44201	88502	81102	42602	Many	
Spatial scale	R	R	R	R	R	
Site type	RT	RT	RT	RT	GB	
Basic monitoring objective(s)	NC, RS, TP	TP	NC, RS, TP	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SPM	SLAMS	SLAMS	Other	
FRM/FEM/ARM/Other	FEM	Non-FEM	FEM	FEM	Other	
POC	1	3	3	1	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Primary	Other	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	BAM 1020	Teledyne 200E	ITP- 125-50HV, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C	
Analysis method	UV	Beta- Attenuation	Beta- Attenuation	CL	Many	
Method code	087	731	122	099	Many	
Monitoring start date (MM/DD/YYYY)	01/01/2006	09/27/2006	01/01/2021	01/01/2006	01/01/2006	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	5.9 m	5.6 m	5.7 m	5.9 m	10 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	1.8 m	1.9 m	2.1 m	N/A	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	
Distance from the drip line of closest tree(s)	N/A	N/A	N/A	N/A	N/A	

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	9.97	N/A	N/A	10.82	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-Weekly	Monthly	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	9/10/2020	N/A	N/A	11/15/19	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	9/10/2020, 11/4/20	9/10/2020, 11/4/20	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Manteca
AQS ID (XX-XXX-XXXX)	06-077-2010
Representative statistical area Name (i.e. MSA, CBSA, other)	Stockton-Lodi
County	San Joaquin
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	11/16/2010
Pollutant Parameters	PM2.5 FEM; PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	530 Fishback Rd., Manteca, CA 95337
GPS Coordinates (decimal degrees)	37.7933 N, -121.2477 W
Distance to roadways (meters)	12 m (west)
Traffic Count/Year	20,487/2020 (Traffic count for nearest roads: Airport Way between Lathrop Rd and Hwy 120. Source: San Joaquin Council of Governments, 2020 Monitoring and Conformance Report)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

	Manteca						
Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology			
Parameter code	88101	85101	81102	Many			
Spatial scale	N	N	N	N			
Site type	HC	HC	HC	PE			
Basic monitoring objective(s)	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP			
Monitor type	SLAMS	SLAMS	SLAMS	Other			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None			
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other			
POC	3	3	3	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other	Primary	Other			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Yes	N/A	N/A	N/A			
Instrument manufacturer and model	METOne BAM 1020	METOne BAM 1020	METOne BAM 1020	ITP – Hy-Cal 512AA3B, OT – Met One 060A- 2, BP – Met One 092, WD – Met One 020C, WS – Met One 010C			
Analysis method	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many			
Method code	170	122	122	Many			
Monitoring start date (MM/DD/YYYY)	08/27/2019	08/27/2019	08/27/2019	11/16/2010			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 – 12/31			
Probe height (meters)	3.7 m	3.6 m	3.6 m	10 m			
Distance from supporting structure (meters)	1.9m	1.8 m	1.8 m	10 m			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A			

Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	55 m	55 m	55 m	55.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	Biweekly	Biweekly	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A

Pollutant	PM2.5	PM10 LC	PM10 STP	Meteorology
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	9/8/2020, 11/4/2020	9/8/2020, 11/4/2020	9/8/2020, 11/4/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Modesto –14 <sup>th</sup> St
AQS ID (XX-XXX-XXXX)	06-099-0005
Representative statistical area Name (i.e. MSA, CBSA, other)	Modesto
County	Stanislaus
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	01/01/81
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, CO, PM2.5 Speciation (CSN Supplemental)
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity
Address	814 14th Street, Modesto CA 95354
GPS Coordinates (decimal degrees)	37.6421 N, -120.9942 W
Distance to road	50 m (southwest)
Traffic Count/Year	131,800 / 2019 (Traffic count for nearest roads: H Street / Rte 99, Source: Caltrans 2019 AADDT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Modesto -14 <sup>th</sup> St (1)					
Pollutant	Ozone	PM10 STP	PM2.5		
Parameter code	44201	81102	88101		
Spatial scale	N	N	N		
Site type	HC, PE	PE	PE		
Monitoring objective	NC, RS, TP	NC, RS, TP	NC, RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS		
Network affiliation	None	None	None		
FRM/FEM/ARM/Other	FEM	FEM	FEM		
POC	1	7	3		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	Υ		
Instrument manufacturer and model	Teledyne API 400	Met One 4 Models Beta A	Met One 1020		
Analysis method	UV	Beta Attenuation	Beta Attenuation		
Method code	087	122	170		
Monitoring start date (MM/DD/YYYY)	1/1/1981	12/1/2013	5/1/2010		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31		
Probe/Inlet height above ground (meters)	7.9 m	4.4 m	5.1 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	4.8 m	1.1 m	1.8 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None		
Distance from the drip line of closest tree(s)	None	None	None		
Distance to furnace or incinerator flue (meters)	None	None	None		
Distance between collocated monitors (meters)	N/A	N/A	2.0		
Unrestricted airflow (degrees)	360	360	360		
Probe material (Teflon, etc.)	Teflon	N/A	N/A		

Residence time (seconds)	7.6	N/A	N/A
Pollutant	Ozone	PM10 STP	PM2.5
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Monthly	Bi-Weekly
Frequency of one-point QC check (gaseous)	Nightly	N/A	N/A
Last Annual Performance Evaluation (gaseous)	9/2/20	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	9/2/20, 11/3/20	9/2/20, 11/3/20
Changes planned within the next 18 months (Y/N)	N	N	N

Modesto-14th St (2)					
Pollutant	PM2.5	PM2.5 Speciation	СО	Meteorology	
Parameter code	88101	Many	42101	Many	
Spatial scale	N	N	N	R	
Site type	PE, QA	PE	PE	GB	
Monitoring objective(s)	NC, RS	RS	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	Other	
Network affiliation	None	CSN Supplemental	None	None	
FRM/FEM/ARM/Other	FRM	Other	FRM	Other	
POC	1	5	3	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	QA Collocation	Primary	N/A	Other	
Is it suitable for comparison against the annual $PM_{2.5}$ ? (Y/N)	Y	N/A	N/A	N/A	
Instrument manufacturer and model	Thermo 2000i	Met-One SASS	API 300 EU	Vaisala HMP-155 (OT/RH); RM Young 81000 (WS/WD/3DT)	
Analysis method	Gravimetric	Many	IR	N/A	
Method code	143	810	593	Many	
Monitoring start date (MM/DD/YYYY)	01/03/95	01/14/02	01/01/13	01/01/95	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:12	1:6	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	
Probe/Inlet height above ground (meters)	6.1	5.6	7.7	8	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8	N/A	0.6	None	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	4.5	None	None	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	1 (Met tower)	None	None	
Distance from the drip line of closest tree(s)	None	40	None	None	

Pollutant	PM2.5	PM2.5 Speciation	со	Meteorology
Distance to furnace or incinerator flue (meters)	None	Approx. 40 m	None	None
Distance between collocated monitors (meters)	2.0	2.4 (URG 3000n) 4.5 (Partisol) 3.0 (BAM-10)	None	None
Unrestricted airflow (degrees)	360	Est. 350	360	360
Probe material (Teflon, etc.)	N/A	N/A	Teflon	N/A
Residence time (seconds)	N/A	N/A	9.5	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	Nightly	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	not audited in 2020	N/A
Last two semi-annual flow rate audits for PM monitors	9/2/20, 11/3/20	non-operational in 2020; not audited	N/A	N/A
Changes planned within the next 18 months (Y/N)	Analyzer was removed on 12/7/2020	N	N	N

Site Name	Turlock					
AQS ID (XX-XXX-XXXX)	06-099-0006					
Representative statistical						
area Name (i.e. MSA, CBSA, other)	Modesto					
County	Stanislaus					
Collecting (Operating) Agency	SJVAPCD					
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB					
Reporting Agency	SJVAPD: Ozone, PM2.5 FEM, NO2, Meteorology CARB: PM10 FRM					
Site Start Date	4/1/1992					
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FEM, NO2					
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure					
Address	900 S. Minaret Ave., Turlock, CA 95380					
GPS Coordinates (decimal degrees)	37.4880 N, -120.8360 W					
Distance to roadways (meters)	40m (northeast)					
Traffic Count/Year	742 / 2015 (Traffic count for Minaret Ave. between East Ave. and Berkley Ave. Five-day average two-way traffic. Source: City of Turlock Engineering Division 2015)					
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel					

	Turlock						
Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology		
Parameter code	44201	88101	81102	42602	Many		
Spatial scale	N	N	N	N	R		
Site type	HC, PE	HC, PE	PE	PE	GB		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS	NC, RS, TP	RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None		
FRM/FEM/ARM/Other	FEM	FEM	FRM	FEM	Other		
POC	1	3	1	1	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Primary	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Y	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	ECOTECH Hi-Vol 3000	Teledyne 200E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C		
Analysis method	UV	Beta Attenuation	Gravimetric	Chem.	Many		
Method code	087	170	162	099	Many		
Monitoring start date (MM/DD/YYYY)	04/01/2000	09/14/2006	09/14/2006	04/01/2000	WS, WD - 4/1/2000; OT, BP 09/03/08		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:6	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	5.6 m	5.6 m	5.5 m	5.6 m	8.3 m		

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2 m	2 m	1.6 m	2 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	21.34 m	22.88 m	21.04 m	21.34 m	20.11 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	12.04	N/A	N/A	12.93	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-weekly	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A	N/A

Pollutant	Ozone	PM2.5	PM10	NO <sub>2</sub>	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	No	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	9/1/2020	N/A	N/A	11/19/2019	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	9/1/2020, 11/19/2020	9/1/2020, 11/19/2020	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Merced-M St
AQS ID (XX-XXX-XXXX)	06-047-2510
Representative statistical	
area Name (i.e. MSA, CBSA,	Merced
other)	
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB: PM10 FRM and PM2.5 FRM
Site Start Date	04/01/1999
Pollutant Parameters	PM10 FRM, PM2.5 FRM
Meteorological Parameters	None
Address	2334 M Street, Merced, CA 95340
GPS Coordinates (decimal degrees)	37.3086 N, -120.4800 W
Distance to roadways (meters)	55 m (northwest)
Traffic Count/Year	51,000/2019 (Traffic count for nearest roads: R Street/Rte 99, Source: Caltrans 2019 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, gravel

Merced-M St					
Pollutant	PM2.5	PM10	PM2.5		
Parameter code	88101	81102	88101		
Spatial scale	N	N	N		
Site type	HC, PE	HC, PE	HC, PE		
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS		
Monitor type	SLAMS	SLAMS	SLAMS		
Network affiliation(s), if applicable					
(a monitor may have none, one, or	None	None	None		
multiple)					
FRM/FEM/ARM/Other	FRM	FRM	FEM		
POC	1	1	3		
Primary / QA Collocated / Other					
(provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-</sub>					
<sub>2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-	Primary	Primary	Primary		
PM, Pb, NO <sub>2</sub> monitors should be					
listed as "N/A".)					
Is it suitable for comparison	Υ	N/A	Υ		
against the annual PM <sub>2.5</sub> ? (Y/N)	'	14/7 (	'		
Instrument manufacturer and	Thermo-Partisol 2025i	ECOTECH Hi-Vol 3000	BAM 1022		
model					
Analysis method	Gravimetric	Gravimetric	Beta Attenuation		
Method code	145	162	209		
Monitoring start date	04/01/1999	4/01/1999	1/1/2021		
(MM/DD/YYYY)					
Required sampling frequency (e.g.					
1:3 excluding exceptional	1:3	1:6	1:1		
events/1:1 including exceptional					
events)					
Sampling season (MM/DD -	1/1 – 12/31	1/1 – 12/31	1/1 – 12/31		
MM/DD)	9.4 m	0.1 m	0.4 m		
Probe height (meters)	8.4 m	8.1 m	8.4 m		
Distance from supporting structure (vertical and horizontal, if	2.05 m	1.7 m	2.0 m		
applicable, should be provided)	2.00 111	1.7 111	2.0 111		
Distance from obstructions on					
roof. Include horizontal distance +					
vertical height above probe for	N/A	N/A	N/A		
obstructions nearby. (meters)					
obstructions nearby. (meters)					

Pollutant	PM2.5	PM10	PM2.5
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	14.7 m	13.3 m	14.7 m
Distance to furnace or incinerator flue (meters)	44.3 m	39.1 m	44.3 m
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Bi-weekly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	Monthly
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	N/A	No

Pollutant	PM2.5	PM10	PM2.5
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hi-vol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	9/1/2020, 11/4/2020	9/1/2020, 11/4/2020	N/A
Changes planned within the next 18 months (Y/N)	Y Shutdown on 12/31/2020	Yes. Replace FRM filter sampler with continuous sampler	New install 1/1/21

Site Name	Merced-Coffee
AQS ID (XX-XXX-XXXX)	06-047-0003
Representative statistical area Name (i.e. MSA, CBSA, other)	Merced
County	Merced
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	10/1/1991
Pollutant Parameters	Ozone, PM2.5 FEM, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	385 S. Coffee St., Merced, CA 95340
GPS Coordinates (decimal degrees)	37.2816 N, -120.4340 W
Distance to roadways (meters)	15 m (east)
Traffic Count/Year	42,500/2019 (Traffic count for nearest roads: Childs Avenue/Rte 99, Source: Caltrans 2019 AADT)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Vegetative, dirt and gravel

Merced-Coffee						
Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology		
Parameter code	44201	88101	42602	Many		
Spatial scale	N	N	N	R		
Site type	HC, PE	PE	PE	GB		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None		
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other		
POC	1	3	1	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Y	N/A	N/A		
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	Teledyne T200	ITP- Hampshire Controls 125-50HVB, OT- Met One 060A-2, WD- Met One 020C-1, WS-Met One 010C		
Analysis method	UV	Beta Attenuation	CL	Many		
Method code	087	170	099	Many		
Monitoring start date (MM/DD/YYYY)	10/01/1991	10/19/2009	10/01/1991	10/01/1991		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	5.4 m	5.4 m	5.4 m	7.6 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9 m	1.9 m	1.9 m	4.1 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A		

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
Distance from the drip line of closest tree(s)	13.5 m	14.0 m	13.5 m	13.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA	N/A	N/A	N/A	N/A
collocation requirement (meters).	IN/A	IN/A	IN/A	IV/A
Unrestricted airflow (degrees around probe/inlet	360	360	360	360
or percentage of monitoring path)		300		300
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	Teflon/Pyrex		Teflon/Pyrex	
SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex,	with	N/A	with	N/A
stainless steel, Teflon)	Borosilicate		Borosilicate	
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	12.87	N/A	13.62	N/A
SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	12.01	1477	10.02	147.
Frequency of one-point QC check for gaseous	Daily	N/A	Daily	N/A
instruments	Dany	14/7 (	- Daily	147.
Frequency of flow rate verification for manual PM	N/A	N/A	N/A	N/A
samplers, including Pb samplers (routine checks)			1 1,77 1	
Frequency of flow rate verification for automated	N/A	Bi-weekly	N/A	N/A
PM analyzers (routine checks)		,	-	
For low volume PM instruments (flow rate < 200				
liters/minute), is any PM instrument within 1 m of	N/A	No	N/A	N/A
the lovol? If yes, please list distance (meters) and				
instrument(s).				
For high volume PM instrument (flow rate > 200				
liters/minute), is any PM instrument within 2m of	N/A	N/A	N/A	N/A
the hivol? If yes, please list distance (meters) and				
instrument(s).  Date of Annual Performance Evaluation				
conducted in the past calendar year for gaseous	9/1/2020	N/A	11/20/2019	N/A
parameters (MM/DD/YYYY)	9/1/2020	IN/A		IN/A
Date of two semi-annual flow rate audits				
conducted in the past calendar year for PM	N/A	11/4/2020	N/A	N/A
monitors (MM/DD/YYYY, MM/DD/YYYY)	13/7	11/4/2020	11/7	
Changes planned within the next 18 months (Y/N)	N	N	N	N
Changes planned within the next to months (1/14)	IN	IN	IN	IN

Site Name	Madera-City
AQS ID (XX-XXX-XXXX)	06-039-2010
Representative statistical area Name (i.e. MSA, CBSA, other)	Madera
County	Madera
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM2.5 FRM
Reporting Agency	SJVAPCD
Site Start Date	6/1/2010
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FEM, PM2.5 FRM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation.
Address	28261 Avenue 14, Madera, CA 93638
GPS Coordinates (decimal degrees)	36.9532 N, -120.0342 W
Distance to roadways (meters)	70 m (south)
Traffic Count/Year	386/2017 (Traffic count for nearest roads: Avenue 14 west of Road 29, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, dirt, and vegetative

tial scale type ic monitoring objective(s) nitor type work affiliation(s), if applicable (a monitor may have e, one, or multiple) M/FEM/ARM/Other	Ozone 44201 N HC, GB NC, RS, TP SLAMS None. FEM 1	PM2.5 88101 N HC, QA NC, RS, SLAMS None FRM	PM2.5 88101 N PE NC, RS, TP SLAMS None FEM	PM10 LC 85101 N PE RS, TP SLAMS None FEM	PM10 STP 81102 N PE NC, RS, TP SLAMS None FEM	Meteorology Many N GB RS, TP Other None Other
tial scale type  ic monitoring objective(s)  nitor type  work affiliation(s), if applicable (a monitor may have e, one, or multiple)  M/FEM/ARM/Other	N HC, GB NC, RS, TP SLAMS None. FEM	N HC, QA NC, RS, SLAMS None FRM	N PE NC, RS, TP SLAMS None	N PE RS, TP SLAMS None FEM	N PE NC, RS, TP SLAMS None	N GB RS, TP Other None
type ic monitoring objective(s) nitor type work affiliation(s), if applicable (a monitor may have e, one, or multiple) M/FEM/ARM/Other	HC, GB NC, RS, TP SLAMS None. FEM 1	HC, QA NC, RS, SLAMS None FRM 1	PE NC, RS, TP SLAMS None	PE RS, TP SLAMS None FEM	PE NC, RS, TP SLAMS None	GB RS, TP Other None
ic monitoring objective(s)  nitor type  work affiliation(s), if applicable (a monitor may have e, one, or multiple)  M/FEM/ARM/Other	NC, RS, TP SLAMS None. FEM 1	NC, RS, SLAMS None FRM	NC, RS, TP SLAMS None FEM	RS, TP SLAMS None FEM	NC, RS, TP SLAMS None	RS, TP Other None
nitor type work affiliation(s), if applicable (a monitor may have e, one, or multiple)  M/FEM/ARM/Other	SLAMS None. FEM 1	SLAMS None FRM	TP SLAMS None FEM	SLAMS None FEM	SLAMS None	Other None
work affiliation(s), if applicable (a monitor may have e, one, or multiple)  M/FEM/ARM/Other	None. FEM 1	None FRM 1	None FEM	None FEM	None	None
e, one, or multiple) ///FEM/ARM/Other	FEM 1	FRM 1	FEM	FEM		
	1	1			FEM	Other
	•	1	3	•		Utilei
<i>-</i>	N/A		-	3	3	1
nary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , p <sub>0</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, monitors should be listed as "N/A".)		QA Collocated	Primary	Other	Other	Other
suitable for comparison against the annual PM <sub>2.5</sub> ?	N/A	Υ	Υ	N/A	N/A	N/A
rument manufacturer and model	TAPI T265	Thermo Partisol 2025i	METOne BAM 1020	METOne BAM 1020	METOne BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS- Met One 010C
lysis method	Chem	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many
hod code	199	145	170	122	122	Many
nitoring start date (MM/DD/YYYY)	12/01/2020	02/17/2014	09/20/2019	09/20/2019	09/20/2019	06/01/2010
uired sampling frequency (e.g. 1:3 excluding eptional events/1:1 including exceptional events)	Hourly	1:12	Hourly	Hourly	Hourly	Hourly
npling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 – 12/31
be height (meters)	5.1 m	5.1 m	3.7 m	3.6 m	3.6 m	10 m

Pollutant	Ozone	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2 m	2.1 m	1.9 m	1.8 m	1.8 m	7 m
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	16.0 m	16.5 m	18.1 m	16.2 m	16.2 m	14.5 m
Distance to furnace or incinerator flue (meters)	53m	53m	53 m	53 m	53 m	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; NPAMS: VOCs, Carbonyls (seconds)	9.59	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	Bi-Weekly	Bi-Weekly	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No	No	N/A

Pollutant	Ozone	PM2.5	PM2.5	PM10 LC	PM10 STP	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	10/8/2020	N/A	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	10/8/2020, 11/19/2020	10/8/2020, 11/19/2020	10/8/2020, 11/19/2020	10/8/2020, 11/19/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Site Name	Madera-Pump Yard
AQS ID (XX-XXX-XXXX)	06-039-0004
Representative statistical area Name (i.e. MSA, CBSA, other)	Madera
County	Madera
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	Varies based on which laboratory is contracted with the SJVAPCD.
Reporting Agency	SJVAPCD
Site Start Date	07/01/1997
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation
Address	Avenue 8 and Road 29 ½, Madera, CA 93637
GPS Coordinates (decimal degrees)	36.867125 N, -120.010158 W
Distance to roadways (meters)	20 m (west)
Traffic Count/Year	2,980/2017 (Traffic count for nearest roads: Avenue 7 west of Rte 99, westbound trips per hour in 24 hours. Source: Madera County Transportation Commission 2018 Traffic Volumes Report.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, paved

	Madera-Pump Yard						
Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology		
Parameter code	44201	42602	Many	43102	Many		
Spatial scale	N	N	N	N	R		
Site type	HC, GB	PE	PE	PE	GB		
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP		
Monitor type	SLAMS	SLAMS	Other	Other	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS		
FRM/FEM/ARM/Other	FEM	FEM	Other	Other	Other		
POC	1	1	1	1	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne T265	Teledyne T200	Entech Instruments	Synspec Alpha 115	ITP- Hamp.Control 125-50, OT- Met One 060A-2, BP- Met One 092, RH- Vaisala HMP110A, SRD- Epply Mod. 8-48, WD- Met One 020C, WS-Met One 010C		
Analysis method	Chem.	CL	GC	GC	Many		
Method code	199	099	126	011	Many		
Monitoring start date (MM/DD/YYYY)	07/01/1997	07/01/1997	07/01/1997	07/01/1997	07/01/1997		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 8/31	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	5.8 m	5.8 m	5.8 m	5.8 m	4.45 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2 m	2 m	2 m	2 m	8.2 m		

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above	Horiz. 20 m, Vert 0 m above
Distance from the drip line of closest tree(s)	40.5 m	40.5 m	40.5 m	40.5 m	40.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Stainless steel	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.02	13.74	9.71	11.86	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	9/9/2020	11/14/2019	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Tranquillity
AQS ID (XX-XXX-XXXX)	06-019-2009
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	09/01/2009
Pollutant Parameters	Ozone, PM2.5 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	32650 W. Adams, Tranquillity, CA 93668
GPS Coordinates (decimal degrees)	36.634225 N, -120.382331 W
Distance to roadways (meters)	200m (south)
Traffic Count/Year	1,750/2019 Raw traffic count for nearest roads: Adams Avenue and Route 33 (S. Derrick Avenue) Source: Caltrans 2019
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetative

Tranquillity						
Pollutant	Ozone	PM2.5	Meteorology			
Parameter code	44201	88101	Many			
Spatial scale	U	U	U			
Site type	PE	PE	PE			
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	TP			
Monitor type	SLAMS	SLAMS	Other			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None			
FRM/FEM/ARM/Other	FEM	FEM	Other			
POC	1	3	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Y	N/A			
Instrument manufacturer and model	Teledyne T400	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C			
Analysis method	UV	Beta attenuation	Many			
Method code	087	170	Many			
Monitoring start date (MM/DD/YYYY)	10/30/2009	10/30/2009	10/30/2009			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31			
Probe height (meters)	4.6 m	4.9 m	10.6m			
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8 m	2.1 m	10.6 m			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	82.8 m	76.8 m	76.7m			
Distance from the drip line of closest tree(s)	63.7 m	66.1 m	63.7m			
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A			

Pollutant	Ozone	PM2.5	Meteorology
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	359	359	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	7.51	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	10/7/2020	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	10/7/2020, 11/18/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Fresno-Sierra Sky Park
AQS ID (XX-XXX-XXXX)	06-019-0242
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	7/1/1986
Pollutant Parameters	Ozone, NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
Address	4508 Chenault Ave., Fresno, CA 93722
GPS Coordinates (decimal degrees)	36.8405 N, -119.8740 W
Distance to roadways (meters)	12m (west)
Traffic Count/Year	15,626 / 2018 (Raw traffic count in a 24-hour period for nearest roads: Spruce Avenue east of Milburn Avenue. Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, dirt

Fresno-Sierra Sky Park								
Pollutant	Ozone	NO <sub>2</sub>	Meteorology					
Parameter code	44201	42602	Many					
Spatial scale	N	N	N					
Site type	HC, PE, RT	PE	GB					
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS, TP					
Monitor type	SLAMS	SLAMS	Other					
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	N/A	N/A	N/A					
FRM/FEM/ARM/Other	FEM	FEM	Other					
POC	1	1	1					
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	Other					
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A					
Instrument manufacturer and model	Teledyne API T265	Teledyne T200	ITP- BA-512-A-A-3-B, OT- Met One 060A-2, WD- Met One 020C, WS- Met One 010C					
Analysis method	Chem.	CL	Many					
Method code	199	574	Many					
Monitoring start date (MM/DD/YYYY)	07/01/1986	07/01/1986	07/01/1986					
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly					
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31					
Probe height (meters)	5.5 m	5.5 m	5.6 m					
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.3 m	2.3 m	2.3 m					
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A					
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A					
Distance from the drip line of closest tree(s)	2.2 m	2.2 m	1.2 m					

Pollutant	Ozone	NO <sub>2</sub>	Meteorology
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A
Distance between monitors fulfilling a QA	N/A	N/A	N/A
collocation requirement (meters).	IN/A	IN//A	IV/A
Unrestricted airflow (degrees around probe/inlet	280	280	280
or percentage of monitoring path)	200	200	200
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> ,	Teflon/Pyrex with	Teflon/Pyrex with	
SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex,	Borosilicate	Borosilicate	N/A
stainless steel, Teflon)			
Residence time for reactive gases	40.00	40.00	NI/A
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	12.93	12.08	N/A
Carbonyls (seconds)			
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A
Frequency of flow rate verification for manual	-	-	
PM samplers, including Pb samplers (routine	N/A	N/A	N/A
checks)	11/7	IN/A	IN/A
Frequency of flow rate verification for			
automated PM analyzers (routine checks)	N/A	N/A	N/A
For low volume PM instruments (flow rate <			
200 liters/minute), is any PM instrument within	A1/A	N1/A	1,1/2
1 m of the lovol? If yes, please list distance	N/A	N/A	N/A
(meters) and instrument(s).			
For high volume PM instrument (flow rate > 200			
liters/minute), is any PM instrument within 2m	N/A	N/A	N/A
of the hivol? If yes, please list distance (meters)	IN/A	IN/A	IN/A
and instrument(s).			
Date of Annual Performance Evaluation			
conducted in the past calendar year for	7/23/2020	7/23/2020	N/A
gaseous parameters (MM/DD/YYYY)			
Date of two semi-annual flow rate audits			
conducted in the past calendar year for PM	N/A	N/A	N/A
monitors (MM/DD/YYYY, MM/DD/YYYY)			
Changes planned within the next 18 months	N	N	N
(Y/N)			

Site name	Clovis-Villa						
AQS ID (XX-XXX-XXXX)	06-019-5001						
Representative statistical area	Fresno						
Name (i.e. MSA, CBSA, other)	FIESHO						
County	Fresno						
Collecting (Operating) Agency	SJVAPCD						
Analytical Lab (i.e. weigh lab,	Varies based on which laboratory is contracted with	CARB: PM10 FRM, PI	M2.5 FRM				
toxics lab, other)	the SJVAPCD: Speciated VOC	CAIND. I WITO I NW, I I	VIZ.3 I KIVI				
Reporting Agency	SJVAPCD: PM2.5 FRM, PM2.5 FEM, PM10 FRM, PM10 FEM, Ozone, CO, NO <sub>2</sub> , NMH, Speciated VOC, Meteorology	CARB: PM10 FRM, PM2.5 FRM	SJVAPCD contracts out so Reporting lab varies from year to year: Speciated VOC				
Site Start Date	09/01/1990						
Pollutant Parameters	Ozone, PM10 FRM, PM10 FEM, PM2.5 FEM, PM2.5 F	FRM, CO, NO <sub>2</sub> , NMH, S	peciated VOC				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relat	tive humidity, barometric	pressure, solar radiation				
Address	908 N. Villa Ave., Clovis CA 93612						
GPS Coordinates (decimal degrees)	36.8194 N, -119.7160 W						
Distance to roadways (meters)	260 m (east)						
Traffic Count/Year	6,480/2008 (Raw traffic count in a 24-hour period: Nor Source: Fresno COG Fresno County Regional Traffic I						
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved						

Clovis-Villa (1)								
Pollutant	Ozone	PM2.5	PM2.5	PM10	PM10 LC	PM10 STP		
Parameter Code	44201	88101	88101	81102	85101	81102		
Spatial scale	N	N	N	N	N	N		
Site type	Max PEI, HC	HC	HC	PE	HC	HC		
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS, TP	NC, RS	RS, TP	NC, RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	None	None	None	None	None		
FRM/FEM/ARM/Other	FRM	FRM	FEM	FRM	FEM	FEM		
POC	1	1	3	1	3	3		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	QA Collocated	Primary	Primary	Other	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Y	Y	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API T265	Thermo Partisol 2025i	1020	Ecotech HiVol 3000	METOne BAM 1020	METOne BAM 1020		
Analysis method	Chem.	Gravimetric	Beta Attenuation	Gravimetric	Beta Attenuation	Beta Attenuation		
Method code	199	145	170	162	122	122		
Monitoring start date (MM/DD/YYYY)	05/01/2017	09/06/2012	07/01/2020	04/01/2015	01/01/2020	01/01/2020		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:3	Hourly	1:6	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31	01/01 - 12/31		
Probe height (meters)	5.7 m	6.0 m	5.9 m	5.5 m	5.9 m	5.9 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.9 m	2m	1.8 m	1.6 m	1.8 m	1.8 m		

Pollutant	Ozone	PM2.5	PM2.5	PM10	PM10 LC	PM10 STP
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	15 m	37.5 m	17.5 m	15 m	17.5 m	17.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	2.5	2.0 m	N/A	2.1 m	2.1 m
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	355	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	111.92	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No	No	No

Pollutant	Ozone	PM2.5	PM2.5	PM10	PM10 LC	PM10 STP
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	No	No	No
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	N/A	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	Bi-weekly	N/A	Bi-weekly	Bi-weekly
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	7/21/2020	N/A	N/A	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	7/21/2020, 11/3/2020	7/21/2020, 11/3/2020	7/21/2020, 11/3/2020	7/21/2020, 11/3/2020	7/21/2020, 11/3/2020
Changes planned within the next 18 months (Y/N)	N	Removed 12/31/2020	N	N	N	N

Clovis-Villa (2)									
Pollutant	СО	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology				
Parameter code	42101	42602	Many	43102	Many				
Spatial scale	N	N	N	N	R				
Site type	Max PEI, PE	HC	PE	HC	Other				
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP				
Monitor type	SLAMS	SLAMS	Other	Other	Other				
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS				
FRM/FEM/ARM/Other	FEM	FEM	Other	Other	Other				
POC	1	1	1	1	1				
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Other				
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A				
Instrument manufacturer and model	Themo 48i	Teledyne T200	Entech Instruments 1900	Synpec Alpha 115	ITP- HY-CAL BA 512- A-A-3-B, OT- Met-One 060A-2, BP- Met-One 092, RH- VAISALA HMP45D, SRD- EPPLY Mod.8-48, WD- Met-One 020C, WS- Met One 010C, BP- Met One 092				
Analysis method	IR	Chem.	GC / UV Absorption	Flame Ionization	Many				
Method code	554	099	177 / 202	011	Many				
Monitoring start date (MM/DD/YYYY)	01/01/1990	01/01/2016	01/01/1990	01/01/1990	01/01/1990				
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly				
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 - 08/31	01/01 – 12/31	01/01 – 12/31				
Probe height (meters)	5.66 m	5.66 m	5.66 m	5.66 m	10 m				
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.85 m	1.85 m	1.85 m	1.85 m	7.5 m				

Pollutant	СО	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	29.5 m
Distance from the drip line of closest tree(s)	15 m	15 m	15 m	15 m	25.5 m
Distance to furnace or incinerator flue (meters)	16.0 m	16.0 m	13.5 m	16.0 m	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.08	12.0	5.0	9.36	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	Daily	N/A	Daily	N/A

Pollutant	СО	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	03/14/2019	03/14/2019	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Fresno-Garland					
AQS ID (XX-XXX-XXXX)	06-019-0011					
Representative statistical						
area Name (i.e. MSA, CBSA,	Fresno					
other)						
County	Fresno					
Collecting (Operating) Agency	CARB					
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB					
Reporting Agency	CARB					
Site Start Date	12/31/2011					
	Ozone, PM10 STP FEM, PM2.5 FEM, PM2.5 FRM, PM2.5 Speciation (STN),					
Pollutant Parameters	CO, NO <sub>2</sub> , NOy, SO <sub>2</sub> , Toxics					
- Ondiant Furameters	<b>PM10-2.5</b> : (2) PM10 FEMs + (2) PM2.5 FEMs = (2) PM10-2.5 FEMs. There are 2 pairs of analyzers - 1 pair					
	is collocated. The (4) analyzers render (6) datasets. Each dataset has (3) method codes.					
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure, relative humidity					
Address	3727 N. First St., Ste.104, Fresno CA 93726					
GPS Coordinates (decimal degrees)	36.7853 N, -119.7732 W					
Distance to roadways (meters)	30 m (south)					
Traffic Count/Year	7,520/2011 (Raw traffic count in a 24-hour period: First Street near Dakota Avenue. Source: Fresno COG Fresno County Regional Traffic Monitoring Report 2013. (latest available))					
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved					

Fresno-Garland (1)								
Pollutant	Ozone	СО	NO <sub>2</sub>	SO <sub>2</sub>	NOy	Toxics		
Parameter code	44201	42101	42602	42401	42600	Many		
Spatial scale	U	U	U	U	U	N		
Site type	PE	PE	Max PEI	PE	PE	PE		
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS	NC, RS	NC, RS	RS, TP		
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS		
Network affiliation	NCore	NCore	NCore	NCore	NCore	NCore		
FRM/FEM/ARM/Other	FEM	FRM	FRM	FEM	Other	Other		
POC	1	3	1	1	3	Many		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Primary	Primary	Primary	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400	API 300 EU	API 200E	Thermo 43	Instrumental	Xontech 924		
Analysis method	UV	UV	UV	UV	Chem. Teledyne API 200EU/501	Many		
Method code	087	593	099	009	699	Many		
Monitoring start date (MM/DD/YYYY)	12/23/2011	01/18/2012	02/1/2012	01/18/2012	01/18/2012	12/23/2011		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31		
Probe/Inlet height above ground (meters)	7.0	7.0	7.0	7.0	6.2	5.8		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	None	None	None	None	N/A	None		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	None		

Pollutant	Ozone	СО	NO2	SO2	NOy	Toxics
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	None
Distance from the drip line of closest tree(s)	None	None	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None	None	None
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	Teflon	Teflon	Teflon	Teflon
Residence time (seconds)	8.6	7.1	6.7	7.2	< 20 seconds	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Nightly	Nightly	Nightly	Nightly	Nightly	N/A
Last Annual Performance Evaluation (gaseous)	7/22/20	not audited in 2020	not audited in 2020	not audited in 2020	not audited by CARB-QAS	non- operational in 2020; not audited
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Fresno-Garland (2)						
Pollutant	PM2.5	PM2.5	PM10 STP / PM10 LC	PM2.5	PM10-2.5	
Parameter code	88101	88101	81102 / 85101	88101	86101	
Spatial scale	N	N	N	N	N	
Site type	HC	HC, PE, QA	PE	HC, QA	PE, QA	
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS, TP / RS, TP	NC, RS	NC, RS	
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS	
Network affiliation	NCore	NCore	NCore	NCore	NCore	
FRM/FEM/ARM/Other	FRM	FRM	FEM	FEM	FEM	
POC	1	2	3 / 4	3/4	3 / 4	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	QA Collocated	Primary	QA Collocated	QA Collocated, serving as Primary	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	Υ	N/A	Υ	N/A	
Instrument manufacturer and model	R&P 2025	R&P 2025	Met One BAM 1020 (QTY 2)	MetOne BAM 1020 (QTY 2)	Met One BAM 1020 (QTY 2)	
Analysis method	Sequential	Sequential	Beta Attenuation	Beta Attenuation	Beta Attenuation	
Method code	145	145	122	170	185	
Monitoring start date (MM/DD/YYYY)	1/1/2012	1/25/2012	1/1/2012	1/1/2012	10/14/2013	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:1 FRM's were idled by lab shutdown (on or around 12/7/20)	1:6 FRM's were idled by lab shutdown (on or around 12/7/20)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	5.9	5.9	6.2	6.4	6.3	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	None	None	N/A	None	None	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None	

Pollutant	PM2.5	PM2.5	PM10 STP / PM10 LC	PM2.5	PM10-2.5
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
Distance from the drip line of closest tree(s)	None	None	None	None	None
Distance to furnace or incinerator flue (meters)	None	None	None	None	None
Distance between collocated monitors (meters)	2.0	2.0	1.0	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	Aluminum	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Monthly	Monthly	Bi-weekly	Bi-weekly	Bi-weekly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	Monthly	BI-weekly	BI-weekly	Bi-weekly
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A	N/A

Last two semi-annual flow rate audits for PM monitors	7/22/20, 11/2/20	7/22/20, 11/2/20	7/22/20, 11/2/20	7/22/20, 11/2/20	7/22/20, 11/2/20
Changes planned within the next 18 months (Y/N)	N	For 2021: One FRM removed, remaining unit designated collocated. Remaining FRM sampling schedule changed to 1:3.	N	N	For 2021: 1 pair of BAMS removed. Remaining unit designated primary 2.5.

Fre	Fresno-Garland (3)					
Pollutant	PM2.5 Speciation	PM2.5 Speciation	Meteorology			
Parameter code	Many	Many	Many			
Spatial scale	N, U	N, U	U			
Site type	PE	PE	GB			
Monitor objective	RS	RS	RS, TP			
Monitor type	Other	Other	SLAMS			
Network affiliation	NCore, STN	NCore, STN	NCore			
FRM/FEM/ARM/Other	Other	Other	Other			
POC	5	5	Many			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A			
Instrument manufacturer and model)	Met-One SASS	URG 3000-N	Vaisala HMP-155 (OT/RH), RM Young 81000 (WS/WD/3DT)			
Method code	810	839	Many			
Analysis method	Many	Many	Many			
Monitoring start date (MM/DD/YYYY)	1/1/2012	1/1/2012	12/23/2011			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:3	Hourly			
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31			
Probe/Inlet above ground (meters)	5.5	5.5	4.5			
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2	2	8			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	10	10	None			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	11	9	None			
Distance from the drip line of closest tree(s)	11	9	None			
Distance to furnace or incinerator flue (meters)	9	9	N/A			
Distance between collocated monitors (meters)	2.5	2.5	N/A			
Unrestricted airflow (degrees)	360	360	360			

Pollutant	PM2.5 Speciation	PM2.5 Speciation	Meteorology
Probe material (Teflon, etc.)	N/A	N/A	Teflon
Residence time (seconds)	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	Bi-weekly	Bi-weekly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	non-operational in 2020; not audited	non-operational in 2020; not audited	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Fresno-Pacific
AQS ID (XX-XXX-XXXX)	06-019-5025
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	01/01/2000
Pollutant Parameters	PM2.5 FRM
Meteorological Parameters	None
Address	1716 Winery, Fresno, CA 93727
GPS Coordinates (decimal degrees)	36.7263N, -119.7330W
Distance to roadways (meters)	40 m (east)
Traffic Count/Year	8,540 / 2018 (Raw traffic count in a 24-hour period: Butler Avenue/Winery Avenue intersection, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Vegetative and paved

Fresno-Pacific				
Pollutant	PM2.5	PM2.5		
Parameter code	88101	88101		
Spatial scale	N	N		
Site type	PE	PE		
Basic monitoring objective(s)	NC, RS	NC,RS		
Monitor type	SLAMS	SLAMS		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None		
FRM/FEM/ARM/Other	FRM	FEM		
POC	1	3		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	Υ		
Instrument manufacturer and model	Partisol 2025i	BAM 1022		
Analysis method	Gravimetric	Beta Attenuation		
Method code	145	209		
Monitoring start date (MM/DD/YYYY)	01/01/2000	1/1/2021		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:1		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	11.3 m	11.3 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	2.1 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	53.4m NE 5.1 above vertical	53.4 m NE 5.1 m above vertical		
Distance from the drip line of closest tree(s)	77 m	77 m		

Pollutant	PM2.5	PM2.5
Distance to furnace or incinerator flue (meters)	None	None
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Aluminum	Aluminum
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Biweekly	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Monthly
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	2/22/2019, 8/20/2019	N/A
Changes planned within the next 18 months (Y/N)	Shutdown 12/31/2020	New install 1/1/2021

Site Name	Fresno-Drummond				
AQS ID (XX-XXX-XXXX)	06-019-0007				
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno				
County	Fresno				
Collecting (Operating) Agency	SJVAPCD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB				
Reporting Agency	SJVAPCD: Ozone, NO2	CARB: PM10 FRM			
Site Start Date	07/01/1984				
Pollutant Parameters	Ozone, PM10 FRM, NO2				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, bard	ometric pressure			
Address	4706 E. Drummond Street, Fresno, CA 93725				
GPS Coordinates (decimal degrees)	36.7055 N, -119.7410 W				
Distance to roadways (meters)	50m				
Traffic Count/Year	27,251/2018 (Raw traffic count in a 24-hour period for nearest roads: Jensen Avenue between Chestnut Avenue and Maple Avenue, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson & Associates, Inc.				
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved				

Fresno-Drummond						
Pollutant	Ozone	PM10	PM10	NO <sub>2</sub>	Meteorology	
Parameter code	44201	81102	81102	42602	Many	
Spatial scale	N	N	N	N	R	
Site type	PE, HC, RT	PE	PE, QA	HC	GB	
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS	NC,RS,TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None	
FRM/FEM/ARM/Other	FRM	FRM	FRM	FEM	Other	
POC	1	1	2	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub>	I	I	QA	I	1	
monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Collocated	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API T265	ECOTECH Hi-Vol 3000	ECOTECH Hi-Vol 3000	Teledyne API T200	ITP- HY-CAL BAAA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS- Met One 010C	
Analysis method	Chem.	Gravimetric	Gravimetric	CL	Many	
Method code	199	162	162	099	Many	
Monitoring start date (MM/DD/YYYY)	05/01/2017	07/01/1984	07/01/1984	03/01/2017	07/01/1984	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	1:6	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 - 12/31	01/01 – 12/31	
Probe height (meters)	8.0 m	5.2 m	5.2 m	8.0 m	9.8 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	5.1 m	1.6 m	1.6 m	5.1 m	N/A	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	

Pollutant	Ozone	PM10	PM10	NO <sub>2</sub>	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	7.0 mH, 0.76 mV	3.35 mH, 0.76 mV	N/A	N/A
Distance from the drip line of closest tree(s)	15.3 m	15.3 m	18.8 m	15.3 m	17.2 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	3.9 m	3.9 m	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	340	340	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.11	N/A	N/A	10.13	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	Monthly	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	None	None	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	None	None	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	2/27/20	N/A	N/A	2/27/20	N/A

Pollutant	Ozone	PM10	PM10	NO <sub>2</sub>	Meteorology
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	2/27/2020, 11/3/2020	2/27/2020, 11/3/2020	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Fresno-Foundry	
AQS ID (XX-XXX-XXXX)	06-019-2016	
Representative statistical		
area Name (i.e. MSA, CBSA,	Fresno	
other)		
County	Fresno	
Collecting (Operating) Agency	SJVAPCD	
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A	
Reporting Agency	SJVAPCD	
Site Start Date	01/01/2016	
Pollutant Parameters	NO2, PM2.5, CO	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure	
Address	2482 Foundry Park Ave, Fresno, CA 93706	
GPS Coordinates (decimal degrees)	36.710833N, -119.7775W	
Distance to roadways (meters)	16 to 19 meters	
Traffic Count/Year	122,000/2016 (Rte 99 and Jensen Avenue off-ramp, Source: Caltrans 2019 )	
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved	

Fresno-Foundry					
Pollutant	PM2.5	CO	NO <sub>2</sub>	Meteorology	
Parameter code	88101	42101	42602	Many	
Spatial scale	MC	MC	MC	N	
Site type	HC	HC	HC	PE	
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	Near-road	Near-road	Near-road	Near-road	
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other	
POC	3	1	1	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	N/A	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	MET One BAM 1020	Thermo 48i	Teledyne T500U	ITP – Hamp. Control 140-100Hv, OT – MET One 060-A-2, BP – MET One 092, WD – MET One 020C, WS – METOne 010C	
Analysis method	Beta Attenuation	IR	CL	Many	
Method code	170	554	212	Many	
Monitoring start date (MM/DD/YYYY)	1/1/2020	1/1/2020	01/01/2016	01/01/2016	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	5.1 m	5.7 m	5.7 m	5.9 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.2 m	1.8 m	1.8 m	2.0 m	

Pollutant	PM2.5	СО	NO <sub>2</sub>	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V	26.3m H (north), 4m V 37m H (east), 4m V
Distance from the drip line of closest tree(s)	9.2 m	8.45 m	8.45 m	8.5 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	350	350	350
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	8.27	7.84	N/A
Frequency of one-point QC check for gaseous instruments	N/A	Daily	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A

Pollutant	PM2.5	CO	NO <sub>2</sub>	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	Audits for year 2020 postponed so far due to COVID-19.	Audits for year 2020 postponed so far due to COVID-19.	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	Audits for year 2020 postponed so far due to COVID-19.	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Parlier	
AQS ID (XX-XXX-XXXX)	06-019-4001	
Representative statistical area Name (i.e. MSA, CBSA, other)	Fresno	
County	Fresno	
Collecting (Operating) Agency	SJVAPCD	
Analytical Lab (i.e. weigh lab, toxics lab, other)	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC	
Reporting Agency	SJVAPCD	
Site Start Date	6/1/1983	
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation	
Address	9240 S. Riverbend Ave., Parlier, CA 93648	
GPS Coordinates (decimal degrees)	36.5972 N, -119.5040 W	
Distance to roadways (meters)	100 m (east)	
Traffic Count/Year	1,050/2009 (Raw traffic count in a 24-hour period for nearest roads: E. Manning Avenue *Raw traffic count in a 24-hour period for nearest roads: E Manning Ave west of S Lac Jac Ave. Source: Fresno COG Traffic Report, 2007-2012.	
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Dirt, vegetation	

	Parlier Parlier					
Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology	
Parameter code	44201	42602	Many	43102	Many	
Spatial scale	N	N	N	N	R	
Site type	HC, RT	PE	PE	PE	GB	
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP	
Monitor type	SLAMS	SLAMS	Other	Other	Many	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS, RA40	PAMS	PAMS	PAMS	
FRM/FEM/ARM/Other	FEM	FEM	Other	Other	Other	
POC	1	1	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne T265	Teledyne 200E	Entech 1900	Synspec Alpha 115	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, RH- Vaisala HMP45D, SRD- Epply Mod.8-48, WD- Met One 020C, WS- Met One 010C	
Analysis method	Chemiluminescence	CL	GC	GC	Many	
Method code	199	099	126	011	Many	
Monitoring start date (MM/DD/YYYY)	06/01/1983	06/01/1983	06/01/1983	06/01/1983	06/01/1983	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 - 12/31	
Probe height (meters)	8.7 m	8.7 m	8.7 m	8.7 m	9.1 m	

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.7 m	2.7m	2.7 m	2.7 m	4.9 m
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	39.0 m	39.0 m	39.0 m	39.0 m	38.9 m
Distance from the drip line of closest tree(s)	11.0 m	11.0 m	11.0 m	11.0 m	10.2 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Stainless steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	11.49	10.64	4.69	8.67	N/A
Frequency of one-point QC check for gaseous instruments	daily	daily	daily	daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	9/16/2020	10/24/2019	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N

Site Name	Huron
AQS ID (XX-XXX-XXXX)	06-019-2008
Representative statistical	
area Name (i.e. MSA, CBSA,	Fresno
other)	
County	Fresno
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	09/01/09
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Barometric Pressure
Address	16875 4 <sup>th</sup> St, Huron, CA 93234
GPS Coordinates (decimal degrees)	36.2363 N, -119.7656 W
Distance to roadways (meters)	100 m (north)
Traffic Count/Year	5,400/2019 (Traffic count for nearest roads: Rte 269/Rte 198, Source: Caltrans 2019)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

Huron			
Pollutant	PM2.5	Meteorology	
Parameter code	88502	64101	
Spatial scale	N	N	
Site type	PE	PE	
Basic monitoring objective(s)	TP	TP	
Monitor type	SPM	Other	
Network affiliation(s), if applicable (a monitor may	None	News	
have none, one, or multiple)	None	None	
FRM/FEM/ARM/Other	Non-FEM	Other	
POC	3	1	
Primary / QA Collocated / Other (provide for all			
PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-	N/A	N/A	
PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)			
Is it suitable for comparison against the annual	N	N/A	
PM <sub>2.5</sub> ? (Y/N)			
Instrument manufacturer and model	MET One BAM 1020	OTP – Hy-Cal BA-512-A-A-3-B, BP – Met One 092	
Analysis method	Beta-Attenuation	Many	
Method code	731	014	
Monitoring start date (MM/DD/YYYY)	09/12/2009	02/01/2010	
Required sampling frequency (e.g. 1:3 excluding	Hourly	Hourly	
exceptional events/1:1 including exceptional events)	,		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	6.42 m	5.5 m	
Distance from supporting structure (vertical and	1.14 m	N/A	
horizontal, if applicable, should be provided)	1.14111	IV/A	
Distance from obstructions on roof. Include			
horizontal distance + vertical height above probe for	N/A	N/A	
obstructions nearby. (meters)			
Distance from obstructions not on roof. Include			
horizontal distance + vertical height above probe for	N/A	N/A	
obstructions nearby. (meters)			
Distance from the drip line of closest tree(s)	41.5 m	N/A	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between monitors fulfilling a QA collocation	N/A	N/A	
requirement (meters).	13// \	14/1	

Pollutant	PM2.5	Meteorology
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360
Probe material for reactivity gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	Bi-Weekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	None	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	None	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	10/7/2020, 11/8/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Hanford-Irwin				
AQS ID (XX-XXX-XXXX)	06-031-1004	06-031-1004			
Representative statistical area Name (i.e. MSA, CBSA, other)	Hanford-Corcoran				
County	Kings				
Collecting (Operating) Agency	SJVAPCD				
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM10 FRM				
Reporting Agency	SJVAPCD: Ozone, PM10 FEM, PM2.5 FEM, NO2, Meteorology	CARB: PM10 FRM			
Site Start Date	10/11/1993				
Pollutant Parameters	Ozone, PM10 FRM, PM10 FEM, PM2.5 FEM, NO2				
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure				
Address	807 S. Irwin St., Hanford, CA 93230				
GPS Coordinates (decimal degrees)	36.3147 N, -119.6440 W				
Distance to roadways (meters)	60 m (east)				
Traffic Count/Year	2,828/2017 (Traffic count for nearest roads: S. Douty Street south of E. Lang Street, Source: City of Hanford Public Works - Engineering, Traffic Counts Volume Summary 2017 – City of Hanford.)				
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative				

	Hanford-Irwin (1)								
Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology					
Parameter code	44201	88101	42602	Many					
Spatial scale	N	N	N	N					
Site type	HC, PE	PE	PE	PE					
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS, TP					
Monitor type	SLAMS	SLAMS	SLAMS	Many					
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None					
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other					
POC	1	3	1	Many					
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	N/A	Other					
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	Υ	N/A	N/A					
Instrument manufacturer and model	Chem API 265E and T265	MetOne BAM-1020	Teledyne 200E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C					
Analysis method	UV	Mass Monitor w/VSCC, BETA Attenuation	CL	Many					
Method code	199	170	099	Many					
Monitoring start date (MM/DD/YYYY)	1/1/2021	8/20/2020	02/25/2010	02/25/2010					
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	Hourly					
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31					
Probe height (meters)	4.7 m	4.5 m	4.7 m	9.7 m					
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8 m	1.8 m	1.8 m	N/A					

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	24.2 mV, 2.5 mH	26.5 mV, 2.5 mH	24.2 mV, 2.5 mH	N/A
Distance from the drip line of closest tree(s)	26.5 m	29.5 m	26.5 m	26.6 m
Distance to furnace or incinerator flue (meters)	23.5 m	23.3 m	23.5 m	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	353.2	353.2	353.2	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	10.78	N/A	11.27	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A

Pollutant	Ozone	PM2.5	NO <sub>2</sub>	Meteorology
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	9/16/20	N/A	10/23/2019	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	9/16/2020, 11/3/2020	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Hanford-Irwin (2)							
Pollutant	PM10 LC	PM10 STP	PM10 STP				
Parameter code	85101	81102	81102				
Spatial scale	N	N	N				
Site type	PE	PE	PE				
Basic monitoring objective(s)	RS, TP	NC, RS, TP	NC, RS				
Monitor type	SLAMS	SLAMS	SLAMS				
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None				
FRM/FEM/ARM/Other	FEM	FEM	FRM				
POC	3	3	1				
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Other	Other	Primary				
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N	N/A				
Instrument manufacturer and model	BAM 1020	BAM 1020	ECOTECH Hi-Vol 3000				
Analysis method	Beta Attenuation	Beta Attenuation	Gravimetric				
Method code	122	122	162				
Monitoring start date (MM/DD/YYYY)	8/20/20	8/20/20	04/01/2015				
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:6				
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31				
Probe height (meters)	4.5 m	4.5 m	4.5 m				
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8 m	1.8 m	1.8 m				
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A				
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	24.3 mV, 2.5mH	24.3 mV, 2.5mH	24.3 mV, 2.5mH				
Distance from the drip line of closest tree(s)	26.6 m	26.6 m	26.6 m				
Distance to furnace or incinerator flue (meters)	22.8 m	22.8 m	22.8 m				
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A				

Pollutant	PM10 LC	PM10 STP	PM10 STP
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	353.2	353.2	353.2
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers (routine checks)	Biweekly	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	No	No	No
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	9/16/2020, 11/3/2020	9/16/2020,11/3/2020	9/16/2020, 11/3/2020
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Corcoran-Patterson
AQS ID (XX-XXX-XXXX)	06-031-0004
Representative statistical area Name (i.e. MSA, CBSA, other)	Hanford-Corcoran
County	Kings
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: PM2.5 FRM
Reporting Agency	CARB: PM2.5 FRM   SJVAPCD: PM2.5 FEM, PM10 FEM, Meteorology
Site Start Date	10/1/1996
Pollutant Parameters	PM2.5 FRM, PM2.5 FEM, PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature
_	
Address	1520 Patterson Ave., Corcoran, CA 93212
GPS Coordinates (decimal degrees)	36.1022 N, -119.5660 W
Distance to roadways (meters)	30 m (east)
Traffic Count/Year	3,000/2019 (Traffic count for nearest roads: JCT. Rte 43/Rte 137, Source: Caltrans 2019.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

	Corcoran-Patterson								
Pollutant	PM2.5	PM2.5	PM2.5	PM10 LC	PM10 STP	PM10 LC	PM10 STP	Meteorology	
Parameter code	88101	88101	88101	85101	81102	85101	81102	Many	
Spatial scale	N	N	N	N	N	N	N	N	
Site type	HC	HC, PE	GB						
Basic monitoring objective(s)	NC, RS	NC, RS, TP	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	SLAMS	Other	SLAMS	SLAMS	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None	None	None	None	
FRM/FEM/ARM/Other	FRM	FEM	FEM	FEM	FEM	FEM	FEM	Other	
POC	1	8	8	7	7	8	8	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	QA Collocated	Primary	Primary	Primary	Primary	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Y	Y	Y	N	N	N	N	N/A	
Instrument manufacturer and model	Thermo Partisol 2025i	Teledyne 602	BAM-1020	Teledyne 602	Teledyne 602	BAM-1020	BAM-1020	ITP- Hampshire Controls Corp. 125-50HLV, OT- Met One 060A-2, WD- Met One 020C, WS-Met One 010C	
Analysis method	Gravimetric	Beta Attenuation	Beta Attenuation	Beta Attenuation	Beta Attenuation	Beta Attenuation	Beta Attenuation	Many	
Method code	145	204	170	205	205	122	122	Many	
Monitoring start date (MM/DD/YYYY)	01/01/2016	01/01/2017	01/13/2021	01/01/2017	01/01/2017	01/01/2021	01/01/2021	01/01/2017	

Pollutant	PM2.5	PM2.5	PM2.5	PM10 LC	PM10 STP	PM10 LC	PM10 STP	Meteorology
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31				
Probe height (meters)	6.2 m	6.0 m	6.3 m	6.2 m	6.2 m	6.2 m	6.2 m	6.2 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	1.8 m	2.1 m	2.0 m	2.0 m	2.0 m	2.0 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	115.7 m H, 1.5 m V	118.1 m H, 1.5 m V	118.1 m H, 1.5 m V	118.1 m H, 1.5 m V	118.11 m H, 1.5 m V	118.1 m H, 1.5 m V	118.11 m H, 1.5 m V	118.6 m H, 1.5 m V
Distance from the drip line of closest tree(s)	62.5 m E 65.2 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	63.7 m E, 65.9 m S	65.5 m E, 66.3 m S
Distance to furnace or incinerator flue (meters)	79.1 m	76.6 m	76.6 m	76.6 m	76.6 m	76.6 m	76.6 m	76.8 m
Distance between monitors fulfilling a QA collocation requirement (meters).	2.7 m	2.7 m	1.9 m	2.9 m	2.9 m	1.9 m	1.9 m	N/A

Pollutant	PM2.5	PM2.5	PM2.5	PM10 LC	PM10 STP	PM10 LC	PM10 STP	Meteorology
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	365	365	365	365	365	365	365	365
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of one- point QC check for gaseous instruments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Monthly	N/A						
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	Biweekly	Biweekly	Biweekly	Biweekly	Biweekly	N/A

Pollutant	PM2.5	PM2.5	PM2.5	PM10 LC	PM10 STP	PM10 LC	PM10 STP	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No.	No	No	No.	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Date of two semi- annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	5/15/2019, 11/20/2019	5/15/2019, 11/20/2019	5/15/2019, 11/20/2019	5/15/2019, 11/20/2019	5/15/2019, 11/20/2019	5/15/2019, 11/20/2019	5/15/2019, 11/20/201 9	N/A
Changes planned within the next 18 months (Y/N)	Yes. Partisol analyzer was removed on 1/12/2021 in lieu of the BAM 1020 replacement on 1/13/2021.	Yes. The 602 was removed on 1/12/2021 and replaced with the BAM 1020 on 1/13/2021.	N	Yes. The 602 was removed on 12/31/2020 and replaced with the BAM 1020 on 1/1/2021.	Yes. The 602 was removed on 12/31/2020 and replaced with the BAM 1020 on 1/1/2021.	N	N	N

Site Name	Visalia-Church St		
AQS ID (XX-XXX-XXXX)	06-107-2002		
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville		
County	Tulare		
Collecting (Operating) Agency	CARB		
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB		
Reporting Agency	CARB		
Site Start Date	1/1/1979		
Pollutant Parameters	Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, PM2.5 Speciation (CSN Supplemental), NO <sub>2</sub>		
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity		
Address	310 N. Church St., Visalia CA 93291		
GPS Coordinates (decimal degrees)	36.3325 N, -119.2909 W		
Distance to road	25 m (west)		
Traffic Count/Year  10,000/2019(Traffic count for nearest roads: N Court St at W School Ave Source: Caltrans AADT 2019)			
Ground Cover	Paved		

Visalia-Church St (1)								
Pollutant	Ozone	NO <sub>2</sub>	PM10 STP / PM10 LC	PM2.5				
Parameter code	44201	42602	81102, 85101	88101				
Spatial scale	N	N	N	N				
Site type	GB	PE	PE	HC, PE				
Basic monitoring objective(s)	NC, RS,TP	NC, RS, TP	NC, RS,TP / RS,TP	NC, RS				
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS				
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None				
FRM/FEM/ARM/Other	FEM	FRM	FEM	FRM				
POC	1	1	5	1				
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Primary	Primary				
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	Y				
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E	Met One 1020	R&P 2025				
Analysis method	UV	Gas phase Chem.	Beta attenuation	Gravimetric				
Method code	087	099	122	145				
Monitoring start date (MM/DD/YYYY)	1/1/1979	1/1/1979	8/1/2015	1/3/1999				
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	1:3				
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 -12/31	01/01 -12/31	01/01 -12/31				
Probe/Inlet height above ground (meters)	6.7	6.7	6.2	5.9				
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.8	2.8	2.3	2.1				
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None				
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None				
Distance from the drip line of closest tree(s)	None	None	None	None				
Distance to furnace or incinerator flue (meters)	None	None	None	None				

Pollutant	Ozone	NO <sub>2</sub>	PM10 STP / LC	PM2.5
Distance between collocated monitors (meters)	None	None	N/A	2.3
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	Teflon	N/A	N/A
Residence time (seconds)	10.1	10.01	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	Monthly	N/A
Frequency of one-point QC check (gaseous)	5x/week	5x/week	N/A	N/A
Last Annual Performance Evaluation (gaseous)	9/9/20	not audited in 2020	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	9/9/20, 11/3/2020	9/9/20, 11/3/2020
Changes planned within the next 18 months (Y/N)	Yes. The site will be relocated as soon as possible.	Yes. The site will be relocated as soon as possible.	Yes. The site will be relocated as soon as possible.	Yes. The site will be relocated as soon as possible.

Visalia-Church St (2)				
Pollutant	PM2.5	PM2.5 Speciation	Meteorology	
Parameter code	88501	Many	Many	
Spatial scale	N	N	R	
Site type	RT, PE	PE	GB	
Basic monitoring objective(s)	RS, TP	RS	RS, TP	
Monitor type	Other	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CSN Supplemental	None	
FRM/FEM/ARM/Other	Non-FEM	FRM	Other	
POC	3	5	1	
Primary / QA Collocated / Other (provide for all PM2.5, PM10, PM10-2.5, Pb and NO2 monitors. Non-PM, Pb, NO2 monitors should be listed as "N/A".)	Primary	Primary	Other	
Is it suitable for comparison against the annual PM2.5? (Y/N)	N	N/A	N/A	
Instrument manufacturer and model	Met One 1020	Many	Vaisala HMP-155 (OT/RH) RM Young 81000 (WS/WD/3DT)	
Analysis method	Beta attenuation	Many	Many	
Method Code	731	Many	Many	
Monitoring start date (MM/DD/YYYY)	11/01/2001	01/14/2002	01/01/1995	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:3	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 -12/31	01/01 -12/31	
Probe height (meters)	6.0	5.9	11.9	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.2	None	None	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	
Distance from the drip line of closest tree(s)	None	None	None	
Distance to furnace or incinerator flue (meters)	None	None	None	
Pollutant	PM2.5	PM2.5 Speciation	Meteorology	

Distance between collocated monitors (meters)	2.3	None	None
Unrestricted airflow (degrees)	360	360	360
Probe material (Teflon, etc.)	N/A	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	Monthly	N/A	N/A
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	9/9/20, 11/3/2020	N/A	N/A
Changes planned within the next 18 months (Y/N)	Yes. The non-FEM BAM2.5 was converted to FEM and replaced the FRM in 12/20. This approval was granted prior to the rest of the network changes in 4/21 after the lab shutdown.      The site will be relocated as soon as possible.	Yes. The site will be relocated as soon as possible.	Yes. The site will be relocated as soon as possible.

Site Name	Porterville
AQS ID (XX-XXX-XXXX)	06-107-2010
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville
County	Tulare
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	03/08/2010
Pollutant Parameters	Ozone, PM2.5 Non-FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	1839 S. Newcomb St., Porterville, CA 93257
GPS Coordinates (decimal degrees)	36.0310 N, -119.0550 W
Distance to roadways (meters)	100m (south)
Traffic Count/Year	24,500/2019 (Ahead AADT traffic count for nearest roads: Junction SR 190/SR 65, Source: Caltrans 2019)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved, vegetative

	Porterville				
Pollutant	Ozone	PM2.5	Meteorology		
Parameter code	44201	88502	Many		
Spatial scale	N	N	N		
Site type	HC, PE	PE	PE		
Basic monitoring objective(s)	NC, RS, TP	TP	TP		
Monitor type	SLAMS	SPM	Other		
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None		
FRM/FEM/ARM/Other	FEM	Non-FEM	Other		
POC	1	3	1		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A		
Instrument manufacturer and model	Teledyne API 400E	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C		
Analysis method	uv	Beta Attenuation	Many		
Method code	087	731	Many		
Monitoring start date (MM/DD/YYYY)	03/08/2010	03/08/2010	03/08/2010		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 -12/31	01/01 -12/31		
Probe height (meters)	6.0 m	5.0 m	9.1 m		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	3.2 m	2.2 m	7.1 m		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A		
Distance from the drip line of closest tree(s)	7 m S	4.9 m S	N/A		
Distance to furnace or incinerator flue (meters)	175.5 m S	174 m S	N/A		
Pollutant	Ozone	PM2.5	Meteorology		

Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	357	357	357
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	4.97	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Biweekly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	10/6/2020	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	10/6/2020, 11/18/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site name	Sequoia-Ash Mountain
AQS ID (XX-XXX-XXXX)	06-107-0009
Representative statistical area Name (i.e. MSA, CBSA, other)	Visalia-Porterville
County	Tulare
Collecting (Operating) Agency	All equipment operated by National Park Service
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	07/01/1999
Pollutant Parameters	Ozone, PM2.5
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation
Address	Ash Mountain, Sequoia National Park 47050 Generals Hwy, Three Rivers, CA 93271
GPS Coordinates (decimal degrees)	36.4894 N, -118.8290 W
Distance to road	120 m (north)
Traffic Count/Year	2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)
Ground Cover	Dirt, vegetative

Sequoia-Ash Mountain				
Pollutant	Ozone	PM2.5	Meteorology	
Parameter code	44201	88501	Many	
Spatial scale	R	R	R	
Site type	HC, RT	HC	GB	
Monitor objective	NC, RS, TP	RS, TP	RS, TP	
Monitor type	Non-EPA Federal	Non-EPA Federal	Non-EPA Federal	
Network affiliation	CASTNET	None	CASTNET	
FRM/FEM/ARM/Other	Other	Non-FEM	Other	
POC	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N	N/A	
Instrument manufacturer and model	Thermo TECO 49, 49C	MET One BAM 1020	Many	
Analysis method	UV	Beta Attenuation	Many	
Method code	047	170	Many	
Monitoring start date (MM/DD/YYYY)	07/01/1999	3/19/2007	10/4/2001	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	10 m	4 m	10 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	3 m	1.5 m	3 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 m	N/A	5 m	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from the drip line of closest tree(s)	5 - 10 m	5 - 10 m	5 - 10 m	
Distance to furnace or incinerator flue (meters)	305 m	305 m	305 m	
Distance between monitors fulfilling a QA collocation requirement (meters).	3 m	3 m	3 m	
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	360	
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A	N/A	

Pollutant	Ozone	PM2.5	Meteorology
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.4	N/A	N/A
Frequency of one-point QC check for gaseous instruments	Monthly	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	Monthly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	12/1/2020	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	11/5/2020, 4/21/2021	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site name	Sequoia-Lower Kaweah
AQS ID (XX-XXX-XXXX)	06-107-0006
Representative statistical area	Visalia-Porterville
Name (i.e. MSA, CBSA, other)	
County	Tulare
Collecting (Operating) Agency	All equipment operated by National Park Service (NPS)
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	All data reported by NPS
Site Start Date	01/01/1987
Pollutant Parameters	Ozone
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation
Address	Giant Forest, Sequoia National Park, 47050 Generals Highway, Three Rivers, CA 93271
GPS Coordinates (decimal degrees)	36.5661 N, -118.7776 W
,	
Distance to road	380 m (southeast)
Traffic Count/Year	2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)
Ground Cover	Dirt, vegetation

Sequoia-Lower Kaweah			
Pollutant	Ozone	Meteorology	
Parameter code	44201	Many	
Spatial scale	R	R	
Site type	RT	GB	
Monitor objective	NC, RS, TP	RS, TP	
Monitor type	Non-EPA Federal	Non-EPA Federal	
Network affiliation	None	None	
FRM/FEM/ARM/Other	Other	Other	
POC	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	
Instrument manufacturer and model	Thermo TECO 49, 49C	Many	
Analysis method	UV	Many	
Method code	047	Many	
Monitoring start date (MM/DD/YYYY)	01/01/1987	04/01/1987	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	05/01 – 10/31 (Seasonal only)	05/01 – 10/31 (Seasonal only)	
Probe height (meters)	5	5	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.5	10	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from the drip line of closest tree(s)	5-10 m Location heavily forested. Cutting trees not possible. NPS* working to get inlet moved to platform closer to station's shelter.	5-10 m Location heavily forested. Cutting trees not possible. NPS working to get inlet moved to platform closer to station's shelter.	
Distance to furnace or incinerator flue (meters)	457 m	457 m	
Distance between monitors fulfilling a QA collocation requirement (meters)	5-10 m	10-15 m	

Pollutant	Ozone	Meteorology
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.9	N/A
Frequency of one-point QC check for gaseous instruments	Monthly	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	12/1/2020	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Shafter		
AQS ID (XX-XXX-XXXX)	06-029-6001		
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield		
County	Kern		
Collecting (Operating) Agency	CARB: Ozone, NO2;	SJVAPCD: Meteorology, Speciated VOC, NMH	
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB: Ozone, NO2	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC, NMH	
Reporting Agency	CARB: Ozone, NO2	SJVAPCD: Speciated VOC, NMH, Meteorology	
Site Start Date	01/01/1989		
Pollutant Parameters	Ozone, NO2, Speciated VOC, NMH		
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation		
Address	578 Walker St., Shafter, CA 93263		
GPS Coordinates (decimal degrees)	35.5034 N, -119.2726 W		
Distance to roadways (meters)	10m (southwest)		
Traffic Count/Year	6,028/2020 (Traffic count for nearest roads: Central Ave and Walker St., Source: Kern Council of Governments.)		
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved		

Shafter					
Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Parameter code	44201	42602	Many	43102	Many
Spatial scale	N	N	N	N	R
Site type	GB, PE	PE	HC	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	Other	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FEM	FRM	Other	Other	Other
POC	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other	Other	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne 400E (ARB)	Teledyne API 200E	Xontech 910/912	Synspec Alpha 115	ITP- Hy-Cal BA512AA3BB, OT- Met One 060A-2, SRD- Epply Mod. 8-48, WD- Met One 020B, WS- Met One 010C, BP- Met One 092
Analysis method	UV	CL	Preconc. GC/FID/MSD	Flame Ionization	Many
Method code	087	099	177	011	Many
Monitoring start date (MM/DD/YYYY)	07/01/1989	07/01/1989	07/25/2001	01/01/2016	01/01/1989
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	7.3	7.3	7.0	7.0	10 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.6	2.6	2.4	2.4	None
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	None	None

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	19m H, 2m V (Tree)	19m H, 2m V (Tree)	N/A
Distance from the drip line of closest tree(s)	None	None	19m N, 70m SE	19m N, 70m SE	70m SE
Distance to furnace or incinerator flue (meters)	None	None	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	None	None	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360	355	350	360
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	TEFLON	TEFLON	Stainless Steel	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	18.3	15.8	2.79	10.6 sec.	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	N/A	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A

Pollutant	Ozone	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	8/25/20	not audited in 2020	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	Yes. MET was shut down on 11/16/18 due to safety concerns regarding the railing. CARB has been working with their facilities dept. to have it raised to be able to access it safely and resume.

Site Name	Oildale
AQS ID (XX-XXX-XXXX)	06-029-0232
Representative statistical	
area Name (i.e. MSA, CBSA,	Bakersfield
other)	
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	01/01/1980
Pollutant Parameters	Ozone, PM10 FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity
Address	3311 Manor St, Oildale CA 93308
GPS Coordinates (decimal degrees)	35.4380 N, -119.0167 W
Distance to road	150 m (northwest)
Traffic Count/Year	6,444/2020 (Traffic count for roads: Manor St. near the air monitoring station.
Traffic County real	Source: Kern Council of Governments.)
Ground Cover	Dirt, vegetative

Oildale			
Pollutant	Ozone	PM10 STP / PM10 LC	Meteorology
Parameter code	44201	81102, 85101	Many
Spatial scale	U	MD	U
Site type	HC, RT	SO	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP / RS,TP	NC
Monitor type	SLAMS	SLAMS	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None
FRM/FEM/ARM/Other	FEM	FEM	Other
POC	1	3	Many
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other
Is it suitable for comparison against the annual $PM_{2.5}$ ? (Y/N)	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API 400	MET One BAM 1020	RM Young 81000, Vaisala HMP 155
Analysis method	UV	Beta Attenuation	Many
Method code	087	122	Many
Monitoring start date (MM/DD/YYYY)	01/01/1984	06/01/2017	01/01/1999, 03/0620/04, 10/01/2005
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters)	6.7	2.2	8.5
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	3.0	1.5	1.3
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None

Pollutant	Ozone	PM10 STP / LC	Meteorology
Distance from the drip line of closest tree(s)	10.1	None	None
Distance to furnace or incinerator flue (meters)	None	None	None
Distance between collocated monitors (meters)	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A
Residence time (seconds)	12.4	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	Monthly	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A
Last Annual Performance Evaluation (gaseous)	3/13/20	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/13/20, 11/4/20	N/A
Changes planned within the next 18 months (Y/N)	N	N	N

Site Name	Bakersfield-Golden/M St
AQS ID (XX-XXX-XXXX)	06-029-0010
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	06/10/2014
Pollutant Parameters	PM10 FRM and PM2.5 FRM
Meteorological Parameters	None
Address	2820 M St., Bakersfield, CA 93301
GPS Coordinates (decimal degrees)	35.385574 N, -119.015009 W
Distance to roadways (meters)	13 M
Traffic Count/Year	3,486/2021 (Traffic count for nearest roads: 30th St. at Golden State Ave., Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield-Golden/M St				
Pollutant	PM2.5	PM10 STP	PM2.5	
Parameter code	88101	81102	88101	
Spatial scale	MC	MC	MC	
Site type	PE	PE	PE	
Basic monitoring objective(s)	NC, RS	NC, RS	NC, RS	
Monitor type	SLAMS	SLAMS	SLAMS	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	
FRM/FEM/ARM/Other	FRM	FRM	FEM	
POC	1	1	3	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Primary	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ	N/A	Υ	
Instrument manufacturer and model	Thermo 2025i	Hi Vol SSI Ecotech Model 3000	BAM 1022	
Analysis method	Gravimetric	Gravimetric	Beta Attenuation	
Method code	145	162	209	
Monitoring start date (MM/DD/YYYY)	07/02/2014	04/01/2015	1/1/2021	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3	1:6	1:1	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01-12/31	
Probe height (meters)	6.2 m	5.9 m	5.9 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	1.8 m	1.8 m	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	
Distance from the drip line of closest tree(s)	11m WSW	12m WSW	11m WSW	
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	

Pollutant	PM2.5	PM10 STP	PM2.5
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	340	340	340
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	Bi-Weekly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	Monthly
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	No	No	No
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	03/11/2020; 11/4/2020	03/11/202020; 11/4/2020	N/A
Changes planned within the next 18 months (Y/N)	Shutdown on 12/31/2020	Yes. Replace FRM filter sampler with continuous sampler	Installed 1/1/2021

Site Name	Bakersfield-Westwind
AQS ID (XX-XXX-XXXX)	06-019-2019
Representative statistical area Name (i.e. MSA, CBSA, other)	Kern
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	01/01/2019
Pollutant Parameters	NO2
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	2001 Westwind Drive, Bakersfield, CA 93301
GPS Coordinates (decimal degrees)	35.37695278N -119.04388889W
Distance to roadways (meters)	16 to 19 meters
Traffic Count/Year	125,000; 2019* Traffic count for road adjacent to monitoring station: CA Route 99 and JCT. RTE 58 West / JCT. RTE. 178 East Source: Caltrans (2019) 2,812; 2020** Westwind Drive near the air monitoring station. Source: Kern Council of Governments
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved

Bakersfield-Westwind			
Pollutant	NO <sub>2</sub>	Meteorology	
Parameter code	42602	Many	
Spatial scale	MC	N	
Site type	HC	PE	
Basic monitoring objective(s)	NC, RS, TP	RS, TP	
Monitor type	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	Near-road	Near-road	
FRM/FEM/ARM/Other	FEM	Other	
POC	1	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	
Instrument manufacturer and model	Teledyne T500U	ITP – Hamp. Control 140-100Hv, OT – MET One 060-A-2, BP – MET One 092, WD – MET One 020C, WS – METOne 010C	
Analysis method	CL	Many	
Method code	212	Many	
Monitoring start date (MM/DD/YYYY)	01/01/2019	01/01/2019	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	N/A	N/A	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	N/A	N/A	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	
Distance from the drip line of closest tree(s)	N/A	N/A	

Pollutant	NO <sub>2</sub>	Meteorology
Distance to furnace or incinerator flue	N/A	N/A
(meters)	14/7 (	14//
Distance between monitors fulfilling a QA	N/A	N/A
collocation requirement (meters).		
Unrestricted airflow (degrees around	N/A	N/A
probe/inlet or percentage of monitoring path)  Probe material for reactive gases		
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	Teflon/Pyrex with	N/A
Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Borosilicate	IN/A
Residence time for reactive gases		
NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs,	5.52	N/A
Carbonyls (seconds)	0.02	14// \
Frequency of one-point QC check for		
gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual		
PM samplers, including Pb samplers (routine	N/A	N/A
checks)		
Frequency of flow rate verification for	N/A	N/A
automated PM analyzers (routine checks)	19/73	19/74
For low volume PM instruments (flow rate <		
200 liters/minute), is any PM instrument	N/A	N/A
within 1 m of the lovol? If yes, please list		
distance (meters) and instrument(s).		
For high volume PM instrument (flow rate >		
200 liters/minute), is any PM instrument	N/A	N/A
within 2m of the hivol? If yes, please list		
distance (meters) and instrument(s).  Date of Annual Performance Evaluation	Audits for year 2020	
conducted in the past calendar year for	postponed so far due	N/A
gaseous parameters (MM/DD/YYYY)	to COVID-19.	19//3
Date of two semi-annual flow rate audits	10 00 10.	
conducted in the past calendar year for PM	N/A	N/A
monitors (MM/DD/YYYY, MM/DD/YYYY)		
	Station was not in	
Changes planned within the next 18 months	operation due to	Station was not in operation due to construction near site in 2020.
(Y/N)	construction near site	Station back online 2/2021
(1/14)	in 2020. Station back	Station back Utiling 2/2021
	online 2/2021	

Site Name	Bakersfield-California
AQS ID (XX-XXX-XXXX)	06-029-0014
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	03/01/1994
Pollutant Parameters	Ozone, PM10 FRM, PM2.5 FRM, PM2.5 Non-FEM, NO <sub>2</sub> , Toxics, PM2.5 Speciation (STN, CSN Supplemental)
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity
-	
Address	5558 California Ave., Bakersfield CA 93309
GPS Coordinates (decimal degrees)	35.3566 N, -119.0626 W
Distance to road	300 m (south)
Traffic Count/Year	36,207/2020 (Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr., Source: Kern Council of Governments.)
Ground Cover	Paved

	Bakersfield-California (1)				
Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Parameter code	44201	81102	81102	88101	88101
Spatial scale	N	N	N	N	N
Site type	HC, GB	PE	PE, QA	HC, PE	HC, PE, QA
Basic monitoring objective(s)	NC, RS, TP	NC, RS	NC, RS	NC, RS	NC, RS
Monitor type	SLAMS	SLAMS	SLAMS	SLAMS	SLAMS
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None	None	None	None
FRM/FEM/ARM/Other	FEM	FRM	FRM	FRM	FRM
POC	1	1	2	1	2
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	QA Collocated	Primary	QA Collocated
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	Y	Y
Instrument manufacturer and model	Teledyne API 400E	SA/GMW 1200	SA/GMW 1200	Thermo 2025i	Thermo 2025i
Analysis method	UV	Gravimetric	Gravimetric	Gravimetric	Gravimetric
Method code	087	063	063	145	145
Monitoring start date (MM/DD/YYYY)	3/1/1994	4/1/1994	1/3/2003	1/1/1999	1/1/1999
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:6	1:6	1:1	1:12
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters) (ground to rooftop = 4.1m)	7.2	5.62	5.62	6.23	6.23
Distance from supporting structure (above rooftop) (meters)	3.1	1.52	1.52	2.13	2.13

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5.5 rooftop access	7 rooftop access	10 rooftop access	None	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D Parapet	None	None	1.2 H x 3.12 D Parapet	1.2 H x 3.12 D Parapet
Distance from the drip line of closest tree(s)	7 Samplers raised to parapet line negating parapet in line of site, raising dripline.	10.5	10	9.5 Samplers raised to parapet line negating parapet in line of site, raising dripline.	11.5 Samplers raised to parapet line negating parapet in line of site, raising dripline.
Distance to furnace or incinerator flue (meters)	3	3	2.8	2.7	3.5
Distance between collocated monitors (meters)	N/A	3.5	3.5	2.3	2.3
Unrestricted airflow (degrees)	360	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A	N/A
Residence time (seconds)	9.2	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	No	No	N/A	N/A

Pollutant	Ozone	PM10 STP	PM10 STP	PM2.5	PM2.5
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	3/11/20	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/11/20, 11/4/20	3/11/20, 11/4/20	3/11/20, 11/4/20	3/11/20, 11/4/20
Changes planned within the next 18 months (Y/N)	N	Sampling suspended 12/20. Change for 2021: Continuous BAM installed, designated primary 4/20, Hi Vols terminated.	Yes. Upgrade to Tisch unit.	N	N

Bakersfield-California (2)				
Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Parameter code	88502	88357	Many	Many
Spatial scale	N	N,U	N,U	N,U
Site type	PE	PE, QA	PE	PE, QA
Basic monitoring objective(s)	RS, TP	RS	RS	RS
Monitor type	Other	SLAMS	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CSN STN	CSN STN	CSN STN
FRM/FEM/ARM/Other	Non-FEM	Other	Other	Other
POC	3	6	5	6
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary & QA Collocated	Primary	QA Collocated
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A	N/A	N/A
Instrument manufacturer and model	Met One BAM 1020	URG 3000-N	Met One SASS	Met One SASS
Analysis method	Beta Attenuation	Cyclone inlet	Many	Many
Method code	731	838	810	810
Monitoring start date (MM/DD/YYYY)	11/01/2001	05/03/2007	01/01/2001	01/01/2001
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:3	1:3	1:6
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31
Probe/Inlet height above ground (meters)	6.43	6.15	5.95	5.95
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.33	2.05	1.85	1.85

Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5 rooftop access	11 & 13 rooftop access	7.5 rooftop access	9.5 rooftop access
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D	Parapet height of 1.1 m surrounding rooftop (1.2 H x 7.0 D)	1.2 H x 7.0 D	1.2 H x 7.0 D
Distance from the drip line of closest tree(s)	8.5	7 & 9	7	8
Distance to furnace or incinerator flue (meters)	1.5	5 & 7	5	6
Distance between collocated monitors (meters)	N/A	1.5 & 1.5	2	2
Unrestricted airflow (degrees)	360	360 & 360	360	360
Probe material (Teflon, etc.)	N/A	N/A	N/A	N/A
Residence time (seconds)	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	No	No	No
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	Monthly
Frequency of flow rate verification for automated PM analyzers audit	Monthly	N/A	N/A	N/A

Pollutant	PM2.5	PM2.5 Speciation	PM2.5 Speciation	PM2.5 Speciation
Frequency of one-point QC check (gaseous)	N/A	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	N/A	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	03/06/2019, 08/21/2019	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	Yes. Replacement of P/C samplers.	N	N

	Bakersfield-California (3)				
Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology	
Parameter code	42602	Many	Many	Many	
Spatial scale	N	N	N	R	
Site type	PE	PE	PE, QA	GB	
Basic monitoring objective(s)	NC, RS, TP	RS, TP	RS, TP	RS, TP	
Monitor type	SLAMS	Many	Many	SLAMS	
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	CA Air Toxics	CA Air Toxics	None	
Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology	
FRM/FEM/ARM/Other	FRM	Other	Other	Other	
POC	1	Many	Many	Many	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	QA Collocated	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 200E	Xontech 924	Xontech 924	Vaisala HMP-155 (OT/RH) RM Young 81000 (WS/WD/3DT)	
Analysis method	CL	Many	Many	Many	
Method code	099	Many	Many	Many	
Monitoring start date (MM/DD/YYYY)	04/01/1994	01/01/2007	01/01/2007	04/01/1994	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	1:12	1:12	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	7.2	5.7	5.7	13.8	

Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	5.5	7.5	9.5	None
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	1.2 H x 4.37 D	1.2 H x 3.89 D	1.2 H x 3.89 D	None
Distance from the drip line of closest tree(s)	7 Samplers raised to parapet line negating parapet in line of site, raising dripline.	14	15	None
Distance to furnace or incinerator flue (meters)	3	2	3	None
Distance between collocated monitors (meters)	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees)	360	360	360	360
Probe material (Teflon, etc.)	Teflon	N/A	N/A	N/A
Residence time (seconds)	10.0	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	Monthly	Monthly	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A	N/A

Pollutant	NO <sub>2</sub>	Toxics	Toxics	Meteorology
Frequency of one-point QC check (gaseous)	Daily	N/A	N/A	N/A
Last Annual Performance Evaluation (gaseous)	3/11/20	N/A	N/A	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	3/11/20	3/11/20	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N

Site Name	Bakersfield-Muni	
AQS ID (XX-XXX-XXXX)	06-029-2012	
Representative statistical		
area Name (i.e. MSA, CBSA,	Bakersfield	
other)		
County	Kern	
Collecting (Operating)	SJVAPCD	
Agency	OUVALOD	
Analytical Lab (i.e. weigh lab,	Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC	
toxics lab, other)	·	
Reporting Agency	SJVAPCD	
Site Start Date	06/01/2012	
Pollutant Parameters	Ozone , CO, NO2, Speciated VOC, NMH	
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation	
Address	2000 South Union Ave., Bakersfield, CA 93307	
GPS Coordinates (decimal degrees)	35.3313 N, -119.0000 W	
Distance to roadways (meters)	280m (west)	
	19,182 / 2020 (Traffic count for monitoring station's street address: S Union Ave between E Casa Loma Dr and Watts	
Traffic Count/Year	Dr. Source: Kern Council of Governments)	
Tranic Count Tear	6.868 / 2020 (Traffic count for road adjacent to monitoring station: Watts Dr between S Union Ave and Short St.	
	Source: Kern Council of Governments)	
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Paved	

Bakersfield-Muni						
Pollutant	Ozone	со	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Parameter code	44201	42101	42602	Many	43102	Many
Spatial scale	N	N	N	N	N	R
Site type	HC	PE	HC	HC	PE	GB
Basic monitoring objective(s)	NC, RS, TP	NC, RS, TP	NC, RS, TP	RS	RS	RS, TP
Monitor type	SLAMS	SLAMS	SLAMS	Other	Other	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	PAMS	PAMS	PAMS, RA40	PAMS	PAMS	PAMS
FRM/FEM/ARM/Other	FEM	FEM	FEM	Other	Other	Other
POC	1	1	1	1	1	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	N/A	N/A	N/A	N/A	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	N/A	N/A	N/A
Instrument manufacturer and model	Teledyne API T265	Thermo 48i TLE	Teledyne API 200E	Entech 1900	Synspec Alpha 115	Many
Analysis method	Chemiluminesc ence	Non- dispersive IR	Chem.	GC / UV Absorption	TEI 55: Propane	Many
Method code	199	554	099	177 / 202	011	Many
Monitoring start date (MM/DD/YYYY)	06/01/2012	07/01/2012	07/01/2012	06/01/2012	10/01/2012	07/01/2012
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	1:3	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	06/01 – 08/31	01/01 – 12/31	01/01 – 12/31
Probe height (meters)	6.0 m	6.0 m	6.0 m	6.3 m	6.0 m	10 m

Pollutant	Ozone	со	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	2.1 m	2.1 m	2.1 m	2.4 m	2.1 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance from the drip line of closest tree(s)	Over 75 m	Over 75 m	Over 75 m	Over 75 m	Over 75 m	Over 75 m
Distance to furnace or incinerator flue (meters)	N/A	N/A	N/A	N/A	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	N/A	N/A	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	350	350	350	350	350
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	Teflon/Pyrex with Borosilicate	Teflon/Pyre x with Borosilicate	Stainless Steel	Teflon/Pyre x with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	13.23	13.84	13.41	4	6.95	N/A
Frequency of one-point QC check for gaseous instruments	Daily	Daily	Daily	N/A	Daily	N/A

Pollutant	Ozone	со	NO <sub>2</sub>	Speciated VOC	NMH	Meteorology
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A	N/A	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A	N/A	N/A	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol?	N/A	N/A	N/A	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A	N/A	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	3/10/2020	3/10/2020	3/10/20	N/A	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A	N/A	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N	N	N	N	N

Site Name	Bakersfield-Airport (Planz)
AQS ID (XX-XXX-XXXX)	06-029-0016
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	CARB
Reporting Agency	CARB
Site Start Date	09/19/2000
Pollutant Parameters	PM2.5 FRM
Meteorological Parameters	None
Address	401 E. Planz Rd., Bakersfield CA 93307
GPS Coordinates (decimal degrees)	35.3246 N, -118.9976 W
Distance to road	500 m (west)
Traffic Count/Year	14,235 / 2020 (Traffic count for nearest cross street): S. Union Ave between E. Planz Rd and E White Lane Source: Kern Council of Governments) 1,334 / 2020 (Traffic count for monitoring station's street address) Source: Kern Council of Governments)
Ground Cover	Paved

Bakersfield-Airport (Planz)				
Pollutant	PM2.5			
Parameter code	88101			
Spatial scale	N			
Site type	HC, PE			
Basic monitoring objective(s)	NC, RS			
Monitor type	SLAMS			
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None			
FRM/FEM/ARM/Other	FRM			
POC	1			
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary			
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	Υ			
Instrument manufacturer and model	R&P 2025			
Analysis method	Gravimetric			
Method code	145			
Monitoring start date (MM/DD/YYYY)	09/19/2000			
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	1:3			
Sampling season	01/01 – 12/31			
Probe Inlet height above ground (meters)	2.0			
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	None			
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None			
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None			
Distance from the drip line of closest tree(s)	None			
Distance to furnace or incinerator flue (meters)	None			
Distance between collocated monitors (meters)	None			
Unrestricted airflow (degrees)	360			
Probe material (Teflon, etc.)	N/A			
Residence time (seconds)	N/A			
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A			

Pollutant	PM2.5
For high volume PM instrument (flow rate > 200 liters/minute), is any	
PM instrument within 2m of the hivol? If yes, please list distance	N/A
(meters) and instrument(s).	
Frequency of flow rate verification for manual PM samplers audit	Monthly
Frequency of flow rate verification for automated PM analyzers audit	N/A
Frequency of one-point QC check (gaseous)	N/A
Last Annual Performance Evaluation (gaseous)	N/A
Last two semi-annual flow rate audits for PM monitors	3/11/20, 11/4/20
Changes planned within the next 18 months (Y/N)	Plans are to acquire a platform to raise the sampler off of the tarmac.

Site Name	Edison
AQS ID (XX-XXX-XXXX)	06-029-0007
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	CARB
Site Start Date	01/01/1980
Pollutant Parameters	Ozone, NO <sub>2</sub>
Meteorological Parameters	Wind speed, wind direction, outside temperature, relative humidity
Address	Jahnatan Farma Edican CA 02220
Address	Johnston Farm, Edison, CA 93320
GPS Coordinates (decimal degrees)	35.34561 N, -118.85183 W
Distance to road	450 m (south)
Traffic Count/Year	2,753/2020 (Traffic count for nearest roads: Edison Hwy. and Comanche Dr., Source: Kern Council of Governments)
Ground Cover	Dirt, vegetative

Edison				
Pollutant	Ozone	NO <sub>2</sub>	Meteorology	
Parameter code	44201	42602	Many	
Spatial scale	N	N	R	
Site type	HC, RT	PE	GB	
Monitoring objective	NC, RS, TP	NC, RS, TP	RS, TP	
Monitor type	SLAMS	SLAMS	Other	
Network affiliation	None	None	None	
FRM/FEM/ARM/Other	FEM	FRM	Other	
POC	1	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Primary	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400	Teledyne API 200E	RM Young 81000, Vaisala HMP 155	
Analysis method	UV	CL	Many	
Method code	087	099	Many	
Monitoring start date (MM/DD/YYYY)	01/01/1981	01/01/1980	01/01/1995	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	01/01 – 12/31	
Probe/Inlet height above ground (meters)	5.4	5.4	10 (OT 2.1 m)	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.5	1.5	None	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None	None	
Distance from the drip line of closest tree(s)	16.1 (11.0 m to dripline)	16.1 (11.0 m to dripline)	18.5	
Distance to furnace or incinerator flue (meters)	None	None	None	
Distance between collocated monitors (meters)	N/A	N/A	N/A	
Unrestricted airflow (degrees)	360	360	360	

Pollutant	Ozone	NO <sub>2</sub>	Meteorology
Probe material (Teflon, etc.)	Teflon	Teflon	N/A
Residence time (seconds)	8.5	14.5	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	Daily	N/A
Last Annual Performance Evaluation (gaseous)	8/25/20	not audited in 2020	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A	N/A
Changes planned within the next 18 months (Y/N)	Changes proposed: External only, to install stair access to roof/railing	Changes proposed: External only, to install stair access to roof/railing	Changes proposed: External only, to install stair access to roof/railing

Site Name	Arvin-Di Giorgio
AQS ID (XX-XXX-XXXX)	06-029-5002
Representative statistical area Name (i.e. MSA, CBSA,	Bakersfield
other)	
County	Kern
Collecting (Operating) Agency	CARB
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	CARB
Site Start Date	11/16/2009
Pollutant Parameters	Ozone
Meteorological Parameters	Outdoor temperature, wind speed, wind direction, sonic temperature, relative humidity
Address	19405 Buena Vista Blvd, Arvin CA 93203
GPS Coordinates (decimal degrees)	35.2391 N, -118.7886 W
Distance to road	10 m (east)
Traffic Count/Year	394 / 2020 (Traffic count for Buena Vista Blvd east of Tejon Hwy., Source: Kern Council of Governments.)
Ground Cover	Dirt, vegetative

Arvin-Di Giorgio				
Pollutant	Ozone	Meteorology		
Parameter code	44201	Many		
Spatial scale	N	R		
Site type	HC, PE	GB		
Monitor objective	NC, RS, TP	RS, TP		
Monitor type	SLAMS	SLAMS (WD, WS), Other (OT, RH)		
Network affiliation	PAMS (pending)	PAMS (pending)		
FRM/FEM/ARM/Other	FEM	Other		
POC	1	2		
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other		
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A		
Instrument manufacturer and model	Teledyne API 400E	RM Young 81000, Vaisala HMP155		
Analysis method	UV	Many		
Method code	087	Many		
Monitoring start date (MM/DD/YYYY)	11/16/2009	11/16/2009, 9/2/2015 (Vaisala)		
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly		
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31		
Probe height (meters)	4.4	10		
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.8	N/A		
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None		
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	None	None		
Distance from the drip line of closest tree(s)	>10	18.5		
Distance to furnace or incinerator flue (meters)	N/A	N/A		
Distance between collocated monitors (meters)	N/A	N/A		
Unrestricted airflow (degrees)	360	360		
Probe material (Teflon, etc.)	TEFLON	TEFLON		
Residence time (seconds)	5.6	N/A		

Pollutant	Ozone	Meteorology
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol?	N/A	N/A
If yes, please list distance (meters) and instrument(s).  For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Frequency of flow rate verification for manual PM samplers audit	N/A	N/A
Frequency of flow rate verification for automated PM analyzers audit	N/A	N/A
Frequency of one-point QC check (gaseous)	Daily	N/A
Last Annual Performance Evaluation (gaseous)	9/5/20	N/A
Last two semi-annual flow rate audits for PM monitors	N/A	N/A
Changes planned within the next 18 months (Y/N)	Ozone was offline from 1/20 through 6/20 due to theft/vandalism. Plans are to install a new, permanent monitoring shelter within the next 18 months.	Plans are to install a new, permanent monitoring shelter within the next 18 months.

Site Name	Maricopa
AQS ID (XX-XXX-XXXX)	06-029-0008
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	7/1/1987
Pollutant Parameters	Ozone
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	755 Stanislaus St., Maricopa, CA 93252
GPS Coordinates (decimal degrees)	35.0515 N, -119.4026 W
Distance to roadways (meters)	500 (northwest)
Traffic Count/Year	491/2021 (Traffic count for nearest roads: Union St. at California St., Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, dirt, vegetative

Maricopa Maricopa			
Pollutant	Ozone	Meteorology	
Parameter code	44201	Many	
Spatial scale	N	N	
Site type	HC, RT	GB	
Basic monitoring objective(s)	NC, RS, TP	RS, TP	
Monitor type	SLAMS	Other	
Network affiliation(s), if applicable (a monitor may have none, or multiple)	None	None	
FRM/FEM/ARM/Other	FEM	Other	
POC	1	1	
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	N/A	Other	
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N/A	N/A	
Instrument manufacturer and model	Teledyne API 400E	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C	
Analysis method	UV	Many	
Method code	087	Many	
Monitoring start date (MM/DD/YYYY)	07/01/1987	07/01/1987	
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly	
Sampling season (MM/DD - MM/DD)	01/01 – 12/31	01/01 – 12/31	
Probe height (meters)	4.1 m	10 m	
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.0 m	N/A	
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	3 m H 0.5 m V	N/A	
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	17 m H 1 m V	N/A	
Distance from the drip line of closest tree(s)	18 m H 8 m V	20 m	
Distance to furnace or incinerator flue (meters)	N/A	N/A	
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A	
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	350	360	

Pollutant	Ozone	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	Teflon/Pyrex with Borosilicate	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	8.24	N/A
Frequency of one-point QC check for gaseous instruments	Daily	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	N/A	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	8/26/2020	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	N/A	N/A
Changes planned within the next 18 months (Y/N)	N	N

Site Name	Lebec
AQS ID (XX-XXX-XXXX)	06-029-2009
Representative statistical area Name (i.e. MSA, CBSA, other)	Bakersfield
County	Kern
Collecting (Operating) Agency	SJVAPCD
Analytical Lab (i.e. weigh lab, toxics lab, other)	N/A
Reporting Agency	SJVAPCD
Site Start Date	1/20/2009
Pollutant Parameters	PM2.5 Non-FEM
Meteorological Parameters	Wind speed, wind direction, outdoor temperature, barometric pressure
Address	1277 Beartrap Road, Lebec, CA 93243
GPS Coordinates (decimal degrees)	34.8415N, -118.8610W
Distance to roadways (meters)	300 m (west)
Traffic Count/Year	494/2018 (Traffic count for nearest roads: Lebec Rd near Interstate 5, Source: Kern Council of Governments.)
Groundcover (e.g. paved, vegetative, dirt, sand, gravel)	Gravel, vegetative

Lebec		
Pollutant	PM2.5	Meteorology
Parameter code	88502	Many
Spatial scale	N	R
Site type	PE	GB
Basic monitoring objective(s)	TP	RS, TP
Monitor type	SPM	Other
Network affiliation(s), if applicable (a monitor may have none, one, or multiple)	None	None
FRM/FEM/ARM/Other	Non-FEM	Other
POC	3	1
Primary / QA Collocated / Other (provide for all PM <sub>2.5</sub> , PM <sub>10</sub> , PM <sub>10-2.5</sub> , Pb and NO <sub>2</sub> monitors. Non-PM, Pb, NO <sub>2</sub> monitors should be listed as "N/A".)	Primary	Other
Is it suitable for comparison against the annual PM <sub>2.5</sub> ? (Y/N)	N	N/A
Instrument manufacturer and model	MET One BAM 1020	ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD- Met One 020C, WS-Met One 010C
Analysis method	Beta Attenuation	Many
Method code	731	Many
Monitoring start date (MM/DD/YYYY)	01/27/2009	OT, WS, WD - 12/09/2009; BP - 01/28/2010
Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)	Hourly	Hourly
Sampling season (MM/DD - MM/DD)	01/01 -12/31	01/01 – 12/31
Probe height (meters)	4.62 m	4.9 m
Distance from supporting structure (vertical and horizontal, if applicable, should be provided)	1.98 m	N/A
Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A
Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)	N/A	N/A
Distance from the drip line of closest tree(s)	200 m	200 m
Distance to furnace or incinerator flue (meters)	N/A	N/A
Distance between monitors fulfilling a QA collocation requirement (meters).	N/A	N/A
Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)	360	360

Pollutant	PM2.5	Meteorology
Probe material for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)	N/A	N/A
Residence time for reactive gases NO/NO <sub>2</sub> /NO <sub>y</sub> , SO <sub>2</sub> , O <sub>3</sub> ; PAMS: VOCs, Carbonyls (seconds)	N/A	N/A
Frequency of one-point QC check for gaseous instruments	N/A	N/A
Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)	N/A	N/A
Frequency of flow rate verification for automated PM analyzers (routine checks)	Monthly	N/A
For low volume PM instruments (flow rate < 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).	No	N/A
For high volume PM instrument (flow rate > 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).	N/A	N/A
Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)	N/A	N/A
Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)	9/15/2020, 10/27/2020	N/A
Changes planned within the next 18 months (Y/N)	N	N

n Joaquin Valley Air Pollution Control District	<u>June 1, 2021</u>
APPENDIX C:	
ALL ENDIX 6.	
San Joaquin Valley Air Pollution Control District Inspection Period on the 2021 Air Monitoring	

June 1, 2021

## SAN JOAQUIN VALLEY UNIFIED AIR POLLUTION CONTROL DISTRICT NOTICE OF PUBLIC INSPECTION PERIOD ON THE DRAFT 2021 AIR MONITORING NETWORK PLAN

NOTICE IS HEREBY GIVEN that a 30-day public inspection period is being held on the San Joaquin Valley Air Pollution Control District's (District) Draft 2021 Air Monitoring Network Plan.

Interested persons may submit comments to:

Robert Gilles
San Joaquin Valley Unified Air Pollution Control District
1990 East Gettysburg Avenue
Fresno, CA 93726

Email: robert.gilles@valleyair.org

The public inspection period began June 1, 2021 and will end July 1, 2021.

Copies of the Draft 2021 Air Monitoring Network Plan can be obtained by calling (559) 230-6000. You may download a copy of the Draft 2021 Air Monitoring Network Plan from the District's website on or after June 1, 2021, under the Other Notices portion of the Public Notices page:

https://www.valleyair.org/notices/public\_notices\_idx.htm#Other%20Notices

For additional information, contact Robert Gilles by phone at (559) 230-6000.

## DISTRITO UNIFICADO PARA EL CONTROL DE LA CONTAMINACIÓN DEL AIRE DEL VALLE DE SAN JOAQUÍN AVISO DE PERÍODO DE INSPECCIÓN PÚBLICA SOBRE EL BORRADOR DEL PLAN DE LA RED DE MONITOREO DEL AIRE DE 2021

POR LA PRESENTE SE DA AVISO de un período de 30 días de inspección pública se está llevando sobre el Borrador del Plan de la Red de Monitoreo del Aire de 2021 del Distrito de Control de la Contaminación del Aire del Valle de San Joaquín (Distrito).

Las personas interesadas pueden enviar comentarios a:

Robert Gilles
Distrito del Aire del Valle de San Joaquín
1990 East Gettysburg Avenue
Fresno, CA 93726

Correo electrónico: robert.gilles@valleyair.org

El período de inspección pública comienza el 1 de junio de 2021 y termina el 1 de julio de 2021.

Copias del Borrador del Plan de la Red de Monitoreo del Aire de 2021 pueden ser obtenidas llamando al (559) 230-6000. Puede descargar una copia del Borrador del Plan de la Red de Monitoreo del Aire de 2021 del sitio web del Distrito el día o después del 1 de junio del 2021, bajo la porción de Otros avisos de la página de Avisos Públicos.

https://www.valleyair.org/notices/public notices idx.htm#Other%20Notices

Para información adicional, contacte a Robert Gilles llamando al (559) 230-6000.

San Joaquin Valley Air Pollution Control District	July 1, 2021
APPENDIX D:	
Comments and Responses	

San Joaquin Valley Air Pollution Control District	July 1, 202
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Appendix D: Comments and Responses	

## **Appendix E: Comments and Responses**

The District received no public comments on the 2021 Air Monitoring Network Plan.