San Joaquin Valley Air Pollution Control District

2021 Air Monitoring Network Plan

July 1, 2021
TABLE OF CONTENTS

The District’s Core Values Exhibited in the Air Monitoring Network ........................................ vi
EXECUTIVE SUMMARY ............................................................................................................ 1
AIR MONITORING NETWORK PLAN REQUIREMENTS .......................................................... 3
  Monitoring Objectives, Site Types, and Spatial Scales .......................................................... 7
  Meteorology .......................................................................................................................... 8
  State of the Air Monitoring Network .................................................................................... 8
POLLUTANT MONITORING REQUIREMENTS ..................................................................... 11
  Ozone .................................................................................................................................. 11
  Photochemical Assessment Monitoring Stations ................................................................. 12
  Nitrogen Dioxide .................................................................................................................. 13
  Carbon Monoxide ................................................................................................................. 15
  Sulfur Dioxide ...................................................................................................................... 16
  Reactive Nitrogen Compounds (NOy) .................................................................................. 17
  Toxics .................................................................................................................................... 17
  Detailed Site Information – Gaseous Monitors ...................................................................... 17
  Particulate Matter (PM) ......................................................................................................... 20
  Detailed Site Information – PM Monitors ............................................................................. 21
  PM Collocation Requirements .............................................................................................. 22
  Public Review of Changes to the PM2.5 Monitoring Network ............................................. 22
  PM10 Monitoring Requirements ............................................................................................. 22
  PM2.5 Chemical Speciation Site Requirements .................................................................... 26
  NCore .................................................................................................................................... 30
  Non-EPA Federal Monitors .................................................................................................... 31
IMPROVEMENTS AND PLANNED CHANGES TO THE DISTRICT’S AIR MONITORING NETWORK ................................................................. 37
  Planned Improvements and Other Changes for 2020/2021 .................................................. 38
DATA SUBMISSION REQUIREMENTS .................................................................................. 41
ACRONYMS AND ABBREVIATIONS ....................................................................................... 42
APPENDICES

Appendix A: Monitoring Site Descriptions

Appendix B: Detailed Site Information

Appendix C: Notice of Public Inspection Period

Appendix D: Comments and Responses
LIST OF FIGURES

Figure 1  Map of Air Monitoring Sites in the San Joaquin Valley ........................................ 2

LIST OF TABLES

Table 1  Types of Air Monitoring Stations, Monitors, and Networks ................................. 3
Table 2  San Joaquin Valley Areas of Representation .................................................... 5
Table 3  Site Identification .............................................................................................. 5
Table 4  San Joaquin Valley 2020 Population .................................................................. 7
Table 5  Pollutant Parameters Monitored in the San Joaquin Valley ......................... 9
Table 6  Meteorological Parameters Monitored in the San Joaquin Valley .................. 10
Table 7  SLAMS Minimum Ozone Monitoring Requirements ...................................... 11
Table 8  Ozone Monitoring Requirements for the Valley ........................................... 12
Table 9  San Joaquin Valley PAMS Network ............................................................. 13
Table 10  San Joaquin Valley SO2 PWEI Values for 2020 ........................................... 16
Table 11  Gaseous Monitors .......................................................................................... 18
Table 12  Gaseous Monitors – Monitor Type ............................................................... 19
Table 13  Minimum PM10 Monitoring Requirements* ................................................. 23
Table 14  PM10 Monitoring Requirements for the Valley .......................................... 23
Table 15  24-Hour PM10 highest concentrations at each site* ...................................... 24
Table 16  Minimum PM2.5 Monitoring Requirements ................................................ 25
Table 17  PM2.5 Monitoring Requirements for the Valley* ............................................ 25
Table 18  24-Hour and Annual PM2.5 Maximum Design Values .................................. 26
Table 19  PM2.5 Speciation Monitors ......................................................................... 27
Table 20  PM Monitors ................................................................................................. 28
Table 21  PM Monitors – Monitor Type ....................................................................... 29
Table 22  QA Collocated Monitors ............................................................................ 30
Table 23  Fresno-Garland NCore Site ........................................................................... 31
Table 24  Non-EPA Federal Monitors ........................................................................... 32
Table 25  SLAMS Site Type ....................................................................................... 33
Table 26  SLAMS – Spatial Scale .............................................................................. 34
Table 27  SLAMS – Basic Monitoring Objective ........................................................ 35
Table 28  SLAMS – Basic Monitoring Objective (cont’d) ............................................. 36
Table 29  SLAMS – Current Sampling Frequency ....................................................... 36
Table 30  SPM / Other (PM2.5 Continuous) ............................................................... 37
Table 31  Summary of Proposed Changes to the Air Monitoring Network .................... 40
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.
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 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>
<thead>
<tr>
<th>Abbreviation</th>
<th>Full Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRM</td>
<td>Federal Reference Method</td>
<td>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.</td>
</tr>
<tr>
<td>FEM</td>
<td>Federal Equivalent Method</td>
<td>These monitors are considered to be equivalent to FRM monitors for the purpose of determining compliance with EPA’s health-based air quality standards.</td>
</tr>
<tr>
<td>NCore</td>
<td>National Core</td>
<td>Multipollutant monitoring stations; in California, these are operated by CARB.</td>
</tr>
<tr>
<td>PAMS</td>
<td>Photochemical Assessment Monitoring Station</td>
<td>VOC (volatile organic compounds) speciation sites used in serious, severe, or extreme ozone nonattainment areas for precursor evaluation.</td>
</tr>
<tr>
<td>SLAMS</td>
<td>State and Local Air Monitoring Station</td>
<td>Monitoring sites that are used for determinations of compliance with federal air quality standards, though they may be used for other purposes as well.</td>
</tr>
<tr>
<td>SPM</td>
<td>Special Purpose Monitor</td>
<td>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.</td>
</tr>
<tr>
<td>STN</td>
<td>Speciated Trends Network</td>
<td>PM2.5 speciation stations that provide chemical speciation data of particulate matter (PM).</td>
</tr>
</tbody>
</table>
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
  - 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 “population-oriented.” 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

<table>
<thead>
<tr>
<th>TITLE</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresno-Madera</td>
<td>260</td>
</tr>
<tr>
<td>Metropolitan Statistical Area (MSA)</td>
<td>Core-Based Statistical Area (CBSA) Code</td>
</tr>
<tr>
<td>Stockton-Lodi</td>
<td>44700</td>
</tr>
<tr>
<td>Modesto</td>
<td>33700</td>
</tr>
<tr>
<td>Merced</td>
<td>32900</td>
</tr>
<tr>
<td>Madera</td>
<td>31460</td>
</tr>
<tr>
<td>Fresno</td>
<td>23420</td>
</tr>
<tr>
<td>Hanford-Corcoran</td>
<td>25260</td>
</tr>
<tr>
<td>Visalia-Porterville</td>
<td>47300</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>MSA/CBSA: Stockton-Lodi</th>
<th>County: San Joaquin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>AQS ID</td>
</tr>
<tr>
<td>Stockton-Hazelton</td>
<td>060771002</td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>060773005</td>
</tr>
<tr>
<td>Manteca</td>
<td>060772010</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MSA/CBSA: Modesto</th>
<th>County: Stanislaus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>AQS ID</td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>06-099-0005</td>
</tr>
<tr>
<td>Turlock</td>
<td>06-099-0006</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MSA/CBSA: Merced</th>
<th>County: Merced</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>AQS ID</td>
</tr>
<tr>
<td>Merced-M St</td>
<td>06-047-2510</td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>06-047-0003</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MSA/CBSA: Madera</th>
<th>County: Madera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>AQS ID</td>
</tr>
<tr>
<td>Madera-City</td>
<td>06-039-2010</td>
</tr>
<tr>
<td>Madera-Pump Yard</td>
<td>06-039-0004</td>
</tr>
</tbody>
</table>
### Table 3  Site Identification (continued)

**MSA/CBSA:** Fresno  
**County:** Fresno

<table>
<thead>
<tr>
<th>Site Name</th>
<th>AQS ID</th>
<th>Operating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tranquillity</td>
<td>06-019-2009</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Sky Park</td>
<td>06-019-0242</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>06-019-5001</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Garland</td>
<td>06-019-0011</td>
<td>CARB</td>
</tr>
<tr>
<td>Fresno-Pacific</td>
<td>06-019-5025</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>06-019-0007</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Foundry</td>
<td>06-019-2016</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Parlier</td>
<td>06-019-4001</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Huron</td>
<td>06-019-2008</td>
<td>SJVAPCD</td>
</tr>
</tbody>
</table>

**MSA/CBSA:** Hanford-Corcoran  
**County:** Kings

<table>
<thead>
<tr>
<th>Site Name</th>
<th>AQS ID</th>
<th>Operating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hanford-Irwin</td>
<td>06-031-1004</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Corcoran-Patterson</td>
<td>06-031-0004</td>
<td>SJVAPCD</td>
</tr>
</tbody>
</table>

**MSA/CBSA:** Visalia-Porterville  
**County:** Tulare

<table>
<thead>
<tr>
<th>Site Name</th>
<th>AQS ID</th>
<th>Operating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visalia-Church St</td>
<td>06-107-2002</td>
<td>CARB</td>
</tr>
<tr>
<td>Porterville</td>
<td>06-107-2010</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Sequoia-Ash Mountain</td>
<td>06-107-0009</td>
<td>NPS</td>
</tr>
<tr>
<td>Sequoia-Lower Kaweah</td>
<td>06-107-0006</td>
<td>NPS</td>
</tr>
</tbody>
</table>

**MSA/CBSA:** Bakersfield  
**County:** Kern (Valley Portion)

<table>
<thead>
<tr>
<th>Site Name</th>
<th>AQS ID</th>
<th>Operating Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shafter</td>
<td>06-029-6001</td>
<td>CARB and SJVAPCD</td>
</tr>
<tr>
<td>Oildale</td>
<td>06-029-0232</td>
<td>CARB</td>
</tr>
<tr>
<td>Bakersfield-Golden / M St</td>
<td>06-029-0010</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Bakersfield-Westwind</td>
<td>06-029-2019</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>06-029-0014</td>
<td>CARB</td>
</tr>
<tr>
<td>Bakersfield-Muni</td>
<td>06-029-2012</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Bakersfield-Airport (Planz)</td>
<td>06-029-0016</td>
<td>CARB</td>
</tr>
<tr>
<td>Edison</td>
<td>06-029-0007</td>
<td>CARB</td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>06-029-5002</td>
<td>CARB</td>
</tr>
<tr>
<td>Maricopa</td>
<td>06-029-0008</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Lebec</td>
<td>06-029-2009</td>
<td>SJVAPCD</td>
</tr>
</tbody>
</table>
Table 4  San Joaquin Valley 2020 Population

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

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

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.
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

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Ozone</th>
<th>PM2.5</th>
<th>PM10</th>
<th>PM10-2.5</th>
<th>NO2</th>
<th>CO</th>
<th>SO2</th>
<th>NMH</th>
<th>Speciated VOC</th>
<th>NOx</th>
<th>PM2.5 Speciation</th>
<th>Toxics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Hazelton</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Maricopa</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td>Lebec</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
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>
<thead>
<tr>
<th>MSA population, based on latest available census figures</th>
<th>Number of monitors required if:</th>
<th>Most recent 3-year design value concentrations ≥85% of any ozone NAAQS*</th>
<th>Most recent 3-year design value concentrations &lt;85% of any ozone NAAQS*</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 10 million</td>
<td>4</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>4 - 10 million</td>
<td>3</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>350,000 - &lt; 4 million</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>50,000 - &lt; 350,000</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>
Table 8  Ozone Monitoring Requirements for the Valley

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

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

^ DVs with and without wildfire impacts ≥85% of any ozone NAAQS

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.
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>
<thead>
<tr>
<th>MSA</th>
<th>Site</th>
<th>Site Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresno</td>
<td>Madera-Pump Yard</td>
<td>Type 1: Upwind/Background site</td>
</tr>
<tr>
<td></td>
<td>Clovis-Villa</td>
<td>Type 2: Maximum precursor emissions</td>
</tr>
<tr>
<td></td>
<td>Parlier</td>
<td>Type 3: Maximum ozone concentrations</td>
</tr>
<tr>
<td>Bakersfield</td>
<td>Shafter</td>
<td>Type 1: Upwind/Background site</td>
</tr>
<tr>
<td></td>
<td>Bakersfield-Muni</td>
<td>Type 2: Maximum precursor emissions</td>
</tr>
<tr>
<td></td>
<td>Arvin-Di Giorgio*</td>
<td>Type 3: Maximum ozone concentrations</td>
</tr>
</tbody>
</table>

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

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

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

<table>
<thead>
<tr>
<th>Site Name</th>
<th>FRM/FEM/Other</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ozone</td>
</tr>
<tr>
<td>Stockton-Hazelton</td>
<td>FEM</td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>FEM</td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>FEM</td>
</tr>
<tr>
<td>Turlock</td>
<td>FEM</td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>FEM</td>
</tr>
<tr>
<td>Madera-City</td>
<td>FEM</td>
</tr>
<tr>
<td>Madera-Pump Yard</td>
<td>FEM</td>
</tr>
<tr>
<td>Tranquility</td>
<td>FEM</td>
</tr>
<tr>
<td>Fresno-Sky Park</td>
<td>FEM</td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>FRM</td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>FRM</td>
</tr>
<tr>
<td>Fresno-Foundry</td>
<td>FEM</td>
</tr>
<tr>
<td>Parlier</td>
<td>FEM</td>
</tr>
<tr>
<td>Hanford-Irwin</td>
<td>FEM</td>
</tr>
<tr>
<td>Visalia-Church St</td>
<td>FEM</td>
</tr>
<tr>
<td>Porterville</td>
<td>FEM</td>
</tr>
<tr>
<td>Shafter</td>
<td>FEM</td>
</tr>
<tr>
<td>Oildale</td>
<td>FEM</td>
</tr>
<tr>
<td>Bakersfield-Westwind</td>
<td>FEM</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>FEM</td>
</tr>
<tr>
<td>Bakersfield-Muni</td>
<td>FEM</td>
</tr>
<tr>
<td>Edison</td>
<td>FEM</td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>FEM</td>
</tr>
<tr>
<td>Maricopa</td>
<td>FEM</td>
</tr>
</tbody>
</table>

Monitoring method information for the Fresno-Garland NCore site is provided in Table 23.
### Table 12  Gaseous Monitors – Monitor Type

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Monitor Type</th>
<th>Ozone</th>
<th>NO2</th>
<th>CO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Hazelton</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>SLAMS</td>
<td></td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Turlock</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madera-City</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madera-Pump Yard</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tranquility</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresno-Sky Park</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fresno-Foundry</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parlier</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hanford-Irwin</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visalia-Church St</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Porterville</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shafter</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oildale</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Westwind</td>
<td>SLAMS</td>
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<tr>
<td>Bakersfield-California</td>
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<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Muni</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edison</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maricopa</td>
<td>SLAMS</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 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/m$^3$). 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*

<table>
<thead>
<tr>
<th>Population category</th>
<th>High concentration**</th>
<th>Medium concentration***</th>
<th>Low concentration****</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;1,000,000</td>
<td>6–10</td>
<td>4–8</td>
<td>2–4</td>
</tr>
<tr>
<td>500,000–1,000,000</td>
<td>4–8</td>
<td>2–4</td>
<td>1–2</td>
</tr>
<tr>
<td>250,000–500,000</td>
<td>3–4</td>
<td>1–2</td>
<td>0–1</td>
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<tr>
<td>100,000–250,000</td>
<td>1–2</td>
<td>0–1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

Table 14 PM10 Monitoring Requirements for the Valley

<table>
<thead>
<tr>
<th>MSA</th>
<th>County</th>
<th>2020 Population</th>
<th>PM10 (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2020 24-hour</td>
<td>PM10 (µg/m³)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Highest</td>
<td>2020 24-hour</td>
</tr>
<tr>
<td></td>
<td></td>
<td>concentration</td>
<td>Highest</td>
</tr>
<tr>
<td></td>
<td></td>
<td>in MSA</td>
<td>in MSA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of</td>
<td>Number of</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SLAMS required</td>
<td>SLAMS required</td>
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<td></td>
<td>Exceptional</td>
<td>Exceptional</td>
</tr>
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<td></td>
<td></td>
<td>Events Included</td>
<td>Events Excluded</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td>Exceptional</td>
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<td></td>
<td></td>
<td>Events Excluded</td>
<td>Events Excluded</td>
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<td>Number of</td>
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</tr>
<tr>
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<td></td>
<td>in MSA</td>
</tr>
<tr>
<td>Stockton-Lodi</td>
<td>San Joaquin</td>
<td>773,505</td>
<td>335</td>
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<td></td>
<td></td>
<td>4-8</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>141</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Modesto</td>
<td>Stanislaus</td>
<td>554,931</td>
<td>332</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>4-8</td>
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<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Merced</td>
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<td>283,352</td>
<td>210</td>
</tr>
<tr>
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<td></td>
<td>3-4</td>
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<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Madera</td>
<td>Madera</td>
<td>158,602</td>
<td>373</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>1-2</td>
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<tr>
<td>Fresno</td>
<td>Fresno</td>
<td>1,020,292</td>
<td>350</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>6-10</td>
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<td>153</td>
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</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Hanford-Corcoran</td>
<td>Kings</td>
<td>153,189</td>
<td>481</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>164</td>
</tr>
<tr>
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<td>0-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2</td>
</tr>
<tr>
<td>Visalia-Porterville</td>
<td>Tulare</td>
<td>479,403</td>
<td>316</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3-4</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Bakersfield***</td>
<td>Kern</td>
<td>779,304</td>
<td>277</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4-8</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

* PM10 monitoring requirements for the Valley before all data influenced by exceptional events is removed
** PM10 monitoring requirements for the Valley after all data influenced by exceptional events is removed
*** 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

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

^Current Sampling Frequency information is provided in Table 27.
* PM10 monitoring requirements for the Valley before all data influenced by exceptional events is removed
** PM10 monitoring requirements for the Valley after all data influenced by exceptional events is removed
*** Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23.

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

<table>
<thead>
<tr>
<th>MSA population</th>
<th>Most recent 3-yr design value % of the 24-Hour or Annual PM2.5 NAAQS*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>≥85%</td>
</tr>
<tr>
<td>&gt;1,000,000</td>
<td>3</td>
</tr>
<tr>
<td>500,000 - 1,000,000</td>
<td>2</td>
</tr>
<tr>
<td>50,000 - &lt;500,000</td>
<td>1</td>
</tr>
</tbody>
</table>

* 24-hour PM2.5 NAAQS is 35 µg/m³. Annual PM2.5 NAAQS is 12 µg/m³.
** These minimum monitoring requirements apply in the absence of a design value.

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

<table>
<thead>
<tr>
<th>MSA</th>
<th>County</th>
<th>2020 Population</th>
<th>Exceptional Events Included*</th>
<th>Exceptional Events Excluded**</th>
<th>SLAMS in MSA</th>
<th>Number of Continuous PM2.5 Monitors in MSA**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Lodi</td>
<td>San Joaquin</td>
<td>773,505</td>
<td>69</td>
<td>13.7</td>
<td>2</td>
<td>65</td>
</tr>
<tr>
<td>Modesto</td>
<td>Stanislaus</td>
<td>554,931</td>
<td>71</td>
<td>14.5</td>
<td>2</td>
<td>65</td>
</tr>
<tr>
<td>Merced</td>
<td>Merced</td>
<td>283,352</td>
<td>53</td>
<td>13</td>
<td>1</td>
<td>53</td>
</tr>
<tr>
<td>Madera</td>
<td>Madera</td>
<td>158,602</td>
<td>53</td>
<td>13.5</td>
<td>1</td>
<td>53</td>
</tr>
<tr>
<td>Fresno***</td>
<td>Fresno</td>
<td>1,020,292</td>
<td>89†</td>
<td>20.3†</td>
<td>3</td>
<td>65</td>
</tr>
<tr>
<td>Hanford-Corcoran</td>
<td>Kings</td>
<td>153,189</td>
<td>69</td>
<td>16.6</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>Visalia-Porterville</td>
<td>Tulare</td>
<td>479,403</td>
<td>64</td>
<td>16.8</td>
<td>1</td>
<td>64</td>
</tr>
<tr>
<td>Bakersfield ****</td>
<td>Kern</td>
<td>779,304</td>
<td>63</td>
<td>17.6</td>
<td>2</td>
<td>64</td>
</tr>
</tbody>
</table>

* Air quality data may include data influenced by exceptional events and/or data completeness and substitution requirements.
** Number of continuous monitors includes regulatory and non-regulatory monitors.
*** 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

<table>
<thead>
<tr>
<th>MSA</th>
<th>Site Name</th>
<th>Exceptional Events Included*</th>
<th>Exceptional Events Excluded**</th>
<th>Exceptional Events Included*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24-Hour Design Value</td>
<td>Annual Design Value</td>
<td>Design Value</td>
<td>Design Value</td>
</tr>
<tr>
<td>Stockton-Lodi</td>
<td>Stockton-Hazelton</td>
<td>69</td>
<td>13.7</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Manteca</td>
<td>68</td>
<td>12.0</td>
<td>65</td>
</tr>
<tr>
<td>Modesto</td>
<td>Modesto-14th St</td>
<td>70</td>
<td>12.5</td>
<td>65</td>
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<tr>
<td></td>
<td>Turlock</td>
<td>71</td>
<td>14.5</td>
<td>64</td>
</tr>
<tr>
<td>Merced</td>
<td>Merced-M St</td>
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<td>12.9</td>
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<td>Merced-Coffee</td>
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<td>Madera-City</td>
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<td>Tranquility</td>
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<td>9.6</td>
<td>54</td>
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<td>Clovis-Villa</td>
<td>77</td>
<td>14.3</td>
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<td>Fresno-Garland</td>
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<td>15.6</td>
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<td>Fresno-Pacific</td>
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<tr>
<td></td>
<td>Fresno-Foundry</td>
<td>89</td>
<td>20.3</td>
<td>64</td>
</tr>
<tr>
<td>Hanford-Corcoran</td>
<td>Hanford-Irwin</td>
<td>69</td>
<td>16.6</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Corcoran-Patterson</td>
<td>68</td>
<td>16.1</td>
<td>64</td>
</tr>
<tr>
<td>Visalia-Porterville</td>
<td>Visalia-Church St</td>
<td>64</td>
<td>16.8</td>
<td>64</td>
</tr>
<tr>
<td>Bakersfield</td>
<td>Bakersfield-Golden / M St</td>
<td>61</td>
<td>16.6</td>
<td>61</td>
</tr>
<tr>
<td></td>
<td>Bakersfield-California</td>
<td>64</td>
<td>16.4</td>
<td>64</td>
</tr>
<tr>
<td></td>
<td>Bakersfield-Airport (Planz)</td>
<td>63</td>
<td>17.6</td>
<td>63</td>
</tr>
</tbody>
</table>

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

** Number of continuous monitors includes regulatory and non-regulatory monitors.

---

**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
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

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

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

<table>
<thead>
<tr>
<th>Site Name</th>
<th>FRM/FEM/Other</th>
<th>24-Hour NAAQS</th>
<th>Annual NAAQS</th>
<th>Valid PM2.5 Design Value?(^\text{a})</th>
<th>QA Collocated</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM10 (man.)</td>
<td>PM10 (cont.)</td>
<td>PM2.5 (man.)</td>
<td>PM2.5 (cont.)</td>
<td>PM10 (man.)</td>
</tr>
<tr>
<td>Stockton-Hazelton</td>
<td>FRM FEM</td>
<td>FEM</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>FEM Non-FEM</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Manteca</td>
<td>FEM</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>FEM</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td>FRM</td>
</tr>
<tr>
<td>Turlock</td>
<td>FRM FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Merced-M St</td>
<td>FRM</td>
<td>FEM (through 1/24/21) FEM (starting 1/1/2021)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Madera-City</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tranquillity</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>FRM FEM</td>
<td>Yes</td>
<td>Yes</td>
<td>FRM</td>
<td></td>
</tr>
<tr>
<td>Fresno-Pacific</td>
<td>FRM</td>
<td>FEM (through 1/24/21) FEM (starting 1/1/2021)</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>FRM</td>
<td>No</td>
<td>No</td>
<td>FRM</td>
<td></td>
</tr>
<tr>
<td>Fresno-Foundry</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Huron</td>
<td>Non-FEM</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hanford-Irwin</td>
<td>FRM FEM</td>
<td>FEM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Corcoran-Patterson</td>
<td>FEM FRM</td>
<td>Yes</td>
<td>Yes</td>
<td>FEM</td>
<td></td>
</tr>
<tr>
<td>Visalia-Church St</td>
<td>FEM</td>
<td>FRM (through 1/2/20) Non-FEM (through 12/8/20) FEM (starting 12/9/20)</td>
<td>No</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Porterville</td>
<td>Non-FEM</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oildale</td>
<td>FEM</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Golden / M St</td>
<td>FRM</td>
<td>FRM (through 12/31/20) FEM (starting 1/1/2021)</td>
<td>Yes</td>
<td>Yes</td>
<td>FRM</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>FRM</td>
<td>FRM Non-FEM</td>
<td>Yes</td>
<td>Yes</td>
<td>FRM</td>
</tr>
<tr>
<td>Bakersfield-Airport (Planz)</td>
<td>FRM</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lebec</td>
<td>Non-FEM</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Site Name</th>
<th>Monitor Type</th>
<th>QA Collocated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Hazelton</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>SPM</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Manteca</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Turlock</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Merced-M St</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Madera-City</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Tranquility</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Fresno-Pacific</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Fresno-Foundry</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Huron</td>
<td>SPM</td>
<td></td>
</tr>
<tr>
<td>Hanford-Irwin</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Corcoran-Patterson</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Visalia-Church St</td>
<td>SLAMS</td>
<td>OTHER</td>
</tr>
<tr>
<td>Porterville</td>
<td>SPM</td>
<td></td>
</tr>
<tr>
<td>Oildale</td>
<td>SLAMS</td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Golden / M St</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>SLAMS</td>
<td>OTHER</td>
</tr>
<tr>
<td>Bakersfield-Airport (Planz)</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Lebec</td>
<td>SPM</td>
<td></td>
</tr>
</tbody>
</table>

*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.
Table 22 QA Collocated Monitors

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Pollutant</th>
<th>Monitor Type</th>
<th>FRM/FEM/Other</th>
<th>Site Type</th>
<th>Spatial Scale</th>
<th>Basic Monitoring Objective</th>
<th>Sampling Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Hazelton</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FEM</td>
<td>GB, QA</td>
<td>N</td>
<td>TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Modesto-14th St</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FRM</td>
<td>PE, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:12</td>
</tr>
<tr>
<td>Madera-City</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FRM</td>
<td>HC, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:12</td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FRM</td>
<td>HC, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:3</td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>PM10</td>
<td>SLAMS</td>
<td>FRM</td>
<td>PE, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:6</td>
</tr>
<tr>
<td>Corcoran-Patterson</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FEM</td>
<td>HC, PE</td>
<td>N</td>
<td>NC, RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>PM2.5</td>
<td>SLAMS</td>
<td>FRM</td>
<td>HC, PE, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:12</td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>PM10</td>
<td>SLAMS</td>
<td>FRM</td>
<td>PE, QA</td>
<td>N</td>
<td>NC, RS</td>
<td>1:6</td>
</tr>
</tbody>
</table>


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.
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Monitor Type</th>
<th>FRM/FEM/Other</th>
<th>Site Type</th>
<th>Spatial Scale</th>
<th>Basic Monitoring Objective</th>
<th>Current Sampling Frequency</th>
<th>QA Collocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ozone</td>
<td>SLAMS</td>
<td>FEM</td>
<td>PE</td>
<td>U</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>NO2</td>
<td>SLAMS</td>
<td>FRM</td>
<td>Max PEI</td>
<td>U</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>SLAMS</td>
<td>FRM</td>
<td>PE</td>
<td>U</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>SO2</td>
<td>SLAMS</td>
<td>FEM</td>
<td>PE</td>
<td>U</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>NOy</td>
<td>SLAMS</td>
<td>Other</td>
<td>PE</td>
<td>U</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>Toxics</td>
<td>SLAMS</td>
<td>Other</td>
<td>PE</td>
<td>N</td>
<td>RS,TP</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>PM2.5 (man.)</td>
<td>SLAMS</td>
<td>FRM</td>
<td>HC,PE,QA</td>
<td>N</td>
<td>NC,RS</td>
<td>1:6</td>
<td>✓</td>
</tr>
<tr>
<td>PM2.5 (cont.)</td>
<td>SLAMS</td>
<td>FEM</td>
<td>HC,QA</td>
<td>N</td>
<td>NC,RS</td>
<td>Hourly</td>
<td>✓</td>
</tr>
<tr>
<td>PM2.5 Speciation (STN)</td>
<td>Other</td>
<td>Other</td>
<td>PE</td>
<td>N,U</td>
<td>RS</td>
<td>1:3</td>
<td></td>
</tr>
<tr>
<td>PM10 STP (cont.)</td>
<td>SLAMS</td>
<td>FEM</td>
<td>PE</td>
<td>N</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>PM10-2.5 (cont.)</td>
<td>SLAMS</td>
<td>FEM</td>
<td>PE,QA</td>
<td>N</td>
<td>NC,RS</td>
<td>Hourly</td>
<td></td>
</tr>
</tbody>
</table>


**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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Site Type</th>
<th>FRM/FEM/Other</th>
<th>Spatial Scale</th>
<th>Network affiliation</th>
<th>Basic Monitoring Objective</th>
<th>Current Sampling Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sequoia-Ash Mountain</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ozone</td>
<td>HC, RT</td>
<td>Other</td>
<td>R</td>
<td>CASTNET</td>
<td>NC, RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>PM2.5 (continuous)</td>
<td>HC</td>
<td>Non-FEM</td>
<td>R</td>
<td>None</td>
<td>RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Meteorology</td>
<td>GB</td>
<td>Other</td>
<td>R</td>
<td>CASTNET</td>
<td>RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td><strong>Sequoia-Lower Kaweah</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ozone</td>
<td>RT</td>
<td>Other</td>
<td>R</td>
<td>None</td>
<td>NC, RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Meteorology</td>
<td>GB</td>
<td>Other</td>
<td>R</td>
<td>None</td>
<td>RS, TP</td>
<td>Hourly</td>
</tr>
</tbody>
</table>

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>
<thead>
<tr>
<th>Site Name</th>
<th>Ozone</th>
<th>PM2.5 (man.)</th>
<th>PM2.5 (cont.)</th>
<th>PM10 (man.)</th>
<th>PM10 (cont.)</th>
<th>NO2</th>
<th>CO</th>
<th>NMH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockton-Hazelton</td>
<td>HC, PE</td>
<td>HC, PE</td>
<td>HC</td>
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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

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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

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Table 28  SLAMS – Basic Monitoring Objective (cont’d)

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<th>PM10 (man.)</th>
<th>PM10 (cont.)</th>
<th>NO2</th>
<th>CO</th>
<th>NMH</th>
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<tbody>
<tr>
<td>Edison</td>
<td>NC,R,S,TP</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NC, RS,TP</td>
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<tr>
<td>Arvin-Di Giorgio</td>
<td>NC,R,S,TP</td>
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<tr>
<td>Maricopa</td>
<td>NC,R,S,TP</td>
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</table>


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

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Site Type</th>
<th>Spatial Scale</th>
<th>Basic Monitoring Objective</th>
<th>Current Sampling Schedule</th>
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<tbody>
<tr>
<td>Oildale</td>
<td>Ozone</td>
<td>PM2.5 (man.)</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>(man.)</td>
<td>(cont.)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10 (man.)</td>
<td>1:6</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NO2</td>
<td>CO</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>NMH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Westwind</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>Hourly</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td>(starting 1/1/2021)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10 (man.)</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-California</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>1:1</td>
<td>1:6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(starting 1/1/2021)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>PM10 (man.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
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<tr>
<td>Bakersfield-Muni</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>1:3</td>
<td>1:6</td>
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<tr>
<td></td>
<td></td>
<td>(starting 1/1/2021)</td>
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<td></td>
<td></td>
<td>PM10 (man.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bakersfield-Airport (Planz)</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>1:3</td>
<td>1:6</td>
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<tr>
<td></td>
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<td>(starting 1/1/2021)</td>
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<tr>
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<td></td>
<td>PM10 (man.)</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Edison</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>Hourly</td>
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<tr>
<td></td>
<td></td>
<td>(cont.)</td>
<td></td>
<td></td>
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<tr>
<td>Maricopa</td>
<td>Hourly</td>
<td>PM2.5 (man.)</td>
<td>Hourly</td>
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<td></td>
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<td>(cont.)</td>
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<td></td>
<td>Man. – Manual</td>
<td>PM2.5 (cont.)</td>
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<td>(starting 1/1/2021)</td>
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<td></td>
<td>PM10 (man.)</td>
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<td></td>
<td></td>
<td>(cont.)</td>
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</table>

Current Sampling Frequency information for the QA Collocated sites is provided in Table 22.
Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23.

Table 30  SPM / Other (PM2.5 Continuous)

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Site Type</th>
<th>Spatial Scale</th>
<th>Basic Monitoring Objective</th>
<th>Current Sampling Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracy-Airport</td>
<td>RT</td>
<td>R</td>
<td>TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Huron</td>
<td>PE</td>
<td>N</td>
<td>TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Visalia-Church St</td>
<td>RT, PE</td>
<td>N</td>
<td>RS, TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Porterville</td>
<td>PE</td>
<td>N</td>
<td>TP</td>
<td>Hourly</td>
</tr>
<tr>
<td>Lebec</td>
<td>PE</td>
<td>N</td>
<td>TP</td>
<td>Hourly</td>
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</table>

Current Sampling Frequency information for the QA Collocated sites is provided in Table 22.
Current Sampling Frequency information for the Fresno-Garland NCore site is provided in Table 23.

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.
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>
<thead>
<tr>
<th>CBSA: Stockton</th>
<th>County: San Joaquin</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Operating Agency</td>
</tr>
<tr>
<td>Stockton-Hazelton</td>
<td>CARB</td>
</tr>
<tr>
<td>Tracy-Airport</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Manteca</td>
<td>SJVAPCD</td>
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<table>
<thead>
<tr>
<th>CBSA: Modesto</th>
<th>County: Stanislaus</th>
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</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Operating Agency</td>
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<tr>
<td>Modesto-14th St</td>
<td>CARB</td>
</tr>
<tr>
<td>Turlock</td>
<td>SJVAPCD</td>
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</table>

<table>
<thead>
<tr>
<th>CBSA: Merced</th>
<th>County: Merced</th>
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</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Operating Agency</td>
</tr>
<tr>
<td>Merced-M St</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Merced-Coffee</td>
<td>SJVAPCD</td>
</tr>
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<table>
<thead>
<tr>
<th>CBSA: Madera</th>
<th>County: Madera</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Operating Agency</td>
</tr>
<tr>
<td>Madera-City</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Madera-Pump Yard</td>
<td>SJVAPCD</td>
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<table>
<thead>
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<th>County: Fresno</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Name</td>
<td>Operating Agency</td>
</tr>
<tr>
<td>Tranquillity</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Sky Park</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Clovis-Villa</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Garland</td>
<td>CARB</td>
</tr>
<tr>
<td>Fresno-Pacific</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Drummond</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Fresno-Foundry (near-road)</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Parlier</td>
<td>SJVAPCD</td>
</tr>
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<th>CBSA: Kings</th>
<th>County: Kings</th>
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<td>Hanford-Irwin</td>
<td>SJVAPCD</td>
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<tr>
<td>Corcoran-Patterson</td>
<td>SJVAPCD</td>
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Table 31  Summary of Proposed Changes to the Air Monitoring Network (cont’d)

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<td>Site Name</td>
<td>Operating Agency</td>
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<td>Visalia-Church St</td>
<td>CARB</td>
</tr>
<tr>
<td>Porterville</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Sequoia-Ash Mountain</td>
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<td>Sequoia-Lower Kaweah</td>
<td>NPS</td>
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CBSA: Bakersfield  County: Kern (Valley Portion Only)

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<th>Operating Agency</th>
<th>Planned Changes</th>
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<td>Shafter</td>
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<td>Oildale</td>
<td>CARB</td>
<td>None</td>
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<td>Bakersfield-Golden State/M St</td>
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<td>Converting filter-based PM equipment to real-time instruments</td>
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<td>Bakersfield-Westwind (near-road)</td>
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<td>None</td>
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<tr>
<td>Bakersfield-California</td>
<td>CARB</td>
<td>None</td>
</tr>
<tr>
<td>Bakersfield-Muni</td>
<td>SJVAPCD</td>
<td>None</td>
</tr>
<tr>
<td>Bakersfield-Airport (Planz)</td>
<td>CARB</td>
<td>CARB plans are to acquire a platform to raise the sampler off of the tarmac.</td>
</tr>
<tr>
<td>Edison</td>
<td>CARB</td>
<td>None</td>
</tr>
<tr>
<td>Arvin-Di Giorgio</td>
<td>CARB</td>
<td>CARB plans are to install a new, permanent monitoring shelter within the next 18 months.</td>
</tr>
<tr>
<td>Maricopa</td>
<td>SJVAPCD</td>
<td>None</td>
</tr>
<tr>
<td>Lebec</td>
<td>SJVAPCD</td>
<td>None</td>
</tr>
</tbody>
</table>

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 [http://www.arb.ca.gov/aqd/amnr/amnr.htm](http://www.arb.ca.gov/aqd/amnr/amnr.htm). The District is responsible for certifying data from all District-operated air monitoring sites. The District certified its 2020 data on May 1, 2021.
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQI</td>
<td>Air Quality Index</td>
</tr>
<tr>
<td>AQS</td>
<td>Air Quality System</td>
</tr>
<tr>
<td>BAM</td>
<td>Beta Attenuation Monitor</td>
</tr>
<tr>
<td>CAA</td>
<td>Clean Air Act</td>
</tr>
<tr>
<td>CASTNET</td>
<td>Clean Air Status and Trends Network</td>
</tr>
<tr>
<td>CARB</td>
<td>California Air Resources Board</td>
</tr>
<tr>
<td>CBSA</td>
<td>Core-Based Statistical Area</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CRPAQS</td>
<td>California Regional Particulate Air Quality Study</td>
</tr>
<tr>
<td>CO</td>
<td>Carbon Monoxide</td>
</tr>
<tr>
<td>CSA</td>
<td>Combined statistical area</td>
</tr>
<tr>
<td>District</td>
<td>San Joaquin Valley Air Pollution Control District</td>
</tr>
<tr>
<td>BAM</td>
<td>Beta Attenuation Monitor</td>
</tr>
<tr>
<td>EPA</td>
<td>U.S. Environmental Protection Agency</td>
</tr>
<tr>
<td>FEM</td>
<td>Federal Equivalent Method</td>
</tr>
<tr>
<td>FRM</td>
<td>Federal Reference Method</td>
</tr>
<tr>
<td>LAP</td>
<td>Lower Air Profiler</td>
</tr>
<tr>
<td>MSA</td>
<td>Metropolitan statistical area</td>
</tr>
<tr>
<td>NAAQS</td>
<td>National Ambient Air Quality Standard</td>
</tr>
<tr>
<td>NCore</td>
<td>National Core</td>
</tr>
<tr>
<td>NMH</td>
<td>Non-Methane Hydrocarbons</td>
</tr>
<tr>
<td>NO</td>
<td>Nitrogen Oxide</td>
</tr>
<tr>
<td>NO2</td>
<td>Nitrogen Dioxide</td>
</tr>
<tr>
<td>NOx</td>
<td>Oxides of Nitrogen</td>
</tr>
<tr>
<td>NOy</td>
<td>Reactive Nitrogen</td>
</tr>
<tr>
<td>NPS</td>
<td>National Park Service</td>
</tr>
<tr>
<td>O3</td>
<td>Ozone</td>
</tr>
<tr>
<td>PAMS</td>
<td>Photochemical Assessment Monitoring Station</td>
</tr>
<tr>
<td>PM</td>
<td>Particulate Matter</td>
</tr>
<tr>
<td>PM2.5</td>
<td>Particulate Matter 2.5 microns or less in diameter</td>
</tr>
<tr>
<td>PM10</td>
<td>Particulate Matter 10 microns or less in diameter</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SLAMS</td>
<td>State and Local Air Monitoring Station</td>
</tr>
<tr>
<td>SJVAPCD</td>
<td>San Joaquin Valley Air Pollution Control District</td>
</tr>
<tr>
<td>SMS</td>
<td>Smoke Management System</td>
</tr>
<tr>
<td>SO2</td>
<td>Sulfur Dioxide</td>
</tr>
<tr>
<td>SPM</td>
<td>Special Purpose Monitor</td>
</tr>
<tr>
<td>STN</td>
<td>Speciated Trends Network</td>
</tr>
<tr>
<td>TEOM</td>
<td>Tapered Element Oscillating Microbalance</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compounds</td>
</tr>
</tbody>
</table>
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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.

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

*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.

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

*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.

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

*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-14th 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.

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

* Traffic count for nearest roads: H Street / CA Route 99. Source: Caltrans 2019 AADT
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.

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

* 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.

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

*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.

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

*Traffic count for nearest roads: Childs Ave / CA Route 99. Source: Caltrans 2019 AADT.
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.

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

*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.

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

*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.

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

* 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.

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

*Raw traffic count in a 24-hour period for nearest roads: Spruce Ave east of Milburn Ave
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.

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

*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.

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

*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.

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

*Raw traffic count in a 24-hour period for nearest roads: Butler Ave/Winery Ave intersection
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 NO2 concentrations near a high traffic roadway in an urban area. In addition to NO2, the site also monitors PM2.5, CO, and meteorology.

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

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.

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

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 |

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.

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

*Traffic count for nearest roads: CA Route 269 / CA Route 198. Source: Caltrans 2019
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.

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

*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.

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

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.

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

*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.

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

*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.

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

*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 31st to October 31st each year. The purpose of the site is to demonstrate the ozone concentrations in a rural area.

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

*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.

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

*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.

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

*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.

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

*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\textsubscript{2} concentrations near a high traffic roadway in an urban area. In addition to NO\textsubscript{2}, the site also monitors meteorology.

<table>
<thead>
<tr>
<th>Site name:</th>
<th>Bakersfield-Westwind</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQS ID:</td>
<td>06-029-2019</td>
</tr>
<tr>
<td>County:</td>
<td>Kern</td>
</tr>
<tr>
<td>Street Address:</td>
<td>2001 Westwind Drive, Bakersfield, CA 93301</td>
</tr>
<tr>
<td>Geographic Coordinates:</td>
<td>35.37695278N, -119.04388889W</td>
</tr>
<tr>
<td>Distance to road (meters):</td>
<td>16 to 19 meters</td>
</tr>
<tr>
<td>Traffic Count (AADT; Year):</td>
<td>125,000; 2019*</td>
</tr>
<tr>
<td>Ground Cover:</td>
<td>Paved</td>
</tr>
</tbody>
</table>

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

** 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.

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

*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.

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

*Traffic count for monitoring station’s street address: S Union Ave between E Casa Loma Dr and Watts Dr
Source: Kern Council of Governments

**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.

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

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

**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.

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

*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.

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

*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.

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

*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.

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

*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.

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

*Traffic count for nearest roads: CA Route 41 and Friant Rd. Source: Caltrans 2019

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*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.

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

*Traffic count for nearest roads: Jackson Ave and 16th Ave
Source: 2014 Kings County Regional Transportation Plan – Kings County Association of Governments
Appendix B:

Detailed Site Information
List of Abbreviations

<table>
<thead>
<tr>
<th>Site Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE</td>
</tr>
<tr>
<td>HC</td>
</tr>
<tr>
<td>Max PEI</td>
</tr>
<tr>
<td>RT</td>
</tr>
<tr>
<td>GB</td>
</tr>
<tr>
<td>SO</td>
</tr>
<tr>
<td>QA</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spatial Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
</tr>
<tr>
<td>U</td>
</tr>
<tr>
<td>R</td>
</tr>
<tr>
<td>MC</td>
</tr>
<tr>
<td>MD</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Basic Monitoring Objective</th>
</tr>
</thead>
<tbody>
<tr>
<td>NC</td>
</tr>
<tr>
<td>RS</td>
</tr>
<tr>
<td>TP</td>
</tr>
</tbody>
</table>

| 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.
<table>
<thead>
<tr>
<th>Site Name</th>
<th>Stockton–Hazelton</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-077-1002</td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Stockton-Lodi</td>
</tr>
<tr>
<td>County</td>
<td>San Joaquin</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>CARB</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>1/1/1976</td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM10 FRM, PM2.5 FEM, CO, NO₂, Toxics</td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Outdoor temperature, Wind direction, Wind speed, Relative humidity</td>
</tr>
<tr>
<td>Address</td>
<td>1601 E. Hazelton St., Stockton CA 95205</td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>37.9507 N, -121.2689 W</td>
</tr>
<tr>
<td>Distance to roadways</td>
<td>62 m (north)</td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>4,600/2019 (Traffic count estimated by City of Stockton Public Works Traffic Engineering Division)</td>
</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Paved</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>HC, PE</td>
</tr>
<tr>
<td>Monitoring objective</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other</td>
<td>N/A</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM&lt;sub&gt;2.5&lt;/sub&gt;? (Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne API 400</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/1976</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD-MM/DD)</td>
<td>01/01 - 12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>5.7 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.0 m</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>---------</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>4.1</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Nightly</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>9/3/20</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Yes. Site demolition planned summer 2020. Site re-negotiation underway.</td>
</tr>
<tr>
<td>Site Name</td>
<td>Tracy - Airport</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-077-3005</td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Stockton-Lodi</td>
</tr>
<tr>
<td>County</td>
<td>San Joaquin</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>01/01/2006</td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM10 FEM, PM2.5 Non-FEM, NO2</td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
</tr>
<tr>
<td>Address</td>
<td>5749 S. Tracy Blvd., Tracy, CA 95376</td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>37.6826 N, -121.4423 W</td>
</tr>
<tr>
<td>Distance to roadways (meters)</td>
<td>700m (east)</td>
</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Dirt and Gravel</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>R</td>
</tr>
<tr>
<td>Site type</td>
<td>RT</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>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 &quot;N/A&quot;).</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne T400</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/2006</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5.9 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.1 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>9.97</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>9/10/2020</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
</tr>
<tr>
<td>Site Name</td>
<td>Manteca</td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
</tr>
<tr>
<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
<td>06-077-2010</td>
</tr>
<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Stockton-Lodi</td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>San Joaquin</td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>SJVAPCD</td>
</tr>
<tr>
<td><strong>Site Start Date</strong></td>
<td>11/16/2010</td>
</tr>
<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>PM2.5 FEM; PM10 FEM</td>
</tr>
<tr>
<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>530 Fishback Rd., Manteca, CA 95337</td>
</tr>
<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>37.7933 N, -121.2477 W</td>
</tr>
<tr>
<td><strong>Distance to roadways (meters)</strong></td>
<td>12 m (west)</td>
</tr>
<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Paved, vegetative</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>88101</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>HC</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>3</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM&lt;sub&gt;2.5&lt;/sub&gt;, PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;10-2.5&lt;/sub&gt;, Pb and NO&lt;sub&gt;2&lt;/sub&gt; monitors. Non-PM, Pb, NO&lt;sub&gt;2&lt;/sub&gt; monitors should be listed as &quot;N/A&quot;).</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM&lt;sub&gt;2.5&lt;/sub&gt;? (Y/N)</td>
<td>Yes</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>METOne BAM 1020</td>
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<tr>
<td>Analysis method</td>
<td>Beta Attenuation</td>
</tr>
<tr>
<td>Method code</td>
<td>170</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 - 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>3.7 m</td>
</tr>
<tr>
<td>Distance from supporting structure (meters)</td>
<td>1.9 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>55 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>Biweekly</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
</tr>
<tr>
<td><strong>Site Name</strong></td>
<td>Modesto –14th St</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>----------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-099-0005</td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Modesto</td>
</tr>
<tr>
<td>County</td>
<td>Stanislaus</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>CARB</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>01/01/81</td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, CO, PM2.5 Speciation (CSN Supplemental)</td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity</td>
</tr>
<tr>
<td>Address</td>
<td>814 14th Street, Modesto CA 95354</td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>37.6421 N, -120.9942 W</td>
</tr>
<tr>
<td>Distance to road</td>
<td>50 m (southwest)</td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>131,800 / 2019 (Traffic count for nearest roads: H Street / Rte 99, Source: Caltrans 2019 AADDT)</td>
</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Paved</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>HC, PE</td>
</tr>
<tr>
<td>Monitoring objective</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation</td>
<td>None</td>
</tr>
<tr>
<td>POC</td>
<td>FEM</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other</td>
<td>N/A</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM2.5? (Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne API 400</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>1/1/1981</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 - 12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>7.9 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>4.8 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
</tr>
<tr>
<td>Parameter</td>
<td>Pollutant</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-----------</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>7.6</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Nightly</td>
</tr>
<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>9/2/20</td>
</tr>
<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>88101</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>PE, QA</td>
</tr>
<tr>
<td>Monitoring objective(s)</td>
<td>NC, RS</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FRM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other</td>
<td>QA Collocation</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>Y</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Thermo 2000i</td>
</tr>
<tr>
<td>Analysis method</td>
<td>Gravimetric</td>
</tr>
<tr>
<td>Method code</td>
<td>143</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/03/95</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:12</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 - 12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>6.1</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.8</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>2.0</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>Monthly</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>N/A</td>
</tr>
<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>N/A</td>
</tr>
<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>9/2/20, 11/3/20</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Analyzer was removed on 12/7/2020</td>
</tr>
<tr>
<td>Site Name</td>
<td>Turlock</td>
</tr>
<tr>
<td>--------------</td>
<td>---------</td>
</tr>
<tr>
<td>AQS ID</td>
<td>06-099-0006</td>
</tr>
<tr>
<td>Statistical area Name</td>
<td>Modesto</td>
</tr>
<tr>
<td>County</td>
<td>Stanislaus</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Analytical Lab</td>
<td>CARB</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>SJVAPD: Ozone, PM2.5 FEM, NO2, Meteorology, CARB: PM10 FRM</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>4/1/1992</td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM10 FRM, PM2.5 FEM, NO2</td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
</tr>
<tr>
<td>Address</td>
<td>900 S. Minaret Ave., Turlock, CA 95380</td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>37.4880 N, -120.8360 W</td>
</tr>
<tr>
<td>Distance to roadways (meters)</td>
<td>40m (northeast)</td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>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)</td>
</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Gravel</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>HC, PE</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>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 &quot;N/A&quot;).</td>
<td>N/A</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>04/01/2000</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 - 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5.6 m</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>21.34 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>12.04</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hiVol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>9/1/2020</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
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### Site Name: Merced-M St

<table>
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<tr>
<th><strong>AQS ID (XX-XXX-XXXX)</strong></th>
<th>06-047-2510</th>
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<tbody>
<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Merced</td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>Merced</td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>CARB: PM10 FRM and PM2.5 FRM</td>
</tr>
<tr>
<td><strong>Site Start Date</strong></td>
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<tr>
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<tr>
<td><strong>Meteorological Parameters</strong></td>
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<td><strong>Address</strong></td>
<td>2334 M Street, Merced, CA 95340</td>
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<td><strong>GPS Coordinates (decimal degrees)</strong></td>
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<td><strong>Distance to roadways (meters)</strong></td>
<td>55 m (northwest)</td>
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<td>51,000/2019 (Traffic count for nearest roads: R Street/Rte 99, Source: Caltrans 2019 AADT)</td>
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<tr>
<td>Basic monitoring objective(s)</td>
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<td>Sampling season (MM/DD - MM/DD)</td>
<td>1/1 – 12/31</td>
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<td>Probe height (meters)</td>
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<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
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<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------------</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance +</td>
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<tr>
<td>vertical height above probe for obstructions nearby. (meters)</td>
<td></td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>14.7 m</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
<td>44.3 m</td>
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<td>Unrestricted airflow (degrees around probe/inlet or percentage of</td>
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<tr>
<td>monitoring path)</td>
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<tr>
<td>Probe material for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$;</td>
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<tr>
<td>PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
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<td>Residence time for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$;</td>
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<td>PAMS: VOCs, Carbonyls (seconds)</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers,</td>
<td>Bi-weekly</td>
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<tr>
<td>including Pb samplers (routine checks)</td>
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<td>Frequency of flow rate verification for automated PM analyzers (routine</td>
<td>N/A</td>
</tr>
<tr>
<td>checks)</td>
<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any</td>
<td>No</td>
</tr>
<tr>
<td>PM instrument within 1 m of the lovol? If yes, please list distance</td>
<td></td>
</tr>
<tr>
<td>(meters) and instrument(s).</td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hi-vol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
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<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>9/1/2020, 11/4/2020</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Y Shutdown on 12/31/2020</td>
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<tr>
<td><strong>Site Name</strong></td>
<td><strong>Merced-Coffee</strong></td>
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<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Merced</td>
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<td><strong>County</strong></td>
<td>Merced</td>
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<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
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</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
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<tr>
<td><strong>Reporting Agency</strong></td>
<td>SJVAPCD</td>
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<td><strong>Site Start Date</strong></td>
<td>10/1/1991</td>
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<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>Ozone, PM2.5 FEM, NO2</td>
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<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature</td>
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<td><strong>Address</strong></td>
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<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>37.2816 N, -120.4340 W</td>
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<td><strong>Distance to roadways (meters)</strong></td>
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<td><strong>Traffic Count/Year</strong></td>
<td>42,500/2019 (Traffic count for nearest roads: Childs Avenue/Rte 99, Source: Caltrans 2019 AADT)</td>
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<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
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<td>Parameter code</td>
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<td>Spatial scale</td>
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<td>Site type</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
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<tr>
<td>FRM/FEM/ARM/Other</td>
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<td>POC</td>
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</tr>
<tr>
<td>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”.)</td>
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<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
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<td>Instrument manufacturer and model</td>
<td>Teledyne T400</td>
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<tr>
<td>Analysis method</td>
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<tr>
<td>Method code</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
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</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5.4 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.9 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-----------</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>13.5 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
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<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
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<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
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<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
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<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>9/1/2020</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
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<tr>
<td>Site Name</td>
<td>Madera-City</td>
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<tr>
<td>----------------------</td>
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<td>AQS ID (XX-XXX-XXXX)</td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Madera</td>
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<td>County</td>
<td>Madera</td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB: PM2.5 FRM</td>
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<td>Reporting Agency</td>
<td>SJVAPCD</td>
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<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation.</td>
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<td>Address</td>
<td>28261 Avenue 14, Madera, CA 93638</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>36.9532 N, -120.0342 W</td>
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<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
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## Madera-City

<table>
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<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>PM2.5</th>
<th>PM2.5</th>
<th>PM10 LC</th>
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<td>HC, QA</td>
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<td>GB</td>
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<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
<td>NC, RS, TP</td>
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<td>SLAMS</td>
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<td>Other</td>
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<td>None</td>
<td>None</td>
<td>None</td>
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<td>3</td>
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<td>Primary</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
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<td>N/A</td>
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<td>Y</td>
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<td>TAPI T265</td>
<td>Thermo Partisol 2025i</td>
<td>METOne BAM 1020</td>
<td>METOne BAM 1020</td>
<td>METOne BAM 1020</td>
<td>ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP- Met One 092, WD-Met One 020C, WS-Met One 010C</td>
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<td>Analysis method</td>
<td>Chem</td>
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<td>Beta Attenuation</td>
<td>Beta Attenuation</td>
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<td>12/01/2020</td>
<td>02/17/2014</td>
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<td>09/20/2019</td>
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<td>1:12</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
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<td>01/01 – 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 – 12/31</td>
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<tr>
<td>Probe height (meters)</td>
<td>5.1 m</td>
<td>5.1 m</td>
<td>3.7 m</td>
<td>3.6 m</td>
<td>3.6 m</td>
<td>10 m</td>
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<td>Ozone</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM10 LC</td>
<td>PM10 STP</td>
<td>Meteorology</td>
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<td>-------</td>
<td>-------</td>
<td>---------</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2 m</td>
<td>2.1 m</td>
<td>1.9 m</td>
<td>1.8 m</td>
<td>1.8 m</td>
<td>7 m</td>
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<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Distance from the drip line of closest tree(s)</td>
<td>16.0 m</td>
<td>16.5 m</td>
<td>18.1 m</td>
<td>16.2 m</td>
<td>16.2 m</td>
<td>14.5 m</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
<td>53m</td>
<td>53m</td>
<td>53 m</td>
<td>53 m</td>
<td>53 m</td>
<td>N/A</td>
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<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
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<td>Probe material for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
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<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
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<td>Monthly</td>
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<td>N/A</td>
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<td>Bi-Weekly</td>
<td>Bi-Weekly</td>
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<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>PM2.5</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>10/8/2020</td>
<td>N/A</td>
<td>N/A</td>
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<td>Changes planned within the next 18 months (Y/N)</td>
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<td>Site Name</td>
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<td></td>
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<td>County</td>
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<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>Varies based on which laboratory is contracted with the SJVAPCD.</td>
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<td>SJVAPCD</td>
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<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation</td>
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<td>Distance to roadways (meters)</td>
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<td>Traffic Count/Year</td>
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<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
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## Madera-Pump Yard

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<th>Speciated VOC</th>
<th>NMH</th>
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<td>GB</td>
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<td>NC, RS, TP</td>
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<td>SLAMS</td>
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<td>PAMS</td>
<td>PAMS</td>
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<td>POC</td>
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<td>1</td>
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<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>07/01/1997</td>
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<td>07/01/1997</td>
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<td>Hourly</td>
<td>1:3</td>
<td>Hourly</td>
<td>Hourly</td>
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<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>06/01 – 8/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe height (meters)</td>
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<td>5.8 m</td>
<td>5.8 m</td>
<td>5.8 m</td>
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<td>2 m</td>
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<td>-------</td>
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<td>-----</td>
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</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>Horiz. 20 m, Vert 0 m above</td>
<td>Horiz. 20 m, Vert 0 m above</td>
<td>Horiz. 20 m, Vert 0 m above</td>
<td>Horiz. 20 m, Vert 0 m above</td>
<td>Horiz. 20 m, Vert 0 m above</td>
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<td>Distance from the drip line of closest tree(s)</td>
<td>40.5 m</td>
<td>40.5 m</td>
<td>40.5 m</td>
<td>40.5 m</td>
<td>40.5 m</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>N/A</td>
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<td>Residence time for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
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<td>13.74</td>
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<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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Appendix B: Detailed Air Monitoring Site Information
2021 Air Monitoring Network Plan
<table>
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<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>NO₂</th>
<th>Speciated VOC</th>
<th>NMH</th>
<th>Meteorology</th>
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<tbody>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<td>9/9/2020</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
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<tr>
<td>Site Name</td>
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<td>County</td>
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<td>SJVAPCD</td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
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<td>Site Start Date</td>
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<td>Meteorological Parameters</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>36.634225 N, -120.382331 W</td>
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<td>Distance to roadways (meters)</td>
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<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
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## Tranquility

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<td>Site type</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>TP</td>
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<td>Monitor type</td>
<td>SLAMS</td>
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<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
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<td>None</td>
<td>None</td>
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<td>FRM/FEM/ARM/Other</td>
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<td>Other</td>
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<td>MET One BAM 1020</td>
<td>ITP- Hy-Cal 512AA3B, OT- Met One 060A-2, BP-Met One 092, WD- Met One 020C, WS-Met One 010C</td>
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<td>Hourly</td>
<td>Hourly</td>
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<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>4.6 m</td>
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<td>1.8 m</td>
<td>2.1 m</td>
<td>10.6 m</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
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<td>82.8 m</td>
<td>76.8 m</td>
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<tr>
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<td>63.7 m</td>
<td>66.1 m</td>
<td>63.7 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>PM2.5</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------</td>
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</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>359</td>
<td>359</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
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<tr>
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<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
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<td>N/A</td>
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<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>N/A</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>N/A</td>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>10/7/2020</td>
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<td>10/7/2020, 11/18/2020</td>
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<td>Changes planned within the next 18 months (Y/N)</td>
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<td>N</td>
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<tr>
<td>Site Name</td>
<td>Fresno-Sierra Sky Park</td>
<td></td>
<td></td>
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<td>County</td>
<td>Fresno</td>
<td></td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
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<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
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<td>Reporting Agency</td>
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<td>Pollutant Parameters</td>
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<tr>
<td>Meteorological Parameters</td>
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<tr>
<td>Address</td>
<td>4508 Chenault Ave., Fresno, CA 93722</td>
<td></td>
<td></td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>36.8405 N, -119.8740 W</td>
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<td>Distance to roadways (meters)</td>
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<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
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## Fresno-Sierra Sky Park

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<tr>
<th>Pollutant</th>
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<th>NO$_2$</th>
<th>Meteorology</th>
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<td>Parameter code</td>
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<td>42602</td>
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<tr>
<td>Site type</td>
<td>HC, PE, RT</td>
<td>PE</td>
<td>GB</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
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<td>FEM</td>
<td>Other</td>
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<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as &quot;N/A&quot;).</td>
<td>N/A</td>
<td>N/A</td>
<td>Other</td>
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<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Analysis method</td>
<td>Chem.</td>
<td>CL</td>
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<td>Method code</td>
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<td>07/01/1986</td>
<td>07/01/1986</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5.5 m</td>
<td>5.5 m</td>
<td>5.6 m</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.3 m</td>
<td>2.3 m</td>
<td>2.3 m</td>
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<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>2.2 m</td>
<td>2.2 m</td>
<td>1.2 m</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>280</td>
<td>280</td>
<td>280</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>12.93</td>
<td>12.08</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>7/23/2020</td>
<td>7/23/2020</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
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</tbody>
</table>
## Site Information

<table>
<thead>
<tr>
<th><strong>Site name</strong></th>
<th><strong>Clovis-Villa</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
<td>06-019-5001</td>
</tr>
<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Fresno</td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>Fresno</td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC</td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>SJVAPCD: PM2.5 FRM, PM2.5 FEM, PM10 FRM, PM10 FEM, Ozone, CO, NO₂, NMH, Speciated VOC, Meteorology</td>
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<tr>
<td><strong>Site Start Date</strong></td>
<td>09/01/1990</td>
</tr>
<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>Ozone, PM10 FRM, PM10 FEM, PM2.5 FEM, PM2.5 FRM, CO, NO₂, NMH, Speciated VOC</td>
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<tr>
<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>908 N. Villa Ave., Clovis CA 93612</td>
</tr>
<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>36.8194 N, -119.7160 W</td>
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<tr>
<td><strong>Distance to roadways (meters)</strong></td>
<td>260 m (east)</td>
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<tr>
<td><strong>Traffic Count/Year</strong></td>
<td>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))</td>
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<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Paved</td>
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## Clovis-Villa (1)

<table>
<thead>
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<th>Pollutant</th>
<th>Ozone</th>
<th>PM2.5</th>
<th>PM2.5</th>
<th>PM10</th>
<th>PM10 LC</th>
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<td>Site type</td>
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<td>HC</td>
<td>HC</td>
<td>PE</td>
<td>HC</td>
<td>HC</td>
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<td>NC, RS</td>
<td>NC, RS, TP</td>
<td>NC, RS</td>
<td>RS, TP</td>
<td>NC, RS, TP</td>
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<td>SLAMS</td>
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<td>None</td>
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<td>QA Collocated</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
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<td>Teledyne API T265</td>
<td>Thermo Partisol 2025i</td>
<td>1020</td>
<td>Ecotech HiVol 3000</td>
<td>METOne BAM 1020</td>
<td>METOne BAM 1020</td>
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<td>Beta Attenuation</td>
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<td>Hourly</td>
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<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
<td>01/01 - 12/31</td>
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<td>Probe height (meters)</td>
<td>5.7 m</td>
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<td>5.5 m</td>
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<td>PM2.5</td>
<td>PM2.5</td>
<td>PM10</td>
<td>PM10 LC</td>
<td>PM10 STP</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>15 m</td>
<td>37.5 m</td>
<td>17.5 m</td>
<td>15 m</td>
<td>17.5 m</td>
<td>17.5 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
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<td>2.5</td>
<td>2.0 m</td>
<td>N/A</td>
<td>2.1 m</td>
<td>2.1 m</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>355</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NOy, SO2, O3; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
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<td>111.92</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM10</td>
<td>PM10 LC</td>
<td>PM10 STP</td>
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<td>-------</td>
<td>-------</td>
<td>------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the highvol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>Monthly</td>
<td>N/A</td>
<td>Monthly</td>
<td>N/A</td>
<td>N/A</td>
</tr>
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<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>Bi-weekly</td>
<td>N/A</td>
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<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>7/21/2020</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>Removed 12/31/2020</td>
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### Clovis-Villa (2)

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<th>Pollutant</th>
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<th>Speciated VOC</th>
<th>NMH</th>
<th>Meteorology</th>
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<td>R</td>
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<td>Max PEI, PE</td>
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<td>PE</td>
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<td>Other</td>
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<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS</td>
<td>RS</td>
<td>RS, TP</td>
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<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
<td>Other</td>
<td>Other</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>PAMS</td>
<td>PAMS</td>
<td>PAMS</td>
<td>PAMS</td>
<td>PAMS</td>
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<tr>
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<td>1</td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”.)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>Other</td>
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<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Chem.</td>
<td>GC / UV Absorption</td>
<td>Flame Ionization</td>
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<td>177 / 202</td>
<td>011</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/1990</td>
<td>01/01/2016</td>
<td>01/01/1990</td>
<td>01/01/1990</td>
<td>01/01/1990</td>
</tr>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
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<td>Hourly</td>
<td>1:3</td>
<td>Hourly</td>
<td>Hourly</td>
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<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>06/01 – 08/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe height (meters)</td>
<td>5.66 m</td>
<td>5.66 m</td>
<td>5.66 m</td>
<td>5.66 m</td>
<td>10 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.85 m</td>
<td>1.85 m</td>
<td>1.85 m</td>
<td>1.85 m</td>
<td>7.5 m</td>
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<td>Pollutant</td>
<td>CO</td>
<td>NO\textsubscript{2}</td>
<td>Speciated VOC</td>
<td>NMH</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------</td>
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<td>-----------------</td>
<td>----------------</td>
<td>-----</td>
<td>-------------</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>29.5 m</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>15 m</td>
<td>15 m</td>
<td>15 m</td>
<td>15 m</td>
<td>25.5 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>16.0 m</td>
<td>16.0 m</td>
<td>13.5 m</td>
<td>16.0 m</td>
<td>N/A</td>
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<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Stainless steel</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
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<tr>
<td>Residence time for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (seconds)</td>
<td>13.08</td>
<td>12.0</td>
<td>5.0</td>
<td>9.36</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
<td>Daily</td>
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### Pollutant Performance Evaluation

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<tr>
<th>Pollutant</th>
<th>CO</th>
<th>NO₂</th>
<th>Speciated VOC</th>
<th>NMH</th>
<th>Meteorology</th>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>03/14/2019</td>
<td>03/14/2019</td>
<td>N/A</td>
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<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
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<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
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<td>N</td>
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<tr>
<td>Site Name</td>
<td>Fresno-Garland</td>
<td></td>
<td></td>
<td></td>
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<td>---------------------------</td>
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<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-019-0011</td>
<td></td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Fresno</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>County</td>
<td>Fresno</td>
<td></td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
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<tr>
<td>Reporting Agency</td>
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<tr>
<td>Site Start Date</td>
<td>12/31/2011</td>
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**Pollutant Parameters**

Ozone, PM10 STP FEM, PM2.5 FEM, PM2.5 FRM, PM2.5 Speciation (STN), CO, NO₂, NOy, SO₂, Toxics

PM10-2.5: (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
<table>
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<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>CO</th>
<th>NO₂</th>
<th>SO₂</th>
<th>NOy</th>
<th>Toxics</th>
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<td>42101</td>
<td>42602</td>
<td>42401</td>
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<td>U</td>
<td>U</td>
<td>U</td>
<td>U</td>
<td>U</td>
<td>N</td>
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<tr>
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<td>PE</td>
<td>Max PEI</td>
<td>PE</td>
<td>PE</td>
<td>PE</td>
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<td>Basic monitoring objective(s)</td>
<td>NC, RS</td>
<td>NC, RS</td>
<td>NC, RS</td>
<td>NC, RS</td>
<td>NC, RS</td>
<td>RS, TP</td>
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<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
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<td>Network affiliation</td>
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<td>NCore</td>
<td>NCore</td>
<td>NCore</td>
<td>NCore</td>
<td>NCore</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FRM</td>
<td>FRM</td>
<td>FEM</td>
<td>Other</td>
<td>Other</td>
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<tr>
<td>POC</td>
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<td>3</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>Many</td>
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<td>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 &quot;N/A&quot;).</td>
<td>Primary</td>
<td>Primary</td>
<td>Primary</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
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<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
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<td>API 300 EU</td>
<td>API 200E</td>
<td>Thermo 43</td>
<td>Instrumental</td>
<td>Xontech 924</td>
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<td>UV</td>
<td>UV</td>
<td>Chem. Teledyne API 200EU/501</td>
<td>Many</td>
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<td>009</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<tr>
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<td>7.0</td>
<td>7.0</td>
<td>7.0</td>
<td>6.2</td>
<td>5.8</td>
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<td>None</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>None</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Pollutant</td>
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<td>CO</td>
<td>NO2</td>
<td>SO2</td>
<td>NOy</td>
<td>Toxics</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>-------</td>
<td>-----</td>
<td>-----</td>
<td>------</td>
<td>-----</td>
<td>--------</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
<td>Teflon</td>
<td>Teflon</td>
<td>Teflon</td>
<td>Teflon</td>
<td>Teflon</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>8.6</td>
<td>7.1</td>
<td>6.7</td>
<td>7.2</td>
<td>&lt; 20 seconds</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check (gaseous)</td>
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<td>Nightly</td>
<td>Nightly</td>
<td>Nightly</td>
<td>Nightly</td>
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<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>7/22/20</td>
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<td>not audited in 2020</td>
<td>not audited in 2020</td>
<td>not audited by CARB-QAS</td>
<td>non-operational in 2020; not audited</td>
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<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
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## Fresno-Garland (2)

<table>
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<tr>
<th>Pollutant</th>
<th>PM2.5</th>
<th>PM2.5</th>
<th>PM10 STP / PM10 LC</th>
<th>PM2.5</th>
<th>PM10-2.5</th>
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<tr>
<td>Parameter code</td>
<td>88101</td>
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<td>81102 / 85101</td>
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<td>Spatial scale</td>
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<tr>
<td>Site type</td>
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<td>PE</td>
<td>HC, QA</td>
<td>PE, QA</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS</td>
<td>NC, RS</td>
<td>NC, RS, TP / RS, TP</td>
<td>NC, RS</td>
<td>NC, RS</td>
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<tr>
<td>Monitor type</td>
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<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
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<td>FRM/FEM/ARM/Other</td>
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<td>FRM</td>
<td>FEM</td>
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<td>2</td>
<td>3 / 4</td>
<td>3 / 4</td>
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<tr>
<td>Primary / QA Collocated / Other</td>
<td>Primary</td>
<td>QA Collocated</td>
<td>Primary</td>
<td>QA Collocated</td>
<td>QA Collocated, serving as Primary</td>
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<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>Y</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
<td>N/A</td>
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<td>Instrument manufacturer and model</td>
<td>R&amp;P 2025</td>
<td>R&amp;P 2025</td>
<td>Met One BAM 1020 (QTY 2)</td>
<td>MetOne BAM 1020 (QTY 2)</td>
<td>Met One BAM 1020 (QTY 2)</td>
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<td>Analysis method</td>
<td>Sequential</td>
<td>Sequential</td>
<td>Beta Attenuation</td>
<td>Beta Attenuation</td>
<td>Beta Attenuation</td>
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<td>Method code</td>
<td>145</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
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<td>1/25/2012</td>
<td>1/1/2012</td>
<td>1/1/2012</td>
<td>10/14/2013</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:1</td>
<td>1.6</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>5.9</td>
<td>5.9</td>
<td>6.2</td>
<td>6.4</td>
<td>6.3</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM10 STP / PM10 LC</td>
<td>PM2.5</td>
<td>PM10-2.5</td>
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<td>-------</td>
<td>-------</td>
<td>--------------------</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>2.0</td>
<td>2.0</td>
<td>1.0</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>N/A</td>
<td>N/A</td>
<td>Aluminum</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>Monthly</td>
<td>Monthly</td>
<td>Bi-weekly</td>
<td>Bi-weekly</td>
<td>Bi-weekly</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>Monthly</td>
<td>Monthly</td>
<td>Bi-weekly</td>
<td>Bi-weekly</td>
<td>Bi-weekly</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>7/22/20, 11/2/20</td>
<td>7/22/20, 11/2/20</td>
<td>7/22/20, 11/2/20</td>
<td>7/22/20, 11/2/20</td>
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<td>-----------------------------------------------------</td>
<td>------------------</td>
<td>------------------</td>
<td>------------------</td>
<td>------------------</td>
<td></td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>For 2021: One FRM removed, remaining unit designated collocated. Remaining FRM sampling schedule changed to 1:3.</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For 2021: 1 pair of BAMS removed. Remaining unit designated primary 2.5.</td>
<td></td>
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</table>
### Fresno-Garland (3)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM2.5 Speciation</th>
<th>PM2.5 Speciation</th>
<th>Meteorology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter code</td>
<td>Many</td>
<td>Many</td>
<td>Many</td>
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<tr>
<td>Spatial scale</td>
<td>N, U</td>
<td>N, U</td>
<td>U</td>
</tr>
<tr>
<td>Site type</td>
<td>PE</td>
<td>PE</td>
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<tr>
<td>Monitor objective</td>
<td>RS</td>
<td>RS</td>
<td>RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>Other</td>
<td>Other</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation</td>
<td>NCore, STN</td>
<td>NCore, STN</td>
<td>NCore</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
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<td>Other</td>
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<td>POC</td>
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<tr>
<td>Primary / QA Collocated / Other</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
</tr>
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</table>

#### Is it suitable for comparison against the annual PM2.5? (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

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<th>Monitoring start date (MM/DD/YYYY)</th>
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<th>01/01/2012</th>
<th>12/23/2011</th>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:3</td>
<td>1:3</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<tr>
<td>Probe/Inlet above ground (meters)</td>
<td>5.5</td>
<td>5.5</td>
<td>4.5</td>
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<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
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<td>2</td>
<td>8</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>10</td>
<td>10</td>
<td>None</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>11</td>
<td>9</td>
<td>None</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>11</td>
<td>9</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>9</td>
<td>9</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>2.5</td>
<td>2.5</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5 Speciation</td>
<td>PM2.5 Speciation</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>------------------</td>
<td>-------------</td>
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<tr>
<td>Probe material (Teflon, etc.)</td>
<td>N/A</td>
<td>N/A</td>
<td>Teflon</td>
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<tr>
<td>Residence time (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>Bi-weekly</td>
<td>Bi-weekly</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Last Annual Performance Evaluation (gaseous)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>non-operational in 2020; not audited</td>
<td>non-operational in 2020; not audited</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
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### Site Name
Fresno-Pacific

<table>
<thead>
<tr>
<th><strong>AQS ID (XX-XXX-XXXX)</strong></th>
<th>06-019-5025</th>
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<tbody>
<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Fresno</td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>Fresno</td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Site Start Date</strong></td>
<td>01/01/2000</td>
</tr>
<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>PM2.5 FRM</td>
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<td><strong>Meteorological Parameters</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>1716 Winery, Fresno, CA 93727</td>
</tr>
<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>36.7263N, -119.7330W</td>
</tr>
<tr>
<td><strong>Distance to roadways (meters)</strong></td>
<td>40 m (east)</td>
</tr>
<tr>
<td><strong>Traffic Count/Year</strong></td>
<td>8,540 / 2018 (Raw traffic count in a 24-hour period: Butler Avenue/Winery Avenue intersection, Source: Fresno COG Traffic Counts, 2007-2019 Kittelson &amp; Associates, Inc.)</td>
</tr>
<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Vegetative and paved</td>
</tr>
<tr>
<td>Parameter</td>
<td>PM2.5</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>88101</td>
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<tr>
<td>Spatial scale</td>
<td>N</td>
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<tr>
<td>Site type</td>
<td>PE</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FRM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM&lt;sub&gt;2.5&lt;/sub&gt;, PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;10-2.5&lt;/sub&gt;, Pb and NO&lt;sub&gt;2&lt;/sub&gt; monitors. Non-PM, Pb, NO&lt;sub&gt;2&lt;/sub&gt; monitors should be listed as &quot;N/A&quot;).</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM&lt;sub&gt;2.5&lt;/sub&gt;? (Y/N)</td>
<td>Y</td>
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<tr>
<td>Instrument manufacturer and model</td>
<td>Partisol 2025i</td>
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<tr>
<td>Analysis method</td>
<td>Gravimetric</td>
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<td>Method code</td>
<td>145</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/2000</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:3</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>11.3 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.1 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>53.4m NE 5.1 above vertical</td>
</tr>
</tbody>
</table>
| Distance from the drip line of closest tree(s) | 77 m      | 77 m }
<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM2.5</th>
<th>PM2.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td>NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Aluminum</td>
<td>Aluminum</td>
</tr>
<tr>
<td>Residence time for reactive gases</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol?</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>If yes, please list distance (meters) and instrument(s).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol?</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>If yes, please list distance (meters) and instrument(s).</td>
<td></td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>Biweekly</td>
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</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
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<td>Monthly</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
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<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
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<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>2/22/2019, 8/20/2019</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Shutdown 12/31/2020</td>
<td>New install 1/1/2021</td>
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<tr>
<td><strong>Site Name</strong></td>
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<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
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<tr>
<td><strong>Representative statistical area Name</strong> (i.e. MSA, CBSA, other)</td>
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<tr>
<td><strong>County</strong></td>
<td>Fresno</td>
<td></td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
<td></td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>CARB</td>
<td></td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>SJVAPCD: Ozone, NO2, CARB: PM10 FRM</td>
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</tr>
<tr>
<td><strong>Site Start Date</strong></td>
<td>07/01/1984</td>
<td></td>
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<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>Ozone, PM10 FRM, NO2</td>
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<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
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<td><strong>Address</strong></td>
<td>4706 E. Drummond Street, Fresno, CA 93725</td>
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<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>36.7055 N, -119.7410 W</td>
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<tr>
<td><strong>Distance to roadways (meters)</strong></td>
<td>50m</td>
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<td><strong>Traffic Count/Year</strong></td>
<td>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 &amp; Associates, Inc.)</td>
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<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
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## Fresno-Drummond

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<tr>
<th>Pollutant</th>
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<th>PM10</th>
<th>PM10</th>
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<td>81102</td>
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<td>N</td>
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<td>Site type</td>
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<td>PE, QA</td>
<td>HC</td>
<td>GB</td>
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<td>Basic monitoring objective(s)</td>
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<td>NC, RS</td>
<td>NC, RS</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
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<td>Monitor type</td>
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<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
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<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
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<td>None</td>
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<td>FRM/FEM/ARM/Other</td>
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<td>FRM</td>
<td>FRM</td>
<td>FEM</td>
<td>Other</td>
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<td>POC</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”. )</td>
<td>Primary</td>
<td>Primary</td>
<td>QA Collocated</td>
<td>N/A</td>
<td>Other</td>
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<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>099</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
<td>05/01/2017</td>
<td>07/01/1984</td>
<td>07/01/1984</td>
<td>03/01/2017</td>
<td>07/01/1984</td>
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<td>1:6</td>
<td>Hourly</td>
<td>Hourly</td>
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<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<tr>
<td>Probe height (meters)</td>
<td>8.0 m</td>
<td>5.2 m</td>
<td>5.2 m</td>
<td>8.0 m</td>
<td>9.8 m</td>
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<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
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<td>1.6 m</td>
<td>1.6 m</td>
<td>5.1 m</td>
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<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Pollutant</td>
<td>Ozone</td>
<td>PM10</td>
<td>PM10</td>
<td>NO₂</td>
<td>Meteorology</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------</td>
<td>------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby (meters)</td>
<td>N/A</td>
<td>7.0 mH, 0.76 mV</td>
<td>3.35 mH, 0.76 mV</td>
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<td>N/A</td>
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<td>Distance from the drip line of closest tree(s)</td>
<td>15.3 m</td>
<td>15.3 m</td>
<td>18.8 m</td>
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<td>17.2 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Distance between monitors fulfilling QA collocation requirement (meters)</td>
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<td>3.9 m</td>
<td>3.9 m</td>
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<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>340</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
<td>N/A</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
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<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>10.11</td>
<td>N/A</td>
<td>N/A</td>
<td>10.13</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>N/A</td>
<td>N/A</td>
<td>Daily</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>Monthly</td>
<td>Monthly</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>No</td>
<td>N/A</td>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>2/27/20</td>
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<td>PM10</td>
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<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
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<td>2/27/2020, 11/3/2020</td>
<td>2/27/2020, 11/3/2020</td>
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<td>Changes planned within the next 18 months (Y/N)</td>
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<td><strong>Site Name</strong></td>
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<td><strong>AQI ID (XX-XXX-XXXX)</strong></td>
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<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Fresno</td>
<td></td>
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<td><strong>County</strong></td>
<td>Fresno</td>
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<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
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<td></td>
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<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
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<td><strong>Reporting Agency</strong></td>
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<td><strong>Pollutant Parameters</strong></td>
<td>NO2, PM2.5, CO</td>
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<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
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<td><strong>Address</strong></td>
<td>2482 Foundry Park Ave, Fresno, CA 93706</td>
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<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>36.710833N, -119.7775W</td>
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<td><strong>Distance to roadways (meters)</strong></td>
<td>16 to 19 meters</td>
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<td><strong>Traffic Count/Year</strong></td>
<td>122,000/2016 (Rte 99 and Jensen Avenue off-ramp, Source: Caltrans 2019)</td>
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<td></td>
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<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Paved</td>
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### Fresno-Foundry

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<th>Pollutant</th>
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<td>HC</td>
<td>PE</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
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<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
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<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
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<td>Near-road</td>
<td>Near-road</td>
<td>Near-road</td>
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<tr>
<td>FRM/FEM/ARM/Other</td>
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<td>FEM</td>
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<td>1</td>
<td>Many</td>
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<td>Primary / QA Collocated / Other (provide for all PM&lt;sub&gt;2.5&lt;/sub&gt;, PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;10-2.5&lt;/sub&gt;, Pb and NO₂ monitors. Non-PM, Pb, NO₂ monitors should be listed as &quot;N/A&quot;).</td>
<td>Primary</td>
<td>N/A</td>
<td>Primary</td>
<td>Other</td>
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<td>N/A</td>
<td>N/A</td>
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<td>CL</td>
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<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD-MM/DD)</td>
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<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5.1 m</td>
<td>5.7 m</td>
<td>5.7 m</td>
<td>5.9 m</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.2 m</td>
<td>1.8 m</td>
<td>1.8 m</td>
<td>2.0 m</td>
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<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>CO</td>
<td>NO₂</td>
<td>Meteorology</td>
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<tr>
<td>-------------------------------------------------------------------------</td>
<td>--------------------------</td>
<td>-------------</td>
<td>-------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>26.3m H (north), 4m V 37m H (east), 4m V</td>
<td>26.3m H (north), 4m V 37m H (east), 4m V</td>
<td>26.3m H (north), 4m V 37m H (east), 4m V</td>
<td>26.3m H (north), 4m V 37m H (east), 4m V</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>9.2 m</td>
<td>8.45 m</td>
<td>8.45 m</td>
<td>8.5 m</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>350</td>
<td>350</td>
<td>350</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>8.27</td>
<td>7.84</td>
<td>N/A</td>
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<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>CO</td>
<td>NO₂</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-------</td>
<td>-----</td>
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<td>-------------</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
<td></td>
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<td>N/A</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>Audits for year 2020 postponed so far due to COVID-19.</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Site Name</td>
<td>Parlier</td>
<td></td>
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<tr>
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<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-019-4001</td>
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<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Fresno</td>
<td></td>
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<tr>
<td>County</td>
<td>Fresno</td>
<td></td>
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</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>SJVAPCD</td>
<td></td>
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<tr>
<td>Site Start Date</td>
<td>6/1/1983</td>
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<tr>
<td>Pollutant Parameters</td>
<td>Ozone, NO2, Speciated VOC, NMH</td>
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<td></td>
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<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation</td>
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<tr>
<td>Address</td>
<td>9240 S. Riverbend Ave., Parlier, CA 93648</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>36.5972 N, -119.5040 W</td>
<td></td>
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<tr>
<td>Distance to roadways (meters)</td>
<td>100 m (east)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Dirt, vegetation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO\textsubscript{2}</td>
<td>Speciated VOC</td>
<td>NMH</td>
</tr>
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<td>Parameter code</td>
<td>44201</td>
<td>42602</td>
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<td>43102</td>
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<td>Spatial scale</td>
<td>N</td>
<td>N</td>
<td>Many</td>
<td>N</td>
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<tr>
<td>Site type</td>
<td>HC, RT</td>
<td>PE</td>
<td>PE</td>
<td>PE</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS</td>
<td>RS</td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
<td>Other</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>PAMS</td>
<td>PAMS, RA40</td>
<td>PAMS</td>
<td>PAMS</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FEM</td>
<td>Other</td>
<td>Other</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM\textsubscript{2.5}, PM\textsubscript{10}, PM\textsubscript{10-2.5}, Pb and NO\textsubscript{2} monitors. Non-PM, Pb, NO\textsubscript{2} monitors should be listed as “N/A”).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM\textsubscript{2.5}? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Analysis method</td>
<td>Chemiluminescence</td>
<td>CL</td>
<td>GC</td>
<td>GC</td>
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<tr>
<td>Method code</td>
<td>199</td>
<td>099</td>
<td>126</td>
<td>011</td>
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<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>06/01/1983</td>
<td>06/01/1983</td>
<td>06/01/1983</td>
<td>06/01/1983</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>1:3</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>06/01 – 08/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>8.7 m</td>
<td>8.7 m</td>
<td>8.7 m</td>
<td>8.7 m</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Speciated VOC</td>
<td>NMH</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-----</td>
<td>---------------</td>
<td>-----</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.7 m</td>
<td>2.7 m</td>
<td>2.7 m</td>
<td>2.7 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>39.0 m</td>
<td>39.0 m</td>
<td>39.0 m</td>
<td>39.0 m</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>11.0 m</td>
<td>11.0 m</td>
<td>11.0 m</td>
<td>11.0 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Stainless steel</td>
<td>Teflon/Pyrex with Borosilicate</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>11.49</td>
<td>10.64</td>
<td>4.69</td>
<td>8.67</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>daily</td>
<td>daily</td>
<td>daily</td>
<td>daily</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Speciated VOC</td>
<td>NMH</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
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<td>-----</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>9/16/2020</td>
<td>10/24/2019</td>
<td>N/A</td>
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<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Site Name</td>
<td>Huron</td>
<td></td>
<td></td>
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<tr>
<td>------------</td>
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<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-019-2008</td>
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<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Fresno</td>
<td></td>
<td></td>
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<tr>
<td>County</td>
<td>Fresno</td>
<td></td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
<td></td>
<td></td>
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<tr>
<td>Reporting Agency</td>
<td>SJVAPCD</td>
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<tr>
<td>Site Start Date</td>
<td>09/01/09</td>
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<tr>
<td>Pollutant Parameters</td>
<td>PM2.5 Non-FEM</td>
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<tr>
<td>Meteorological Parameters</td>
<td>Barometric Pressure</td>
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<tr>
<td>Address</td>
<td>16875 4th St, Huron, CA 93234</td>
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<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>36.2363 N, -119.7656 W</td>
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<tr>
<td>Distance to roadways (meters)</td>
<td>100 m (north)</td>
<td></td>
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<tr>
<td>Traffic Count/Year</td>
<td>5,400/2019 (Traffic count for nearest roads: Rte 269/Rte 198, Source: Caltrans 2019)</td>
<td></td>
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<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Paved, vegetative</td>
<td></td>
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<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>Meteorology</td>
<td></td>
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<tr>
<td>----------------</td>
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<tr>
<td>Parameter code</td>
<td>88502</td>
<td>64101</td>
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<tr>
<td>Spatial scale</td>
<td>N</td>
<td>N</td>
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<tr>
<td>Site type</td>
<td>PE</td>
<td>PE</td>
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</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>TP</td>
<td>TP</td>
<td></td>
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<tr>
<td>Monitor type</td>
<td>SPM</td>
<td>Other</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
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<td></td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>Non-FEM</td>
<td>Other</td>
<td></td>
<td></td>
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<tr>
<td>POC</td>
<td>3</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”.)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N</td>
<td>N/A</td>
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<tr>
<td>Instrument manufacturer and model</td>
<td>MET One BAM 1020</td>
<td>OTP – Hy-Cal BA-512-A-3-B, BP – Met One 092</td>
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<tr>
<td>Analysis method</td>
<td>Beta-Attenuation</td>
<td>Many</td>
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<tr>
<td>Method code</td>
<td>731</td>
<td>014</td>
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<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>09/12/2009</td>
<td>02/01/2010</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td></td>
<td></td>
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<tr>
<td>Probe height (meters)</td>
<td>6.42 m</td>
<td>5.5 m</td>
<td></td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.14 m</td>
<td>N/A</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>41.5 m</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>Meteorology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probe material for reactivity gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>Bi-Weekly</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the low? If yes, please list distance (meters) and instrument(s).</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the high? If yes, please list distance (meters) and instrument(s).</td>
<td>None</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>10/7/2020, 11/8/2020</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
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<td>Site Name</td>
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<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
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<td>Hourly</td>
<td>Hourly</td>
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<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>4.7 m</td>
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<td>NO₂</td>
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<td>N/A</td>
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<td>N/A</td>
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<td>26.5 mV, 2.5 mH</td>
<td>24.2 mV, 2.5 mH</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
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<td>N/A</td>
<td>N/A</td>
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<tr>
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<td>353.2</td>
<td>353.2</td>
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<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
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<td>Teflon/Pyrex with Borosilicate</td>
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<td>Daily</td>
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<tr>
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<td>N/A</td>
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<td>N/A</td>
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<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
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<td>N/A</td>
<td>N/A</td>
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<td>Ozone</td>
<td>PM2.5</td>
<td>NO₂</td>
<td>Meteorology</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hvol? If yes, please list distance (meters) and instrument(s).</td>
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### Hanford-Irwin (2)

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<th>PM10 STP</th>
<th>PM10 STP</th>
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<td>Basic monitoring objective(s)</td>
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<td>NC, RS</td>
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<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe height (meters)</td>
<td>4.5 m</td>
<td>4.5 m</td>
<td>4.5 m</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.8 m</td>
<td>1.8 m</td>
<td>1.8 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>24.3 mV, 2.5mH</td>
<td>24.3 mV, 2.5mH</td>
<td>24.3 mV, 2.5mH</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>26.6 m</td>
<td>26.6 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>22.8 m</td>
<td>22.8 m</td>
<td>22.8 m</td>
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<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>N/A</td>
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### Appendix B: Detailed Air Monitoring Site Information

#### 2021 Air Monitoring Network Plan

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<th>Pollutant</th>
<th>PM10 LC</th>
<th>PM10 STP</th>
<th>PM10 STP</th>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
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<td>Probe material for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
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<td>Residence time for reactive gases NO/NO$_2$/NO$_y$, SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
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<td>N/A</td>
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<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
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<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
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<td>36.1022 N, -119.5660 W</td>
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<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
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<td>Primary / QA Collocated / Other (provide for all PM&lt;sub&gt;2.5&lt;/sub&gt;, PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;10-2.5&lt;/sub&gt;, Pb and NO&lt;sub&gt;2&lt;/sub&gt; monitors. Non-PM, Pb, NO&lt;sub&gt;2&lt;/sub&gt; monitors should be listed as “N/A”.)</td>
<td>Primary</td>
<td>QA Collocated</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM&lt;sub&gt;2.5&lt;/sub&gt;? (Y/N)</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Analysis method</td>
<td>Gravimetric</td>
<td>Beta Attenuation</td>
<td>Beta Attenuation</td>
</tr>
<tr>
<td>Method code</td>
<td>145</td>
<td>204</td>
<td>170</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/2016</td>
<td>01/01/2017</td>
<td>01/13/2021</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM2.5</td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:3</td>
<td>Hourly</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>6.2 m</td>
<td>6.0 m</td>
<td>6.3 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.1 m</td>
<td>1.8 m</td>
<td>2.1 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>115.7 m H, 1.5 m V</td>
<td>118.1 m H, 1.5 m V</td>
<td>118.1 m H, 1.5 m V</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>62.5 m E 65.2 m S</td>
<td>63.7 m E, 65.9 m S</td>
<td>63.7 m E, 65.9 m S</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>79.1 m</td>
<td>76.6 m</td>
<td>76.6 m</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>2.7 m</td>
<td>2.7 m</td>
<td>1.9 m</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>365</td>
<td>365</td>
<td>365</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>Monthly</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>Biweekly</td>
<td>Biweekly</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM2.5</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
<td>-------</td>
<td>-------</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the low vol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the high vol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Yes. Partisol analyzer was removed on 1/12/2021 in lieu of the BAM 1020 replacement on 1/13/2021.</td>
<td>Yes. The 602 was removed on 1/12/2021 and replaced with the BAM 1020 on 1/13/2021.</td>
<td>Yes. The 602 was removed on 12/31/2020 and replaced with the BAM 1020 on 1/1/2021.</td>
</tr>
<tr>
<td>Site Name</td>
<td>Visalia-Church St</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-107-2002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Visalia–Porterville</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County</td>
<td>Tulare</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>CARB</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Start Date</td>
<td>1/1/1979</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM10 FEM, PM2.5 FRM, PM2.5 FEM, PM2.5 Speciation (CSN Supplemental), NO₂</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>310 N. Church St., Visalia CA 93291</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>36.3325 N, -119.2909 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance to road</td>
<td>25 m (west)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>10,000/2019(Traffic count for nearest roads: N Court St at W School Ave Source: Caltrans AADT 2019)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Cover</td>
<td>Paved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>PM10 STP / PM10 LC</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-----</td>
<td>--------------------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
<td>42602</td>
<td>81102, 85101</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>GB</td>
<td>PE</td>
<td>PE</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP / RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FRM</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>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”.)</td>
<td>Primary</td>
<td>Primary</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne API 400</td>
<td>Teledyne API 200E</td>
<td>Met One 1020</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
<td>Gas phase Chem.</td>
<td>Beta attenuation</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
<td>099</td>
<td>122</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>1/1/1979</td>
<td>1/1/1979</td>
<td>8/1/2015</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 -12/31</td>
<td>01/01 -12/31</td>
<td>01/01 -12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>6.7</td>
<td>6.7</td>
<td>6.2</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.8</td>
<td>2.8</td>
<td>2.3</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>PM10 STP / LC</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-------</td>
<td>-----</td>
<td>--------------</td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
<td>Teflon</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>10.1</td>
<td>10.01</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>Monthly</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>5x/week</td>
<td>5x/week</td>
<td>N/A</td>
</tr>
<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>9/9/20</td>
<td>not audited in 2020</td>
<td>N/A</td>
</tr>
<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>N/A</td>
<td>N/A</td>
<td>9/9/20, 11/3/2020</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Yes. The site will be relocated as soon as possible.</td>
<td>Yes. The site will be relocated as soon as possible.</td>
<td>Yes. The site will be relocated as soon as possible.</td>
</tr>
</tbody>
</table>
### Visalia-Church St (2)

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>PM2.5</th>
<th>PM2.5 Speciation</th>
<th>Meteorology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parameter code</td>
<td>88501</td>
<td>Many</td>
<td>Many</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
<td>N</td>
<td>R</td>
</tr>
<tr>
<td>Site type</td>
<td>RT, PE</td>
<td>PE</td>
<td>GB</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>RS, TP</td>
<td>RS</td>
<td>RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>Other</td>
<td>SLAMS</td>
<td>Other</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>CSN Supplemental</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>Non-FEM</td>
<td>FRM</td>
<td>Other</td>
</tr>
<tr>
<td>POC</td>
<td>3</td>
<td>5</td>
<td>1</td>
</tr>
<tr>
<td>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”.)</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM2.5? (Y/N)</td>
<td>N</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Met One 1020</td>
<td>Many</td>
<td>Many</td>
</tr>
<tr>
<td>Analysis method</td>
<td>Beta attenuation</td>
<td>Many</td>
<td>Many</td>
</tr>
<tr>
<td>Method Code</td>
<td>731</td>
<td>Many</td>
<td>Many</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>11/01/2001</td>
<td>01/14/2002</td>
<td>01/01/1995</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>1:3</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01-12/31</td>
<td>01/01-12/31</td>
<td>01/01-12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>6.0</td>
<td>5.9</td>
<td>11.9</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.2</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Appendix B: Detailed Air Monitoring Site Information

2021 Air Monitoring Network Plan

B-91
<table>
<thead>
<tr>
<th>Distance between collocated monitors (meters)</th>
<th>2.3</th>
<th>None</th>
<th>None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Residence time (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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).

<table>
<thead>
<tr>
<th>Distance between Instrument(s)</th>
<th>Yes</th>
<th>No</th>
<th>N/A</th>
</tr>
</thead>
</table>

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).

<table>
<thead>
<tr>
<th>Distance between Instrument(s)</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

Frequency of flow rate verification for manual PM samplers audit

<table>
<thead>
<tr>
<th>Frequency</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

Frequency of flow rate verification for automated PM analyzers audit

<table>
<thead>
<tr>
<th>Frequency</th>
<th>Monthly</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

Frequency of one-point QC check (gaseous)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

Last Annual Performance Evaluation (gaseous)

<table>
<thead>
<tr>
<th>Frequency</th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
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</thead>
</table>

Last two semi-annual flow rate audits for PM monitors

<table>
<thead>
<tr>
<th>Dates</th>
<th>9/9/20, 11/3/2020</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

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.
### Site Name

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Porterville</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-107-2010</td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Visalia-Porterville</td>
</tr>
<tr>
<td>County</td>
<td>Tulare</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>SJVAPCD</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>03/08/2010</td>
</tr>
</tbody>
</table>

### Pollutant Parameters

<table>
<thead>
<tr>
<th>Pollutant Parameters</th>
<th>Ozone, PM2.5 Non-FEM</th>
</tr>
</thead>
</table>

### Meteorological Parameters

<table>
<thead>
<tr>
<th>Meteorological Parameters</th>
<th>Wind speed, wind direction, outdoor temperature, barometric pressure</th>
</tr>
</thead>
</table>

### Address

<table>
<thead>
<tr>
<th>Address</th>
<th>1839 S. Newcomb St., Porterville, CA 93257</th>
</tr>
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</table>

### GPS Coordinates (decimal degrees)

<table>
<thead>
<tr>
<th>GPS Coordinates (decimal degrees)</th>
<th>36.0310 N, -119.0550 W</th>
</tr>
</thead>
</table>

### Distance to roadways (meters)

<table>
<thead>
<tr>
<th>Distance to roadways (meters)</th>
<th>100m (south)</th>
</tr>
</thead>
</table>

### Traffic Count/Year

<table>
<thead>
<tr>
<th>Traffic Count/Year</th>
<th>24,500/2019 (Ahead AADT traffic count for nearest roads: Junction SR 190/SR 65, Source: Caltrans 2019)</th>
</tr>
</thead>
</table>

### Groundcover (e.g. paved, vegetative, dirt, sand, gravel)

<table>
<thead>
<tr>
<th>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</th>
<th>Paved, vegetative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>-----------</td>
<td>---------------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>N</td>
</tr>
<tr>
<td>Site type</td>
<td>HC, PE</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$<em>{10-2.5}$, Pb and NO$</em>{2}$ monitors. Non-PM, Pb, NO$_{2}$ monitors should be listed as “N/A”).</td>
<td>N/A</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
</tr>
<tr>
<td>Method code</td>
<td>087</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>03/08/2010</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 -12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>6.0 m</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>3.2 m</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>7 m S</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>175.5 m S</td>
</tr>
<tr>
<td>Parameter</td>
<td>Site 1</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>--------</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>357</td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO\textsubscript{2}/NO\textsubscript{y}, SO\textsubscript{2}, O\textsubscript{3}; PAMS: VOCs, Carbonyls (seconds)</td>
<td>4.97</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2 m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>10/6/2020</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
</tr>
<tr>
<td>Site name</td>
<td>Sequoia-Ash Mountain</td>
</tr>
<tr>
<td>--------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-107-0009</td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Visalia-Porterville</td>
</tr>
<tr>
<td>County</td>
<td>Tulare</td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>All equipment operated by National Park Service</td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>All data reported by NPS</td>
</tr>
<tr>
<td>Site Start Date</td>
<td>07/01/1999</td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone, PM2.5</td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation</td>
</tr>
<tr>
<td>Address</td>
<td>Ash Mountain, Sequoia National Park 47050 Generals Hwy, Three Rivers, CA 93271</td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>36.4894 N, -118.8290 W</td>
</tr>
<tr>
<td>Distance to road</td>
<td>120 m (north)</td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)</td>
</tr>
<tr>
<td>Ground Cover</td>
<td>Dirt, vegetative</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
</tr>
<tr>
<td>Spatial scale</td>
<td>R</td>
</tr>
<tr>
<td>Site type</td>
<td>HC, RT</td>
</tr>
<tr>
<td>Monitor objective</td>
<td>NC, RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>Non-EPA Federal</td>
</tr>
<tr>
<td>Network affiliation</td>
<td>CASTNET</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
</tr>
</tbody>
</table>

**Primary / QA Collocated / Other (provide for all PM$_{2.5}$, PM$_{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as "N/A.")**

<table>
<thead>
<tr>
<th></th>
<th>N/A</th>
<th>Primary</th>
<th>Other</th>
</tr>
</thead>
</table>

**Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)**

<table>
<thead>
<tr>
<th></th>
<th>N/A</th>
<th>N</th>
<th>N/A</th>
</tr>
</thead>
</table>

**Instrument manufacturer and model**

<table>
<thead>
<tr>
<th></th>
<th>Thermo TECO 49, 49C</th>
<th>MET One BAM 1020</th>
<th>Many</th>
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</table>

**Analysis method**

<table>
<thead>
<tr>
<th></th>
<th>UV</th>
<th>Beta Attenuation</th>
<th>Many</th>
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**Method code**

<table>
<thead>
<tr>
<th></th>
<th>047</th>
<th>170</th>
<th>Many</th>
</tr>
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</table>

**Monitoring start date (MM/DD/YYYY)**

|-----------------|------------|-----------|-----------|

**Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)**

<table>
<thead>
<tr>
<th></th>
<th>Hourly</th>
<th>Hourly</th>
<th>Hourly</th>
</tr>
</thead>
</table>

**Sampling season (MM/DD - MM/DD)**

<table>
<thead>
<tr>
<th></th>
<th>01/01 – 12/31</th>
<th>01/01 – 12/31</th>
<th>01/01 – 12/31</th>
</tr>
</thead>
</table>

**Probe height (meters)**

<table>
<thead>
<tr>
<th></th>
<th>10 m</th>
<th>4 m</th>
<th>10 m</th>
</tr>
</thead>
</table>

**Distance from supporting structure (vertical and horizontal, if applicable, should be provided)**

<table>
<thead>
<tr>
<th></th>
<th>3 m</th>
<th>1.5 m</th>
<th>3 m</th>
</tr>
</thead>
</table>

**Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)**

<table>
<thead>
<tr>
<th></th>
<th>5 m</th>
<th>N/A</th>
<th>5 m</th>
</tr>
</thead>
</table>

**Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)**

<table>
<thead>
<tr>
<th></th>
<th>N/A</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>

**Distance from the drip line of closest tree(s)**

<table>
<thead>
<tr>
<th></th>
<th>5 - 10 m</th>
<th>5 - 10 m</th>
<th>5 - 10 m</th>
</tr>
</thead>
</table>

**Distance to furnace or incinerator flue (meters)**

<table>
<thead>
<tr>
<th></th>
<th>305 m</th>
<th>305 m</th>
<th>305 m</th>
</tr>
</thead>
</table>

**Distance between monitors fulfilling a QA collocation requirement (meters).**

<table>
<thead>
<tr>
<th></th>
<th>3 m</th>
<th>3 m</th>
<th>3 m</th>
</tr>
</thead>
</table>

**Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)**

<table>
<thead>
<tr>
<th></th>
<th>360</th>
<th>360</th>
<th>360</th>
</tr>
</thead>
</table>

**Probe material for reactive gases NO/NO$_{2}$/NO$_{y}$, SO$_{2}$, O$_{3}$; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)**

<table>
<thead>
<tr>
<th></th>
<th>Teflon</th>
<th>N/A</th>
<th>N/A</th>
</tr>
</thead>
</table>
### Table: Detailed Air Monitoring Site Information

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>PM2.5</th>
<th>Meteorology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residence time for reactive gases NO/NO₂/NO₃, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>13.4</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Monthly</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>Monthly</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>Monthly</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>12/1/2020</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>11/5/2020, 4/21/2021</td>
<td>N/A</td>
</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Site name</td>
<td>Sequoia-Lower Kaweah</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td>--------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-107-0006</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Visalia-Porterville</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County</td>
<td>Tulare</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>All equipment operated by National Park Service (NPS)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>All data reported by NPS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Start Date</td>
<td>01/01/1987</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant Parameters</td>
<td>Ozone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, solar radiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td>Giant Forest, Sequoia National Park, 47050 Generals Highway, Three Rivers, CA 93271</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>36.5661 N, -118.7776 W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance to road</td>
<td>380 m (southeast)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Traffic Count/Year</td>
<td>2,300/2017 (Traffic count for nearest roads: Rte 198 / Sequoia National Park boundary, Source: Caltrans Back AADT 2017)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ground Cover</td>
<td>Dirt, vegetation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>Meteorology</td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Parameter code</td>
<td>44201</td>
<td>Many</td>
<td></td>
</tr>
<tr>
<td>Spatial scale</td>
<td>R</td>
<td>R</td>
<td></td>
</tr>
<tr>
<td>Site type</td>
<td>RT</td>
<td>GB</td>
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</tr>
<tr>
<td>Monitor objective</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
<td></td>
</tr>
<tr>
<td>Monitor type</td>
<td>Non-EPA Federal</td>
<td>Non-EPA Federal</td>
<td></td>
</tr>
<tr>
<td>Network affiliation</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>Other</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A.”)</td>
<td>N/A</td>
<td>Other</td>
<td></td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>Thermo TECO 49, 49C</td>
<td>Many</td>
<td></td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
<td>Many</td>
<td></td>
</tr>
<tr>
<td>Method code</td>
<td>047</td>
<td>Many</td>
<td></td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/01/1987</td>
<td>04/01/1987</td>
<td></td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td></td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>05/01 – 10/31 (Seasonal only)</td>
<td>05/01 – 10/31 (Seasonal only)</td>
<td></td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>5</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.5</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>1</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>5-10 m Location heavily forested. Cutting trees not possible. NPS working to get inlet moved to platform closer to station’s shelter.</td>
<td>5-10 m Location heavily forested. Cutting trees not possible. NPS working to get inlet moved to platform closer to station’s shelter.</td>
<td></td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>457 m</td>
<td>457 m</td>
<td></td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters)</td>
<td>5-10 m</td>
<td>10-15 m</td>
<td></td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>Meteorology</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>-------------</td>
<td></td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td></td>
</tr>
<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon</td>
<td>N/A</td>
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</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>13.9</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Monthly</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>12/1/2020</td>
<td>N/A</td>
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<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
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</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Site Name</td>
<td>Shafter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>---------</td>
<td></td>
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</tr>
<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-029-6001</td>
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</tr>
<tr>
<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Bakersfield</td>
<td></td>
<td></td>
</tr>
<tr>
<td>County</td>
<td>Kern</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB: Ozone, NO2; SJVAPCD: Meteorology, Speciated VOC, NMH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB: Ozone, NO2; Varies based on which laboratory is contracted with the SJVAPCD: Speciated VOC, NMH</td>
<td></td>
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<tr>
<td>Reporting Agency</td>
<td>CARB: Ozone, NO2; SJVAPCD: Speciated VOC, NMH, Meteorology</td>
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</tr>
<tr>
<td>Site Start Date</td>
<td>01/01/1989</td>
<td></td>
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<tr>
<td>Pollutant Parameters</td>
<td>Ozone, NO2, Speciated VOC, NMH</td>
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<td></td>
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<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, relative humidity, barometric pressure, solar radiation</td>
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<tr>
<td>Address</td>
<td>578 Walker St., Shafter, CA 93263</td>
<td></td>
<td></td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>35.5034 N, -119.2726 W</td>
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<td></td>
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<tr>
<td>Distance to roadways (meters)</td>
<td>10m (southwest)</td>
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<tr>
<td>Traffic Count/Year</td>
<td>6,028/2020 (Traffic count for nearest roads: Central Ave and Walker St., Source: Kern Council of Governments.)</td>
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</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Paved</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Speciated VOC</td>
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<td>Parameter code</td>
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<td>42602</td>
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<td>Spatial scale</td>
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<td>Site type</td>
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<td>PE</td>
<td>HC</td>
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<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP</td>
<td>RS</td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>PAMS</td>
<td>PAMS</td>
<td>PAMS</td>
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<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FRM</td>
<td>Other</td>
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<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>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.”)</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Analysis method</td>
<td>UV</td>
<td>CL</td>
<td>Preconc. GC/FID/MSD</td>
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<tr>
<td>Method code</td>
<td>087</td>
<td>099</td>
<td>177</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
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<td>07/01/1989</td>
<td>07/25/2001</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>06/01 – 08/31</td>
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<td>Probe height (meters)</td>
<td>7.3</td>
<td>7.3</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.6</td>
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<td>2.4</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Speciated VOC</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>-------</td>
<td>---------</td>
<td>---------------</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>19m H, 2m V (Tree)</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td>None</td>
<td>19m N, 70m SE</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>None</td>
<td>None</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
<td>360</td>
<td>355</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>TEFлон</td>
<td>TEFлон</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>18.3</td>
<td>15.8</td>
<td>2.79</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</table>
### Pollutant

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>NO₂</th>
<th>Speciated VOC</th>
<th>NMH</th>
<th>Meteorology</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8/25/20</td>
<td>not audited in 2020</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)

- 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
- NMH: N/A
- Meteorology: 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)

- 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
- NMH: N/A
- Meteorology: N/A

#### Changes planned within the next 18 months (Y/N)

- Changes planned within the next 18 months (Y/N): N
- NMH: N
- Meteorology: 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.
<table>
<thead>
<tr>
<th><strong>Site Name</strong></th>
<th>Oildale</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
<td>06-029-0232</td>
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<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Bakersfield</td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>Kern</td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxic lab, other)</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>CARB</td>
</tr>
<tr>
<td><strong>Site Start Date</strong></td>
<td>01/01/1980</td>
</tr>
<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>Ozone, PM10 FEM</td>
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<tr>
<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity</td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>3311 Manor St, Oildale CA 93308</td>
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<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>35.4380 N, -119.0167 W</td>
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<tr>
<td><strong>Distance to road</strong></td>
<td>150 m (northwest)</td>
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<tr>
<td><strong>Traffic Count/Year</strong></td>
<td>6,444/2020 (Traffic count for roads: Manor St. near the air monitoring station. Source: Kern Council of Governments.)</td>
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<tr>
<td><strong>Ground Cover</strong></td>
<td>Dirt, vegetative</td>
</tr>
</tbody>
</table>
### Oildale

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Ozone</th>
<th>PM10 STP / PM10 LC</th>
<th>Meteorology</th>
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<tbody>
<tr>
<td>Parameter code</td>
<td>44201</td>
<td>81102, 85101</td>
<td>Many</td>
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<tr>
<td>Spatial scale</td>
<td>U</td>
<td>MD</td>
<td>U</td>
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<tr>
<td>Site type</td>
<td>HC, RT</td>
<td>SO</td>
<td>GB</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS, TP / RS,TP</td>
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</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>Other</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FEM</td>
<td>Other</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>3</td>
<td>Many</td>
</tr>
<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as &quot;N/A&quot;.)</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
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<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne API 400</td>
<td>MET One BAM 1020</td>
<td>RM Young 81000, Vaisala HMP 155</td>
</tr>
<tr>
<td>Analysis method</td>
<td>UV</td>
<td>Beta Attenuation</td>
<td>Many</td>
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<tr>
<td>Method code</td>
<td>087</td>
<td>122</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
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<td>06/01/2017</td>
<td>01/01/1999, 03/0620/04, 10/01/2005</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<tr>
<td>Probe/Inlet height above ground (meters)</td>
<td>6.7</td>
<td>2.2</td>
<td>8.5</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>3.0</td>
<td>1.5</td>
<td>1.3</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
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<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>PM10 STP / LC</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------------------------------------------------</td>
<td>-------</td>
<td>---------------</td>
<td>-------------</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>10.1</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance between collocated monitors (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
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<tr>
<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Residence time (seconds)</td>
<td>12.4</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>Monthly</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Daily</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>3/13/20</td>
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<td>N/A</td>
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<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>N/A</td>
<td>3/13/20, 11/4/20</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
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<td>N</td>
<td>N</td>
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<tr>
<td>Site Name</td>
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<td></td>
</tr>
<tr>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
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<td></td>
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</tr>
<tr>
<td>County</td>
<td>Kern</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
<td></td>
<td></td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
<td></td>
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<td>Reporting Agency</td>
<td>CARB</td>
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<td>Pollutant Parameters</td>
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<tr>
<td>Meteorological Parameters</td>
<td>None</td>
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<tr>
<td>Address</td>
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</tr>
<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>35.385574 N, -119.015009 W</td>
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</tr>
<tr>
<td>Distance to roadways (meters)</td>
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<td>Traffic Count/Year</td>
<td>3,486/2021 (Traffic count for nearest roads: 30th St. at Golden State Ave., Source: Kern Council of Governments.)</td>
<td></td>
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</tr>
<tr>
<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Paved</td>
<td></td>
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<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM10 STP</td>
<td>PM2.5</td>
</tr>
<tr>
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<tr>
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<td>Spatial scale</td>
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<tr>
<td>Site type</td>
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<td>PE</td>
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<tr>
<td>Basic monitoring objective(s)</td>
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<td>NC, RS</td>
<td>NC, RS</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
<td>SLAMS</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FRM</td>
<td>FRM</td>
<td>FEM</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>1</td>
<td>3</td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”)</td>
<td>Primary</td>
<td>Primary</td>
<td>Primary</td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>Y</td>
<td>N/A</td>
<td>Y</td>
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<td>Instrument manufacturer and model</td>
<td>Thermo 2025i</td>
<td>Hi Vol SSI Ecotech Model 3000</td>
<td>BAM 1022</td>
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<tr>
<td>Analysis method</td>
<td>Gravimetric</td>
<td>Gravimetric</td>
<td>Beta Attenuation</td>
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<tr>
<td>Method code</td>
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<td>162</td>
<td>209</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
<td>07/02/2014</td>
<td>04/01/2015</td>
<td>1/1/2021</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:3</td>
<td>1:6</td>
<td>1:1</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01-12/31</td>
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<tr>
<td>Probe height (meters)</td>
<td>6.2 m</td>
<td>5.9 m</td>
<td>5.9 m</td>
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<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.1 m</td>
<td>1.8 m</td>
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<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>11m WSW</td>
<td>12m WSW</td>
<td>11m WSW</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td>PM10 STP</td>
<td>PM2.5</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------</td>
<td>----------</td>
<td>-------</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>340</td>
<td>340</td>
<td>340</td>
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<tr>
<td>Probe material for reactive gases NO/NO$_2$/NO$_y$; SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Residence time for reactive gases NO/NO$_2$/NO$_y$; SO$_2$, O$_3$; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>Bi-Weekly</td>
<td>Monthly</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>Monthly</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>03/11/2020; 11/4/2020</td>
<td>03/11/2020; 11/4/2020</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Shutdown on 12/31/2020</td>
<td>Yes. Replace FRM filter sampler with continuous sampler</td>
<td>Installed 1/1/2021</td>
</tr>
<tr>
<td><strong>Site Name</strong></td>
<td><strong>Bakersfield-Westwind</strong></td>
<td></td>
<td></td>
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<tr>
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<td>--------------------------</td>
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<tr>
<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
<td>06-019-2019</td>
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<tr>
<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Kern</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>County</strong></td>
<td>Kern</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
<td></td>
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<tr>
<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>N/A</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Reporting Agency</strong></td>
<td>SJVAPCD</td>
<td></td>
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<tr>
<td><strong>Site Start Date</strong></td>
<td>01/01/2019</td>
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<tr>
<td><strong>Pollutant Parameters</strong></td>
<td>NO2</td>
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<td></td>
</tr>
<tr>
<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>2001 Westwind Drive, Bakersfield, CA 93301</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>35.37695278N -119.04388889W</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Distance to roadways (meters)</strong></td>
<td>16 to 19 meters</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Traffic Count/Year</strong></td>
<td>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</td>
<td></td>
<td></td>
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<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Paved</td>
<td></td>
<td></td>
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</tbody>
</table>
## Bakersfield-Westwind

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>NO₂</th>
<th>Meteorology</th>
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</thead>
<tbody>
<tr>
<td>Parameter code</td>
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<tr>
<td>Spatial scale</td>
<td>MC</td>
<td>N</td>
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<tr>
<td>Site type</td>
<td>HC</td>
<td>PE</td>
</tr>
<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>RS, TP</td>
</tr>
<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>Other</td>
</tr>
<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>Near-road</td>
<td>Near-road</td>
</tr>
<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>Other</td>
</tr>
<tr>
<td>POC</td>
<td>1</td>
<td>Many</td>
</tr>
<tr>
<td>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.”)</td>
<td>Primary</td>
<td>Other</td>
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<tr>
<td>Is it suitable for comparison against the annual PM₂.₅? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Analysis method</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
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<td>01/01/2019</td>
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<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
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<td>N/A</td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>NO₂</td>
<td>Meteorology</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
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<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g., Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
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<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
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<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>Audits for year 2020 postponed so far due to COVID-19.</td>
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<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Station was not in operation due to construction near site in 2020.</td>
<td>Station was not in operation due to construction near site in 2020. Station back online 2/2021</td>
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<tr>
<td>Site Name</td>
<td>Bakersfield-California</td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Bakersfield</td>
<td></td>
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<td>Kern</td>
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<td>Collecting (Operating) Agency</td>
<td>CARB</td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
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<tr>
<td>Reporting Agency</td>
<td>CARB</td>
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<td>Site Start Date</td>
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<td>Pollutant Parameters</td>
<td>Ozone, PM10 FRM, PM2.5 FRM, PM2.5 Non-FEM, NO2, Toxics, PM2.5 Speciation (STN, CSN Supplemental)</td>
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<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, sonic temperature, relative humidity</td>
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<td>Address</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>35.3566 N, -119.0626 W</td>
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<td>Distance to road</td>
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<td>Traffic Count/Year</td>
<td>36,207/2020 (Traffic count for roads: California Ave between Stockdale Hwy and Business Center Dr., Source: Kern Council of Governments.)</td>
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<td>Ground Cover</td>
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<td>Site type</td>
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<td>PE</td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS, TP</td>
<td>NC, RS</td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
<td>SLAMS</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
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<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
<td>FRM</td>
</tr>
<tr>
<td>POC</td>
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<td>1</td>
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<tr>
<td>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 &quot;N/A&quot;).</td>
<td>Primary</td>
<td>Primary</td>
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<td>Is it suitable for comparison against the annual PM2.5? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
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<td>Instrument manufacturer and model</td>
<td>Teledyne API 400E</td>
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<td>Analysis method</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>1:6</td>
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<td>Sampling season (MM/DD-MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe/Inlet height above ground (meters) (ground to rooftop = 4.1m)</td>
<td>7.2</td>
<td>5.62</td>
</tr>
<tr>
<td>Distance from supporting structure (above rooftop) (meters)</td>
<td>3.1</td>
<td>1.52</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>PM10 STP</td>
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<tr>
<td>-----------------------------------------------</td>
<td>-------</td>
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</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>5.5 rooftop access</td>
<td>7 rooftop access</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>1.2 H x 4.37 D Parapet</td>
<td>None</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>7 Samplers raised to parapet line negating parapet in line of site, raising dripline.</td>
<td>10.5</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
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<td>3</td>
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<tr>
<td>Distance between collocated monitors (meters)</td>
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<tr>
<td>Unrestricted airflow (degrees)</td>
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<td>360</td>
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<tr>
<td>Probe material (Teflon, etc.)</td>
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<td>9.2</td>
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<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>No</td>
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<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>PM10 STP</td>
</tr>
<tr>
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<td>-------</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
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<td>Monthly</td>
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<td>Frequency of flow rate verification for automated PM analyzers audit</td>
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<tr>
<td>Frequency of one-point QC check (gaseous)</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
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<td>Sampling suspended 12/20. Change for 2021: Continuous BAM installed, designated primary 4/20, Hi Vols terminated.</td>
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<td>QA Collocated</td>
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<td>11 &amp; 13 rooftop access</td>
<td>7.5 rooftop access</td>
<td>9.5 rooftop access</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
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<td>Parapet height of 1.1 m surrounding rooftop (1.2 H x 7.0 D)</td>
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<td>1.2 H x 7.0 D</td>
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<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
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<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
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<td>Unrestricted airflow (degrees)</td>
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<td>Probe material (Teflon, etc.)</td>
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<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the highvol? If yes, please list distance (meters) and instrument(s).</td>
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<td>Frequency of one-point QC check (gaseous)</td>
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<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
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## Bakersfield-Muni

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<tr>
<td>Instrument manufacturer and model</td>
<td>Teledyne API T265</td>
<td>Thermo 48i TLE</td>
<td>Teledyne API 200E</td>
<td>Entech 1900</td>
<td>Synspec Alpha 115</td>
<td>Many</td>
</tr>
<tr>
<td>Analysis method</td>
<td>Chemiluminescence</td>
<td>Non-dispersive IR</td>
<td>Chem.</td>
<td>GC / UV Absorption</td>
<td>TEI 55: Propane</td>
<td>Many</td>
</tr>
<tr>
<td>Method code</td>
<td>199</td>
<td>554</td>
<td>099</td>
<td>177 / 202</td>
<td>011</td>
<td>Many</td>
</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>06/01/2012</td>
<td>07/01/2012</td>
<td>07/01/2012</td>
<td>06/01/2012</td>
<td>10/01/2012</td>
<td>07/01/2012</td>
</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td>Hourly</td>
<td>1:3</td>
<td>Hourly</td>
<td>Hourly</td>
</tr>
<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>06/01 – 08/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
</tr>
<tr>
<td>Probe height (meters)</td>
<td>6.0 m</td>
<td>6.0 m</td>
<td>6.0 m</td>
<td>6.3 m</td>
<td>6.0 m</td>
<td>10 m</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>CO</td>
<td>NO₂</td>
<td>Speciated VOC</td>
<td>NMH</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-----------</td>
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<td>--------</td>
<td>--------</td>
<td>---------------</td>
<td>--------</td>
<td>-------------</td>
</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>2.1 m</td>
<td>2.1 m</td>
<td>2.1 m</td>
<td>2.4 m</td>
<td>2.1 m</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>Over 75 m</td>
<td>Over 75 m</td>
<td>Over 75 m</td>
<td>Over 75 m</td>
<td>Over 75 m</td>
<td>Over 75 m</td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>350</td>
<td>350</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>Stainless Steel</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
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<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>13.23</td>
<td>13.84</td>
<td>13.41</td>
<td>4</td>
<td>6.95</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
<td>Daily</td>
<td>N/A</td>
</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>CO</td>
<td>NO₂</td>
<td>Speciated VOC</td>
<td>NMH</td>
<td>Meteorology</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
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<td>-------------</td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol?</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>3/10/2020</td>
<td>3/10/2020</td>
<td>3/10/20</td>
<td>N/A</td>
<td>N/A</td>
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<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
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<td>N</td>
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<td>N</td>
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<tr>
<td>Site Name</td>
<td>Bakersfield-Airport (Planz)</td>
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<tr>
<td>---------------------------</td>
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<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-029-0016</td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Bakersfield</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>County</td>
<td>Kern</td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>CARB</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reporting Agency</td>
<td>CARB</td>
<td></td>
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<tr>
<td>Site Start Date</td>
<td>09/19/2000</td>
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<tr>
<td>Pollutant Parameters</td>
<td>PM2.5 FRM</td>
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<tr>
<td>Meteorological Parameters</td>
<td>None</td>
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<tr>
<td>Address</td>
<td>401 E. Planz Rd., Bakersfield CA 93307</td>
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<tr>
<td>GPS Coordinates (decimal degrees)</td>
<td>35.3246 N, -118.9976 W</td>
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<tr>
<td>Distance to road</td>
<td>500 m (west)</td>
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<tr>
<td>Traffic Count/Year</td>
<td>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)</td>
<td></td>
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<tr>
<td></td>
<td>1,334 / 2020 (Traffic count for monitoring station’s street address) Source: Kern Council of Governments)</td>
<td></td>
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<tr>
<td>Ground Cover</td>
<td>Paved</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td></td>
<td></td>
<td></td>
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<td>Parameter code</td>
<td>88101</td>
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<tr>
<td>Spatial scale</td>
<td>N</td>
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<tr>
<td>Site type</td>
<td>HC, PE</td>
<td></td>
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<tr>
<td>Basic monitoring objective(s)</td>
<td>NC, RS</td>
<td></td>
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<tr>
<td>Monitor type</td>
<td>SLAMS</td>
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<tr>
<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td></td>
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<tr>
<td>FRM/FEM/ARM/Other</td>
<td>FRM</td>
<td></td>
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<tr>
<td>POC</td>
<td>1</td>
<td></td>
<td></td>
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<tr>
<td>Primary / QA Collocated / Other</td>
<td>Primary</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instrument manufacturer and model</td>
<td>R&amp;P 2025</td>
<td></td>
<td></td>
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<tr>
<td>Analysis method</td>
<td>Gravimetric</td>
<td></td>
<td></td>
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<tr>
<td>Method code</td>
<td>145</td>
<td></td>
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</tr>
<tr>
<td>Monitoring start date (MM/DD/YYYY)</td>
<td>09/19/2000</td>
<td></td>
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</tr>
<tr>
<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>1:3</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Sampling season</td>
<td>01/01 – 12/31</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Probe Inlet height above ground (meters)</td>
<td>2.0</td>
<td></td>
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</tr>
<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance between collocated monitors (meters)</td>
<td>None</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Probe material (Teflon, etc.)</td>
<td>N/A</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Residence time (seconds)</td>
<td>N/A</td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Pollutant</td>
<td>PM2.5</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>-------------------------------</td>
<td></td>
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</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>Monthly</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>N/A</td>
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<tr>
<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>3/11/20, 11/4/20</td>
<td></td>
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</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>Plans are to acquire a platform to raise the sampler off of the tarmac.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site Name</td>
<td>Edison</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>---------------------------</td>
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<tr>
<td>AQS ID (XX-XXX-XXXX)</td>
<td>06-029-0007</td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Bakersfield</td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>County</td>
<td>Kern</td>
<td></td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>CARB</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
<td>N/A</td>
<td></td>
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<td>Reporting Agency</td>
<td>CARB</td>
<td></td>
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<tr>
<td>Site Start Date</td>
<td>01/01/1980</td>
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<td>Pollutant Parameters</td>
<td>Ozone, NO₂</td>
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</tr>
<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outside temperature, relative humidity</td>
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<tr>
<td>Address</td>
<td>Johnston Farm, Edison, CA 93320</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>35.34561 N, -118.85183 W</td>
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<tr>
<td>Distance to road</td>
<td>450 m (south)</td>
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<td>Traffic Count/Year</td>
<td>2,753/2020 (Traffic count for nearest roads: Edison Hwy. and Comanche Dr., Source: Kern Council of Governments)</td>
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</tr>
<tr>
<td>Ground Cover</td>
<td>Dirt, vegetative</td>
<td></td>
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</tr>
<tr>
<td>Pollutant</td>
<td>Ozone</td>
<td>NO₂</td>
<td>Meteorology</td>
<td></td>
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<td>GB</td>
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<td>RS, TP</td>
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<td>FRM/FEM/ARM/Other</td>
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<td>Primary / QA Collocated / Other (provide for all PM&lt;sub&gt;2.5&lt;/sub&gt;, PM&lt;sub&gt;10&lt;/sub&gt;, PM&lt;sub&gt;10-2.5&lt;/sub&gt;, Pb and NO₂ monitors. Non-PM, Pb, NO₂ monitors should be listed as “N/A”).</td>
<td>Primary</td>
<td>Primary</td>
<td>Other</td>
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<td>Is it suitable for comparison against the annual PM&lt;sub&gt;2.5&lt;/sub&gt;? (Y/N)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Instrument manufacturer and model</td>
<td>Teledyne API 400</td>
<td>Teledyne API 200E</td>
<td>RM Young 81000, Vaisala HMP 155</td>
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<td>099</td>
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<td>01/01/1981</td>
<td>01/01/1980</td>
<td>01/01/1995</td>
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<td>Hourly</td>
<td>Hourly</td>
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<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe/Inlet height above ground (meters)</td>
<td>5.4</td>
<td>5.4</td>
<td>10 (OT 2.1 m)</td>
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<tr>
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<td>1.5</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>16.1 (11.0 m to dripline)</td>
<td>16.1 (11.0 m to dripline)</td>
<td>18.5</td>
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<td>Distance to furnace or incinerator flue (meters)</td>
<td>None</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance between collocated monitors (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
<td>360</td>
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<td>NO$_2$</td>
<td>Meteorology</td>
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<td>Probe material (Teflon, etc.)</td>
<td>Teflon</td>
<td>Teflon</td>
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<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<td></td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Daily</td>
<td>Daily</td>
<td>N/A</td>
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<td>not audited in 2020</td>
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<td>N/A</td>
<td>N/A</td>
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<td>Changes planned within the next 18 months (Y/N)</td>
<td>Changes proposed: External only, to install stair access to roof/railing</td>
<td>Changes proposed: External only, to install stair access to roof/railing</td>
<td>Changes proposed: External only, to install stair access to roof/railing</td>
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<tr>
<td>Site Name</td>
<td>Arvin-Di Giorgio</td>
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<td><strong>Site Name</strong></td>
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<td>AQS ID (XX-XXX-XXXX)</td>
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<td>Bakersfield</td>
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<td>County</td>
<td>Kern</td>
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<td>CARB</td>
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<td>Reporting Agency</td>
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<td><strong>Meteorological Parameters</strong></td>
<td>Outdoor temperature, wind speed, wind direction, sonic temperature, relative humidity</td>
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<td><strong>Address</strong></td>
<td>19405 Buena Vista Blvd, Arvin CA 93203</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>35.2391 N, -118.7886 W</td>
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<td><strong>Distance to road</strong></td>
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<td>Traffic Count/Year</td>
<td>394 / 2020 (Traffic count for Buena Vista Blvd east of Tejon Hwy., Source: Kern Council of Governments.)</td>
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<td>Ground Cover</td>
<td>Dirt, vegetative</td>
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<td>SLAMS (WD, WS), Other (OT, RH)</td>
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<td>FRM/FEM/ARM/Other</td>
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<td>Other</td>
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<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”.)</td>
<td>Primary</td>
<td>Other</td>
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<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
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<td>N/A</td>
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<td>Instrument manufacturer and model</td>
<td>Teledyne API 400E</td>
<td>RM Young 81000, Vaisala HMP155</td>
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<td>087</td>
<td>Many</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe height (meters)</td>
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<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>None</td>
<td>None</td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>&gt;10</td>
<td>18.5</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Distance between collocated monitors (meters)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Unrestricted airflow (degrees)</td>
<td>360</td>
<td>360</td>
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<td>Probe material (Teflon, etc.)</td>
<td>TEFLON</td>
<td>TEFLON</td>
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<tr>
<td>Residence time (seconds)</td>
<td>5.6</td>
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<td>Ozone</td>
<td>Meteorology</td>
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<td>-----------------------------------------------------------------------</td>
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</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers audit</td>
<td>N/A</td>
<td>N/A</td>
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<td>Frequency of flow rate verification for automated PM analyzers audit</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Frequency of one-point QC check (gaseous)</td>
<td>Daily</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Last Annual Performance Evaluation (gaseous)</td>
<td>9/5/20</td>
<td>N/A</td>
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<td>Last two semi-annual flow rate audits for PM monitors</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>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.</td>
<td>Plans are to install a new, permanent monitoring shelter within the next 18 months.</td>
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<tr>
<td><strong>Site Name</strong></td>
<td><strong>Maricopa</strong></td>
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<td><strong>AQS ID (XX-XXX-XXXX)</strong></td>
<td>06-029-0008</td>
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<td><strong>Representative statistical area Name (i.e. MSA, CBSA, other)</strong></td>
<td>Bakersfield</td>
<td></td>
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<tr>
<td><strong>County</strong></td>
<td>Kern</td>
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<tr>
<td><strong>Collecting (Operating) Agency</strong></td>
<td>SJVAPCD</td>
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<td><strong>Analytical Lab (i.e. weigh lab, toxics lab, other)</strong></td>
<td>N/A</td>
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<td><strong>Reporting Agency</strong></td>
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<tr>
<td><strong>Meteorological Parameters</strong></td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
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<td><strong>GPS Coordinates (decimal degrees)</strong></td>
<td>35.0515 N, -119.4026 W</td>
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<td>491/2021 (Traffic count for nearest roads: Union St. at California St., Source: Kern Council of Governments.)</td>
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<tr>
<td><strong>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</strong></td>
<td>Gravel, dirt, vegetative</td>
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<td>Pollutant</td>
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<td>NC, RS, TP</td>
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<td>Network affiliation(s), if applicable (a monitor may have none, one, or multiple)</td>
<td>None</td>
<td>None</td>
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<td>FRM/FEM/ARM/Other</td>
<td>FEM</td>
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<tr>
<td>Primary / QA Collocated / Other (provide for all PM$<em>{2.5}$, PM$</em>{10}$, PM$_{10-2.5}$, Pb and NO$_2$ monitors. Non-PM, Pb, NO$_2$ monitors should be listed as “N/A”.)</td>
<td>N/A</td>
<td>Other</td>
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<td>Is it suitable for comparison against the annual PM$_{2.5}$? (Y/N)</td>
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<td>N/A</td>
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<td>Analysis method</td>
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<td>07/01/1987</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
<td>Hourly</td>
<td></td>
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<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 – 12/31</td>
<td>01/01 – 12/31</td>
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<td>Probe height (meters)</td>
<td>4.1 m</td>
<td>10 m</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.0 m</td>
<td>N/A</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>3 m H 0.5 m V</td>
<td>N/A</td>
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<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>17 m H 1 m V</td>
<td>N/A</td>
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<td>Distance from the drip line of closest tree(s)</td>
<td>18 m H 8 m V</td>
<td>20 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
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<td>360</td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>Teflon/Pyrex with Borosilicate</td>
<td>N/A</td>
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<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>8.24</td>
<td>N/A</td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>Daily</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lovol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the hivol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
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<td>8/26/2020</td>
<td>N/A</td>
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<td>N/A</td>
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<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
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<td><strong>Site Name</strong></td>
<td>Lebec</td>
<td></td>
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<td>AQS ID (XX-XXX-XXXX)</td>
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<td>Representative statistical area Name (i.e. MSA, CBSA, other)</td>
<td>Bakersfield</td>
<td></td>
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<tr>
<td>County</td>
<td>Kern</td>
<td></td>
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<tr>
<td>Collecting (Operating) Agency</td>
<td>SJVAPCD</td>
<td></td>
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<tr>
<td>Analytical Lab (i.e. weigh lab, toxics lab, other)</td>
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<td>Site Start Date</td>
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<td>Pollutant Parameters</td>
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<tr>
<td>Meteorological Parameters</td>
<td>Wind speed, wind direction, outdoor temperature, barometric pressure</td>
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<tr>
<td>Address</td>
<td>1277 Beartrap Road, Lebec, CA 93243</td>
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<td>GPS Coordinates (decimal degrees)</td>
<td>34.8415N, -118.8610W</td>
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<td>Distance to roadways (meters)</td>
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<td>494/2018 (Traffic count for nearest roads: Lebec Rd near Interstate 5, Source: Kern Council of Governments.)</td>
<td></td>
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<td>Groundcover (e.g. paved, vegetative, dirt, sand, gravel)</td>
<td>Gravel, vegetative</td>
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<td>Lebec</td>
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<td>Site type</td>
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<td>FRM/FEM/ARM/Other</td>
<td>Non-FEM</td>
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<td>POC</td>
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<td>Primary / QA Collocated / Other (provide for all PM(<em>{2.5}), PM(</em>{10}), PM(_{10-2.5}), Pb and NO(_2) monitors. Non-PM, Pb, NO(_2) monitors should be listed as &quot;N/A&quot;.)</td>
<td>Primary</td>
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<td>Is it suitable for comparison against the annual PM(_{2.5})? (Y/N)</td>
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<td></td>
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<td>Instrument manufacturer and model</td>
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<td>Beta Attenuation</td>
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<td>Monitoring start date (MM/DD/YYYY)</td>
<td>01/27/2009</td>
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<td>Required sampling frequency (e.g. 1:3 excluding exceptional events/1:1 including exceptional events)</td>
<td>Hourly</td>
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<tr>
<td>Sampling season (MM/DD - MM/DD)</td>
<td>01/01 - 12/31</td>
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<td>Probe height (meters)</td>
<td>4.62 m</td>
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<tr>
<td>Distance from supporting structure (vertical and horizontal, if applicable, should be provided)</td>
<td>1.98 m</td>
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<tr>
<td>Distance from obstructions on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distance from obstructions not on roof. Include horizontal distance + vertical height above probe for obstructions nearby. (meters)</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Distance from the drip line of closest tree(s)</td>
<td>200 m</td>
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<tr>
<td>Distance to furnace or incinerator flue (meters)</td>
<td>N/A</td>
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<tr>
<td>Distance between monitors fulfilling a QA collocation requirement (meters).</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Unrestricted airflow (degrees around probe/inlet or percentage of monitoring path)</td>
<td>360</td>
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<td>PM2.5</td>
<td>Meteorology</td>
<td></td>
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<tr>
<td>Probe material for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (e.g. Pyrex, stainless steel, Teflon)</td>
<td>N/A</td>
<td>N/A</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Residence time for reactive gases NO/NO₂/NOₓ, SO₂, O₃; PAMS: VOCs, Carbonyls (seconds)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
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<tr>
<td>Frequency of one-point QC check for gaseous instruments</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency of flow rate verification for manual PM samplers, including Pb samplers (routine checks)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Frequency of flow rate verification for automated PM analyzers (routine checks)</td>
<td>Monthly</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For low volume PM instruments (flow rate &lt; 200 liters/minute), is any PM instrument within 1 m of the lowvol? If yes, please list distance (meters) and instrument(s).</td>
<td>No</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For high volume PM instrument (flow rate &gt; 200 liters/minute), is any PM instrument within 2m of the highvol? If yes, please list distance (meters) and instrument(s).</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Date of Annual Performance Evaluation conducted in the past calendar year for gaseous parameters (MM/DD/YYYY)</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td></td>
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<tr>
<td>Date of two semi-annual flow rate audits conducted in the past calendar year for PM monitors (MM/DD/YYYY, MM/DD/YYYY)</td>
<td>9/15/2020, 10/27/2020</td>
<td>N/A</td>
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<tr>
<td>Changes planned within the next 18 months (Y/N)</td>
<td>N</td>
<td>N</td>
<td></td>
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</tr>
</tbody>
</table>
APPENDIX C:

San Joaquin Valley Air Pollution Control District Notice of Public Inspection Period on the 2021 Air Monitoring Network Plan
Appendix C: San Joaquin Valley Air Pollution Control District Notice of Public Inspection Period on the 2021 Air Monitoring Network Plan
2021 Air Monitoring Network Plan
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
AVISOS 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.
APPENDIX D:

Comments and Responses
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Appendix E: Comments and Responses

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