Exceptional Event Documentation

Bakersfield, California April 11, 2010



San Joaquin Valley Unified Air Pollution Control District

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Executive Summary

The analysis in this report demonstrates that the exceedances of the PM10 National Ambient Air Quality Standard (NAAQS) recorded on April 11, 2010 were caused by unusually strong winds, and therefore qualify as an Exceptional Event under the Clean Air Act. Without the winds PM10 levels were expected to be between 19 μ g/m³ and 38 μ g/m³.

A strong low pressure system approached the northwestern California coast on April 11 and caused the high wind event. Strong and gusty south-southeasterly winds developed and flowed downslope off the Tehachapi Mountains into the southern San Joaquin Valley. Initially, the strong south-southeasterly winds over the valley portion of Kern County entrained and transported dust to the Bakersfield-California monitor. Between 11:00 AM PST and 4:00 PM PST, wind speeds at the monitoring site were sufficient enough to entrain and cause elevated PM10 levels. The wind storm overwhelmed the San Joaquin Valley Air Pollution Control District's rigorous particulate matter emission controls and led to historically high PM10 concentrations in the Bakersfield area. The PM10 measurement on April 11 was the 2nd highest measurement ever recorded at the site since monitoring began in 1994. The exceedances of the NAAQS would not have occurred but for the wind event.

Table ES-1: 24-hour Average PM10 Concentrations, April 11, 2010

(Real-time Monitor)

Site	PM10
Olle	Concentration
Bakersfield-California	238 μg/m³

This report meets all U.S. Environmental Protection Agency (EPA) documentation standards for Exceptional Events (see Section 1). Pursuant to federal regulations, with EPA concurrence, the April 11, 2010 PM10 measurement shown in Table ES-1 would be excluded from consideration regarding the NAAQS (40 Code of Federal Regulations (CFR) 50.14(b)) and any other regulatory purposes.

Section 1: Meeting Federal Requirements for Exceptional Events

EPA's *Treatment of Data Influenced by Exceptional Events* rule (codified in 40 CFR 50) describes the requirements for exceptional events flagging and documentation. The District meets all of these procedural and documentation requirements.

1.1: Procedural Requirements

1. Public notification that event was occurring $(40 \ CFR \ 50.14(c))$

The District issued a press release on April 11, 2010 at 2:00 PM PDT highlighting elevated PM10 levels due to high winds (see Appendix C).

2. Place informational flag on data in the Air Quality System (AQS) (40 CFR 50.14(c)(2)(i))

The District submits real-time data into AQS. Once the data is in AQS, if the District's preliminary analysis supports influence from an exceptional event, the District submits a preliminary flag into AQS. The data is not official until it undergoes more thorough quality assurance and quality control, leading to certification by May 1 of the year following the calendar year in which the data was collected (40 CFR 58.15(a)(2)). The event is not official until the exceptional event documentation is approved by EPA. An AQS printout showing that the data has been flagged is in Appendix H.

3. Notify EPA of intent to flag through submission of initial event description by July 1 of calendar year following event (40 CFR 50.14(c)(2)(iii))

Shortly after the date of the event in question, the District notified EPA of the Exceptional Event via phone call. The District submitted a letter to the California Air Resources Board (CARB) on May 2, 2011 listing the days the District intended to analyze under the exceptional events policy (see Appendix A). The April 11, 2010 PM10 high wind event was included on this list. CARB then sent the District's list to EPA.

4. Document that the public comment process was followed for event documentation (40 CFR 50.14(c)(3)(v))

The District conducted a 30-day public comment period on this document from September 1, 2011 through October 1, 2011. Public notice was published in Valley newspapers and on the District website. Evidence of this notice can be found in Appendix I.

5. Submit demonstration supporting exceptional event (40 CFR 50.14(a)(1-2))

This document is intended to satisfy this requirement.

1.2: Documentation Requirements

6. Provide evidence that the event satisfies "exceptional event" criteria set forth in 40 CFR 50.1(j) (40 CFR 50.14(c)(3)(iv)(A))

See Sections 2 and 3 of this document.

According to 40 CFR 50.1(j), also Clean Air Act (CAA) Section 319, an exceptional event meets all of the following criteria:

- a. Is not reasonably controllable or preventable (See Section 2 of this document)
- b. Affects air quality (See Section 3 of this document)
- c. Is caused by either (1) human activity that is unlikely to recur at a particular location or (2) a natural event (See Section 3 of this document)
- d. Is determined by EPA to be in accordance with 40 CFR 50.14 to be an exceptional event (Pending EPA concurrence upon receipt of this document)
- 7. There is a clear, causal relationship between the measurement under consideration and the event $(40 \ CFR \ 50.14(c)(3)(iv)(B))$

See Section 3 of this document.

8. Provide evidence that the event is associated with a measured concentration in excess of normal, historical fluctuations (40 CFR 50.14(c)(3)(iv)(C))

See Section 4 of this document.

9. Provide evidence that there would have been no exceedance or violation but for the event (the "but for" test) (40 CFR 50.14(c)(3)(iv)(D))

See Section 4 of this document.

Section 2: Air Pollutant Controls in the San Joaquin Valley

This section satisfies the following federal requirement:

An exceptional event is one that is not reasonably controllable or preventable (40 CFR 50.14(c)(3)(iv)(A) and 40 CFR 50.1(j))

While high winds are not controllable, particulate matter emissions have been stringently controlled by the San Joaquin Valley Air Pollution Control District (District) in order to reduce PM10 levels. The District's air pollution controls are recognized as some of the toughest in the nation. Most notable among the District's PM controls:

- Regulation VIII (Fugitive PM10 Prohibitions), which requires actions to prevent, reduce, and mitigate anthropogenic fugitive dust emissions.
- Rule 4103 (Open Burning), which prohibits the burning of most agricultural waste materials and severely restricts the burning of the non-prohibited material, in conjunction with the District's Smoke Management Program.
- Rule 4106 (Prescribed Burning and Hazard Reduction Burning), which assures that the controlled burning of forest and rangeland residue in the District's foothills and mountains is conducted in a way to prevent air quality problems.
- Rule 4550 (Conservation Management Practices), which limits fugitive dust emissions from agricultural operations.
- Rule 4901 (Wood Burning Fireplaces and Wood Burning Heaters), which restricts wood burning when ambient PM10 concentrations reach or exceed 135 μg/m³ or ambient PM2.5 concentrations reach or exceed 30 μg/m³ between November 1 and February 28.

Recognizing the effectiveness of the District's PM control measures, EPA approved the District's PM10 control strategy as Best Available Control Measures (BACM) in its May 26, 2004 approval of the *2003 PM10 Plan* (69 *FR* 30035). EPA reiterated this BACM approval in its November 12, 2008 approval of the District's *2007 PM10 Maintenance Plan*, noting that EPA had also approved many of the District's individual rules as BACM since the *2003 PM10 Plan* (73 *FR* 66766). In addition, PM and PM precursors continue to be further controlled in the Valley through the District's ongoing planning and regulatory efforts, including the *2007 Ozone Plan*, the *2008 PM2.5 Plan*, and the resulting control measures.

The District's BACM and other control measures have significantly reduced ambient PM10 concentrations and allowed the San Joaquin Valley Air Basin to attain the PM10 NAAQS. The District's BACM-level pollution controls are designed for the typical range of climate conditions in the San Joaquin Valley. For a natural event to overwhelm these controls, the characteristics of the event - by definition - must be outside the norm. Since the District's controls are considered Best Available Control Measures and because the controls were in place at the time, the dust entrained on April 11, 2010 was clearly not reasonably controllable or preventable.

Human activities that generated PM10 emissions were approximately constant before, during and after the April 11, 2010 wind event (Table 3-4), indicating that the sudden increase in PM10 concentrations was not driven by human activity. Based on a survey of the available information, there is no evidence of unusual anthropogenic emissions on April 11, 2010.

Pursuant to District Rule 4103 and the District's Smoke Management Program, agricultural burning was authorized in the San Joaquin Valley on April 11, 2010. No burning was authorized upwind of the Bakersfield-California monitoring site on that day. The District authorized a total of 5.9056 tons of PM10 emissions on this day in the northern and western parts of Kern County, Tulare, Kings, Fresno, Madera, Merced, Stanislaus, and San Joaquin Counties. The wind flow from the south-southeast on April 11, 2010 carried any emissions from agricultural burning away from the Bakersfield area.

Typical April farming operations in Kern County include harvesting of annual winter crops, spring land preparation practices for permanent crops and annual summer crops to increase irrigation water infiltration into the soil (reduce soil compaction), reduce and prevent weed growth and weed competition with the desired crops, and to condition the soil for seed bed preparation for summer annual plantings. The San Joaquin Valley Air Pollution Control District has several effective fugitive dust control measures in place. Examples are District Rule 8061 (Paved and Unpaved Roads) and Rule 8081 (Agricultural Sources). These rules establish fugitive dust control requirements to stabilize non-field surfaces of paved and unpaved roads, vehicle and equipment parking and traffic areas, vehicle carryout / trackout, and bulk material piles. District Rule 4550 (Conservation Management Practices) for agricultural operations implements multiple fugitive dust control measures for land preparation/cultivation, harvest activities, unpaved roads and equipment yards, and other cultural practices that minimize PM10 emissions.

The above practices are applied as an industry standard and they sufficiently control dust under the San Joaquin Valley's typical range of weather patterns. Exceptions to fugitive dust control may occur when unusual weather conditions overwhelm properly applied and timed dust control practices.

Additionally, a summary of the District's compliance inspections, and a video image on April 11, 2010 is shown in Appendix E.

Section 3: PM10 concentrations were caused by a natural high wind event

This section satisfies the following federal requirements:

- The event was caused by a natural event (40 CFR 50.14(c)(3)(iv)(A) and 40 CFR 50.1(j),
- The event affected air quality (40 CFR 50.14(c)(3)(iv)(A) and 40 CFR 50.1(j),
- There is a clear, causal relationship between the measurement under consideration and the event (40 CFR 50.14(c)(3)(iv)(B))

On April 11, 2010, a high wind event caused the entrainment and transport of geologic particulate matter (PM) from the southern San Joaquin Valley through the Bakersfield area. Reports of blowing dust in the Bakersfield area occurred as a result of the wind storm. The southern and southeastern portions of the San Joaquin Valley were affected by this event, particularly the Bakersfield area (see Figure 1).

According to T&B Systems analysis of the California Regional Particulate Air Quality Study (CRPAQS) study area:

"There is evidence that winds at speeds of approximately 8 m/s [meters per second; 8 m/s is approximately 17.9 miles per hour (mph)] or greater can contribute to coarse particulate concentrations. ... there are indications that higher gusts associated with lower wind speeds (e.g. 10 m/s [22.3 mph] gusts when average wind speeds are closer to 6 m/s [13.4 mph]) may provide explanations for higher coarse mass concentrations" (T&B Systems, 2004, p 4).

This report concluded that wind speeds of 8 m/s (17.9 mph) could be sufficient to entrain surface soil into the atmosphere. The District used this speed as an indicator of the potential for dust entrainment during high wind events.

There are many sources of documentation that may be used to establish an exceptional event:

- Meteorological data (e.g., wind speed and wind direction to support a source receptor relationship)
- Modeling and receptor analysis
- Videos and/or photographs of the event and the resulting emissions
- Maps of the areas showing sources of emissions and the area affected by the event
- Media accounts of the event

Initially, the strong winds from the south-southeast over the valley portion of Kern County entrained and transported dust to the Bakersfield-California monitor. Between 11:00 AM PST and 4:00 PM PST, wind speeds at the monitoring site were sufficient enough to entrain and cause elevated PM10 levels.

3.1: A natural event of high winds occurred on April 11, 2010

As shown in Figure 1, the San Joaquin Valley is a distinct inter-mountain valley in Central California, oriented southeast to northwest, with the slightly higher end of the valley closer to Los Angeles and the low end at the Sacramento-San Joaquin River Delta near San Francisco. The Valley is bounded by the Sierra Nevada range to the east, the Temblor and Coastal ranges to the west and the Tehachapi and San Emigdio ranges to the south. The floor of the San Joaquin Valley is approximately 200 miles long and 80 miles wide on average. In April of each year, the wind direction is generally from the northwest, following the orientation of the valley and Sierra Nevada Mountains.



Figure 1: Map showing San Joaquin Valley

A strong low pressure system approached the northwestern California coast on April 11 and caused the high wind event. Strong and gusty winds developed from the southsoutheast and flowed downslope off the Tehachapi Mountains into the southern San Joaquin Valley. A cold front passed through the region during the evening of April 11. There was a significant drop in temperature over just a two day period, from April 10 through April 12 (shown in Table 3-1) which demonstrates the change in the weather pattern that occurred.

Table 3-1: Drop in maximum temperature surrounding the event						
	April 9	April 10	April 11	April 12		
Bakersfield	74	74	68	64		

Area in maximum temperature autrounding the event

Strong winds that occurred on April 11 were sufficient enough to entrain dust into the atmosphere and transport and deposit it in Bakersfield and other parts of the southern San Joaquin Valley from between 10:00 AM PST until 8:00 PM PST. The wind speed measured at the Bakersfield California air monitoring station (10 meters Above Ground Level (AGL)) was high enough to entrain dust shortly after 11:00 AM PST. A peak hourly wind speed of 20.7 mph (see Table 3-2 and Appendix F) was observed at the Bakersfield-California monitor at 12:00 and 2:00 PM PST.

The surface observations from Bakersfield Meadows Airport listed in Table 3-3 and Appendix F show that on April 11, 2010, winds from the south-southeast in the Bakersfield area were at speeds of 17 mph or greater from 10:54 AM to 7:05 PM PST, with a peak wind speed of 35 mph at 1:39 PM PST and 1:54 PM PST, and a peak wind gust of 46 mph at 12:12 PM PST and 12:54 PM PST. The dust plume continued northnorthwestward where it was deposited. The real-time PM10 monitor at Corcoran measured an elevated PM10 measurement of 428 μ g/m³ at 2:00 PM PST. The rest of the available Corcoran PM10 hourly measurements were below the PM10 NAAQS (the Corcoran PM10 monitor experienced a power outage between 5:00 PM PST and 9:00 PM PST). In reviewing local visibility observations at Hanford and Lemoore and the real-time PM10 data from Corcoran, only a few hours may have been impacted by dust deposition.

On April 11, 2010 strong and gusty winds observed to the south-southeast of Bakersfield and at the monitoring site resulted in the entrainment and transport of blowing dust across the southern portion of the Valley.

3.2: The high winds affected air quality

PM10 concentrations were at their highest for the week on April 11, 2010, as shown in Table 3-4. In Bakersfield, PM10 concentrations were well below the PM10 NAAQS from April 8 through April 10, 2010. A strong low pressure system approached the northwestern California coast on April 11 and generated winds sufficient enough to cause blowing dust in the southern San Joaquin Valley. The high wind event caused elevated PM10 levels at the Bakersfield monitoring station. The cold front arrived in Bakersfield around 7:00 PM PST, bringing precipitation and better dispersion to the area. Shortly thereafter, PM10 levels dropped significantly upon frontal passage.

Table 3-2: High winds across the southern and southeastern San Joaquin Valley caused PM10 concentrations to increase at Bakersfield on April 11, 2010.

	High v of the	High wind area south of the source region		Source region South- 1 southeast of Bakersfield		18 miles to the southeast of Bakersfield				
Hour (PST)	Grapevin Wind Spee and Wind (mph) at 10		Speed (mph) Wind Gust at 10 m AGL		Speed Speed h) and d Gust at 10 m	Arvin-Bear Mountain Blvd Wind Speed (mph) and Wind Direction at 10 m AGL		Bakersfield - California Wind Speed (mph) and Wind Direction at 10 m AGL		Bakersfield PM10 (µg/m3)
	Wind Speed (mph)	Wind Gust (mph)	Wind Direction	Wind Speed (mph)	Wind Direction	Wind Speed (mph)	Wind Direction	Wind Speed (mph)	Wind Direction	
0	21	32	SSE	9	NW	2.3	ENE	3.5	N	23
1	26	34	S	7	SW	1.2	S	2.3	NW	31
2	31	39	S	7	WSW	2.3	SE	2.3	WNW	28
3	24	43	S	11	W	2.3	SE	2.3	W	29
4	18	34	SSE	9	W	2.3	S	2.3	E	33
5	26	35	SSE	6	SW	2.3	SE	2.3	Е	40
6	30	39	SSE	3	SE	3.5	ENE	3.5	ESE	36
7	32	47	S	8	SW	2.3	NNE	2.3	ESE	38
8	42	50	S	6	NNW	2.3	Ν	3.5	SSE	39
9	47	58	S	8	NW	4.6	Ν	4.6	SSE	67
10	47	58	S	9	NW	4.6	NNE	12.7	SSE	242
11	50	61	S	19	S	4.6	SSE	17.3	SSE	765
12	45	64	S	22	ESE	16.1	S	20.7	SSE	1000
13	43	61	S	27	SE	17.3	S	19.6	SSE	925
14	42	59	S	19	SE	20.7	S	20.7	SSE	654
15	30	55	S	19	S	28.8	SSE	17.3	SSE	482
16	38	52	S	23	SE	31.1	SSE	18.4	SSE	418
17	35	53	S	21	SE	29.9	SSE	13.8	SSE	430
18	32	50	S	28	SE	24.2	SSE	5.8	SSE	372
19	28	57	S	14	SE	17.3	S	11.5	NW	24
20	5	33	ESE	26	NW	4.6	N	5.8	NNW	12
21	7	10	NNE	6	N	4.6	E	3.5	ENE	11
22	1	8	N	6	SE	4.6	E	6.9	ESE	9
23	6	18	SW	12	SE	6.9	E	5.8	ESE	4
								24 Hou	r Average	238

Hour 0 is Midnight to 1 AM, Pacific Standard Time. Wind data from Grapevine Peak and Grapevine was obtained through the MesoWest website <u>http://www.met.utah.edu/mesowest/</u>. Grapevine Peak is logged hourly based on a 10-minute average from no less than 120 samples. Grapevine data is the measurement taken at the 53rd minute. When the 53rd minute was unavailable, the 54th minute was used instead. Arvin-Bear Mountain Blvd and Bakersfield-California data are hourly averages and wind speeds in knots have been converted to mph.

		Bakers	Bakersfield-		
Hour (PST)	Bakersfield PM10 (μg/m ³)	Wind Speed (mph)	Wind Gust (mph)	Wind Direction	Meadows Airport Weather Observation
		;	at 10 meters AG	L	
0	23	8		N	Clear
1	31	8		NNE	Clear
2	28	3		N	Clear
3	29	Calm			Clear
4	33	Calm			Clear
5	40	5		SE	Clear
6	36	Calm			Clear
7	38	6		ESE	Clear
8	39	6		SE	Clear
9	67	8		S	Clear
10	242	14	23	S	Haze
11	765	24	39	SSE	Haze
12	1000	32	39	SSE	Haze
13	925	31	46	SSE	Haze
14	654	35	43	SSE	Haze
15	482	29	43	SSE	Haze
16	418	28	41	SSE	Haze
17	430	26	36	SSE	Haze
18	372	18	24	SSE	Haze
19	24	26	32	WNW	Light Rain
20	12	16	24	NNW	Light Rain
21	11	12	18	N	Rain
22	9	8		SE	Rain
23	4	17	23	E	Rain
24 Hour	238				

Table 3-3: Bakersfield	Hourly PM10	concentrations	increased wit	h wind speed
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Average

Table 3-4:	24-hour average	PM10	concentrations,	μg/m ³
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Monitoring site	Apr.						
Stockton – Wagner Holt	14	9	10		12	13	15
Stockton – Hazelton	20						15
Tracy	18	18	21	18	6	11	15
Modesto – 14 th							14
Turlock	20						16
Merced – M Street	17						14
Clovis – Villa	21						12
Fresno – First Street	15						11
Fresno – Drummond	43						16
Hanford	20						17
Santa Rosa Rancheria	19						16
Corcoran	24	27	34	59	11		
Corcoran (Filter Based) ¹	26					12	18
Visalia – Church	25						19
Oildale	37						22
Bakersfield – California	37	40	41	238	16	14	32
Bakersfield – California	32*						29
(Filter Based) ¹							
¹ Primary analyzers take precedence over secondary analyzers when multiple data are available.							

(All real-time PM10 concentrations are collected under local conditions)

3.3: The high winds caused the exceedance

Section 3.1 showed that there was a natural event of high winds on April 11, 2010. Section 3.2 showed that high PM10 concentrations were elevated at the time of the high wind event. The analysis below shows that the high winds caused the PM10 exceedance.

3.3.1: Wind and PM10 data, hour-by-hour

The hourly PM10 concentrations and wind data recorded on April 11 indicates that Bakersfield was initially impacted by upwind geologic material transported by high winds occurring in the south and southeastern portion of the San Joaquin Valley before the peak winds arrived in Bakersfield. Bakersfield was later impacted by material that was entrained by strong local winds (see Table 3-2 and Figure 2). As presented in Section 3.3.2, the NAM model forward trajectory analysis shows that early morning winds south and southeast of Bakersfield were sufficient to entrain and transport PM to Bakersfield by the time of the exceedance.

Southerly winds at Grapevine Peak (elevation 4,647 feet), located 33 miles southsoutheast of Bakersfield in the Tehachapi Mountains, strengthened early on April 11. Grapevine Peak was chosen as an indicator of wind flow (down slope) entering into the southern San Joaquin Valley Air Basin. Around 11:00 AM PST, strong southerly winds developed at Grapevine (a site located at the base of the Tehachapi Mountains) and entrained and transported PM10 north-northwestward. PM10 concentrations at the Bakersfield California air monitoring site became elevated by blowing dust around one hour before winds began increasing at the site. By midday, south-southeasterly winds strengthened to 21 mph (see Tables 3-2 and 3-3 and Appendix F). PM10 hourly levels began exceeding the 24 hour NAAQS on April 11 during hour 10 and remained elevated until hour 18 (see Figure 2, Table 3-2 and Appendix F).

Observations at Bakersfield Meadows Airport located north-northwest of the Bakersfield air monitoring site (downwind) indicated eight hours of sustained winds greater than 17.9 mph and eight hours with gusts 25 mph or greater. The highest recorded gust was 46 mph which occurred at 12:12 PM PST and 12:54 PM PST. A reduction in visibilities (Haze) was reported at the Bakersfield Meadows Airport from 10:54 AM PST until 5:54 PM PST (see Table 3-3 and Appendix F).

This analysis shows that the April 11, 2010 high wind event resulted in blowing dust across the southern San Joaquin Valley. Initially, the strong winds from the south-southeast over the valley portion of Kern County entrained and transported dust to the Bakersfield-California monitor. Between 11:00 AM PST and 4:00 PM PST, wind speeds at the monitoring site were sufficient enough to entrain and cause elevated PM10 levels. The cold front arrived in Bakersfield around 7:00 PM PST, bringing precipitation and better mixing to the area. Shortly thereafter, PM10 levels dropped significantly upon frontal passage.

Figure 2: Hourly Wind Speeds at Arvin, Grapevine, Bakersfield-California, Bakersfield-Meadows Airport, and Grapevine Peak, and PM10 Concentrations at Bakersfield-California



*Federal 24-Hour National Ambient Air Quality Standard (NAAQS) for PM10 is defined as a 24-hour average of 155 μg/m³.

3.3.2: Source - Receptor Analysis: Backward Trajectory

The District ran the National Oceanic and Atmospheric Administration (NOAA) Hybrid Single-Particle Lagrangian Integrated Trajectory (HYSPLIT) model for the natural event to identify air parcel source regions that contributed to peak particulate concentrations in Bakersfield. HYSPLIT can compute air parcel trajectories and dispersion based on meteorological observation data files from the National Weather Service's National Centers for Environmental Prediction (NCEP). The model and full documentation are available at www.arl.noaa.gov/ready/hysplit4.html.

The modeling and observations show that the winds originated south-southeast of Bakersfield. The model trajectory analysis takes the air parcel north-northwestward toward the Bakersfield area, leading to the blowing dust observations throughout the city and the elevated PM10 reported at the Bakersfield-California air monitoring site. Winds were from the south-southeast during the blowing dust event, as the following figures show.

Figure 3: Backward trajectory on April 11, 2010 showing location of air mass arriving in Bakersfield at the 10, 100, and 250 meter height levels around 10:00 AM PST.



The District used the HYSPLIT model to simulate the flow field for air parcels that arrived in Bakersfield at times when the concentrations first began to increase, the peak concentrations of the day, and when concentrations began to decrease, which happened around the times of 10:00 AM PST, 12:00 PM PST, and 6:00 PM PST, respectively. Figure 4, 5, and 6 show the flow field for air parcels at select hours during the course of the event.

The area south-southeast of Bakersfield was the main source region for air arriving in the city during the high PM10 measurements recorded between 10:00 AM and 6:00 PM PST on April 11, 2010 (see Figures 4 through 6; dots on the images indicate air parcel movement, not particulate concentration).

Figure 4: Location of air mass at 10:00 AM PST arriving in Bakersfield between 10:00 AM PST and 11:00 AM PST when concentrations began to increase











SJVUAPCD

3.3.3: Source – Receptor Analysis: Forward Trajectory

The District also analyzes this exceptional event using forward trajectory analysis. For the April 11, 2010 event, figure 7 and 8 are forward trajectories showing that high winds carried dust from the source area through the receptor (impacted) location of the city of Bakersfield.

Figure 7: Forward Trajectories at 10, 100 and 250 meters starting southeast of Bakersfield on April 11, 2010, Start Time: 8:00 AM PST



Forward trajectories starting southeast of Bakersfield at 8:00 AM PST on April 11, 2010. Runtime is 3 hours. Trajectory heights are at 10 meters in red, 100 meters in blue, and 250 meters in green. These trajectories show the air parcel from southeast of the Bakersfield reaching the monitor within 2 hours (10:00 AM PST) at the 10, 100 and 250 meter height levels.



Figure 8: Forward Trajectories at 10 meters starting from southeast of Bakersfield on April 11, 2010 Start Time: 8:00 AM PST

Forward trajectories starting at 8:00 AM PST on April 11, 2010 from the south-southeast of Bakersfield. Runtime is 3 hours. Trajectory heights are at 10 meters. These trajectories show the air parcel from the south-southeast of Bakersfield reaching the monitor within 2 hours (10:00 PM PST) at the 10 meter height level.

3.3.4: April 11, 2010 Exceptional Event Media and Compliance Coverage

Television and newspaper coverage and District Compliance inspector reports confirmed the presence of high winds and blowing dust on April 11, 2010. Photograph and video documentation, and eyewitness accounts of the impacted areas (see Appendices D and E) verified that high winds caused blowing dust on April 11, 2010.

Section 4: PM10 concentrations on April 11, 2010 were in excess of normal, historical fluctuations and the "but for" test

This s	ection satisfies the following federal requirements:
•	Provide evidence that the event is associated with a measured concentration in excess of normal, historical fluctuations
	(40 CFR 50.14(c)(3)(iv)(C)),
•	The exceedance would not have occurred but for the event (40 CFR 50.14(c)(3)(iv)(D))

PM10 concentrations on April 11, 2010 were exceptionally high at the Bakersfield-California site, as summarized in Table 4-1 and Figure 9 and 10. The PM10 measurement on April 11 was the 2nd highest measurement ever recorded at the site since monitoring began in 1994. The measured PM10 concentration on April 11 at Bakersfield-California was greater than the 99th Percentile value. All real-time PM10 measurements presented in this document were collected under local conditions.

Table 4-1: Historical Ranking of PM10 Concentrations at the Bakersfield California Site since 1994

Date	Concentration (ug/m ³)	Historical Ranking
10/9/2008	256	1 st
4/11/2010	238	2 nd
1/4/2001	190	3 rd
1/1/2001	186	4 th
1/7/2001	159	5 th

Historically, 24-hour PM10 monitor concentrations are low in the month of April. A PM10 exceedance in April has not occurred since monitoring began in 1986 (see Table 4-2 and Figure 9 and 10). It is clear that the PM10 level on April 11, 2010 was outside of historical maximums at the Bakersfield-California site.

Date	Max PM10 Value (µg/m ³)	Location	
4/26/1986	41	Merced - 18th	
4/21/1987	83	Stockton - Hazelton	
4/9/1988	95	Fresno - Olive	
4/10/1989	98	Fresno - Olive	
4/29/1990	110	Kettleman City – Cal Trans	
4/30/1991	140	Fresno - Drummond	
4/18/1992	117	Kettleman City – Cal Trans	
4/28/1993	51	Hanford #1	
4/2/1994	73	Kettleman City – Cal Trans	
4/9/1995	74	Kettleman City – Cal Trans	
4/27/1996	131	Kettleman City – Cal Trans	
4/16/1997	50	Bakersfield - Golden	
4/29/1998	78	Corcoran	
4/30/1999	47	Hanford	
4/6/2000	53	Bakersfield - Golden	
4/15/2001	57	Bakersfield - Golden	
4/14/2002	84	Hanford	
4/27/2003	55	Corcoran	
4/27/2004	83	Bakersfield - California	
4/22/2005	95	Bakersfield - Golden	
4/29/2006	47	Visalia	
4/12/2007	122	Santa Rosa Rancheria	
4/14/2008	103	Bakersfield - Golden	
4/7/2009	93	Bakersfield - Golden	
4/11/2010	238	Bakersfield - California	

Table 4-2: Maximum PM10 Concentrations in the Month of April by year since1986



Figure 9: April Historical Maximum 24-Hour PM10 Concentration since 1986

*Federal 24-Hour National Ambient Air Quality Standard (NAAQS) for PM10 is defined as a 24-hour average of $155 \ \mu g/m^3$.

Note: The "true maximum" PM10 non-exceptional event data point for 2010 is shown: 59 $\mu\text{g/m}^3$.

The District developed box-whisker plots to further analyze April PM10 data through 2010 for active sites in the San Joaquin Valley to determine if the concentrations on April 11, 2010 were in excess of normal historical fluctuations (see Figure 10). The start date of monitoring at each site is summarized in Table 4-3.

PM 10 Monitor Site Location	First Available April Data Point
Bakersfield - CA	4/14/1994
Bakersfield – Golden State Hwy	4/3/1995
Clovis	4/6/1991
Corcoran*	4/3/1987
Fresno - Drummond	4/10/1990
Fresno - 1st	4/5/1990
Hanford	4/2/1994
Merced M St.	4/14/1999
Modesto - 14th St.	4/3/1996
Oildale	4/3/1987
Santa Rosa Rancheria	4/6/2007
Stockton - Hazelton	4/3/1987
Stockton - Wagner-Holt	4/4/1997
Turlock Minaret St.	4/3/1994
Visalia Church St.	4/3/1987

Table 4-3: PM10 Monitor Site Location and First Available April Data Point

* Corcoran - Van Dorsten through 1997, then Corcoran - Patterson Avenue thereafter. Collocated April 1005 through 1007

1995 through 1997.

The District used these box-whisker plots to identify outliers. An outlier is defined as a point that falls above the upper quartile (top of the box). A quartile is one of the four divisions of observations which have been grouped into four equal-sized sets, based on their statistical rank. The following equation identifies where the outlier resides:

Outlier > QU + 1.5*IQR

Where, QU is the 75th Percentile value, and IQR is the difference between the 75th and 25th Percentile values.

For Bakersfield - California, the PM10 concentrations measured on April 11 was an outlier (see Figure 10). Thus, the April 11, 2010 exceedance was clearly in excess of normal historical fluctuations.



Figure 10: Box-Whisker Plot of PM10 (µg/m3) data by site for the month of April (through April 11, 2010)

Note: NAAQS (National Ambient Air Quality Standard)

Federal 24-Hour National Ambient Air Quality Standard (NAAQS) for PM10 is defined as a 24-hour average of 155 μ g/m³.

As shown in Table 3-4, the lowest and highest real-time PM10 concentrations at Bakersfield - California during the week centered on the April 11th event were 14 μ g/m³ and 41 μ g/m³, respectively. The PM10 concentrations surrounding the event were below the PM10 National Ambient Air Quality Standard. According to Figure 10,

Bakersfield - California April data shows the 25th percentile value of 19 μ g/m³, the median (50th percentile value) of 28 μ g/m³, and the 75th percentile value of 38 μ g/m³. The District expects the PM10 concentrations on April 11 would have been between the 25th and 75th percentile values of 19 μ g/m³ and 38 μ g/m³, respectively. But for the high wind event, which contributed between 200 and 219 μ g/m³ of PM10 to the concentration measured at the monitoring site, there would have been no exceedance of the NAAQS.

Section 5: Conclusion

District analysis shows that:

- PM is heavily controlled in the San Joaquin Valley and these controls have decreased average PM10 levels in the Valley throughout the year (Section 2)
- A natural high wind event caused PM10 to increase and the PM10 concentration decreased the following day, after the event was over (Section 3)
- The PM10 concentration on April 11, 2010 was the highest concentration ever recorded for the month of April since monitoring began (Section 4)
- But for the high wind event, which contributed between 200 and 219 μg/m³ of PM10 to the concentration measured at the monitoring site, there would have been no exceedance of the NAAQS (Section 4)

Since human activities that generated PM10 emissions were approximately constant before, during and after the April 11, 2010 high wind event, the District concludes that the exceedance would not have occurred "but for" the high wind event. The uncontrollable high winds overwhelmed the BACM for PM that have been put in place in the Valley. The cold front arrived in Bakersfield around 7:00 PM PST, bringing precipitation and better mixing to the area. Shortly thereafter, PM10 levels dropped significantly upon frontal passage.

In light of this conclusion, and with the demonstration (Section 1 and referenced sections) that the District has met all applicable requirements, the District requests EPA to approve the April 11, 2010 Bakersfield-California PM10 exceptional event documentation as having been caused by an exceptional event.

Section 6: References

Stull, Roland. An Introduction to Boundary Layer Meteorology. 1997

California Department of Water Resources document, Wind in California, (Bulletin No. 185, January 1978)

- California Irrigation Management Information System (CIMIS) http://www.cimis.water.ca.gov/cimis/data.jsp
- Department of Earth and Atmospheric Sciences, University at Albany, State University of New York, <u>http://www.atmos.albany.edu/weather/difax.html</u> : Surface weather maps
- Desert Research Institute (DRI), Western Regional Climate Center, <u>http://www.wrcc.dri.edu</u>, *Western Climate Summaries*
- Environmental Protection Agency (EPA). *Guideline on the Identification and Use of Air Quality Data Affected by Exceptional Events.* July 1986.
- Environmental Protection Agency (EPA). *Treatment of Data Influenced by Exceptional Events; Final Rule.* March 2007.
- Environmental Protection Agency (EPA). *Memorandum: Areas Affected by PM10 Natural Events*. May 1996.

BAKERSFIELD.com (KBAK and KBFX Eyewitness News), Bakersfield: Online Coverage

- KBAK Channel 29 (CBS), Bakersfield: Television news coverage
- KERO Channel 23 (ABC), Bakersfield: Television news coverage

KFSN Channel 30 (ABC), Fresno: Television news coverage

KGPE Channel 47 (CBS), Fresno: Television news coverage

TurnTo23.com (ABC), Bakersfield: Online news coverage

Mesowest historical meteorological data, Mesowest, http://www.met.utah.edu/mesowest

National Oceanic and Atmospheric Administration (NOAA): ESRL/Physical Sciences Division, Profiler Data

National Oceanic and Atmospheric Administration (NOAA): Air Resources Laboratory HYSPLIT – Hybrid Single Particle Lagrangian Integrated Trajectory Model, <u>http://ready.arl.noaa.gov/HYSPLIT.php</u>

National Oceanic and Atmospheric Administration (NOAA): Weather data, http://www.weather.gov

- Naval Postgraduate School, Department of Meteorology, Profiler Data, <u>http://www.weather.nps.navy.mil/profiler/coastprof.html</u>
- T&B Systems, *Task 3.3 How Well Do Measurements Characterize Critical Meteorological Features, Subtask 3 Measurement of Gustiness,* August 24, 2004, http://www.arb.ca.gov/airways/crpaqs/DA/Final/TB33st3.pdf

APPENDICES & SUPPORTING DOCUMENTS

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APPENDIX A: Notification to ARB in regards to 2010 Exceptional Event Days





May 2, 2011

Theresa Najita Air Pollution Specialist California Air Resources Board 1001 "T" Street PO Box 2815 Sacramento, CA 95812

Dear Mrs. Najita,

Please include the following information in your list to EPA of potential exceptional events that occurred in the San Joaquin Valley Air Basin during 2010.

Date(s)	Site(s)	AIRS #	Cause
4/11	Bakersfield California; including	06-029-0014-81102	High winds
	any collocated monitors		
4/11	Bakersfield Planz	06-029-0016-88101	High winds
7/04	Bakersfield Planz	06-029-0016-88101	Fireworks
7/04	Bakersfield California	06-029-0014-88101	Fireworks
7/04	Fresno-1 st	06-019-0008-88101	Fireworks
9/30	Corcoran	06-031-0004-88101	Wildland Fire Use
9/29	Madera City	06-039-2010-88101	Wildland Fire Use
9/25 -9/30	Madera City	06-039-2010-44201	Wildland Fire Use
9/25 -9/30	Clovis	06-019-5001-44201	Wildland Fire Use
9/25 -9/30	Fresno Sierra Sky Park	06-019-0242-44201	Wildland Fire Use
9/25 -9/30	Hanford	06-031-1004-44201	Wildland Fire Use
9/25 -9/30	Madera Pump	06-039-0004-44201	Wildland Fire Use
9/25 -9/30	Parlier	06-019-4001-44201	Wildland Fire Use
9/29	Tranquillity	06-019-2009-44201	Wildland Fire Use
9/28 -9/30	Merced Coffee	06-047-0003-44201	Wildland Fire Use
9/25 -9/30	Fresno-1 st	06-019-0008-44201	Wildland Fire Use

The District also respectfully requests ARB to flag the September 25 through 30, 2010 Wildland Fire Use event that occurred at the Fresno-1st Ozone monitoring site.

If you have any questions about this request, please contact Stephen Shaw, Supervising Air Quality Specialist via phone at 559-230-5824 or via email at stephen.shaw@valleyair.org.

Fhank you

Samir Sheikh Director, Strategies and Incentives

cc: Karen Magliano (ARB), Sylvia Zulawnick (ARB)

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APPENDIX B: SJV Air Monitoring Network Map

San Joaquin Valley Kings Co: San Joaquin Co: 20 Hanford: F.G.P.M 1 Hazelton: G,M,P,F,T **AIR POLLUTION CONTROL DISTRICT** 2 Wagner/Holt: P 21 Corcoran: G,M,P,F 3 Tracy: G.M.P.F Other: 4 Manteca: P.F.M Tachi Yokut Tribe SITES IN OPERATION AS OF APRIL 2011 19 Santa Rosa Rancheria: G,M,P Stanislaus Co: 2 5 Modesto: G,M,P,F Tulare Co: 1 22 <u>Visalia Airport: M</u> 23 Church Street: G,M,P,F 6 Turlock: G,M,P,F 3 4 24 Porterville: G,F,M Merced Co: 5 7 M Street: P.F Other: 8 Coffee St: F.G.M National Park Service 6 25 Kaweah: A,G,M Madera Co: 26 Ash Mountain: A,G,M,F 7 8 9 Madera City: G,P,F,M 10 Madera-Pump Yard: G.M. 9 Kern Co: Fresno Co: 10 27 Shafter: G.M 13 11 Tranquillity: G,F,M 28 Oildale: G,M,P 12 14 15 12 Sierra Sky Park: G.M 29 California Avenue*: A,G,M,P,F,T 16 11 13 Clovis: G.M.P.F 17 30 Planz Road: F 14 First Street: G,M,P,F,T,N 25 31 Edison: G,M 22²³ 15 Fresno-Pacific: F 32 Arvin-Di-Giorgio: G,M 26 16 Drummond: G.P.M 19 20 33 <u>Maricopa: G,M</u> 18 17 Parlier: G.M 34 Lebec: F.M 24 18 Huron: F.M 21 **Monitoring Designations** A: Acid Deposition F: Fine Particulate (PM2.5) Monitoring Operation: Sites operated by the District are underlined. Sites operated jointly by the District and ARB 27 G: Gaseous M: Meteorological 29²⁸ 30 31 P: Particulate (PM10) are in bold and underlined. N: National Core T: Toxics Temporary PM10 monitor operated by the District. 32
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HEALTHY

APPENDIX C: Public Notification of the Exceptional Event

C.1 DISTRICT PRESS RELEASE ON APRIL 11, 2010 FOR THE EXCEPTIONAL EVENT.



For Immediate Release 4/11/2010

For: City and assignment editors



North District Media Contact - Modesto Anthony Presto (209) (557-640); Central District Media Contact - Freeno Jaime Fort (559) 250-5850 South District Media Contact - Bakersfield Brenda Tumer (651) 392-6500 Spanish language Media Contact Claudia Encinas (559) 230-551 After Hours Contact - (559) 230-551

Air District issues health caution Blowing Dust prompts warning

Gusty winds in the San Joaquin Valley have prompted local air-pollution officials to issue a health cautionary statement from Sunday afternoon through this evening.

Winds in the Valley portion of Kern, Tulare, and Kings Counties may produce areas of localized blowing dust. Blowing dust can result in unhealthy concentrations of particulate matter 10 microns and smaller, or PM10.

Take precautions to protect your health if you are in an area of blowing dust," said Samir Sheikh, Planning Director for the Air District.

Exposure to particulate pollution can cause serious health problems, aggravate lung disease, trigger asthma attacks and acute bronchitis, and increase risk of respiratory infections.

Residents in the Valley portion of Kern, Tulare, and Kings Counties are advised to use caution through this evening. People with heart or lung diseases should follow their doctors' advice for dealing with episodes of unhealthy air quality. Additionally, older adults and children should avoid prolonged exposure, strenuous activities or heavy exertion. Everyone else should reduce prolonged exposure, strenuous activities or heavy exertion.

For more information about the Valley Air District, call a regional office: in Fresno, 559-230-6000; in Bakersfield, 661-392-5500; and in Modesto, 209-557-6400.

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The Valley Air District covers eight counties including San Joaquin, Stanislaus, Merced, Madera, Fresno, Kings, Tulare and the Valley air basin portions of Kern. Visit www.valleyair.org to learn more.

C.2 Air Quality Alert Message

AIR QUALITY ALERT MESSAGE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT RELAYED BY NATIONAL WEATHER SERVICE SAN JOAQUIN VALLEY CA 221 PM PDT SUN APR 11 2010

THE SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT HAS ISSUED AN AIR QUALITY ALERT FOR KINGS, TULARE, AND THE VALLEY PORTION OF KERN COUNTIES FROM 200 PM SUNDAY AFTERNOON UNTIL MIDNIGHT PDT TONIGHT DUE TO BLOWING DUST CAUSED BY WINDY CONDITIONS.

EXPOSURE TO PARTICLE POLLUTION CAN CAUSE SERIOUS HEALTH PROBLEMS...AGGRAVATE LUNG DISEASE...CAUSE ASTHMA ATTACKS AND ACUTE BRONCHITIS AND INCREASE RISK OF RESPIRATORY INFECTIONS. IN PEOPLE WITH HEART DISEASE...SHORT-TERM EXPOSURE TO PARTICLE POLLUTION HAS BEEN LINKED TO HEART ATTACKS AND ARRHYTHMIAS... ACCORDING TO THE U.S. ENVIRONMENTAL PROTECTION AGENCY. CHILDREN AND ELDERLY PEOPLE ARE ALSO MORE SUSCEPTIBLE TO CONSEQUENCES OF HIGH PARTICULATE LEVELS.

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C.3 National Weather Service Wind Advisories

URGENT - WEATHER MESSAGE NATIONAL WEATHER SERVICE HANFORD CA 222 PM PDT SAT APR 10 2010

.STRONG PACIFIC STORM SYSTEM WILL PUSH A COLD FRONT THROUGH THE REGION OVERNIGHT ON SUNDAY. STRONG SOUTHERLY WINDS AHEAD OF THE COLD FRONT WILL BE CONFINED MAINLY TO THE WEST SIDE OF THE SAN JOAQUIN VALLEY AND INCLUDING MERCED. DOWNSLOPING EFFECT WILL CAUSE VERY STRONG SOUTHERLY WINDS THROUGH THE GRAPEVINE OVERNIGHT ON SUNDAY.

CAZ089>091-110530-/O.NEW.KHNX.WI.Y.0016.100411T1800Z-100412T0700Z/ WEST CENTRAL SAN JOAQUIN VALLEY-EAST CENTRAL SAN JOAQUIN VALLEY-SOUTHWESTERN SAN JOAQUIN VALLEY-222 PM PDT SAT APR 10 2010

...WIND ADVISORY IN EFFECT FROM 11 AM SUNDAY TO MIDNIGHT PDT SUNDAY NIGHT...

THE NATIONAL WEATHER SERVICE IN HANFORD HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT FROM 11 AM SUNDAY TO MIDNIGHT PDT SUNDAY NIGHT FOR THE CENTRAL AND SOUTHWESTERN SAN JOAQUIN VALLEY.

- * WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 40 MPH.
- * TIMING: WINDS WILL PICK UP THROUGH THE DAY ON SUNDAY WITH THE STRONGEST WINDS FROM 5 PM TO 10 PM SUNDAY NIGHT AS THE FRONT PASSES THROUGH.
- * LOCATIONS INCLUDE: LEMOORE...AVENAL...MERCED...LOS BANOS...

COALINGA...MENDOTA

* IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT ALONG THE INTERSTATE 5 CORRIDOR ALONG THE WEST SIDE OF THE SAN JOAQUIN VALLEY.

\$\$

JDB

WEATHER.GOV/HANFORD

CAZ089>091-112130-/O.CON.KHNX.WI.Y.0016.100411T1800Z-100412T0700Z/ WEST CENTRAL SAN JOAQUIN VALLEY-EAST CENTRAL SAN JOAQUIN VALLEY-SOUTHWESTERN SAN JOAQUIN VALLEY-618 AM PDT SUN APR 11 2010

...WIND ADVISORY REMAINS IN EFFECT FROM 11 AM THIS MORNING TO MIDNIGHT PDT TONIGHT...

A WIND ADVISORY REMAINS IN EFFECT FROM 11 AM THIS MORNING TO MIDNIGHT PDT TONIGHT FOR THE CENTRAL AND SOUTHWESTERN SAN JOAQUIN VALLEY.

- * WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 40 MPH.
- * TIMING: WINDS WILL PICK UP THROUGH THE DAY WITH THE STRONGEST WINDS FROM 5 PM TO 10 PM TONIGHT AS THE FRONT PASSES THROUGH.
- * LOCATIONS INCLUDE: LEMOORE...AVENAL...MERCED...LOS BANOS... COALINGA...MENDOTA
- * IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT ALONG THE INTERSTATE 5 CORRIDOR ALONG THE WEST SIDE OF THE SAN JOAQUIN VALLEY.

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DUDLEY

WEATHER.GOV/HANFORD

CAZ089>091-120400-/O.CON.KHNX.WI.Y.0016.00000T0000Z-100412T0700Z/ WEST CENTRAL SAN JOAQUIN VALLEY-EAST CENTRAL SAN JOAQUIN VALLEY-SOUTHWESTERN SAN JOAQUIN VALLEY-1239 PM PDT SUN APR 11 2010

...WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT...

A WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT FOR THE CENTRAL AND SOUTHWESTERN SAN JOAQUIN VALLEY.

* WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 40 MPH.

- * TIMING: WINDS WILL PICK UP THROUGH THE DAY WITH THE STRONGEST WINDS FROM 5 PM TO 10 PM TONIGHT AS THE FRONT PASSES THROUGH.
- * LOCATIONS INCLUDE: LEMOORE...AVENAL...MERCED...LOS BANOS... COALINGA...MENDOTA
- * IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT ALONG THE INTERSTATE 5 CORRIDOR ALONG THE WEST SIDE OF THE SAN JOAQUIN VALLEY.

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JDB

WEATHER.GOV/HANFORD

CAZ092-120430-/O.EXA.KHNX.WI.Y.0016.000000T0000Z-100412T0700Z/ SOUTHEASTERN SAN JOAQUIN VALLEY-126 PM PDT SUN APR 11 2010

...WIND ADVISORY IN EFFECT UNTIL MIDNIGHT PDT TONIGHT...

THE NATIONAL WEATHER SERVICE IN HANFORD HAS ISSUED A WIND ADVISORY...WHICH IS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT FOR THE SOUTHEASTERN SAN JOAQUIN VALLEY.

- * WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 45 MPH.
- * TIMING: WINDS HAVE PICKED UP EARLY THIS AFTERNOON...WITH THE STRONGEST WINDS FROM 5 PM TO 10 PM TONIGHT AS THE FRONT PASSES THROUGH.
- * LOCATIONS INCLUDE: BAKERSFIELD
- * IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT ALONG THE INTERSTATE 5 CORRIDOR ALONG THE WEST SIDE OF THE SAN JOAQUIN VALLEY.

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CAZ089>092-120530-/O.CON.KHNX.WI.Y.0016.00000T0000Z-100412T0700Z/ WEST CENTRAL SAN JOAQUIN VALLEY-EAST CENTRAL SAN JOAQUIN VALLEY-SOUTHWESTERN SAN JOAQUIN VALLEY-SOUTHEASTERN SAN JOAQUIN VALLEY-223 PM PDT SUN APR 11 2010

...WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT...

A WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT FOR THE CENTRAL AND SOUTHERN SAN JOAQUIN VALLEY.

- * WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 45 MPH.
- * TIMING: WE CURRENTLY HAVE WIND ADVISORY CONDITIONS IN SEVERAL LOCATIONS AND WE EXPECT THE STRONGEST WINDS FROM 7 PM TO 1 AM TONIGHT AS THE FRONT PASSES THROUGH.

- * LOCATIONS INCLUDE: BAKERSFIELD...LEMOORE...AVENAL...CORCORAN...MERCED...FRESNO... LOS BANOS...COALINGA.
- * IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT ALONG THE INTERSTATE 5 CORRIDOR ALONG THE WEST SIDE OF THE SAN JOAQUIN VALLEY. BLOWING DUST AND REDUCED VISIBILITIES ARE ALSO POSSIBLE.

URGENT - WEATHER MESSAGE NATIONAL WEATHER SERVICE HANFORD CA 358 PM PDT SUN APR 11 2010

CAZ089>092-120700-/O.CON.KHNX.WI.Y.0016.00000T0000Z-100412T0700Z/ WEST CENTRAL SAN JOAQUIN VALLEY-EAST CENTRAL SAN JOAQUIN VALLEY-SOUTHWESTERN SAN JOAQUIN VALLEY-SOUTHEASTERN SAN JOAQUIN VALLEY-358 PM PDT SUN APR 11 2010

...WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT...

A WIND ADVISORY REMAINS IN EFFECT UNTIL MIDNIGHT PDT TONIGHT FOR THE CENTRAL AND SOUTHERN SAN JOAQUIN VALLEY.

- * WINDS: SOUTHWEST 20 TO 30 MPH WITH GUSTS TO 45 MPH.
- * TIMING: WIND ADVISORY CONDITIONS ARE OCCURRING IN MANY AREAS OF THE CENTRAL AND SOUTH VALLEY NOW. THE WIND WILL CONTINUE UNTIL LATE THIS EVENING WHEN THE FRONT PASSES THROUGH. AREAS OF BLOWING DUST WILL OCCUR PRIOR TO THE ARRIVAL OF RAIN.
- * LOCATIONS INCLUDE: BAKERSFIELD...LEMOORE...AVENAL...VISALIA... CORCORAN...MERCED...MADERA...FRESNO...LOS BANOS...COALINGA.
- * IMPACTS: THE WIND WILL MAKE DRIVING DIFFICULT AT TIME...ESPECIALLY HIGH PROFILE VEHICLES. IN ADDITION...AREAS OF DUST AND BLOWING DUST **WILL** REDUCE VISIBILITIES TO NEAR 1 MILE AT TIMES...ESPECIALLY ALONG EAST WEST HIGHWAYS.

PRECAUTIONARY/PREPAREDNESS ACTIONS...

A WIND ADVISORY MEANS WIND GUSTS OF 35 MPH OR GREATER ARE EXPECTED OR OCCURRING.

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BINGHAM

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APPENDIX D: Media Coverage

D1. Newspaper Articles and Television News Coverage from April 11, 2010

Wind Flips Plane in Taft

Plane Took Off Only to Land Upside Down

TurnTo23.com POSTED: 9:32 pm PDT April 11, 2010

TAFT, Calif. -- A gust of wind appears to be the cause behind a plane crash that happened in Taft on Sunday morning.

A single-engine Piper Super Cub flipped as it took off from the Taft Airport around 11 a.m. Sunday.

According to the Federal Aviation Administration, the pilot encountered a gust of wind and that led to the crash.

The plane came to as top upside down about 200 feet off the runway.

The pilot suffered minor injuries but refused medical treatment.

The pilot, who's name has not been released, was headed to bakersfield. Damage to the plane was extensive.

Wind Prompts Blowing Dust Warning

Strong Winds Prompted a Blowing Dust Advisory Sunday

TurnTo23.com POSTED: 10:06 pm PDT April 11, 2010 UPDATED: 10:34 pm PDT April 11, 2010

BAKERSFIELD, Calif. -- Windy weather ripped through Kern County downing trees and leaving many without power.

The strong winds kicked up Sunday morning and were replaced by rain by 8 p.m. in the downtown area.

The winds kicked up a lot of dust, as they often do, which led to the San Joaquin Valley Air Pollution Control District to issue a blowing dust warning Sunday afternoon.

The blowing dust can be unhealthy especially if you have respiratory problems.

The Air District is advised residents in Kern, Tulare and Kings Counties to use caution throughout Sunday evening until the winds died down and the dust stopped blowing.

The strong winds did leave hundreds of home owners without power.

According to PG&E, 1,200 customers were without power Sunday night at 9:30 p.m. in 33 separate outages in the Bakersfield area. There were also numerous isolated outages throughout Kern County, including in Wasco and Lamont.

Wild weather blows through Bakersfield

BAKERSFIELDnow.com By Sabrina Rodriguez, Eyewitness News

Summary

Bakersfield was hit hard after a wind and dust storm blew through the city, knocking down trees, shutting off power, and closing down businesses.

Story Created: Apr 12, 2010 at 12:01 AM PDT Story Updated: Apr 12, 2010 at 12:18 AM PDT



BAKERSFIELD, Calif. -- If you spent anytime out doors on Sunday, you saw just how bad the weather was. But that bad weather blew through all of Bakersfield.

Visibility was low, air quality - horrible, and the wind whipped and howled.

When those ingredients mix disaster strikes, and chainsaws are working overtime.

Sunday's wind and dust storm caused problems all over Bakersfield.

In the northwest, the dust made driving a little dangerous.

On Sunset Ave. a 70' tree fell across the road and onto a truck, which was a little dented but still drivable. Power was also knocked out.

On California Ave. drivers has an obstacle course after a large tree at the California Apartments came crashing down across two lanes of east bound traffic.

Resident Andrea Sebreros said she's never seen a wind storm this bad. Her solution will be to stay inside.

Hers wasn't the only apartment complex to get hit.

In northeast Bakersfield at the Auburn Heights Apartments, the high wind uprooted a tree which landed on top of an apartment building.

Resident Michael Acosta saw the tree begin to fall, ran inside to get his grandmother out, but when they got outside the tree had fallen away from their apartment. "It's crazy," he said, "I've never seen anything like this and the wind so strong. People could have been hurt or killed."

Instead of staying home, some people tried to wait out the storm at their favorite restaurant, but even they couldn't escape.

The Red Robin at Valley Plaza Mall had to be shut down after the wind caved in a wall, which let in lots of dust and debris.

"You could hear it, like the plastic blowing," said customer Norma Duran. "There was all this dust and fiberglass going around."

Fellow customer Amy Montee added, "It was very dusty and we were one of the last people to be seated and then they said they were closing it down because it was just too dangerous."

While Montee was lucky enough to get her food other customers were turned away disappointed.

To say the least, it was a busy day in Bakersfield.

"I've never seen it this bad before," said Acosta.



TV Coverage from KBAK-29 (CBS) -- Bakersfield



Video Coverage from KERO-23 (ABC) – Bakersfield



TV Coverage from KFSN-30 (ABC) – Fresno



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APPENDIX E: District Compliance Department Coverage

E1. District Compliance Video Image from April 11, 2010

Bakersfield Area



E2. Routine Inspections from April 11, 2010

Since the high wind event occurred on a Sunday, no inspections were conducted in the northern and southern region. For April 11, 2010 there were a total of 3 inspections in the central region.

	A	ctivity	
ActivityDate	Activity	ProjectType	EmpRegion
4/11/2010	Compliance Assistance	Outdoor Burning: Ag, Prescribed, Barrels	С
4/11/2010	Compliance Assistance	Outdoor Burning: Ag, Prescribed, Barrels	С
4/11/2010	Complaint Investigations	Outdoor Burning: Ag, Prescribed, Barrels	С

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APPENDIX F: Weather Analysis

F1. Wind Profiles

Time in UTC (Coordinated Universal Time, also abbreviated with "Z" or "GMT") is also called Greenwich Mean Time (Mean Solar Time at the Royal Observatory in Greenwich, England). Greenwich Mean Time is seven hours ahead of Pacific Daylight Time (PDT). For example, 12 UTC or 12 Z is 4 AM PST or 5 AM PDT. The lower air profilers were located in Tracy, Chowchilla, and Lost Hills.

Wind barbs point in the direction "from" which the wind is blowing. A circle represents calm conditions. Flags (straight lines) attached at the end of the wind barbs indicate wind speed. Each short flag represents 5 knots, and each long flag represents 10 knots. A long flag and a short flag represent 15 knots, simply by adding the value of each flag together (10 knots + 5 knots = 15 knots). The color-coded speed scale is also provided on top of the plot. A triangular flag at the end of a wind barb represents a 50-knot wind. This wind barb is color-coded orange in the plot shown above.



Data from 11-APR-2010 00:30 through 12-APR-2010 00:00 UTC Image generated by Department of Meteorology, Naval Postgraduate School











F2. Weather Charts

Upper-air analysis (approximately 30,000 feet above ground level) on April 11, 2010

The upper air analysis showed a moderately strong 75 to 125 MPH Jet-stream positioned over California through the day transferring stronger winds toward the surface.





SJVUAPCD

Upper-air analysis (approximately 18,000 feet above ground level) on April 11, 2010



100412/0000 500 MD UA ODS, HGHTS, and TEMPS

<u>11 8</u>-597

The upper air analysis showed a strong trough approaching the northwestern U.S.



The surface analysis charts from 4:00 PM PST April 10, 2010 through 11:00 PM PST April 11, 2010 showed winds increasing in the San Joaquin Valley as the low pressure system strengthened along the coast and then moved into California.



April 10, 2010 10:00 PM PST





April 11, 2010 4:00 AM PST



April 11, 2010 4:00 PM PST

April 11, 2010 10:00 PM PST



F3. Surface Observations

CARB Air Monitoring Site: Bakersfield – California Avenue

1 - Hour			
Averages			
Define Group		BFL255	BFL255
Date - Time		RWS	RWD
		KNOTS	DEG
11-Apr-10	0:00	3	0
11-Apr-10	1:00	2	315
11-Apr-10	2:00	2	296
11-Apr-10	3:00	2	275
11-Apr-10	4:00	2	97
11-Apr-10	5:00	2	88
11-Apr-10	6:00	3	105
11-Apr-10	7:00	2	101
11-Apr-10	8:00	3	166
11-Apr-10	9:00	4	169
11-Apr-10	10:00	11	150
11-Apr-10	11:00	15	143
11-Apr-10	12:00	18	143
11-Apr-10	13:00	17	140
11-Apr-10	14:00	18	140
11-Apr-10	15:00	15	140
11-Apr-10	16:00	16	140
11-Apr-10	17:00	12	138
11-Apr-10	18:00	5	154
11-Apr-10	19:00	10	316
11-Apr-10	20:00	5	341
11-Apr-10	21:00	3	49
11-Apr-10	22:00	6	101
11-Apr-10	23:00	5	104

Bakersfield, Meadows Field Airport, CA (KBFL) Elev: 509 ft; Latitude: 35.43361; Longitude: -119.05667

Current time:		N	Mon, 12	2 Apr 17	:16 pm	(PDT)		
Most Recent Obs	servat	ion: N	Mon, 12	2 Apr 4:	54 pm (F	PDT)		
Time	Temp.	Dew Point	Relative Humidity	Wind Directior	Wind Speed	Visibility	/ WX	Clouds
(PDT)	(f)	(f)	(%)		(mph)	(miles)		
12 Apr 4:54 pm	60	44	55	NNW	20	10.00		FEW065 SCT085
12 Apr 3:54 pm	63	39	41	WNW	17 <mark>G24</mark>	10.00		FEW095
12 Apr 3:31 pm	63	43	48	W	14	10.00		FEW049 SCT080 SCT095
12 Apr 2:54 pm	60	40	47	CALM		10.00		SCT046 SCT055 BKN070
12 Apr 1:54 pm	60	43	53	VRBL	3	10.00		CLR
12 Apr 12:54 pm	57	44	62	NW	8	10.00		FEW032 SCT043 BKN065
12 Apr 11:54 am	59	39	48	CALM		10.00		FEW095
12 Apr 10:54 am	57	43	59	SW	5	10.00		BKN065
12 Apr 9:54 am	53	45	74	ESE	5	10.00		FEW032
12 Apr 8:54 am	51	43	74	CALM		10.00		BKN050 OVC055
12 Apr 7:54 am	50	43	76	CALM		10.00		BKN050 OVC060
12 Apr 6:54 am	50	43	76	ESE	3	10.00		OVC060
12 Apr 5:54 am	48	44	86	ESE	3	10.00		OVC065
12 Apr 4:54 am	47	44	90	SSE	6	10.00		BKN060
12 Apr 3:54 am	50	43	76	ENE	5	10.00		BKN090 BKN110
12 Apr 2:54 am	47	43	86	ENE	6	10.00		CLR
12 Apr 1:54 am	49	44	83	ENE	3	10.00		CLR
12 Apr 12:54 am	50	45	82	ESE	8	10.00		SCT050
11 Apr 11:54 pm	49	45	86	Е	17 <mark>G23</mark>	7.00	RA	SCT045 OVC055
11 Apr 10:54 pm	50	45	82	SE	8	7.00	RA	SCT027 BKN038 OVC049
11 Apr 9:54 pm	49	45	86	Ν	12G18	5.00	RA BF	FEW020 SCT037 OVC047
11 Apr 8:54 pm	48	45	89	NNW	16 <mark>G24</mark>	7.00	-RA	SCT043 OVC050
11 Apr 8:05 pm	50	46	87	NW	20G30	10.00	-RA	BKN060 OVC080
11 Apr 7:54 pm	52	44	74	WNW	26G32	8.00	-RA	BKN065 OVC090
11 Apr 6:54 pm	61	40	46	SSE	18 <mark>G24</mark>	4.00	HZ	SCT085 BKN110
11 Apr 6:29 pm	63	39	42	SSE	24G37	6.00	HZ	BKN080
11 Apr 5:54 pm	63	39	41	SSE	26G36	2.00	HZ	FEW085
11 Apr 4:54 pm	65	39	38	SSE	28G41	2.00	HZ	CLR
11 Apr 3:54 pm	67	38	34	SSE	29G43	1.50	HZ	CLR
11 Apr 2:54 pm	67	38	34	SSE	35G43	1.50	HZ	CLR
11 Apr 2:52 pm	66	37	35	SSE	33G40	1.50	HZ	CLR
11 Apr 2:39 pm	66	37	35	SSE	35G39	2.00	HZ	FEW006
11 Apr 1:54 pm	67	38	34	SSE	31G46	1.25	HZ	FEW006
11 Apr 1:20 pm	66	37	35	SSE	35G44	1.25	HZ	FEW008
11 Apr 1:12 pm	66	37	35	SSE	33G46	1.25	HZ	CLR
11 Apr 12:54 pm	67	37	33	SSE	32G39	2.00	HZ	CLR
11 Apr 12:03 pm	64	37	37	SSE	28G35	2.00	HZ	CLR
11 Apr 11:54 am	65	37	36	SSE	24G39	5.00	HZ	CLR
11 Apr 10:54 am	64	40	41	S	14 <mark>G23</mark>	10.00		CLR
11 Apr 9:54 am	57	41	55	S	8	10.00		CLR
11 Apr 8:54 am	56	41	57	SE	6	10.00		CLR
11 Apr 7:54 am	50	43	76	ESE	6	9.00		CLR
11 Apr 6:54 am	49	41	74	CALM		8.00		CLR
11 Apr 5:54 am	51	41	68	SE	5	10.00		CLR

11 Apr 4:54 am	51	40	65	CALM		10.00	CLR	
11 Apr 3:54 am	51	40	65	CALM		10.00	CLR	
11 Apr 2:54 am	51	40	65	Ν	3	10.00	CLR	
11 Apr 1:54 am	54	40	59	NNE	8	10.00	CLR	
11 Apr 12:54 am	52	40	63	Ν	8	10.00	CLR	
10 Apr 11:54 pm	52	40	63	Ν	7	10.00	CLR	

Visalia, Visalia Municipal Airport, CA (KVIS) Elev: 295 ft; Latitude: 36.31667; Longitude: -119.4

Current time:	Mon,	12 Apr	17:21	pm	(PDT)
Most Recent Observation:	Mon,	12 Apr	5:15	pm (PDT)	

Time	Temp.	Dew	Relative	Wind	Wind	Visibility WX	Clouds
		Point	Humidity	Direction	n Speed		
(PDT)	(f)	(f)	(%)		(mph)	(miles)	
12 Apr 5:15 pm	55	45	67	ESE	7	10.00	SCT040 BKN047 OVC055
12 Apr 4:55 pm	57	45	63	SE	7	10.00	SCT044 BKN070 OVC095
12 Apr 4:35 pm	57	45	63	S	6	10.00	FEW070 OVC090
12 Apr 4:15 pm	57	43	59	SSW	10	10.00	FEW070 BKN080
12 Apr 3:55 pm	57	46	67	SSE	12	10.00	FEW070 OVC090
12 Apr 3:35 pm	55	45	67	SSE	9	10.00	FEW046 SCT060 OVC090
12 Apr 3:15 pm	55	45	67	SSE	13	10.00	FEW055 BKN070 OVC090
12 Apr 2:55 pm	52	43	71	SSE	10	10.00	FEW034 SCT048 BKN070
12 Apr 2:35 pm	48	39	71	S	6 <mark>G30</mark>	8.00	BKN036 BKN042 OVC048
12 Apr 2:15 pm	57	43	59	SW	21G25	10.00	SCT038 BKN049 OVC065
12 Apr 1:55 pm	61	45	55	SSW	10	10.00	SCT038
12 Apr 1:35 pm	59	43	55	SSW	13	10.00	SCT032 SCT039 SCT050
12 Apr 1:15 pm	57	45	63	S	12 <mark>G20</mark>	10.00	SCT032 BKN050 OVC095
12 Apr 12:55 pm	57	43	59	S	12	10.00	BKN050 BKN060 OVC095
12 Apr 12:35 pm	57	45	63	S	13G16	10.00	FEW031 SCT039 OVC060
12 Apr 12:15 pm	57	45	63	S	10G17	10.00	SCT031 BKN046 OVC060
12 Apr 11:55 am	55	45	67	SE	7	10.00	FEW031 SCT042 BKN048
12 Apr 11:35 am	57	45	63	SE	8	10.00	FEW028
12 Apr 11:15 am	55	45	67	ESE	9	10.00	CLR
12 Apr 10:55 am	55	45	67	ESE	6	10.00	FEW080
12 Apr 10:35 am	54	45	71	SE	10	10.00	SCT055 BKN070 BKN080
12 Apr 10:15 am	52	45	76	SE	10	10.00	BKN055 OVC070
12 Apr 9:55 am	50	45	82	SE	8	10.00	FEW046 OVC055
12 Apr 9:35 am	48	43	81	CALM		10.00	FEW016 SCT036 OVC048
12 Apr 9:15 am	48	43	81	WSW	9	8.00	SCT016 OVC036
12 Apr 8:55 am	50	43	76	CALM		10.00	BKN038 OVC046
12 Apr 8:35 am	50	43	76	ESE	5	9.00	OVC046
12 Apr 8:15 am	50	43	76	ESE	6	10.00	BKN045 OVC055
12 Apr 7:55 am	50	43	76	SE	6	10.00	SCT047 BKN055 OVC065
12 Apr 7:35 am	48	43	81	SE	5	10.00	SCT055 BKN065 OVC080
12 Apr 7:15 am	48	43	81	ESE	6	10.00	BKN055 OVC065
12 Apr 6:55 am	48	41	76	ESE	7	10.00	FEW046 SCT050 OVC065
12 Apr 6:35 am	48	43	81	ESE	8	9.00	BKN044 OVC050
12 Apr 6:15 am	48	43	81	S	7	10.00	OVC046
12 Apr 5:55 am	48	41	76	SSE	7	9.00	BKN049 OVC070

12 Apr 5:25 am	10	11	76	COE	7	10.00	
12 Apr 5.35 am	40	41 20	70	00L	7	10.00	PKN000 OVC110
12 Apr 5:15 am	48	39	71	SE	7	10.00	
12 Apr 4:55 am	48	41	76	ESE	/	10.00	FEW042 BKN050 BKN110
12 Apr 4:35 am	48	41	76	SSE	6	10.00	0VC047
12 Apr 4:15 am	48	41	76	SSE	7	10.00	OVC042
12 Apr 3:55 am	48	41	76	SE	5	10.00	BKN044
12 Apr 3:35 am	48	41	76	SSE	3	10.00	OVC046
12 Apr 3:15 am	48	41	76	SE	5	10.00	OVC046
12 Apr 2:55 am	48	39	71	SSE	5	10.00	BKN050 BKN110
12 Apr 2:35 am	46	39	76	SSE	7	10.00	FEW060 BKN120
12 Apr 2:15 am	48	39	71	SSE	8	10.00	SCT120
12 Apr 1:55 am	46	39	76	SE	9	10.00	CLB
12 Apr 1:35 am	48	30	71	SE	8	10.00	CLB
12 Apr 1:15 am	18	30	71	SE	10	10.00	SCT045
12 Apr 12:55 om	10	41	76		0	10.00	SCT020 OVC047
12 Apr 12.55 am	40 40	41	70		0	10.00	501039 0VC047
12 Apr 12.35 am	40	39	71		0	10.00	FEW033 SC1040 BKN047
12 Apr 12:15 am	48	39	/1	ESE	_	10.00	SC1033 SC1040
11 Apr 11:55 pm	48	39	71	E	7	10.00	SC1033 BKN040 OVC060
11 Apr 11:35 pm	48	39	71	ESE	7	10.00	FEW035 BKN060
11 Apr 11:15 pm	48	39	71	ESE	13	10.00	SCT032 BKN060
11 Apr 10:55 pm	48	39	71	SE	14	10.00	BKN029 OVC060
11 Apr 10:35 pm	48	41	76	ESE	13G16	10.00	BKN027 OVC090
11 Apr 10:15 pm	48	41	76	ESE	12	10.00	SCT027 BKN060 OVC090
11 Apr 9:55 pm	48	41	76	Е	10	10.00	SCT029 BKN055 OVC070
11 Apr 9:35 pm	46	41	81	ESE	16 <mark>G23</mark>	10.00	OVC055
11 Apr 9:15 pm	46	41	81	E	16	10.00	OVC055
11 Apr 8:55 pm	46	41	81	ESE	9	10.00	SCT048 OVC055
11 Apr 8:35 pm	46	30	76	CALM	Ū	10.00	OVC048
11 Apr 8:15 pm	46	/11	81		3	10.00	0VC048
11 Apr 7:55 pm	46	20	76		5	10.00	OVC050
11 Apr 7:35 pm	40	20	76	1.1.1	10	10.00	010000
11 Apr 7:15 pm	40	39	70	VV \\\	15000	10.00	
11 Apr 7:15 pm	40	39	76	vv	15625	10.00	
11 Apr 6:55 pm	46	39	/6	VV	20G28	8.00	FEW033 FEW045 OVC060
11 Apr 6:35 pm	54	43	67	W	22G33	10.00	FEW031 SC1060 OVC070
11 Apr 6:15 pm	57	45	63	SSE	8	10.00	BKN070 OVC080
11 Apr 5:55 pm	57	43	59	S	15 <mark>G28</mark>	9.00	OVC070
11 Apr 5:35 pm	57	43	59	SSW	20G29	6.00	BKN070 OVC075
11 Apr 5:15 pm	61	43	51	SW	14 <mark>G20</mark>	10.00	OVC070
11 Apr 4:55 pm	61	43	51	SW	17 <mark>G24</mark>	10.00	OVC080
11 Apr 4:35 pm	63	41	45	SSW	21G26	9.00	OVC080
11 Apr 4:15 pm	66	37	35	S	20G25	5.00	OVC080
11 Apr 3:55 pm	66	37	35	S	22G29	4.00	OVC090
11 Apr 3:35 pm	66	37	35	S	18 G25	9.00	OVC090
11 Apr 3:15 pm	66	39	37	S	13	10.00	EEW065 BKN090
11 Apr 2:55 pm	66	30	37	 SS⊑	12621	10.00	EEW065
11 Apr 2:35 pm	60	20	25	00L	15021	10.00	FEW(100
11 Apr 2:33 pill	00	20	00 07		10010	10.00	EEW(100
	00	39 00	3/ 07	SOF	10018	10.00	
11 Apr 1:55 pm	66	39	3/	SSE	8	10.00	
11 Apr 1:35 pm	63	39	42	5	1	10.00	GLR
11 Apr 1:15 pm	63	39	42	SSE	10G17	10.00	CLR
11 Apr 12:55 pm	63	39	42	SSE	9	10.00	CLR
11 Apr 12:35 pm	61	39	45	SSE	9	10.00	CLR
11 Apr 12:15 pm	61	39	45	SE	7	10.00	CLR
11 Apr 11:55 am	61	39	45	SE	7	10.00	CLR

11 Apr 11:35 am	59	39	48	ESE	9	10.00	CLR
11 Apr 11:15 am	59	39	48	Е	7	10.00	CLR
11 Apr 10:55 am	59	39	48	ESE	8	10.00	CLR
11 Apr 10:35 am	57	39	51	SE	7	10.00	CLR
11 Apr 10:15 am	57	39	51	SE	7	10.00	CLR
11 Apr 9:55 am	57	39	51	SE	7	10.00	CLR
11 Apr 9:35 am	55	39	54	E	7	10.00	CLR
11 Apr 9:15 am	55	39	54	E	8	10.00	CLR
11 Apr 8:55 am	54	41	62	E	6	9.00	CLR
11 Apr 8:35 am	54	41	62	E	6	10.00	SCT047
11 Apr 8:15 am	52	41	66	E	7	10.00	BKN045
11 Apr 7:55 am	52	41	66	E	6	10.00	SCT045
11 Apr 7:35 am	50	39	66	E	6	10.00	FEW045
11 Apr 7:15 am	48	39	71	E	7	10.00	CLR
11 Apr 6:55 am	50	39	66	E	6	10.00	SCT045
11 Apr 6:35 am	50	39	66	E	6	10.00	OVC045
11 Apr 6:15 am	50	39	66	E	5	10.00	OVC045
11 Apr 5:55 am	52	39	62	ESE	5	10.00	BKN043
11 Apr 5:35 am	50	39	66	SE	3	10.00	BKN043
11 Apr 5:15 am	50	39	66	ESE	3	10.00	BKN043
11 Apr 4:55 am	48	39	71	ESE	5	10.00	BKN043
11 Apr 4:35 am	48	39	71	ESE	3	10.00	BKN041
11 Apr 4:15 am	48	39	71	SE	3	10.00	FEW041
11 Apr 3:55 am	48	39	71	ESE	5	10.00	CLR
11 Apr 3:35 am	48	39	71	ESE	3	10.00	CLR
11 Apr 3:15 am	48	39	71	ESE	3	10.00	CLR
11 Apr 2:55 am	48	39	71	CALM		10.00	CLR
11 Apr 2:35 am	48	39	71	CALM		10.00	CLR
11 Apr 2:15 am	48	39	71	CALM		10.00	CLR
11 Apr 1:55 am	48	39	71	CALM		10.00	CLR
11 Apr 1:35 am	48	39	71	CALM		10.00	CLR
11 Apr 1:15 am	48	39	71	CALM		10.00	CLR
11 Apr 12:55 am	48	37	66	CALM		10.00	CLR
11 Apr 12:35 am	48	37	66	E	3	10.00	CLR
11 Apr 12:15 am	48	37	66	CALM		10.00	CLR
10 Apr 11:55 pm	48	37	66	CALM		10.00	CLR

Hanford, Hanford Municipal Airport, CA (KHJO) Elev: 243 ft; Latitude: 36.31861; Longitude: -119.62889

Current time:	Mon,	12 Apr 1	17:22 pm (PDT)	ļ
Most Recent Observation:	Mon,	12 Apr 4	4:53 pm (PDT)	

Time	Temp.	Dew	Relative	Wind	Wind	Visibility	WX	Clouds	Quality
		Point	Humidity	Direction	Speed				Control
(PDT)	(f)	(f)	(%)		(mph)	(miles)			
12 Apr 4:53 pm	60	41	49	WSW	13 <mark>G21</mark>	10.00		FEW048 SCT100	OK
12 Apr 3:53 pm	61	43	52	WSW	9	10.00		FEW075 BKN100	OK
12 Apr 2:53 pm	60	42	51	SSW	15 <mark>G21</mark>	10.00		FEW048 SCT055 BKN065	OK
12 Apr 1:53 pm	55	46	72	SW	8	10.00 -	RA	SCT041 BKN050 OVC065	OK

ĩ	-				-					
	12 Apr 12:53 pm	61	46	58	S	14	10.00		FEW034 SCT042 BKN049	OK
	12 Apr 11:53 am	57	46	67	S	12	10.00		FEW032 BKN046 BKN055	OK
	12 Apr 10:53 am	57	46	67	SSE	13	10.00		BKN110	OK
	12 Apr 9:53 am	53	47	80	SE	10	10.00		CLR	OK
	12 Apr 8:53 am	48	47	96	SE	8	4.00	-RA BR	FEW035 BKN049 BKN060	OK
	12 Apr 7:53 am	48	45	89	SSE	9	8.00	-RA	BKN046 BKN055 OVC065	OK
	12 Apr 6:53 am	48	44	86	SE	6	10.00		BKN080 OVC110	OK
	12 Apr 5:53 am	48	45	89	SSE	8	10.00		BKN055 OVC070	OK
	12 Apr 4:53 am	46	45	96	SF	6	10.00		SCT070 BKN100	OK
	12 Apr 3:53 am	48	45	89	SSE	8	10.00		OVC060	OK
	12 Apr 2:53 am	48	44	86	SE	8	10.00		SCT043 BKN055 OVC095	OK
	12 Apr 1:53 am	16	13	80	ESE	a	10.00		BKN110	OK
	12 Apr 12:52 am	47	44	00		0	10.00		BKN039	OK
	12 Apr 12:55 am	47 10	44	90		0	10.00		01/0025	OK
	11 Apr 11:00 pm	40	47	100		0	10.00			OK
	11 Apr 11:28 pm	40	40	100	ESE	10	10.00		SC1026 OVC035	OK
	11 Apr 11:07 pm	48	48	100	ESE	/	10.00		BKN025 OVC030	OK
	11 Apr 10:53 pm	48	47	96	ESE	12G17	10.00		SC1027	OK
	11 Apr 9:53 pm	47	47	100	ESE	13	10.00		BKN110	OK
	11 Apr 8:53 pm	47	47	100	SE	8	9.00	-RA	BKN048 OVC065	OK
	11 Apr 7:53 pm	47	47	100	W	3	7.00	-RA	BKN040 OVC050	OK
	11 Apr 6:53 pm	47	46	97	W	10	5.00	-RA BR	BKN035 OVC047	OK
	11 Apr 6:32 pm	46	45	93	W	17 <mark>G28</mark>	4.00	RA BR	SCT035 BKN044 OVC055	OK
	11 Apr 6:18 pm	46	45	93	W	21G33	2.50	RA BR	SCT037 OVC060	OK
	11 Apr 5:53 pm	60	44	55	SSW	18 <mark>G26</mark>	10.00		SCT050 OVC065	OK
	11 Apr 4:53 pm	59	47	64	SW	13 <mark>G21</mark>	8.00	-RA	BKN040 OVC049	OK
	11 Apr 3:53 pm	65	38	37	S	24G36	4.00	HZ	SCT047 BKN070	OK
	11 Apr 2:53 pm	66	40	38	SE	12 <mark>G20</mark>	10.00		BKN070 BKN085	OK
	11 Apr 1:53 pm	67	42	40	SE	13	10.00		BKN060	OK
	11 Apr 12:53 pm	62	42	48	VRBI	6G16	10.00		BKN075	OK
	11 Apr 11:53 am	60	-⊥_ ∕\2	-0 51	SE	8	10.00		CLR	OK
	11 Apr 10:53 am	58	7 <u>~</u> 12	55		10	10.00		CLR	OK
	11 Apr 10.55 am	50	40	55		0	10.00			
	11 Apr 9.55 am	50	42	00		9	10.00			OK
	11 Apr 8:53 am	55	43	64 74	ESE	8	10.00			OK
	11 Apr 7:53 am	52	44	74	E	6	10.00		070050	OK
	11 Apr 6:53 am	50	43	//	ESE	3	10.00		0VC048	OK
	11 Apr 5:53 am	49	43	80	ESE	6	10.00		OVC048	OK
	11 Apr 4:53 am	49	42	77	SSE	3	10.00		BKN046	OK
	11 Apr 3:53 am	48	42	80	ESE	5	10.00		FEW044	OK
	11 Apr 2:53 am	48	41	77	ESE	5	10.00		CLR	OK
	11 Apr 1:53 am	48	41	77	SE	5	10.00		CLR	OK
	11 Apr 12:53 am	48	41	77	E	3	10.00		CLR	OK
	10 Apr 11:53 pm	51	39	63	WSW	5	10.00		CLR	OK
	10 Apr 10:53 pm	53	39	59	W	8	10.00		CLR	OK
	10 Apr 9:53 pm	54	39	57	WSW	8	10.00		CLR	OK
	10 Apr 8:53 pm	55	39	55	WSW	7	10.00		CLR	OK
	10 Apr 7:53 pm	57	39	51	W	7	10.00		CLR	OK
	10 Apr 6:53 pm	60	40	47	W	12	10.00		CLB	OK
	10 Apr 5:53 pm	65	40	., ∡∩	WSW	9	10.00		CLB	OK
	10 / pi 0.00 pin	00	10	10		5	10.00		01.1	01

Lemoore, Naval Air Station, CA (KNLC) Elev: 233 ft; Latitude: 36.30361; Longitude: -119.93806

Current time: Mon, 12 Apr 17:23 pm (PDT) Most Recent Observation: Mon, 12 Apr 4:56 pm (PDT) Wind Visibility WX Temp. Dew Relative Wind Time Clouds Point Humidity Direction Speed (PDT) (f) (f) (%) (mph) (miles) 12 Apr 4:56 pm 63 41 45 WSW 18G25 10.00 SCT040TCU SCT060 SCT100 BKN150 21G25 10.00 FEW046 SCT060 BKN100 BKN150 12 Apr 3:56 pm 62 40 44 WSW FEW046 SCT060 BKN100 BKN150 12 Apr 2:56 pm 64 41 43 SW 13G24 10.00 12 Apr 1:56 pm 10G23 10.00 SCT045 BKN060 BKN100 BKN150 62 40 44 SW 12 Apr 12:56 pm 43 50 SCT040 BKN060 BKN090 BKN150 62 S 14G18 10.00 12 Apr 11:56 am 55 S 14G17 10.00 SCT038 SCT050 BKN090 BKN150 60 44 12 Apr 10:56 am 58 46 65 S 13 10.00 SCT030 BKN060 BKN090 12 Apr 9:56 am 46 72 S 10.00 FEW030 SCT065 BKN110 55 14 47 SSE 15 10.00 12 Apr 8:56 am 53 80 SCT065 BKN100 12 Apr 7:56 am 49 46 90 S 12 10.00 FEW065 BKN100 46 45 93 S 10.00 12 Apr 7:14 am 6 FEW070 BKN090 12 Apr 6:56 am 46 44 3.00 SCT065 BKN100 93 SSE 6 SSE 12 Apr 5:56 am 45 43 93 8 3.00 CLR 12 Apr 4:56 am 48 45 89 S 10 3.00 SCT050 SCT070 OVC095 3.00 12 Apr 3:56 am 48 45 89 SSE 15 FEW080 BKN110 12 Apr 2:56 am 47 44 90 SE 12 3.00 FEW050 BKN065 12 Apr 1:56 am 43 89 SE 3.00 **FEW090** 46 13 12 Apr 12:56 am 45 43 93 ESE 12 3.00 CLR ESE 3.00 FEW029 BKN037 11 Apr 11:56 pm 47 44 90 q 11 Apr 10:56 pm 47 44 90 ESE 10 3.00 CLR 11 Apr 9:56 pm 86 ESE 3.00 CLR 47 43 12 11 Apr 8:56 pm 48 44 86 SSE 16 3.00 **FEW075** 11 Apr 7:56 pm 48 44 86 SSE 9 3.00 -RA BKN048 OVC065 3.00 -RA OVC050 11 Apr 6:56 pm 47 43 86 WSW 10 11 Apr 5:56 pm 43 83 WSW 26G32 3.00 RA BKN041 OVC055 48 11 Apr 5:48 pm 48 43 81 WSW 26G41 2.50 +RA SCT039 OVC055 11 Apr 5:43 pm 48 43 W 32G41 2.50 -RA SCT048 OVC055 81 25G31 10.00 11 Apr 4:56 pm 60 43 53 S **OVC060** 11 Apr 3:56 pm 63 40 43 SSW 22G29 10.00 -RA FEW045 OVC060 11 Apr 2:56 pm 39 SSE 64 40 16 10.00 **OVC065** 11 Apr 1:56 pm 63 40 43 SE 18G25 10.00 **BKN060** OVC200 11 Apr 12:56 pm 66 39 37 SSE 22G28 10.00 **BKN060** OVC200 11 Apr 11:56 am 61 39 44 SE 16G25 10.00 **BKN055** OVC200 **OVC065** 11 Apr 10:56 am SE 60 41 49 16 10.00 11 Apr 9:56 am 59 41 51 SSE 21 10.00 CLR SE 11 Apr 8:56 am 55 43 64 13 10.00 CLR 11 Apr 7:56 am 51 43 74 SE 8 9.00 CLR 7 11 Apr 6:56 am 50 41 71 SE 10.00 CLR 11 Apr 5:56 am 53 39 59 S 7 10.00 **OVC055** 11 Apr 4:56 am 42 71 SSE 6 10.00 **OVC049** 51 **OVC049** 11 Apr 3:56 am 50 41 71 Е 7 10.00 **BKN047** BKN055 11 Apr 2:56 am 49 40 71 SE 5 10.00 11 Apr 1:56 am 6 CLR 51 40 65 SSW 10.00 11 Apr 12:56 am 52 39 61 WSW 8 10.00 CLR

10 Apr 11:56 pm	52	38	59	WSW	10	10.00	CLR
10 Apr 10:56 pm	53	38	56	WSW	10	10.00	CLR

Fresno, Fresno Air Terminal, CA (KFAT) Elev: 331 ft; Latitude: 36.78000; Longitude: -119.71944

Mon, 12 Apr 17:23 pm (PDT) Current time: Most Recent Observation: Mon, 12 Apr 5:19 pm (PDT)

ĺ	Time	Temp	. Dew	Relative	Wind	Wind	Visibility	WX	Clouds
			Point	t Humidity	Direction	n Speed			
	(PDT)	(f)	(f)	(%)		(mph)	(miles)		
	12 Apr 5:19 pm	48	43	81	NE	9	7.00	TSRA	FEW019 BKN033 OVC050
	12 Apr 5:09 pm	46	43	87	E	6	2.00	TSRA	FEW019 BKN033 OVC050
	12 Apr 4:58 pm	46	41	81	VRBL	7G18	2.00	TSGSRA	FEW019 BKN033 OVC050
	12 Apr 4:53 pm	48	44	86	Ν	14 <mark>G21</mark>	8.00	-TSRA	FEW019 SCT040 OVC050
	12 Apr 4:26 pm	52	46	82	E	15 <mark>G23</mark>	4.00	VCTS RA	SCT039 BKN050CB OVC070
	12 Apr 3:53 pm	55	44	66	E	18 <mark>G24</mark>	10.00		FEW049 BKN060 BKN080
	12 Apr 2:53 pm	57	50	77	SE	14G18	10.00		FEW019 BKN036 BKN047
	12 Apr 2:41 pm	54	45	71	E	8	3.00	-RA	FEW019 BKN036 BKN045
	12 Apr 2:33 pm	54	46	77	SE	16	1.75	+RA	FEW023 SCT032 BKN043
	12 Apr 1:53 pm	60	43	53	ESE	16	10.00		SCT085
	12 Apr 12:53 pm	59	43	55	ESE	16	10.00		BKN035 BKN045
	12 Apr 11:53 am	59	43	55	SE	13	10.00		FEW035 SCT040 BKN055
	12 Apr 10:53 am	57	43	59	SSE	16 <mark>G23</mark>	10.00		FEW025 SCT070
	12 Apr 9:53 am	55	44	66	SSE	17 <mark>G23</mark>	10.00		SCT025 SCT070
	12 Apr 8:53 am	53	45	74	SSE	14	10.00		BKN065
	12 Apr 7:53 am	50	46	86	SE	12	10.00		FEW050 SCT090 BKN180
	12 Apr 6:53 am	49	46	90	ESE	8	10.00	-RA	SCT038 BKN048 OVC055
	12 Apr 5:53 am	49	45	86	SE	10	10.00	-RA	BKN070 OVC100
	12 Apr 4:53 am	47	44	90	SE	9	10.00		FEW045 SCT080
	12 Apr 3:53 am	48	43	83	ESE	10	10.00		FEW047 BKN060
	12 Apr 2:53 am	49	43	80	SE	9	10.00		OVC055
	12 Apr 1:53 am	48	43	83	SE	9	10.00		OVC100
	12 Apr 12:53 am	48	43	83	SE	12	10.00		FEW033 SCT150
	11 Apr 11:53 pm	48	43	83	SE	10	10.00		FEW028 OVC150
	11 Apr 10:53 pm	49	44	83	E	8	10.00		FEW028 OVC130
	11 Apr 9:53 pm	49	44	83	ESE	14	10.00		FEW025 BKN055 OVC130
	11 Apr 8:53 pm	48	45	89	E	15	10.00		BKN060 BKN070 OVC080
	11 Apr 7:53 pm	48	44	86	SE	6	6.00	-RA BR	BKN044 OVC050
	11 Apr 7:21 pm	48	45	87	WSW	8	5.00	-RA BR	BKN041 OVC050
	11 Apr 6:53 pm	49	45	86	W	14	2.50	-RA BR	FEW015 BKN041 OVC050
	11 Apr 6:24 pm	54	50	88	WSW	12	2.50	RA BR	BKN016 BKN026 OVC038
	11 Apr 6:00 pm	55	50	82	S	5	2.50	RA	SCT031 BKN043 OVC055
	11 Apr 5:53 pm	55	50	83	SSE	6	4.00	RA	BKN039 BKN047 OVC055
	11 Apr 4:53 pm	55	49	80	SSW	14	4.00	-RA	BKN035 BKN049 OVC055
	11 Apr 3:53 pm	61	44	54	SSE	9	8.00		SCT038 BKN048 BKN060 OVC130
	11 Apr 2:53 pm	63	39	41	SE	14 <mark>G25</mark>	10.00		FEW060 BKN080 OVC130
	11 Apr 1:53 pm	65	39	38	SE	20G26	10.00		FEW060 SCT080 BKN150 BKN200
	11 Apr 12:53 pm	62	38	41	SE	14	10.00		SCT050 BKN100 OVC150

11 Apr 11:53 am	n 61	40	46	ESE	14	10.00	FEW060 SCT100 OVC150
11 Apr 10:53 am	ı 59	40	49	SE	12	10.00	FEW060 SCT100 OVC130
11 Apr 9:53 am	58	39	49	SE	15 <mark>G21</mark>	10.00	BKN060 BKN100 OVC130
11 Apr 8:53 am	55	40	57	Е	9	10.00	OVC055
11 Apr 7:53 am	53	41	63	ESE	9	10.00	OVC049
11 Apr 6:53 am	53	40	61	E	9	10.00	OVC049
11 Apr 5:53 am	52	40	63	ESE	7	10.00	OVC049
11 Apr 4:53 am	52	40	63	ESE	6	10.00	OVC045
11 Apr 3:53 am	53	39	59	SSE	6	10.00	SCT047 BKN150 OVC200
11 Apr 2:53 am	54	39	57	S	8	10.00	OVC200
11 Apr 1:53 am	52	40	63	SE	7	10.00	OVC200
11 Apr 12:53 am	ı 52	40	63	ESE	8	10.00	OVC200
10 Apr 11:53 pm	n 54	40	59	Е	7	10.00	SCT200

Past Weather Conditions for GVPC1

Observations prior to selected time: April 11, 2010 - 23:59 PDT Weather Conditions at April 11, 2010 - 23:13 PDT

	Tabular Listing:	April 10, 20 ⁻	10 - 23:59 throu	ugh April 11, 20	10 - 23:59 PDT
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Time(PDT)	Temperature	e Dew	Wet Bulb	Relative	Wind	Wind	Wind
		Point	Temperature	Humidity	Speed	Gust	Direction
	°F	°F	° F	%	mph	mph	
23:13	32.0	31.5	31.8	98	1	8	Ν
22:13	33.0	32.5	32.8	98	7	10	NNE
21:13	36.0	35.2	35.7	97	5	33	ESE
20:13	37.0	35.4	36.3	94	28	57	S
19:13	37.0	36.0	36.5	96	32	50	S
18:13	38.0	37.0	37.5	96	35	53	S
17:13	38.0	34.5	36.4	87	38	52	S
16:13	40.0	34.3	37.3	80	30	55	S
15:13	42.0	34.7	38.5	75	42	59	S
14:13	42.0	36.9	39.5	82	43	61	S
13:13	41.0	36.2	38.7	83	45	64	S
12:13	41.0	34.7	38.0	78	50	61	S
11:13	41.0	32.3	37.0	71	47	58	S
10:13	40.0	30.7	35.8	69	47	58	S
9:13	37.0	31.1	34.4	79	42	50	S
8:13	36.0	31.9	34.2	85	32	47	S
7:13	35.0	31.8	33.6	88	30	39	SSE
6:13	35.0	30.1	32.9	82	26	35	SSE
5:13	34.0	31.4	32.9	90	18	34	SSE
4:13	34.0	33.0	33.6	96	24	43	S
3:13	35.0	33.7	34.4	95	31	39	S
2:13	35.0	33.7	34.4	95	26	34	S
1:13	36.0	34.7	35.4	95	21	32	SSE
0:13	36.0	34.7	35.4	95	21	30	SSE
23:13	37.0	35.2	36.2	93	20	27	SSE

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APPENDIX G: Climatology

G1. Climate Summaries

FRESNO WSO AP, CALIFORNIA (043257)

Period of Record Monthly Climate Summary

Period of Record : 7/ 1/1948 to 8/31/2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	54.5	61.5	67.0	74.5	83.6	91.7	98.3	96.3	90.5	79.7	65.3	54.6	76.5
Average Min. Temperature (F)	37.5	40.6	43.8	47.9	54.4	60.4	65.7	63.9	59.4	51.0	42.4	37.2	50.3
Average Total Precipitation (in.)	2.11	1.90	1.87	1.01	0.37	0.14	0.01	0.01	0.16	0.51	1.14	1.58	10.80
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 100% Min. Temp.: 100% Precipitation: 100% Snowfall: 91.2% Snow Depth: 91.3% Source: Western Regional Climate Center

HANFORD 1 S, CALIFORNIA (043747)

Period of Record Monthly Climate Summary

Period of Record : 7/ 1/1899 to 8/31/2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	54.7	61.9	67.6	75.0	83.7	91.4	97.9	96.1	90.4	80.0	66.3	55.4	76.7
Average Min. Temperature (F)	35.2	38.6	42.1	46.4	52.5	58.3	62.4	60.4	55.3	47.2	38.7	34.6	47.6
Average Total Precipitation (in.)	1.59	1.53	1.48	0.75	0.26	0.08	0.01	0.01	0.16	0.38	0.84	1.20	8.29
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent of possible observations for period of record. Max. Temp.: 98.4% Min. Temp.: 98.1% Precipitation: 98.8% Snowfall: 98.2% Snow Depth:													
98.2%													

Source: Western Regional Climate Center
CORCORAN IRRIG DIST, CALIFORNIA (042012)

Period of Record Monthly Climate Summary

Period of Record : 7/ 1/1948 to 8/31/2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	54.6	61.9	68.2	76.1	85.5	93.1	99.0	97.0	91.3	81.0	66.1	54.9	77.4
Average Min. Temperature (F)	36.5	39.7	42.7	46.5	52.9	58.7	63.4	61.9	57.4	49.2	40.6	35.8	48.8
Average Total Precipitation (in.)	1.48	1.34	1.13	0.66	0.23	0.05	0.01	0.01	0.16	0.32	0.73	0.98	7.09
Average Total SnowFall (in.)	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent of possible of	bserv	vations	s for p	eriod	of rec	ord.							
Max. Temp.: 99.5%	Min. T	emp.:	99.59	% Pre	cipitat	tion: 9	8.9%	Snow	rfall: 9	9.5%	Snow	Dept	th:
99.5%			_										

Source: Western Regional Climate Center

BAKERSFIELD WSO ARPT, CALIFORNIA (040442)

Period of Record Monthly Climate Summary

Period of Record : 10/1/1937 to 8/31/2009

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	57.4	63.6	69.0	75.8	84.3	92.1	98.7	96.6	90.9	80.6	67.3	57.8	77.8
Average Min. Temperature (F)	38.5	42.1	45.5	49.8	56.7	63.3	69.2	67.6	62.9	53.9	44.2	38.5	52.7
Average Total Precipitation (in.)	1.05	1.17	1.12	0.66	0.21	0.07	0.01	0.04	0.11	0.30	0.60	0.78	6.12
Average Total SnowFall (in.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Average Snow Depth (in.)	0	0	0	0	0	0	0	0	0	0	0	0	0

Percent of possible observations for period of record.

Max. Temp.: 99.6% Min. Temp.: 99.6% Precipitation: 99.7% Snowfall: 92.4% Snow Depth: 92.2%

Source: Western Regional Climate Center

G2. Preliminary Climatological Data for October 2009

Bakersfield, CA - April 2010

CXUS56 KHNX 011246 CF6BFL PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) STATION: BAKERSFIELD CA MONTH: APRIL YEAR: 2010 LATITUDE: 35 25 N LONGITUDE: 119 3 W TEMPERATURE IN F: :PCPN: SNOW: WIND :SUNSHINE: SKY :PK WND _____ === 3 4 5 6A 6B 7 8 9 10 11 12 13 1 2 14 15 16 17 18 12Z AVG MX 2MIN DY MAX MIN AVG DEP HDD CDD WTR SNW DPTH SPD SPD DIR MIN PSBL S-S WX SPD DR _____ === 1 62 38 50 -10 15 0 0.00 0.0 0 7.1 14 310 5 18 М М 330 2 0 0.00 0.0 0 4.0 14 350 42 54 -6 11 3 17 66 М М 340 0 6.4 14 330 0 0.00 0.0 3 65 44 55 -5 10 М М 5 20 10 4 66 40 53 -7 12 0 T 0.0 0 4.6 17 350 М М 3 22 320 5 62 42 52 -8 13 0 0.08 0.0 0 8.9 28 310 М 51 38 М 310 6 66 37 52 -9 13 0 0.00 0.0 0 3.9 13 330 0 8 16 М М 300 7 77 5 0 0.00 0.0 0 5.0 15 340 0 20 43 60 -1 М М 10 8 79 62 1 3 0 0.00 0.0 0 4.6 13 290 45 М М 0 16 320 74 9 48 61 0 4 0 0.00 0.0 0 3.4 12 260 М М 0 15 260 0 9.2 21 330 10 74 50 62 1 3 0 0.00 0.0 М М 0 25 320 11 68 48 58 -4 7 0 0.41 0.0 0 15.0 39 150 М М 2 18 46 150 12 64 46 55 -7 10 0 0.04 0.0 0 6.2 22 280 М М 6 26 290 13 66 46 56 -6 9 0 T 0.0 0 3.9 13 320 М М 6 15 290

										STAT MONTI YEAR LATI LONG	ION H: : TUDI ITUI	: BA AP 20 E: DE: 1	KERSF RIL 10 35 25 19 3	IELD N W	CA		
PREI	LIMI	NARY	LOC	CAL (CLIMA	TOL	DGICAL	DAT	A (WS	FORM	: F	-6),	PAGE	2			
NOTI # LZ COLI	ES: AST (JMN	OF S 17 P	EVEF	RAL (WINI	OCCUR D IN	RENO	CES.H.										
====	====:		====			====	======	=====		<pre>/ # </pre>	لا ر ====	±30	=====		====	# 40 =====	=====
=== AV MAX	70.8 (MPH	46.)	7					MT.SC		6.1 -> #	FA:	STST 150	М	М	3	# 46	150
=== SM 2	2124	140	0		203	20	1.14		0.0 1	.83.0			M ======		76		
30 320 ====	68	46 ====	57	-9 ====	8	0	0.03	0.0	0	5.0	17	310	M ======	M 	5		26 =====
29 330	63	43	53	-13	12	0	0.02	0.0	0	10.4	20	350	М	М	6		26
28 310	69	48	59	-7	6	0	0.04	0.0	0	11.0	28	310	М	М	8	1	33
310 27 220	81	57	69	4	0	4	0.00	0.0	0	8.7	23	320	М	М	1		29
310 26	85	58	72	7	0	7	0.00	0.0	0	5.0	13	290	М	М	0		18
300 25	81	54	68	3	0	3	0.00	0.0	0	4.3	13	280	М	М	0	8	18
260 24	77	50	64	-1	1	0	0.00	0.0	0	3.8	13	320	М	М	0		16
260 23	70	42	56	-8	9	0	0.00	0.0	0	2.8	10	260	M	M	0	Ţ	15
21 280 22	58	45	52	-14	13	0	0.27	0.0	0	3.4	10	200	M	M	0	1	13
20 300 21	69 57	46	58	-6	15	0	0.16	0.0	0	8.0	32	300	M	M	/	18	41
19 M	81	57	69	6	0	4	0.00	0.0	0	8.2	М	М	М	М	0	1.0	М
18 280	82	52	67	4	0	2	0.00	0.0	0	5.2	16	320	М	М	0		21
17 250	76	47	62	-1	3	0	0.00	0.0	0	4.6	12	280	М	М	0	18	16
16 310	75	52	64	1	1	0	0.00	0.0	0	6.0	14	310	М	М	1	8	20
15 310	72	46	59	-3	6	0	0.00	0.0	0	4.9	13	270	М	М	0	18	23
14 310	71	45	58	-4	7	0	0.00	0.0	0	4.1	14	300	М	М	1	8	20

SYMBOLS USED IN COLUMN 16 [TEMPERATURE DATA] [PRECIPITATION DATA] AVERAGE MONTHLY: 58.7 TOTAL FOR MONTH: 1.14 1 = FOG OR MIST DPTR FM NORMAL: -4.0 DPTR FM NORMAL: 0.69 2 = FOG REDUCING VISIBILITY HIGHEST: 85 ON 26 GRTST 24HR 0.44 ON 11-12 TO 1/4 MILE OR LESS LOWEST: 37 ON 6 3 = THUNDERSNOW, ICE PELLETS, HAIL 4 = ICE PELLETSTOTAL MONTH: 0.0 INCH 5 = HAIL GRTST 24HR 0.0 6 = FREEZING RAIN ORDRIZZLE GRTST DEPTH: 0 7 = DUSTSTORM ORSANDSTORM: VSBY 1/2 MILE OR LESS 8 = SMOKE OR HAZE [NO. OF DAYS WITH] [WEATHER - DAYS WITH] 9 = BLOWING SNOW X = TORNADO MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 9 MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 3 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0 [HDD (BASE 65)] CLEAR (SCALE 0-3) 19 TOTAL THIS MO. 203 DPTR FM NORMAL 84 PTCLDY (SCALE 4-7) 11 TOTAL FM JUL 1 2139 CLOUDY (SCALE 8-10) 0 DPTR FM NORMAL 53 [CDD (BASE 65)] TOTAL THIS MO. 20 DPTR FM NORMAL -36 [PRESSURE DATA] TOTAL FM JAN 1 20 HIGHEST SLP 30.33 ON 6 DPTR FM NORMAL -44 LOWEST SLP 29.72 ON 21 [REMARKS] #FINAL-04-10#

Hanford, CA - April 2010

CXUS56 KHNX 011246 CF6HJO PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) STATION: HANFORD CA AIRPORT MONTH: APRIL YEAR: 2010 LATITUDE: 36 19 N LONGITUDE: 119 38 W TEMPERATURE IN F: :PCPN: SNOW: WIND :SUNSHINE: SKY :PK WND

=== 1 18	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17
DY DR	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	12Z DPTH	AVG SPD	MX SPD	2MIN DIR	MIN	PSBL	S-S	WX	SPD
===	:===: :						=====		=====			====:		=====		=====	
1 M	63	36	50	М	15	0	0.00	0.0	0	7.	/ M	М	М	М	2		М
2	65	34	50	М	15	0	Т	0.0	0	3.6	5 14	320	М	М	2		16
320 3	63	40	52	М	13	0	0.00	0.0	0	8.5	5 16	320	М	М	2		22
330	56	31	15	м	20	0	0 05	0 0	0	6	1 1 0	220	М	м	Л		25
230	50	54	40	M	20	0	0.05	0.0	0	0.4	± 10	220	IVI	141	4		20
5 310	62	42	52	М	13	0	0.15	0.0	0	7.6	5 23	310	М	М	5	1	30
6	66	41	54	М	11	0	0.00	0.0	0	7.1	L 14	340	М	М	0		22
300 7	7.5	38	57	М	8	0	0.00	0.0	0	3.5	7 10	310	М	М	0		13
320						•		•••	, ,			010			•		
8 310	78	43	61	М	4	0	0.00	0.0	0	3.9	9 14	310	М	М	0	18	20
9	74	48	61	М	4	0	0.00	0.0	0	7.3	3 17	320	М	М	0		21
330 10	69	48	59	М	6	0	0.00	0.0	0	6.7	7 16	200	М	М	0		21
260	C 0	4 7	FO		-	0	0.00	0 0	0	0		000	M	N	C	1.0	4.0
260	68	4 /	58	M	/	0	0.26	0.0	0	9.0) 29	200	M	M	6	18	43
12	63	45	54	М	11	0	0.08	0.0	0	7.8	3 20	210	М	М	8	1	25
13	65	40	53	М	12	0	0.00	0.0	0	2.4	1 9	320	М	М	4	12	12
330 14	70	39	55	М	10	0	0 00	0.0	0	5.6	5 1 3	310	М	М	0	1	18
320	, 0	0.9	00	11	10	Ū	0.00	0.0	Ū	0.0	. 10	010		11	Ū	-	10
15 80	72	45	59	М	6	0	0.00	0.0	0	4.4	124	220	М	М	0		41
16	75	48	62	М	3	0	0.00	0.0	0	7.3	3 16	330	М	М	0	1	26
20 17	77	49	63	М	2	0	0.00	0.0	0	7.() 13	330	М	М	0		31
250	0.1	ΕO	C C	м	0	1	0 00	0 0	0	1 1	1.0	250	м	М	0		М
M	ΟŢ	50	00	1*1	0	T	0.00	0.0	0	4.1	L 10	330	IVI	Iv1	0		1*1
19 м	82	50	66	М	0	1	0.00	0.0	0	5.3	3 M	М	М	М	0	18	М
20	61	45	53	М	12	0	0.64	0.0	0	7.1	L 21	320	М	М	8	1	45
80 21	55	42	49	М	16	0	0.34	0.0	0	5.6	5 1 4	300	М	М	7	1	2.6
30						•	0.01	•••	, ,							-	20
22 170	57	44	51	М	14	0	Т	0.0	0	1.7	/ 8	170	М	М	6	1	10
23	69	39	54	М	11	0	0.00	0.0	0	1.1	L 8	50	М	М	1	128	10
40 24 M	78	44	61	М	4	0	0.00	0.0	0	3.8	3 12	320	М	М	0	128	М

25	81	49	65	М	0	0	0.00	0.0	0	5.0	12	300	М	М	0			15
320 26	86	52	69	М	0	4	0.00	0.0	0	3.5	13	310	М	М	0	18		М
M 27	78	52	65	М	0	0	0.00	0.0	0	6.9	20	220	М	М	3	8		25
220 28	67	48	58	М	7	0	0.11	0.0	0	8.5	23	330	М	М	8			29
330 29	66	41	54	М	11	0	0.00	0.0	0	10.8	24	320	М	М	3			30
320 30 350	68	37	53	М	12	0	0.00	0.0	0	3.5	13	350	М	М	1			18
==== SM 2	2090	131	===== 0 =====		247	 6 	1.63	====:	0.0	172.9			 M 	====:	70			====
=== AV (59.7	43.	7							5.8	FAS	STST	М	М	2			
MAX	(MPH))						MIS	C	-> #	29	200				#	45	80
PREI	_ 1 M 1 I	NARI	LOCA	L (LIMA.	IOT()GICAL	DAI	A (WS	STAT MONT YEAR LATI	ION H: : TUDI	-6), : HA AP 20 E:	PAGE NFORD RIL 10 36 19	CA Z	AIRI	POR	Γ	
										LONG	ITUI	DE: 1	19 38	W				
[TEN	1PERA	ATUR	e dat	'A]		[PI	RECIPI	TATI	ON DAT	ΓΑ]		SYM	BOLS	USED	IN	CO	LUMN	16
AVE DPT	RAGE R FM	MON' NORI	THLY: MAL:	56	5.7 M	TO: DP:	TAL FO TR FM	r Moi Normi	NTH: AL:	1.6	3 M	1 = 2 =	FOG FOG	OR MI REDU(IST CINC	7		
HIGH	HEST: EST:	:	86 C 34 C	N 2	4.2	GR	CST 24	HR	0.68 (ON 20	-21	3 =	TO 1 THUN	/4 M	ILE	OR	LES	S
1011	101.		510		1, 2	SNO TOT GRT	DW, IC FAL MO FST 24	E PE: NTH: HR	LLETS, 0.(0.(, HAI) INC)	L H	4 = 5 = 6 =	ICE HAIL FREE	PELLI ZING	ETS RAI	EN (OR	
DRIZ	ZZLE					GR.	IST DE	PTH:	0			7 =	DUST	STORI	M OF	ર		
SANI	OSTO	RM:										0	VSBY	1/2	MII	E (OR L	ESS
[NO	. OF	DAY	S WIT	Ή]		[W I	EATHER	. – Dž	AYS WI	ITH]		0 = 9 = X =	BLOW	ING : ADO	SNOV	5 E) V		
MAX MAX MIN MIN	32 (90 (32 (0 (OR B OR A OR B OR B	ELOW: BOVE: ELOW: ELOW:		0 0 0 0	0.0 0.2 0.5)1 INC LO INC 50 INC)0 INC	H OR H OR H OR H OR	MORE MORE MORE MORE	7 5 1								

[HDD (BASE 65)]					
TOTAL THIS MO.	247	CLEAR	(SCAL	E 0-3)) 2	20
DPTR FM NORMAL	М	PTCLDY	(SCAL	E 4-7))	8
TOTAL FM JUL 1	2707	CLOUDY	(SCAL	E 8-10))	2
DPTR FM NORMAL-	297263					
[CDD (BASE 65)]					
TOTAL THIS MO.	6					
DPTR FM NORMAL	М	[PRESSU	RE DA	.TA]		
TOTAL FM JAN 1	6	HIGHEST	SLP	30.34	ON	6
DPTR FM NORMAL	М	LOWEST	SLP	29.74	ON	21
[REMARKS]						
#FINAL-04-10#						

Fresno, CA - April 2010

CXU	S56 Fat	KHN	X 011	1246													
PRE	LIM	INAR	Y LO	CAL	CLIM	ATOLO	OGICAL	DAT	A (WS	FORM	4: F	-6)					
										STAT MONT YEAR LATT LONG	TION TH: R: TTUD GITU	: E: DE:	FRESI APRII 2010 36 119	NO CA 1 16 N 13 W			
T WND	EMPI	ERATU	JRE I	IN F	:		PCPN:		SNOW:	WIN	1D		:SUNS	SHINE	: SK	Y 	:PK
 1 18	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17
DY DR	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	12Z DPTH	AVG SPD	MX SPD	2MIN DIR	MIN	PSBL	S-S	WX	SPD
===	====								;		====:	====					
1 330	63	39	51	-7	14	0	0.00	0.0	0	6.5	5 13	310	М	М	5		17
2 120	63	41	52	-6	13	0	Т	0.0	0	3.4	1 15	310	М	М	7		20
3	60	43	52	-6	13	0	0.00	0.0	0	9.2	2 18	320	М	М	7		24
4	57	40	49	-10	16	0	0.12	0.0	0	9.0	20	150	М	М	8		23
5 320	61	43	52	-7	13	0	0.20	0.0	0	6.2	2 2 4	320	М	М	6	1	32
6 330	65	39	52	-7	13	0	0.00	0.0	0	4.3	3 14	320	М	М	2		18
7	74	43	59	0	6	0	0.00	0.0	0	2.5	5 9	280	М	М	0		13

====	====:		====	====	=====	====		====					=====	====:			====
=== AV (MAX	58.8 (MPH)	46.	6					MIS	с	6.1 -> #	FAS 30	STST 300	М	М	5	# 40	300
=== SM 2 ====	2065	139	7		227	15	2.19	====:	0.0 1	L84.0			M ======	=====	147 ====		====
30 300 ====	69 =====	44	57	-8	8 =====	0	0.00	0.0	0	4.6	14	310 =====	M 	M =====	4		20
29 310	65	43	54	-10	11	0	Т	0.0	0	13.5	26	310	М	М	5		36
28 320	65	48	57	-7	8	0	0.05	0.0	0	10.0	25	320	М	М	7	1	36
27 250	76	56	66	2	0	1	Т	0.0	0	10.0	20	310	М	М	9		30
320 26 300	85	58	72	8	0	7	0.00	0.0	0	4.7	14	310	М	М	3		16
350 25	81	54	68	5	0	3	0.00	0.0	0	3.6	12	340	М	М	1	18	16
150 24	78	52	65	2	0	0	0.00	0.0	0	4.5	14	320	М	М	3	18	21
210 23	69	43	56	-7	9	0	0.00	0.0	0	1.7	9	170	M	M	2	-	15
270	57	46	52	-11	13	0	0.01	0.0	0	2.6	9	170	M	M	9	1	2.2
20 300 21	6Z	46	54 49	-8	11	0	0.77	0.0	0	9.2	3U 15	250	M	M	9	1	40
19 M	81	54	68	6	0	3	0.00	0.0	0	4.5	M	M	М	M	4	1	M
18 280	80	52	66	4	0	1	0.00	0.0	0	2.9	8	310	М	М	5		13
17 300	77	49	63	2	2	0	0.00	0.0	0	5.4	12	310	М	Μ	4		16
16 310	74	50	62	1	3	0	0.00	0.0	0	7.6	14	310	М	М	2	1	18
15 310	71	45	58	-3	7	0	0.00	0.0	0	3.4	14	300	М	М	6		16
14 340	70	45	58	-3	7	0	0.00	0.0	0	5.7	15	330	М	М	3		20
13 13 330	65	42	54	-7	11	0	0.00	0.0	0	2.7	10	320	М	М	3	1	13
120 12 130	61	46	54	-6	11	0	0.35	0.0	0	10.5	22	150	М	М	6	135	29
160 11	65	47	56	-4	9	0	0.37	0.0	0	10.6	23	130	М	М	10	18	30
310 10	68	50	59	-1	6	0	0.00	0.0	0	8.4	18	180	М	М	7		23
310 9	73	47	60	0	5	0	0.00	0.0	0	5.2	14	300	М	М	1		17
240 8	77	48	63	3	2	0	0.00	0.0	0	4.8	16	320	М	М	0		22

NOTES: # LAST OF SEVERAL OCCURE	RENCES		
COLUMN 17 PEAK WIND IN N	1.P.H.		
PRELIMINARY LOCAL CLIMAT	TOLOGICAL DATA (WS	FORM: F-6	5) , PAGE 2
		STATION: MONTH: YEAR: LATITUDE: LONGITUDE	FRESNO CA APRIL 2010 : 36 46 N E: 119 43 W
[TEMPERATURE DATA]	[PRECIPITATION DAT	ΓA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 57.7 DPTR FM NORMAL: -3.5	TOTAL FOR MONTH: DPTR FM NORMAL:	2.19 1.43	1 = FOG OR MIST 2 = FOG REDUCING
HIGHEST: 85 ON 26 LOWEST: 39 ON 6, 1	GRTST 24HR 0.77 (SNOW, ICE PELLETS, TOTAL MONTH: 0.0	N 20-20 , HAIL D INCH	TO $1/4$ MILE OR LESS 3 = THUNDER 4 = ICE PELLETS 5 = HAIL 6 = EEEEZING BAIN OR
DRIZZLE	CRISI DEPTH. 0	5	7 = DIISTSTORM OR
SANDSTORM:	GRISI DEFIN: 0		VSBY 1/2 MILE OR LESS 8 = SMOKE OR HAZE
[NO. OF DAYS WITH]	[WEATHER - DAYS W]	ITH]	9 = BLOWING SNOW X = TORNADO
MAX 32 OR BELOW: 0 MAX 90 OR ABOVE: 0 MIN 32 OR BELOW: 0 MIN 0 OR BELOW: 0	0.01 INCH OR MORE 0.10 INCH OR MORE 0.50 INCH OR MORE 1.00 INCH OR MORE	: 8 : 6 : 1 : 0	
[HDD (BASE 65)] TOTAL THIS MO. 227 DPTR FM NORMAL 87 TOTAL FM JUL 1 2323 DPTR FM NORMAL -83	CLEAR (SCALE 0-3) PTCLDY (SCALE 4-7) CLOUDY (SCALE 8-1)) 11) 14)) 5	
[CDD (BASE 65)] TOTAL THIS MO. 15 DPTR FM NORMAL -25 TOTAL FM JAN 1 15 DPTR FM NORMAL -28	[PRESSURE DATA] HIGHEST SLP 30.33 LOWEST SLP 29.73	ON 6 ON 21	
[REMARKS] #FINAL-04-10#			

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APPENDIX H: AQS Printout

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

User ID: FUV

RAW DATA REPORT

Report Request	ID: 9	903508				Report (Code:	AMP350	C					Aug. 25, 2011
								GEOGRA	APHIC SE	LECTIONS				
Tribal										EPA				
Code State	e County	Site	Parameter	POC	City	AQCR	UAR	CBSA	CSA	Region	Method	Duration	Begin Date	End Date
06	029													
06	031													
06	019													
06	047													
06	077													
06	107													
06	099													
	PROTOCO	L SELECT	TIONS											
Parameter														
Classificati	on Pa	rameter	Method I	Duratic	on									
		81102]									
		85101												
	SELE	CTED OPI	TIONS								SORT O	RDER		
Option	n Type				Opti	on Value				Order	Co	lumn		
RAW DAT	A EVENTS				INCLU	DE EVENTS	5			1	STAT	E_CODE		
INCLUD	E NULLS					YES				2	COUNT	TY_CODE		
DAILY ST	TATISTICS				:	MEAN				3	SIT	ſE_ID		
MERGE P	DF FILES				ст	YES				4	PARAME	TER_CODE		
UN	112				51	ANDARD				5	E	POC		
	GLOBAL	DATES										APPLICABLE	STANDARDS	
Start Da	te	End	Date									Standard D	escription	
2010 04	01	2010	04 30						L			PM10 24-h	10ur 2006	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

							AIR QUAL	ITY SYSTEM					
							RAW DAI	TA REPORT					Aug. 25, 2011
(81102) PM10	Total 0-10um ST	ſP									CAS NUMBER:	
SITE I COUNTY CITY: 0 SITE A SITE C MONITO SUPPOR MONITO	D: 06-019-00(: (019) Fress (27000) Fress DDRESS: 4706 OMMENTS: ARB R COMMENTS: T AGENCY: (0) R TYPE: SLAMS	07 POC:: no E. DRUMMOND S' SITE NUMBER 1(GMW HI-VOLUME : 945) San Joaqui	1 I., FRESNO D00244 NEW SI SAMPLER W/ SI n Valley Unif	ITE 07/84. ERRA ANDERSON 12 fied Air Polluti	200 SSI INLET .on Control D	istrict	STATE AQCR URBAI LAND LOCA	E: (06) Califor : (031) SAN JG NIZED AREA: (2840 USE: COMMERCIA TION SETTING: ORT FOR: 2010	rnia DAQUIN VALLEY)) FRESNO, CA L SUBURBAN		DURATIO	LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL PROBE HEIGHT: N: 24 HOUR	36.705556 -119.741389 11 4065510 255112 : 89 5
COLLEC	TION AND ANA	LYSIS METHOD.	(063) HT-VOL	SA/GMW-1200 GRA	VIMETRIC		1121	0111 1 0111			UNITS:	Micrograms/cubic met	er (25 C)
POAO	(0145) Ca	alifornia Air F	esources Boar	-d							MIN DET	ECTABLE: 2	
Day 1	MONTH JANUARY	FEBRUARY	MARCH	APRIL	МАҮ	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
2				28									
3													
4													
5													
6													
7													
8				43									
9													
10													
11													
12													
13													
14				16									
15													

NO.: MAX: 43.

ANNUAL OBSERVATIONS: ANNUAL MAX: 43. ANNUAL MEAN: 24.4 Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region

24.4

MEAN:

has reviewed the value and does not concur with the qualifier.

-	0.5	0044
Aug.	25,	2011

							RAW DAT	TA REPORT					Aug. 25, 2011
()	85101) PM10 -	- LC										CAS NUMBER:	36 705556
SITE I	D: 06-019-000	7 POC: 3	1				STATI	. (06) Calife	maia			LATITUDE:	36./05556
COUNTY	: (019) Fresn	.0					JOCP	• (081) CAILLO	DIUTS AVITES			LUNGIIUDE:	-119.741389
CITY: (27000) Fresn	0					IIDDA	. (USI) SAN C	IOAQUIN VALLEI			UIM LONE;	• 4065510
SITE A	DDRESS: 4706	E. DRUMMOND S	I., FRESNO				LAND	USE: COMMERCI	AI.			UTM EASTING	255112
SITE CO	OMMENTS: ARB	SITE NUMBER 10	000244 NEW SI	TE 07/84.			LOCA	TION SETTING:	SUBURBAN			ELEVATION-MSI	233112
MONITO	R COMMENTS: (GMW HI-VOLUME :	SAMPLER W/ SIE	RRA ANDERSON 12	200 SSI INLET							PROBE HEIGHT	:
SUPPOR	T AGENCY: (09	45) San Joaqui	n Valley Unif	ied Air Polluti	on Control Distr	ict		201	0		DURATION	: 24 HOUR	
COLLEC	R TIPE: OTHER	VOIG METHOD.	(063) HT_VOL-9	A/CMM1200 CDAVI	METRIC		REP	ORT FOR: 201	0		UNITS: M	Nicrograms/cubic me	ter (LC)
PQAO:	(0145) Ca	lifornia Air F	esources Board	d	MEIRIC						MIN DETE	CTABLE: 2	()
	MONTH												
Day 1	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
2				29									
3				20									
4													
5													
6													
7													
8				43									
9													
10													
11													
12													
13				4.5									
14				16									
15													
17													
18													
19													
20				11									
21													
22													
23													
24													
25													
26				24									
27													
28													
29													
30													
τC													
NO.:	0	0	0	5	0	0	0	0	0	0	0	0	
MAX:				43.									
MEAN:				24.6									
ANNUA	L OBSERVATIO	NS: 5	ANNUAL MEA	N: 24.6	ANNUAL MAX:	43.							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

7110	25	2011
Aug.	201	2011

						IGIW DITT	i itali olti				1	lug. 20, 2011
(81102) PM	10 Total 0-10um S	STP									CAS NUMBER:	
SITE ID: 06-019- COUNTY: (019) Fr CITY: (27000) Fr SITE ADDRESS: 3 SITE COMMENTS: 1 MONITOR COMMENT:	-0008 POC: resno 425 N FIRST ST, F RELOCATED ABOUT 1 S: GMW HI-VOLUME	1 FRESNO -2/3 MI. NNW OF SAMPLER W/SIERRA	FRESNO-OLIVE #	AVENUE SITE. ARB EL 1200 SSI INLET	SITE NAME (# I.	STATE AQCR: URBAN) IS FF LAND LOCAT	: (06) Califo (031) SAN J IZED AREA: (284 USE: RESIDENTI ION SETTING:	rnia OAQUIN VALLEY D) FRESNO, CA TAL SUBURBAN			LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	36.781389 -119.772222 11 4074004 252601 96 13
SUPPORT AGENCY:	(0145) Californi	a Air Resources	Board							DURATION	24 HOUR	
MONITOR TYPE: SI	AMS	(0.62)	(a)			REPO	RT FOR: 2010)		UNITS: Mi	crograms/cubic mete	r (25 C)
PQAO: (0145)	California Air	(U63) HI-VOL SA/ Resources Board	GMW-1200 GRAV	IMEIRIC						MIN DETECT	TABLE: 2	1 (25 6)
MONTH												
Day JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1 2 3			10									
4 5 6 7												
8 9 10 11 12			15									
13 14 15 16 17			11									
18 19 20 21 22 23 24			6									
25 26 27 28 29 30 31			26									
NO.: MAX: MEAN:	0 0	0	5 26. 13.6	0	0	0	0	0	0	0	0	
ANNUAL OBSERVA	TIONS: 5	ANNUAL MEAN:	13.6	ANNUAL MAX:	26.							

RAW		REPORT
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-	0.5	0044
Aug.	25,	2011

(851)	01) PM10 - 3	LC										CAS NUMBER:	
SITE ID: (06-019-0008	POC:	L									LATITUDE:	36.781389
COUNTY: (C)19) Fresno						STATE	: (06) Califo	rnia			LONGITUDE:	-119.772222
CITY: (270	00) Fresno						AQCR:	(031) SAN J	OAQUIN VALLEY			UTM ZONE:	11
SITE ADDRE	ESS: 3425 N	FIRST ST, FI	RESNO				URBAN	IIZED AREA: (284	0) FRESNO, CA			UTM NORTHING:	4074004
SITE COMM	ENTS: RELOC	ATED ABOUT 1-	-2/3 MI. NNW 0	F FRESNO-OLIVE	AVENUE SITE. ARE	SITE NAME (#	#) IS FI	USE: RESIDENT	IAL			UTM EASTING:	252601
MONITOR CO	OMMENTS: GM	W HI-VOLUME S	SAMPLER W/ SIE	RRA ANDERSON 12	200 SSI INLET		LOCAT	ION SETTING:	SUBURBAN			ELEVATION-MSL:	96
SUPPORT A	GENCY: (0145	5) California	Air Resource	s Board				201	<u>_</u>		DURATION	: 24 HOUR	
MONITOR T	YPE: OTHER	ALC METHOD.	(0(2) 117 1201 0	A (CMR1200 CD21)	METERO		REPO	DRT FOR: 201	0		UNITS. M	icrograms/cubic met	er (LC)
COLLECTION	(014E) Coli	SIS METHOD:	(U63) HI-VOL-S	A/GMWIZUU GRAV.	LMEIRIC						MIN DETER	TELOGIANS/CADIC NCC	(10)
PQAU:	(0145) Call	liornia Air R	esources Board	1							MIN DELEG	JABLE: Z	
M	IONTH			10011						00000000	NOUTUDED		
Day JA	ANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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NO.:	0	0	0	5	0	0	0	0	0	0	0	0	
MAX:				26.									
MEAN:				13.8									
ANNUAL O	BSERVATIONS	: 5	ANNUAL MEA	N: 13.8	ANNUAL MAX:	26.							
	1												

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Aug.	20,	2011

							RAW DAI	A REPORT				1	Aug. 25, 2011
()	85101) PM10 -	LC										CAS NUMBER:	
	D 06 010 000											LATITUDE:	36.781389
SITE II	D: 06-019-000	8 POC: 4	1				STATE	: (06) Califo	ornia			LONGITUDE:	-119.772222
COUNTY	: (019) Fresn	0					AQCR :	(031) SAN 3	JOAQUIN VALLEY			UTM ZONE:	11
CITY: (2/UUU) Fresh) N DIDOT OT DI					URBAN	NIZED AREA: (284	10) FRESNO, CA			UTM NORTHING:	4074004
SIIE A	ODRESS: 3425	N FIRSI SI, FI	2/2 MT NNW C	E EDERNO OLIVE	AUDMID OTTE ADD	CTTE NAME (LAND	USE: RESIDENT	IAL			UTM EASTING:	252601
MONITO	D COMMENTS: RELC	CALED ABOUT 1-	2/5 MI. NNW C	DF FRESNO-OLIVE	AVENUE SIIE, ARD	SIIE NAME (LOCAT	TION SETTING:	SUBURBAN			ELEVATION-MSL:	96
MONITO	R COMMENTS:											PROBE HEIGHT:	
SUPPOR	T AGENCY: (01	45) California	Air Resource	es Board									
MONITO	R TYPE: IMPRO	νe					REP	DRT FOR: 201	0		DURATION	: 24 HOUR	
COLLEC	TION AND ANAL	YSIS METHOD:	(808) IMPROVE	Module D with C	yclone Inle						UNITS: M	icrograms/cubic mete	er (LC)
PQAO:	(0745) Na	tional Park Se	rvice								MIN DETE	CTABLE:	
	MONTH												
Dav	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
-													
1				10 451									
3				12.431									
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5				5.822									
6													
7													
8				14.868									
9													
10													
11				18.765									
12													
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14				10.582									
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17				10.089									
18													
19													
20													
22													
23				14.529									
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25													
26				23.813									
27													
28													
29				9.190									
30													
31													
NO.:	0	0	0	9	0	0	0	0	0	0	0	0	
MAX:				23.813									
MEAN:				13.3453									
ANNITA	L OBSERVATIO	15. 0	ANNULAT ME?	ANI: 13 3/52	ANNIIAI. MAY•	23 813							
THAN OF	LE ODGERVATION		ANNUAL MEA	LJ.3433	INNOAL PAA:	20.010							

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Aug. 25, 2011

(81: SITE ID: COUNTY: (CITY: (14 SITE ADDE SITE COMM MONITOR (102) PM10 T 06-019-5001 (019) Fresno (218) Clovis RESS: 908 N MENTS: LOCA COMMENTS: G	VILLA AVE, CN FED IN CLOVIS WW HI-VOLUME S	FP 1 LOVIS MAINTENANCE Y/ SAMPLER W/ SIE:	ARD. ARB SITE N RRA ANDERSON 12	AME (#) IS CLOVI 00 SSI INLET	S-908 N VILL	STA: AQC URB LAN LAN LOC	TE: (06) Calif R: (031) SAN ANIZED AREA: (28- D USE: RESIDENT ATION SETTING:	ornia JOAQUIN VALLEY 40) FRESNO, CA FIAL URBAN AND CEN	NTER CITY		CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSI PROBE HEIGHT:	36.819167 -119.716389 11 4078053 257704 : 86 6
SUPPORT A	AGENCY: (094	15) San Joaqui	.n Valley Unifi	ied Air Polluti	on Control Distr	ict					DURATIO	N· 24 HOUR	
MONITOR 1	TYPE: SLAMS						RE	PORT FOR: 201	10		UNITC . I		(25 G)
COLLECTIO	ON AND ANAL	YSIS METHOD:	(063) HI-VOL S	A/GMW-1200 GRAV	/IMETRIC						UNIIS: I	nicrograms/cubic met	.er (25 C)
PQAO:	(0145) Cal	litornia Air R	lesources Board	1							MIN DETH	SCTABLE: 2	
	MONTH												
Day 3	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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MAX:				31.									
MEAN:				17.8									
ANNIIAT	OBSERVATION	S: 5	ANNITAT MEA	N• 17 0	ANNIIAI. MAY•	31							
			THER DEL	±/•0		01.							

							RAW DATA	REPORT				Au	ıg. 25, 2011
(8	35101) PM10 -	LC										CAS NUMBER:	26 010167
SITE II COUNTY: CITY: (SITE AI SITE CO MONITOP	0: 06-019-5001 : (019) Fresno 14218) Clovis DDRESS: 908 N DMMENTS: LOCAT R COMMENTS: GM	POC: : VILLA AVE, C: ED IN CLOVIS W HI-VOLUME :	L LOVIS MAINTENANCE YAI SAMPLER W/ SIER	RD. ARB SITE NA RA ANDERSON 12	AME (#) IS CLOVIS 00 SSI INLET	5-908 N VILLA	STATE: AQCR: URBAN: LAND T LOCAT:	(06) Califor (031) SAN J(IZED AREA: (284) JSE: RESIDENTI ION SETTING:	rnia DAQUIN VALLEY)) FRESNO, CA AL URBAN AND CEN	TER CITY		LATITODE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	-119.716389 11 4078053 257704 86
SUPPORT	I AGENCY: (094	5) San Joaqui	n Valley Unifie	ed Air Pollutio	on Control Distri	lct					DURATION	24 HOUR	
MONITOR	R TYPE: OTHER			(REPO	RT FOR: 2010			UNITS: Mi	crograms/cubic motor	(1.C)
COLLECT	FION AND ANALY	SIS METHOD:	(063) HI-VOL-SA	/GMW1200 GRAVI	METRIC						UNITS: MI	The second s	(TC)
PQAO:	(0145) Cal	liornia Air F	esources Board								MIN DETEC	TABLE: 2	
	MONTH												
Day 1	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
2				18									
4 5 6													
7 8				22									
9 10 11 12													
13 14 15				12									
16 17 18													
20 21 22				9									
23 24 25													
26 27 28 29 30				31									
31													
NO.: MAX: MEAN:	0	0	0	5 31. 18.4	0	0	0	0	0	0	0	0	
ANNUA	L OBSERVATIONS	S: 5	ANNUAL MEAN	18.4	ANNUAL MAX:	31.							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

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(8	85101) PM10 ·	- LC										CAS NUMBER:	
OTTE TI		DOG DOG	1									LATITUDE:	37.2206398608
COUNTY	. (010) Erect	FOC:	1				STATE	: (06) Califo	rnia			LONGITUDE:	-119.15555696
CITY. (. (019) Fiesi						AQCR:	(031) SAN J	OAQUIN VALLEY			UTM ZONE:	
CIII: (DRESS. Kain	or					URBAN	IZED AREA: (000	0) NOT IN AN URE	AN AREA		UTM NORTHING:	
STIE A	MMENTS.	CT.					LAND	USE: FOREST				UTM EASTING:	
MONITO	COMMENTS:						LOCAT	ION SETTING:	RURAL			ELEVATION-MSL	: 2598
MONITO	COMMENTS:											PROBE HEIGHT:	
SUPPOR	r AGENCY: (07	745) National H	Park Service								DUDATIO	N. 04 HOUD	
MONITOR	R TYPE: IMPRO	VE					REPC	RT FOR: 2010)		DURATIO	N: 24 HOUR	
COLLEC	FION AND ANA	LYSIS METHOD:	(808) IMPROVE	Module D with C	Cyclone Inle						UNITS:	Micrograms/cubic met	er (LC)
PQAO:	(0745) Na	ational Park Se	ervice								MIN DET	ECTABLE:	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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2				3.005									
3													
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5				2.281									
6													
7													
8				3.701									
9													
10													
11				8.707									
12													
13													
14				3.460									
15													
16													
17				7.073									
18													
19													
20				3.209									
21													
22				0.000									
23				3.926									
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20				10.759									
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NO.:	0	0	0	9	0	0	0	0	0	0	0	0	
MAX:				IU./59									
MEAN:				5.1246									
ANNUA	L OBSERVATIO	NS: 9	ANNUAL ME.	AN: 5.1246	ANNUAL MAX:	10.759							

RAW	DATA	REPORT
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Aug.	25,	2011
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(8: SITE ID COUNTY: CITY: (4 SITE AD SITE COI MONITOR SUPPORT	1102) PM10 T : 06-029-001 (029) Kern 18452) Mojave DRESS: 923 MMENTS: ARB COMMENTS: G AGENCY: (01	otal 0-10um S POC: : POOLE STREET, SITE NAME (NUM MW HI-VOLUME : 45) California	IP 1 MOJAVE, CA 933 MBER) IS MOJAVE SAMPLER W/ SIEJ A Air Resources	501 E-923 POOLE ST RRA ANDERSON 12 3 Board	(1500252). AT MO 200 SSI INLET	JAVE AIRPORI	STATE AQCR URBAI I ANIMAI LOCA	: (06) Califc : (033) SOUTH NIZED AREA: (068 USE: MOBILE FION SETTING:	ornia HEAST DESERT 0) BAKERSFIELD, RURAL	CA		CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	35.050556 -118.146389 11 3879053 395450 853
MONITOR	TYPE: OTHER						REP	ORT FOR: 201	0		DURATION:	24 HOUR	
COLLECT	ION AND ANAL	YSIS METHOD:	(063) HI-VOL S.	A/GMW-1200 GRAV	/IMETRIC						UNITS: Mi	crograms/cubic met	er (25 C)
PQAO:	(0145) Ca	lifornia Air B	lesources Board	1							MIN DETEC	TABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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1				0									
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MAX:	5	0	0	12.	-	0	0	0	Ŭ	0	-	-	
MEAN.				8.3									
						10							
ANNUAL	. OBSERVATION	15: 4	ANNUAL MEAI	N: 8.3	ANNUAL MAX:	12.							

RAW DATA REPORT

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(85	5101) PM10 -	- LC										CAS NUMBER:	35 050556
SITE ID:	: 06-029-001	1 POC: 1	L				STAT	'E: (06) Califo	ornia			LONGITUDE:	-118.146389
COUNTY:	(029) Kern						AQCI	R: (033) SOUTH	HEAST DESERT			UTM ZONE:	11
CITY: (4	8452) Mojave	e		5.01			URB	ANIZED AREA: (068	0) BAKERSFIELD,	CA		UTM NORTHING:	3879053
SITE ADI	JRESS: 923	POOLE SIREEI,	MOJAVE, CA 93	SUL DOOLE ST	(1500252) 37	MOTAVE ATREO	LANI	USE: MOBILE				UTM EASTING:	395450
MONITOR	COMMENTS: ARB	SILE NAME (NUM	BER) IS MOJAV	REA ANDERSON 1	(1500252). AI	MOJAVE AIRPO	LOC	ATION SETTING:	RURAL			ELEVATION-MSL:	853
110111101	COLIDITID. C	Shiw hit vollohil t	JARN BER W/ SII	Inter Indention I.	LOU SOI INEEI							PROBE HEIGHT:	
SUPPORT	AGENCY: (01	.45) California	Air Resource	s Board				0.01	0		DURATION	: 24 HOUR	
MONITOR	TYPE: OTHER	VOID METHOD.	(0(2) UT 101		METRIC		RE	PORT FOR: 201	0		UNITS. M	licrograms/cubic met	er (LC)
COLLECT.	(0145) Ca	JISIS MEIHOD:	(U63) HI-VOL-	5A/GMWIZUU GRAV	IMEIRIC						MIN DETE	CTABLE: 2	
PQA0:	(0145) Ca	IIIOINIA AIL K	esources boar	a							MIN DEIE	CIADLE: Z	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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MAX:				11.									
MEAN:				7.5									
ANNUAL	OBSERVATIO	NS: 4	ANNUAL MEA	AN: 7.5	ANNUAL MAX	: 11.							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

Aug. 25, 2011

(81102) PM10 Total 0-10um STP		CAS NUMBER:
SITE ID: 06-029-0014 POC: 1 COUNTY: (029) Kern CITY: (03526) Bakersfield SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD SITE COMMENTS: MONITOR COMMENTS: GMW HI-VOL W/ SA 1200 SSI INLET - CARB PRIMARY SAMPLER	STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0680) BAKERSFIELD, CA LAND USE: MOBILE LOCATION SETTING: URBAN AND CENTER CITY	LATITUDE: 35.356111 LONGITUDE: -119.040278 UTM ZONE: 11 UTM NORTHING: 3914247 UTM EASTING: 314614 ELEVATION-MSL: 0 PROBE HEIGHT:
SUPPORT AGENCY: (0145) California Air Resources Board MONITOR TYPE: SLAMS COLLECTION AND ANALYSIS METHOD: (063) HI-VOL SA/GMW-1200 GRAVIMETRIC PQAO: (0145) California Air Resources Board MONTH	REPORT FOR: 2010	DURATION: 24 HOUR UNITS: Micrograms/cubic meter (25 C) MIN DETECTABLE: 2

Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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29												
30												
31												
NO.:	0	0	0	5	0	0	0	0	0	0	0	0
MAX:				31.								
MEAN:				23.6								
ANNUAL	OBSERVATIONS	: 5	ANNUAL MEAN:	23.6	ANNUAL MAX:	31.						

RAW	DATA	REPORT	

Aug. 25, 2011

(811	102) PM10 T	otal 0-10um SI	TP									CAS NUMBER:	35.356111
SITE ID: COUNTY: (CITY: (03 SITE ADDH SITE COMM	COUNTY: (029) Kern CITY: (029) Kern CITY: (03526) Bakersfield SITE ADDRESS: 5558 CALIFORNIA AVE, BAKERSFIELD SITE COMMENTS: MONITOR COMMENTS: CMM HI_VOL W/ SA 1200 SSI INLET - CARE COLLOCATED SAMPLER						STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0680) BAKERSFIELD, CA LAND USE: MOBILE						-119.040278 11 3914247 314614
MONITOR (COMMENTS: G	MW HI-VOL W/	SA 1200 SSI IN	NLET - CARB COLL	OCATED SAMPLER		1001	iiion obiiiino.	UNDIN IND CDI			PROBE HEIGHT:	
SUPPORT A MONITOR 1	AGENCY: (01- IYPE: OTHER	45) California	a Air Resource	s Board			REF	PORT FOR: 201	.0		DURATION	: 24 HOUR	
COLLECTIO	ON AND ANAL	YSIS METHOD:	(063) HI-VOL S	SA/GMW-1200 GRAV	IMETRIC						UNITS: M	icrograms/cubic met	er (25 C)
PQAO:	(0145) Ca	lifornia Air F	Resources Board	d							MIN DETE	CTABLE: 2	
	MONTH												
Day 3	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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A NINITIA T	00000173 TT 0	IS. 6	A \$15,000 \$ \$1000		ANNITAT MANY.	2.2							
THOMP	OPDER/ATTON	· · ·	ANNUAL MEA	-1N: ZD.D	ANNOAL PAA:	J2.							

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							RAW DA	TA REPORT					Aug. 25, 2011
(8	85101) PM10 -	LC										CAS NUMBER:	
												LATITUDE:	35.356111
SITE II	D: 06-029-001	A POC: 1	1				STAT	E: (06) Califo	rnia			LONGITUDE:	-119.040278
COUNTY:	: (029) Kern	£1-1-1					AQCE	k: (031) SAN J	OAQUIN VALLEY			UTM ZONE:	11
CITY: (U3526) Bakers	TIEId					URBA	NIZED AREA: (068	0) BAKERSFIELD,	CA		UTM NORTHING:	3914247
SITE AL	DDRESS: JJJ0	CALIFORNIA AVI	E, DAREKSFIELD				LAND	USE: MOBILE				UTM EASTING:	314614
MONITOR	R COMMENTS: C	MW HT-VOL W/	NT 1200 SST TN	LET - THE PRIMA	RV SAMPLER		LOCA	TION SETTING:	URBAN AND CEN	TER CITY		ELEVATION-MSL	: 0
110141101	COLLENID. C	IN HI VOL W/ S	511 1200 551 11									PROBE HEIGHT:	
SUPPORT	I AGENCY: (01	45) California	Air Resource:	s Board							DUDATION		
MONITOR	R TYPE: SLAMS						REF	PORT FOR: 201	0		DURATION	. 24 HOUR	
COLLECT	TION AND ANAL	YSIS METHOD:	(063) HI-VOL-S	A/GMW1200 GRAVI	METRIC						UNITS: M	licrograms/cubic met	er (LC)
PQAO:	(0145) Ca	lifornia Air R	lesources Board	1							MIN DETE	CTABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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NO -	<u>_</u>	0	0	-	0	0			0	0	0	0	
MDX.	U	U	0	31	U	0	L	, 0	U	0	U	U	
MEVN.				24 0									
ADAN:		-		21.0									
ANNUA	L OBSERVATION	IS: 5	ANNUAL MEA	N: 24.0	ANNUAL MAX:	31.							

-	0.5	
Aug.	25,	2011

							RAW DA1	'A REPORT					Aug. 25, 2011
()	85101) PM10 ·	- LC										CAS NUMBER:	
												LATITUDE:	35.356111
SITE II	D: 06-029-001	.4 POC:	2				STATE	: (06) Califo	rnia			LONGITUDE:	-119.040278
COUNTY	: (U29) Kern	-64-1-1					AQCR	: (031) SAN J	OAQUIN VALLEY			UTM ZONE:	11
CIII: (USSZO) Baker	CALIFORNIA AV	E DAVEDORIEII	0			URBAI	NIZED AREA: (068	0) BAKERSFIELD,	CA		UTM NORTHING	3914247
STIE A	DURESS: JJJ0	CALIFORNIA AV	E, BAREKSFIELD	5			LAND	USE: MOBILE				UTM EASTING:	314614
MONITO	R COMMENTS: (SMW HI-VOL W/	SA 1200 SSI IN	NLET - THE COLLC	CATED SAMPLER		LOCA	FION SETTING:	URBAN AND CEN	ITER CITY		ELEVATION-MSI	L: 0
												PROBE HEIGHT:	:
SUPPOR	I AGENCY: (01	.45) California	a Air Resource	es Board							DURATION	J. 24 HOUR	
MONITO	R TYPE: OTHER						REP	ORT FOR: 2010)		UNITE: N	lianagrama (qubia ma	tor (IC)
COLLEC'	FION AND ANAL	LYSIS METHOD:	(063) HI-VOL-S	SA/GMW1200 GRAVI	IMETRIC						UNITS: F	arciograms/cubic me	ter (LC)
PQAO:	(UI45) Ca	illiornia Air F	esources Boar	a							MIN DETE	SCIABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1													
2				20									
3													
4													
5													
6													
.7				2.0									
8				32									
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10	0	<u>_</u>	0	~	0	<u>^</u>		<u>^</u>	^	<u>^</u>	0	0	
NU.: MAV·	U	U	0	3.0 Q	U	U	U	U	U	U	U	U	
MEVN.				52. 25 7									
MEAN:				20.1									
ANNUA	L OBSERVATIO	NS: 6	ANNUAL MEA	AN: 25.7	ANNUAL MAX:	32.							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

Aug. 25, 2011

(85101)	PM10 - 1	LC																			CAS	S NUMBER	:		
SITE I	D: 06-02	29-0014		POC: 5																		LAT	TITUDE:	-	35.3561	11
COUNTY	: (029)	Kern											STATE	: (06)) Califo:	rnia						LON	IGITUDE:		-119.040	J278
CITY:	(03526)	Bakersf	ield										AQCR:	(03:	1) SAN JO	DAQUIN N	VALLEY					UTM	1 ZONE:		1	
SITE A	DDRESS:	5558 C	ALIFORN	IA AVE,	BAKERSFI	IELD							URBAN	IIZED AR	EA: (068))) BAKEF	RSFIELD,	CA				UTN	1 NORTHI	NG:	3914247	
SITE C	OMMENTS	:											LAND	USE: M	OBILE							UTN	1 EASTIN	G: .	314614	
MONITC	R COMME	NTS:											LOCAT	TON SET	TING:	URBAN	AND CE	NTER CIT	Y			ELE	SVATION-	MSL: ()	
GIIDDOD	T ACENC	v. (01/1	5) Colif	ornia A	ir Posou	rcos Por	rd															PRO	DBE HEIG	HT: 2	-	
MONITC	OR TYPE:	SLAMS	J) Calli	OINIA A	II Kesou	ILCES DOG	IL U						REPORT	FOR:	APRIL	2	010			DU	JRATION:	1 HOUR				
COLLEC	TION AN	ID ANALY:	SIS METH	HOD: (12	22) INST	RUMENT M	ET ONE	4 MODELS	ВЕТА А											UI	NITS: Mic	rograms	/cubic m	neter (LC)	
PQAO:	(014	45) Cali	ifornia	Air Res	ources B	loard														MI	IN DETEC	TABLE:	4			
HOU	JR																									MEAN
DAY	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	MEAN
1	9	9	12	12	11	12	12	10	13	14	21	21	11	24	21	16	20	19	16	18	22	26	22	24	24	16.5
2	27	19	27	19	18	21	25	35	26	31	17	23	20	25	19	13	13	25	18	22	64	29	29	27	24	24.7
3	28	14	15	20	17	.7	9	18	20	31	27	24	36	27	25	23	26	27	29	25	29	32	31	18	24	23.3
4	21	25	1 /	23	19	20	24	34	23	23	16	13	21	22	51	34	13	1/	18	18	13	14	15	24	24	21.6
5	19	24	23	14	8	17	17	24	20	22	17	14	15	13	9	22	20	15	12	9	12	14	17	14	24	12.1
7	10	24	20	20	20	20	12	24	29	22	10	20	15	10	22	22	20	24	24	19	∠4 41	25	Z / E 1	50	24	20.3
, e	55	J4 //5	19	30	30	16	40	16	50	52	40 DA	25	27	20	10	16	16	13	21	40	3.2	40	17	30	24	37.0
9	41	33	33	30	37	40	50	55	36	32	27	27	36	34	32	31	35	41	41	40	43	63	59	57	24	40 1
10	57	41	39	37	31	36	44	51	51	33	29	40	38	37	45	47	56	44	51	41	33	32	35	29	24	40.7
11	23T.T	31 Т.Т	28T.T	29T.T	331.1	40 T.T	36T.T	381.1	391.1	67T.T	242T.T	7651.	T 1000T.T	9251.1	45 654T.T	482T.T	418T.T	430T.T	3721.1	241.1	12T.T	11 T.T	9T.T	4 T.	r 24	238 0
12	2	2	5	7	11	19	33	15	15	17	17	14	13	11	20	9	30	12	29	27	23	23	23	20	24	16.5
13	15	11	10	17	13	14	22	AZ	AZ	14	11	6	10	13	19	7	9	9	8	11	17	21	30	33	22	14.5
14	24	20	23	46	25	35	44	54	54	37	26	21	18	28	28	19	16	23	33	34	42	41	41	38	24	32.1
15	29	20	13	18	15	18	25	20	20	12	19	18	21	28	32	34	36	26	32	39	40	51	51	52	24	27.9
16	48	56	52	21	21	21	26	25	24	28	31	25	37	36	40	42	41	40	33	34	40	46	33	31	24	34.6
17	35	33	30	30	27	33	28	31	23	23	12	19	15	19	16	21	25	19	29	31	42	62	47	43	24	28.9
18	48	35	45	34	29	37	42	41	40	40	37	29	31	32	30	28	24	21	30	30	36	30	30	27	24	33.6
19	23	27	25	37	35	43	61	41	36	41	40	35	39	38	39	30	28	23	28	36	22	14	13	11	24	31.9
20	9	8	8	10	12	31	30	41	20	83	6	5	2	2	4	7	6	5	7	5	5	4	4	6	24	13.3
21	4	2	2	5	7	8	18	15	11	6	7	8	5	2	2	6	9	4	2	2	2	2	2	2	24	5.5
22	2	2	9	9	6	8	14	15	13	9	9	6	4	5	2	6	8	6	6	7	21	25	29	23	24	10.2
23	22	25	28	27	28	19	19	23	12	14	13	8	9	11	10	18	16	14	10	9	29	34	51	42	24	20.5
24	36	29	46	31	27	34	38	24	28	21	24	19	19	15	20	17	26	27	23	29	32	34	38	48	24	28.5
25	54	43	39	38	38	45	47	54	52	51	36	25	26	25	23	22	24	20	20	25	39	45	34	42	24	36.1
26	46	46	30	41	38	46	54	51	34	33	31	35	28	31	33	31	22	30	39	42	39	52	51	51	24	38.9
27	55	41	32	21	30	54	53	49	45	40	37	48	21	34	45	63	26	51	15	12	6	5	4	4	24	33.0
28	2	6	6	4	2	12	1/	18	21	11	14	ВА	14	14	23	19	12	14	1/	20	12	1/	11	9	23	15.3
29	17	5	4	10	11	4	24	9	11	11	10	0	2	1.4	12	12	10	23	12	40	29	32	25	22	24	15.2
30	1 /	7	2	τu	11	10	24	20	11	7	τu	0	7	1.41	10	10	τu	1 /	10	22	27	20	20	20	24	10.0
J 1																									0	
NO.:	30	30	30	30	30	30	30	29	29	30	29	28	30	30	30	30	30	30	30	30	30	30	30	30		
MAX:	57.	56.	52.	46.	38.	54.	61.	55.	54.	83.	242.	765.	1000.	925.	654.	482.	418.	430.	372.	44.	64.	63.	59.	57.		
AVG:	26.8	23.9	23.7	22.8	21.6	26.2	31.1	31.1	27.6	28.0	28.8	46.4	52.5	51.8	44.8	37.3	34.9	35.3	34.9	24.8	28.0	29.7	29.8	28.6		

MONTHLY OBSERVATIONS: 715 MONTHLY MEAN:

32.1 MONTHLY MAX:

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

1000.

							RAW DATA	REPORT					Aug. 25, 2011
()	81102) PM10 '	Total 0-10um ST	ΓP									CAS NUMBER:	25 622000
SITE I	D: 06-029-001	L5 POC: 3	1				STATE:	(06) Califor	rnia			LATITUDE:	-117 677222
COUNTY	: (029) Kern						AOCB	(033) SOUTHE	EAST DESERT			UTM ZONE:	11
CITY: (60704) Ridge	crest					IIRBAN'	(0000) 0001111)) NOT IN AN URP	AN AREA		UTM NORTHING	3942245
SITE A	DDRESS: 100	WEST CALIFORNIA	A AVE, RIDGECF	REST, CA			LAND U	ISE: COMMERCIA	I.			UTM EASTING:	438673
SITE CO	OMMENTS: CAR	B SITE NUMBER 1	15-300.				LOCAT	ION SETTING:	URBAN AND CEN	TER CITY		ELEVATION-MSI	: 701
MONITO	R COMMENTS:	GMW HI-VOLUME :	SAMPLER W/ SIE	ERRA ANDERSON 12	00 SSI INLET							PROBE HEIGHT:	3
SUPPOR	I AGENCY: (05	575) Kern Count	y APCD					0.01.0			DURATION	1:24 HOUR	
MONITO	R TYPE: SLAMS		(0.62) HT HOL				REPO!	RT FOR: 2010			UNITS. N	licrograms/cubic met	er (25 C)
POAO.	(0145) Ca	LISIS MEIHOD: alifornia Air B	(U63) HI-VOL S Resources Board	SA/GMW-1200 GRAV d	IMEIRIC						MIN DETE	CTABLE: 2	(20 0)
1 2110 1	(0110) 00		Cooling of the second sec	4									
Dav	MONIH	FEBRILARY	MARCH	APRTI.	MAY	TIME		AUGUST	SEDTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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NO.:	0	0	0	5	0	0	0	0	0	0	0	0	
MAX:				19.									
MEAN:				14.4									
ANNUA	L OBSERVATIC	NS: 5	ANNUAL MEA	AN: 14.4	ANNUAL MAX:	19.							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

7110	25	2011
nuy.	201	2011

													5
(8	85101) PM10 -	LC										CAS NUMBER:	
SITE II	D: 06-029-001	5 POC • 1										LATITUDE:	35.623889
COUNTY	• (029) Kern		-				STATE	: (06) Califo	ornia			LONGITUDE:	-117.677222
CITY (60704) Ridger	rest					AQCR:	(033) SOUTH	IEAST DESERT			UTM ZONE:	11
SITE AL	DDRESS: 100 W	EST CALIFORNIA	AVE. RIDGECR	EST. CA			URBAN	IZED AREA: (000	0) NOT IN AN URE	BAN AREA		UTM NORTHING:	3942245
SITE CO	OMMENTS: CARB	SITE NUMBER 1	5-300.	,			LAND	USE: COMMERCIA	AL			UTM EASTING:	438673
MONITOR	R COMMENTS: G	MW HI-VOLUME S	SAMPLER W/ SIE	RRA ANDERSON 12	00 SSI INLET		LOCAT	ION SETTING:	URBAN AND CEN	ITER CITY		ELEVATION-MSL	: 701
												PROBE HEIGHT:	
SUPPORT	I AGENCY: (05	75) Kern Count	y APCD					0.01	0		DURATIO	N: 24 HOUR	
MONITOR	R TYPE: OTHER		(0(2)) HT HOL O	. (0.011000 000111			REPC	ORT FOR: 201	0		UNITS. 1	Micrograms/cubic met	er (LC)
COLLECT	(014E) Co	ISIS MEIHOD:	(U63) HI-VOL-S	A/GMWIZUU GRAVI	MEIRIC						MIN DET	ECTABLE. 2	(10)
PQA0:	(0145) Ca.	LILOFNIA AIF K	esources Board	L							MIN DEI	ECIABLE: Z	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1													
2				14									
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NU.: MAX:	0	0	0	19	U	U	U	U	U	0	U	U	
MEAN.				13 R									
PILAN:				10.0									
ANNUA	L OBSERVATION	IS: 5	ANNUAL MEAN	N: 13.8	ANNUAL MAX:	18.							

							RAW DATA	REPORT				P	ug. 25, 2011
(8	31102) PM10 I	otal 0-10um SI	P									CAS NUMBER:	35.7277796549
SITE II COUNTY: CITY: (SITE AI SITE CO	D: 06-029-001 : (029) Kern 00000) Not in DDRESS: 3147 DMMENTS:	7 POC: 2 n a city Highway 178, (Canebrake				STATE: AQCR: URBANI LAND U	(06) Califor (033) SOUTHE ZED AREA: (0000 SE: DESERT	rnia EAST DESERT)) NOT IN AN URB	AN AREA		LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION_MGI.	-118.13931200
MONITOR	R COMMENTS: P	PM10 SSI HI-VO	L SAMPLER				LUCAII	ON SEITING:	RURAL			PROBE HEIGHT:	914.4
SUPPORT MONITOF	I AGENCY: (01 R TYPE: NON-RI FION AND ANAL	45) California EGULATORY YSIS METHOD:	Air Resources (063) HI-VOL SA	Board A/GMW-1200 GRAV	IMETRIC		REPOR	T FOR: 2010			DURATION UNITS: N	N: 24 HOUR Micrograms/cubic mete	r (25 C)
PQAO:	(0145) Ca	lifornia Air R	esources Board								MIN DETE	CTABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1 2 3				6									
4 5													
6 7				3									
8 9				AN									
10 11 12													
13 14				AG									
15 16													
17 18													
19 20 21				19									
22 23													
24 25 26				14									
27 28 29 30 31													
NO.: MAX: MEAN:	0	0	0	4 19. 10.5	0	0	0	0	0	0	0	0	
ANNUA	L OBSERVATIO	NS: 4	ANNUAL MEAN	1: 10.5	ANNUAL MAX:	19.							
Notor	0	adaa with magi	onal conqueron	ao ano aboun it									

							RAW DATA	REPORT					Aug. 25, 2011
(8	5101) PM10 -	LC										CAS NUMBER:	25 202220/540
SITE ID COUNTY: CITY: ((SITE AD SITE CC MONITOR	: 06-029-001 (029) Kern 00000) Not in DRESS: 3147 DMMENTS: COMMENTS: F	7 POC: 1 n a city Highway 178, (M10 SSI HI-VOI	Canebrake SAMPLER				STATE: AQCR: URBANI LAND US LOCATIO	(06) Califor (033) SOUTHE EED AREA: (0000 SE: DESERT DN SETTING:	nia AST DESERT) NOT IN AN URB# RURAL	AN AREA		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING UTM EASTING: ELEVATION-MS	-118.13931200 : L: 914.4
SUPPORT	AGENCY: (01	45) California	Air Resources	Board								PROBE HEIGHT	:
MONITOR	TYPE: NON-RI	EGULATORY YSIS METHOD:	(063) HI-VOL-SA/	GMW1200 GRAVI	METRIC		REPOR	r FOR: 2010			DURATION UNITS: M	I: 24 HOUR Micrograms/cubic me	ter (LC)
PQAO:	(0145) Ca	lifornia Air R	esources Board								MIN DETE	CTABLE: 2	
Day	MONTH JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1 2 3				5									
4 5 6				2									
7 8 9				AN									
10 11 12 13 14 15				AG									
16 17 18 19 20 21 22 23				18									
24 25 26 27 28 29 30 31				13									
NO.: MAX: MEAN:	0	0	0	4 18. 9.5	0	0	0	0	0	0	0	0	
ANNUAI	L OBSERVATIO	IS: 4	ANNUAL MEAN:	9.5	ANNUAL MAX:	18.							
Note:	Qualifier c	odes with regi	onal concurrenc	e are shown i	n upper case, and	those withou	1						

							RAW DAT	A REPORT					Aug. 25, 2011
(8	81102) PM10 7	Fotal 0-10um SI	P									CAS NUMBER:	
SITE IN COUNTY CITY: (SITE AN SITE CO MONITON	D: 06-029-023 : (029) Kern 53448) Oilda DDRESS: 3311 OMMENTS: ARB R COMMENTS: (2 POC: 2 le MANOR ST., OII SITE NUMBER 15 GMW HI-VOLUME S	2 JDALE 00243 NEW S SAMPLER W/ SI	ITE 10/83. ERRA ANDERSON 1	200 SSI INLET		STATE AQCR URBAI LAND LOCAT	C: (06) Califo (031) SAN J NIZED AREA: (068) USE: INDUSTRIA TION SETTING:	ORDIN VALLEY OAQUIN VALLEY O) BAKERSFIELD, AL SUBURBAN	CA		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSI PROBE HEIGHT:	35.438889 -119.015833 11 3923383 317022 : 180
SUPPOR: MONITOP COLLEC: PQAO:	I AGENCY: (01 R TYPE: SLAMS TION AND ANAI (0145) Ca	45) California LYSIS METHOD: lifornia Air R	Air Resource (063) HI-VOL esources Boan	es Board SA/GMW-1200 GRA cd	VIMETRIC		REP	ORT FOR: 201	0		DURATION UNITS: N MIN DETE	1:24 HOUR Micrograms/cubic met CCTABLE:2	er (25 C)
	MONTH												
Day 1 2 3 4 5 6	JANUARY	FEBRUARY	MARCH	APRIL 20	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
7 8 9 10 11 12				37									
13 14 15 16 17 18				22									
19 20 21 22 23 24				10									
25 26 27 28				38									

NO.: MAX: 38. 25.4 MEAN:

ANNUAL OBSERVATIONS: ANNUAL MAX: 38. ANNUAL MEAN: 25.4

Aug.	25,	2011
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							RAW DATA	A REPORT					Aug. 25, 2011
(8	5101) PM10 -	- LC										CAS NUMBER:	
SITE ID COUNTY: CITY: (5 SITE AD SITE CO MONITOR	: 06-029-023 (029) Kern 53448) Oilda DRESS: 3311 MMENTS: ARB COMMENTS: 0	2 POC: le MANOR ST., OI SITE NUMBER 1 SMW HI-VOLUME	1 LDALE 500243 NEW S SAMPLER W/ SI	ITE 10/83. ERRA ANDERSON 12	200 SSI INLET		STATE AQCR: URBAN LAND LOCAT	: (06) Califor (031) SAN JO IZED AREA: (0680 USE: INDUSTRIAI ION SETTING:	nia AQUIN VALLEY) BAKERSFIELD, SUBURBAN	СА		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSI PROBE HEIGHT	35.438889 -119.015833 11 3923383 317022 4: 180
SUPPORT	AGENCY: (01	.45) Californi	a Air Resource	es Board								1. 24 HOUR	
MONITOR	TYPE: SLAMS						REPC	RT FOR: 2010			UNITE .	iaragrama (aubia ma	tor (IC)
COLLECT PQAO:	ION AND ANAI (0145) Ca	LYSIS METHOD: lifornia Air H	(063) HI-VOL- Resources Boar	SA/GMW1200 GRAVI rd	IMETRIC						MIN DETE	CTABLE: 2	Ler (LC)
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1													
2				21									
3													
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8				37									
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NO.:	0	0	0	5	0	0	0	0	0	0	0	0	
MAX:				31. DE 6									
MEAN:				20.0									
ANNUAI	L OBSERVATIO	NS: 5	ANNUAL ME	AN: 25.6	ANNUAL MAX:	37.							
37	0												

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AIR QUALITY SYSTEM RAW DATA REPORT

Aug. 25, 2011

(8	85101) PM10 -	LC										CAS NUMBER:	
SITE ID	: 06-029-900	1 POC: 1	L									LATITUDE:	34.821944
COUNTY:	(029) Kern						STATE	: (06) Califo	rnia			LONGITUDE:	-118.886667
CITY: (4	40956) Lebec						AQCR:	(031) SAN J	OAQUIN VALLEY			UTM ZONE:	11
SITE AD	DRESS: PEACE	VALLEY RD/FRA	AZIER PARK MTN R	D, LEBEC			URBAN	IZED AREA: (000	U) NOT IN AN URE	3AN AREA		UTM NORTHING:	3854/23.1/
SITE CC	MMENTS:						LAND	USE: MOBILE	DUDAI			UIM EASIING:	327431.3
MONITOR	COMMENTS:						LUCAI	ION SEITING:	RURAL			PROBE HEIGHT:	1
SUPPORT	AGENCY: (01	45) California	Air Resources H	Board								• 24 HOUR	
MONITOR	TYPE: IMPROV	/E					REPC	ORT FOR: 2010)		DOIGHIION	. 24 1000	(1.0)
COLLECT	TION AND ANAL	YSIS METHOD:	(808) IMPROVE Mo	dule D with C	Cyclone Inle						UNIIS: M	icrograms/cubic mete	er (LC)
PQAO:	() Not Fo	ind									MIN DETE	CTABLE:	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1													
2				8.172									
3													
4													
5				2.238									
6													
.7				6 005									
8				6.205									
10													
11				13 817									
12				10.017									
13													
14				9.304									
15													
16													
17				14.843									
18													
19													
20				5.723									
21													
22				2 0/1									
23				3.041									
2.5													
26				14.614									
27													
28													
29				5.057									
30													
31													
NO.:	0	0	0	10	0	0	0	0	0	0	0	0	
MAX:				14.843									
MEAN:				8.3814									
ANNUAI	L OBSERVATION	IS: 10	ANNUAL MEAN:	8.3814	ANNUAL MAX:	14.843							

						× -							
						RAW DATA	REPORT					Aug. 25, 2011	
<pre>(81102) FM10 Total 0-10um STF SITE ID: 06-031-0004</pre>							STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0000) NOT IN AN URBAN AREA LAND USE: RESIDENTIAL LOCATION SETTING: SUBURBAN						
SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control District MONITOR TYPE: OTHER COLLECTION AND ANALYSIS METHOD: (063) HI-VOL SA/GMW-1200 GRAVIMETRIC PQAO: (0145) California Air Resources Board					REPORT FOR: 2010					DURATION: 24 HOUR UNITS: Micrograms/cubic meter (25 C) MIN DETECTABLE: 2			
Day JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1 2 3 4 5 6 7 8 9 10 11 12 13			17 26										

14 18

20 7

NO.: MAX: 36. MEAN: 20.8

ANNUAL OBSERVATIONS: 5 ANNUAL MEAN: 20.8 ANNUAL MAX: 36.

7.11.00	25	2011
Aug.	20,	2011

							RAW DATA	A REPORT					Aug. 25, 2011	
(8	81102) PM10 7	Fotal 0-10um ST	ſP									CAS NUMBER:		
SITE ID: 06-031-0004 POC: 3 COUNTY: (031) Kings CITY: (16224) Corcoran SITE ADDRESS: 1520 PATTERSON AV., CORCORAN SITE COMMENTS: SITE IS PARALLEL MONITOR TO 06-031-0003 WHICH IS TO BE CLOSED MID 97 MONITOR COMMENTS: GMW HI-VOL SSI SIERRA ANDERSON COLLOCATED							STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0000) NOT IN AN URBAN AREA LAND USE: RESIDENTIAL LOCATION SETTING: SUBURBAN						36.101389 -119.565833 11 3998073 269015 : 61	
SUPPOR	r AGENCY: (09	945) San Joaqui	n Valley Unif	ied Air Pollutio	on Control Distri	lct					DURATION	• 24 HOUR		
MONITOR	R TYPE: OTHER						REPC	RT FOR: 2010)		UNITE . A	·	(25 C)	
COLLEC	FION AND ANAI	LYSIS METHOD:	(063) HI-VOL S	SA/GMW-1200 GRAV	IMETRIC						UNITS: M	UNITS: Micrograms/cubic meter (25 C)		
PQAO:	(0145) Ca	lifornia Air R	esources Board	1							MIN DETECTABLE: 2			
	MONTH													
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		
1 2 3 4 5 6 7 8 9 10 11 12 13 14				17 25 18										
15 16 17 18 19 20				7										
21 22 23 24 25														
26 27 28 29 30 31				36										
NO.: MAX: MEAN:	0	0	0	5 36. 20.6	0	0	0	0	0	0	0	0		
ANNUA	L OBSERVATIO	NS: 5	ANNIAL MFA	N• 20.6	ANNUAL MAX:	36.								
			ANNOAL MEA	. 20.0										
Aug. 25, 2011

(8	1102) PM10 Tot	tal 0-10um STP										CAS NUMBER:	
SITE ID COUNTY: CITY: (1 SITE AD SITE CO MONITOR	: 06-031-0004 (031) Kings 6224) Corcora DRESS: 1520 P. MMENTS: SITE : COMMENTS: GM	POC: 4 IN ATTERSON AV., IS PARALLEL MO W HI-VOL SSI S	CORCORAN NITOR TO 06- IERRA ANDERS	031-0003 WHICH ON ALTERNATE 6	IS TO BE CLOSE DAY SAMPLING	ED MID 97	STATE AQCR: URBAN LAND LOCAT	: (06) Califorr (031) SAN JOA NIZED AREA: (0000) USE: RESIDENTIA NON SETTING:	hia AQUIN VALLEY NOT IN AN URB L SUBURBAN	AN AREA		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	36.101389 -119.565833 11 3998073 269015 61
SUPPORT MONITOR COLLECT PQAO:	AGENCY: (0945 TYPE: OTHER ION AND ANALY: (0145) Cali	5) San Joaquin SIS METHOD: (0 ifornia Air Res	Valley Unif 63) HI-VOL S sources Boar	ied Air Pollut GA/GMW-1200 GR# d	ion Control Dis	strict	REPC	DRT FOR: 2010			DURATION UNITS: N MIN DETE	N: 24 HOUR Micrograms/cubic meter SCTABLE: 2	(25 C)
Day 1	MONTH JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	

NO.: 0 MAX: MEAN:	0	0 0	5 21. 14.8	0	0	0	0	0	0	0	0
NO.: 0 MAX:	0	0 0	5	0	0	0	0	0	0	0	0
NO.: 0	0	0 0	5	0	0	0	0	0	0	0	0
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2											
1											

Aug. 25, 2011

	(81102)	PM10 Tc	tal 0-10	Dum STP																		CA	S NUMBEF	۲:	26 1012	00
SITE COUNT	ID: 06-0 Y: (031)	31-0004 Kings		POC: 7									STATE AQCR :	: (06) (03)	Califo L) SAN J	rnia OAQUIN N	/ALLEY					LO UT	NGITUDE: M ZONE:	:	-119.56	5833
CITT:	(10224)	. 1520 T	10 ATTEDCO										URBAN	NIZED AR	EA: (000	0) NOT 1	N AN UR	BAN AREA	1			UT	M NORTHI	ING:	3998073	
OTTE	COMMENT	. 1320 F	TC DADAI	NAV., C	UNCORAN	06 021	0002 MIL	TOU TO 7	FO DE CI	OCED MI	- 07		LAND	USE: R	ESIDENT	IAL						UT	M EASTIN	IG:	269015	
SILE	OD COMMENTS	SILE	IS PARAL	LLEL MON	IIIOR IO	06-031-	-0003 WH.	ICH 15 .	IO BE CL	USED MII	597		LOCAT	ION SET	TING:	SUBUF	BAN					EL	EVATION-	-MSL:	61	
MONII	OR COMM	SNIS:																				PR	OBE HEIG	GHT:	5	
SUPPC	RT AGENO	CY: (094	5) San J	Joaquin	Valley	Unified	Air Poll	lution (Control	District	:		DEDODT	DOD .	ADDTI	21	110			r	NIRATION	• 1 HOU	, ,			
COLLE	CTTON AP	. SLAND VD ANALV	CTC METL	10D · (0	79) TNC	PDIIMENTA	I_DED CA	246P_TM		л			REPORT	FOR:	AFRID	21	510			L.	NTTC • Mi	aroarama	/ aubia :	motor (25 C)	
DOTO	CITON AI	ALAN COL	ifornia	Nin Dog	()) INS.	ROMENIA	L-R&P SA	1240B-IN	LLEI ILOF	1											INTIS: MI	CIOGLAM:	EO	meter (25 ()	
PQAU:	101	143) Cal	IIOIIIIa	AII Kes	ources	BOALU														P	IIN DEIE	CIADLE:	-30			
H	JUR		0000	0000	0.400	0500	0.000	0700	0000	0000	1000	1100	1000	1000	1 4 0 0	1500	1.000	1700	1000	1000	0000	0100	0000	0000	0.5.0	MEAN
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1	/	8	9	15	11	12	14	16	16	12	10	6	/	4	9	9	11	20	18	25	21	18	1/	12	24	12.8
2	9	9	10	9	14	11	17	19	12	11	10	9	12	9	10	15	15	18	19	33	4 /	31	34	29	24	1/.2
3	27	21	19	19	14	12	1/	16	15	26	21	21	20	15	14	14	19	21	21	32	39	28	23	21	24	20.6
4	18	12	12	14	15	18	20	18	21	21	24	25	14	14	32	22	1/	21	22	25	12	10	12	12	24	1/.8
5	13	10	10	11	8	AQ 1.0	5	4	5	4	3	4	2	2	4	10	4	10	15	11	11	12	10	13	23	1.8
2	10	10	10	21	40	10	14	10	9	17	BA 1.2	BA 1.0	BA 17	22	21	19	19	19	20	22	22	10	10	13	21	15.2
<i>'</i>	10	17	15	17	40	43	23	21	19	17	10	17	1/	20	23	10	10	10	23	29	30	30	22	22	24	22.8
0	19	10	10	10	10	35	32	38	23	20	19	1/	23	14	13	19	10	10	40	49	33	27	22	21	24	23.0
9	19	19	19	19	19	20	20	19	27	24	27	28	29	27	24	20	28	34	28	35	49	39	32	20	24	20.0
11	24	24	28	25	20	21	29	27	49	57	20	48	20	33	105	112	31	34	33	30	29	28	32	33	24	33.I
10	57	33	29	20	33	10	32	37	28	28	30	28	33	69	420	113	14	AV	AV 01	AV 1.0	AV 10	AV 1.0	AQ	1	10	10.3
12	4	5	5	17	12	14	14	12	4	9	14	9	10	2	4	0	14	20	21	10	12	TU	/ D3	/ D3	10	10.3
1.4	0	5	2	1/	TO	14	13	12	D N	9	0	2	BA	BA	BA	BA 1.4	1 0	1 0	BA	BA	BA 1.4	BA 1.4	BA 1 2	BA	12	9.3
15	10	DA	DA Q	DA	DA 11	DA 15	26 26	DA 1.4	DA 1 /	DA 17	DA AO	DA NO	DA NO	DA NO	1 Q	21	26	27	24	20	35	36	27	22	20	20.4
16	26	22	21	20	10	22	20	10	24	25	27	26	73	22	22	21	20	27	32	28	25	20	10	20	2.0	20.4
17	13	10	10	10	11	12	1.4	15	15	10	16	10	16	22	19	19	10	10	21	20	20	20	22	20	24	17 6
1.0	10	17	12	1.4	14	1.0	26	20	21	13	10	12	16	10	10	21	24	27	33	30	21	20	10	20	24	20.0
19	30	17	17	19	21	24	32	20	33	24	20	28	29	19	18	32	29	29	22	10	11	15	18	16	24	20.0
20	14	1.4	10	4	11	18	16	22	33	5	1	20	3	1	3	1	4.5	4	3	10	3	5	3	5	24	8 1
21	4	4	2	3	4	8	14	10	7	6	3	1	1	6	5	3	1	2	2	4	5	4	1	6	24	4 4
22	5	3	6	4	5	7	9		6	5	5	- 7	- 8	7	7	6	9	8	8	19	20	1.4	10	14	24	8 3
23	11	11	9	10	12	15	21	16	10	9	8	9	9	9	11	15	14	12	15	21	36	37	36	19	24	15.6
24	11	21	22	21	13	20	22	23	18	14	20	19	15	16	23	21	21	23	29	24	22	23	20	19	24	20.0
2.5	2.4	19	18	17	18	19	22	14	23	23	20	19	18	2.4	21	17	2.5	30	34	36	2.9	23	27	2.5	2.4	22.7
26	2.4	2.9	33	2.5	28	35	37	45	32	36	28	33	30	19	27	2.8	33	39	40	50	38	36	2.9	23	2.4	32.4
27	20	14	13	12	20	20	23	23	BA	27	26	38	42	37	74	49	39	26	20	6	2	2	1	5	23	23 4
28	20	7	10	11	11	21	19	16	12	13	10	12	12	14	21	11	12	39	18	15	13	11	- 9	7	24	13.8
29	5	4	-0	8		11	14	10		9	12	11	15	15	19	3.8	66	57	37	33	27	19	12	10	24	18.8
30	13	1.3	12	9	7	1.5	2.3	14	13	13	1.5	15	16	18	2.5	19	22	22	26	2.8	38	38	2.3	19	2.4	19.0
31	10	10		~		10	20	÷ •	10	10	10	10	10	10	20	17			20	20		50	20	17	0	10.0
																									5	
NO.:	29	29	29	29	29	28	29	29	28	29	27	27	26	27	28	29	29	28	28	28	28	28	28	29		
MAX:	37.	33.	33.	31.	48.	43.	37.	45.	49.	57.	55.	48.	42.	89.	425.	113.	69.	57.	40.	50.	49.	39.	36.	35.		
AVG:	15.3	13.8	13.7	14.4	15.2	18.6	20.3	19.4	18.1	17.3	16.7	17.1	T./ 8	18.6	33.6	21.7	22.9	22.8	23.4	25.4	24.3	21.3	18.9	16.3		

MONTHLY OBSERVATIONS: 678 MONTHLY MEAN:

19.4 MONTHLY MAX:

425.

7.11.07	25	2011
Aug.	20,	2011

							RAW DATA	REPORT					Aug. 25, 2011
	05101) 5810												
()	85101) PM10 -	- LC										CAS NUMBER:	26 101200
SITE I	D: 06-031-000	4 POC: 1	L				GTATE	(0() G-1;6-				LATITUDE:	36.101389
COUNTY	: (031) Kings						JOCD	(031) Callion	CILLA			LONGIIUDE:	-119.505855
CITY: (16224) Corcos	ran					AQCR:	(U31) SAN JO	JAQUIN VALLEY			UIM ZONE:	11
SITE A	DDRESS: 1520	PATTERSON AV.,	CORCORAN				URBAN	IZED AREA: (UUUU	J) NOT IN AN URE	SAN AREA		UIM NORTHING:	3998073
SITE CO	OMMENTS: SITE	IS PARALLEL M	IONITOR TO 06-0	031-0003 WHICH	IS TO BE CLOSED N	4ID 97	LAND	USE: RESIDENTI	AL			UIM EASIING:	269015
MONITO	R COMMENTS: G	GMW HI-VOLUME S	SAMPLER W/ SIE	RRA ANDERSON 12	00 SSI INLET		LUCAI	ION SEITING:	SUBURBAN			PROBE HEIGHT.	: 01
SIIPPOR'	T AGENCY (09	45) San Joaqui	n Vallev Unifi	ed Air Polluti	on Control Distri	ct						110000 11010111	
MONITON	R TYPE: OTHER	457 ban boaqui	in variey oniti	ica nii roitaci	on concror proces		DEDC	PT FOR. 2010			DURATION	: 24 HOUR	
COLLEC	TION AND ANAL	YSIS METHOD:	(063) HI-VOL-S	A/GMW1200 GRAVI	METRIC		KEF C	RI FOR.			UNITS: M	icrograms/cubic met	er (LC)
PQAO:	(0145) Ca	lifornia Air R	esources Board	l							MIN DETE	CTABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1													
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NO.:	0	0	0	5	0	0	0	0	0	0	0	0	
MAX:				36.									
MEAN:				21.4									
ANNUA	L OBSERVATION	NS: 5	ANNUAL MEAN	N: 21.4	ANNUAL MAX:	36.							

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							RAW DATA	REPORT					Aug 25 2011
							NAW DAIP	. REPORT					Aug. 25, 2011
(8	85101) PM10 -	LC										CAS NUMBER:	
SITE II	D: 06-031-000	4 POC:	3									LATITUDE:	36.101389
COUNTY	: (031) Kings						STATE	(06) Califor	rnia			LONGITUDE:	-119.565833
CITY: (16224) Corcon	an					AQCR:	(031) SAN JO	DAQUIN VALLEY			UTM ZONE:	11
SITE AN	DDRESS: 1520	PATTERSON AV.	, CORCORAN				URBAN	IZED AREA: (0000)) NOT IN AN URE	BAN AREA		UTM NORTHING:	3998073
SITE CO	OMMENTS: SITE	IS PARALLEL N	MONITOR TO 06-	-031-0003 WHICH	IS TO BE CLOSED	MID 97	LAND	JSE: RESIDENTI	AL			UTM EASTING:	269015
MONITOR	R COMMENTS: G	MW HI-VOL SSI	SIERRA ANDERS	SON COLLOCATED			LOCAT	LON SETTING:	SUBURBAN			ELEVATION-MSL	: 61
												PROBE HEIGHI:	
SUPPOR	I AGENCY: (09	45) San Joaqui	In Valley Unif	ied Air Polluti	on Control Distr	ict		0.04.0			DURATION	: 24 HOUR	
MONITOR	R TYPE: OTHER						REPO	RT FOR: 2010			UNITE: M	ianograma (qubia mot	or (IC)
COLLEC:	(0145) Co	YSIS METHOD: Lifornia Air F	(063) HI-VOL-	SA/GMW1200 GRAVI	IMETRIC						MIN DETE	CTABLE: 2	er (LC)
PQAU:	(0145) Ca	LIIOINIA AIL P	esources boar	u							MIN DEIE	CIABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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MAX:				37.									
MEAN:				21.2									
ANNUA	L OBSERVATION	IS: 5	ANNUAL MEA	AN: 21.2	ANNUAL MAX:	37.							
N - +	0		1										

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	RAW DATA REPORT	A	.ug. 25, 2011
(85101) PM10 - LC SITE ID: 06-031-0004 POC: 4 COUNTY: (031) Kings CITY: (16224) Corcoran SITE ADDRESS: 1520 PATTERSON AV., CORCORAN SITE COMMENTS: SITE IS PARALLEL MONITOR TO 06-031-0003 WHICH IS TO BE CLOSED MID 97 MONITOR COMMENTS: GMW HI-VOL SSI SIERRA ANDERSON ALTERNATE 6 DAY SAMPLING	STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0000) NOT IN AN URBAN AREA LAND USE: RESIDENTIAL LOCATION SETTING: SUBURBAN	CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	36.101389 -119.565833 11 3998073 269015 61
SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control District			

SUPPORT AGENCY: (0945) Sar DURATION: 24 HOUR MONITOR TYPE: OTHER REPORT FOR: 2010 UNITS: Micrograms/cubic meter (LC) COLLECTION AND ANALYSIS METHOD: (063) HI-VOL-SA/GMW1200 GRAVIMETRIC PQAO: (0145) California Air Resources Board MIN DETECTABLE: 2 MONTH

	1101111											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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28												
29				15								
30												
31												
NO.:	0	0	0	5	0	0	0	0	0	0	0	0
MAX:				21.								
MEAN:				14.8								
ANNUA	L OBSERVATIONS:	5	ANNUAL MEAN:	14.8	ANNUAL MAX:	21.						

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

Aug. 25, 2011

	(85101)	PM10 -	LC																			CA	S NUMBER	<:		
SITE	ID: 06-0	031-0004		POC: 7									CTATE		0-146-							LA	TITUDE:		36.1013	39
COUNI	Y: (031)	Kings											AOCR	. (08) CAIIIC 1) SAN J	IOAOUIN '	VALLEY					LU	MGIIUDE: M ZONE•		-119.56:	2833
CITY:	(16224)	Corcora	an										URBAN	NIZED AR	EA: (000	0) NOT :	IN AN UR	BAN ARE	A			UT	M NORTHI	NG:	3998073	
SITE	ADDRESS	: 1520 E	PATTERSO	N AV., (CORCORAN								LAND	USE: R	ESIDENT	IAL						UT	M EASTIN	IG:	269015	
SITE	COMMENTS	S: SITE	IS PARAI	LLEL MON	NITOR TO	06-031-	-0003 WH	ICH IS 1	TO BE CLO	OSED MII	97		LOCAT	TION SET	TING:	SUBUE	RBAN					EL	EVATION-	-MSL:	61	
MONII	OR COMM	EN15:																				PR	OBE HEIG	GHT:	5	
SUPPC	RT AGENO	CY: (094	15) San 3	Joaquin	Valley (Unified	Air Pol	lution C	Control I	District																
MONIT	OR TYPE:	: SLAMS		100. (0	70) 7007		1 DAD 01	046D TN	LET TROM	,			REPORT	FOR:	APRIL	2	010			E	URATION	: 1 HOUN	R - /1- #		(1.0)	
POAD	CTION A	ND ANALI	ifornia	HOD: (U	79) INSI	RUMENIA	L-R&P SF	AZ46B-IN	LEI IEOM	1										U N	INTIS: MI	CTABLE:	5/CUD1C 1 _50	meter	(LC)	
r QAO. H(UR	L4J) Cai	.11011114	AII Nea	Sources 1	JUALU														1.	IIN DEIE	CIADLE.	-50			
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15	10	9	10	9	12	15	27	14	15	18	18	19	21	24	19	21	27	27	30	32	36	36	28	23	24	20.8
16	26	23	21	21	19	23	21	20	25	25	28	26	24	22	22	21	21	26	33	29	25	21	20	20	24	23.4
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22	5	3	6	5	5	7	10	6	6	6	5	7	8	7	7	6	9	9	8	20	21	15	11	15	24	8.6
23	12	11	9	11	12	16	22	17	11	10	8	9	10	10	11	15	15	12	16	21	37	38	37	20	24	16.3
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25	25	20	19	18	19	20	23	14	23	24	20	19	18	24	21	17	25	30	34	36	29	23	27	26	24	23.1
26	24	30	34	25	29	36	39	46	33	37	28	33	30	19	27	28	33	39	40	49	38	36	30	24	24	32.8
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MONTHLY OBSERVATIONS: 684 MONTHLY MEAN: 19.9

19.9 MONTHLY MAX:

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has

428.

	RAW DATA REPORT	A	ug. 25, 2011
(81102) PM10 Total 0-10um STP SITE ID: 06-031-0500 POC: 1 COUNTY: (031) Kings CITY: (70122) Santa Rosa Rancheria SITE ADDRESS: 17225 Jersey Ave. SITE COMMENTS: MONITOR COMMENTS:	STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0000) NOT IN AN URBAN AREA LAND USE: AGRICULTURAL LOCATION SETTING: RURAL	CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	36.233318 -119.765251 11 4013172.63 251475.44 68
SUPPORT AGENCY: (542) Santa Rosa Indian Community of Santa Rosa Rancheria, CA	DID J T I ON .	24 10110	

MANITOR TYPE, TELER, MONTTOR		2010	DURATION: 24 HOUR
COLLECTION AND ANALYSIS METHOD: (063) HI-VOL SA/GMW-1200 GRAVIMETRIC	REPORT FOR:	2010	UNITS: Micrograms/cubic meter (25 C)
PQAO: (0145) California Air Resources Board			MIN DETECTABLE: 2
MONTH			

	TANKIN			10011						0000000		
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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MAX:				27.								
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A1101	25	2011
nug.	201	2011

							RAW DATA	REPORT					Aug. 25, 2011
(8	35101) PM10 -	LC										CAS NUMBER:	
SITE IE COUNTY: CITY: (SITE AE SITE CC MONITOR	<pre>0: 06-031-050 (031) Kings 70122) Santa DDRESS: 1722 MMENTS: COMMENTS:</pre>	0 POC:: Rosa Rancheri 5 Jersey Ave.	a				STATE: AQCR: URBANI LAND U LOCATI	(06) Califor (031) SAN JO ZED AREA: (0000 SE: AGRICULTUH ON SETTING:	nia AQUIN VALLEY) NOT IN AN URB. RURAL RURAL	AN AREA		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL PROBE HEIGHT:	36.233318 -119.765251 11 4013172.63 251475.44 : 68
SUPPORT	AGENCY: (54	2) Santa Rosa	Indian Commun	ity of Santa Ro	sa Rancheria, CA								
MONITOR	R TYPE: TRIBA	L MONITORS					REPOR	T FOR: 2010			DURATION	24 HOUR	
COLLECT	ION AND ANAL	YSIS METHOD:	(063) HI-VOL-S	SA/GMW1200 GRAVI	IMETRIC						UNITS: M	icrograms/cubic met	ter (LC)
PQAO:	(UI45) Ca	IIIOTNIA AIT F	esources Board	u							MIN DELEG	JIABLE: Z	
	MONTH									00700700	NOVENEEE	DECEMPED	
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULX	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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Mate -	- J.C.		ANNUAL MEA	10.4	ANNOAL PAA:	27 .							

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

	AIR QUALITY SYSTEM	
	RAW DATA REPORT	Aug. 25, 2011
(81102) PM10 Total 0-10um STP		CAS NUMBER:
SITE ID: 06-031-1004 POC: 1 COUNTY: (031) Kings CITY: (31960) Hanford SITE ADDRESS: 807 SOUTH IRWIN ST., HANFORD SITE COMMENTS: RELOCATED HANFORD-CAMPUS SITE & ADDED NO2 MONITORING ARE #1600716 MONITOR COMMENTS: GMW HI-VOLUME SAMPLER W/ SIERRA ANDERSON 1200 SSI INLET	STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (0000) NOT IN AN URBAN AREA LAND USE: RESIDENTIAL LOCATION SETTING: SUBURBAN	LATITUDE: 36.314444 LONGTTUDE: -119.643611 UTM ZONE: 11 UTM NORTHING: 4021869 UTM EASTING: 262656 ELEVATION-MSL: 99 PROBE HEIGHT:
SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control District MONITOR TYPE: SLAMS COLLECTION AND ANALYSIS METHOD: (063) HI-VOL SA/GMW-1200 GRAVIMETRIC	REPORT FOR: 2010	DURATION: 24 HOUR UNITS: Micrograms/cubic meter (25 C)

MIN DETECTABLE: 2

COLLECTION AND ANALYSIS METHOD: (063) HI-VOL SA/GMW-1200 GRAVIMETRIC PQAO: (0145) California Air Resources Board

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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NO.:	0	0	0	5	0	0	0	0	0	0	0	0
MAX:				38.								
MEAN:				19.8								
ANNUAL	OBSERVATIONS	: 5	ANNUAL MEAN:	19.8	ANNUAL MAX:	38.						

Aug.	25.	2011
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							RAW DATA	REPORT					Aug. 25, 2011
(8	35101) PM10 -	- LC										CAS NUMBER:	
SITE II COUNTY: CITY: (SITE AI SITE CO MONITOF	0: 06-031-100 : (031) Kings 31960) Hanfo DDRESS: 807 S DMMENTS: RELO R COMMENTS: (4 POC: 1 rd SOUTH IRWIN ST. CATED HANFORD- SMW HI-VOLUME S	, HANFORD -CAMPUS SITE & . SAMPLER W/ SIER	ADDED NO2 MONI RA ANDERSON 12	IORING ARB #16007 00 SSI INLET	116	STATE: AQCR: URBAN: LAND (LOCAT:	(06) Califo (031) SAN J(IZED AREA: (000) JSE: RESIDENTI ION SETTING:	rnia DAQUIN VALLEY)) NOT IN AN URB AL SUBURBAN	AN AREA		LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSI PROBE HEIGHT:	36.314444 -119.643611 11 4021869 262656 :: 99
SUPPORT	r AGENCY: (09	45) San Joaqui	n Valley Unifi	ed Air Pollutio	on Control Distri	ct					DURATION	• 24 HOUR	
MONITOR	R TYPE: SLAMS			(REPO!	RT FOR: 2010)		UNITS. N	icrograms/cubic mot	tor (IC)
POAO:	(0145) Ca	YSIS METHOD: lifornia Air R	(063) HI-VOL-SA esources Board	/GMWI200 GRAVI	METRIC						MIN DETE	CTABLE: 2	ter (hc)
1 9110.	(0110) 04		Coodiceo Dourd										
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUA	L OBSERVATIO	NS: 5	ANNUAL MEAN	20.4	ANNUAL MAX:	39.							

(1112) MUI Total 0-1008 ST DSL 1 DSL 1000 Total 0-1008 ST DSL 1000 Total 0-1000 TOTAL 0-100 Total 0-1000 TOTAL 0-1000 TOTAL 0-1000 ST DSL 1000 Total 0-100 ST DSL 1000 Total 0-100 ST DSL 1000 Total 0-1000 S	Aug. 25, 2011
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STR IN 60-04-2430 FOR 1 STR IN 60-04-2430 FOR 1 STR IN 60-04-2430 FOR 100 STR IN 500 ST IN 500 S	37.309167
COUNTY: (101) Merced COUNTY: (101) Merced COUNTY: (101) Merced CUIN CONT. STM AMARGED CA CUIN CONT. CUIN CONT. STM AMARGED CA CUIN CONT. CUIN CONT. STM AMARGED COMMERCIA CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA COMMERCIA CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT: COMMERCIA CUIN CONT. CUIN CONT. CUIN CONT. SUPPORT AGENT. CUIN CONT. CUIN CONT.	-120.480556
CITI: (4089) Hercel (400 MERCE), CA UIN NOTINE TER ADDRESS : LEANEDE, CA UIN NOTINE SAMPLER W STREED, CA UIN NOTINE STRE COMMENTS: (CM NI -VOLUME SAMPLER W STREED, ANDERSON 1200 SSI INLET INNOTING COMMENTS: (CM NI -VOLUME SAMPLER W STREED, ANDERSON 1200 SSI INLET SUPPORT DARWY; (045) San Jaquin Valley Unified Air Pollution Control District MENORE TYPE: 2010 COLOCION ADD NALVICTO METHOD: (1633) UI-VOL GAVGMI-I200 GAVIMETRIC COLOCION ADD NALVICTO METHOD: (1633) UI-VOL GAVGMI-I200 GAVIMETRIC TOTAL TOTAL ADV COLOCION ADD NALVICTO METHOD: (1634) MENOR COLOCION ADD NALVICTO METHOD: (1634) UI-VOL GAVGMI-I200 GAVIMETRIC TOTAL TOTAL ADV MIN DETUTATION: 24 MOR MIN DE	10
<pre>STRE ADDRESS: F314 VM STREACED, CA LAND COST: COMMERCIAL DOCST: COMMERCIAL DOCATIONS GETTING: UNDAWARD CONTER CITY UNDAWARD CONTER</pre>	4131943
ITTE COMMENTS: ON HI-VOLUNE SAMPLER N/ SIENCA ANDERON 1200 SSI INCT MUNITA COMMENTS: GNN HI-VOLUNE SAMPLER N/ SIENCA ANDERON 1200 SSI INCT MUNITA COMMENTS: GNN HI-VOLUNE SAMPLER N/ SIENCA ANDERON 1200 SSI INCT MUNITA COMMENTS: GNN HI-VOLUNE SAMPLER N/ SIENCA ANDERON 1200 GNAUMETRIC COULCIUM AND MUNITS METHOD: (63) HI-VOLU SA/GMP-1200 GNAUMETRIC DAVI MUNITA	723284
WONTICE COMMENTS: GAM H-VOLUME SAMPLES W SIENAL ADDERSON 100 SST INLET WONTICE COMMENTS: GAM H-VOLUME SAMPLES W SIENAL ADDERSON 100 SST INLET SUPPORT ACENCY: (043) San Joaquin Valley Unified Air Pollution Control District REPORT FOR: 2010 DURATION: 24 4000 DURATION: 24 400 DURATION	: 58
UNITED TAGENCY: (045) San Joaqual valley Unified Air Pollution Control District MUTTER TYPE: 2010 DEATION: 424 HOUR UNITE: TYPE: 2010 UNITE: TYPE: 2010 <td>2</td>	2
MONITOR TYPE: SLAMS ENTON: 1063 14-V0L SA/CMB-1200 GRAVINETIC ENTON: 2010 INVESSION	
COLLECTION NAX AKALYSIS METIOD: (163) III-VOL 34/XMM-1200 GRAVIMETRIC UNITS: MELOTAGEMEN/COLLEMEN INI DETECTABLE; 2 FORM: INI DETECTABLE; 2 INI DETECTABLE; 2 Day JANUARY FEBRUARY MARCH AFRIL MAY JUNE JULY AUGUST SEPTEMBER OCTOBER NOVEMBER DECEMBER 1 1 1 1 1 1 1 1 1 2 12 1 </td <td></td>	
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MAX: 24.	
MEAN: 15.0	

ANNUAL OBSERVATIONS: 5 ANNUAL MEAN: 15.0 ANNUAL MAX: 24.

MIN DETECTABLE: 2

	RAW DATA REPORT	A	ıg. 25, 2011
(85101) PM10 - LC		CAS NUMBER:	
SITE ID: 06-047-2510 POC: 1 COUNTY: (047) Merced CITY: (46898) Merced SITE ADDRESS: 2334 'M' ST. MERCED, CA	STATE: (06) California AQCR: (031) SAN JOAQUIN VALLEY URBANIZED AREA: (4940) MERCED, CA	LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING:	37.309167 -120.480556 10 4131943
SITE COMMENTS: MONITOR COMMENTS: GMW HI-VOLUME SAMPLER W/ SIERRA ANDERSON 1200 SSI INLET	LAND USE: COMMERCIAL LOCATION SETTING: URBAN AND CENTER CITY	UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	723284 58 2
SUPPORT AGENCY: (0945) San Joaquin Valley Unified Air Pollution Control District MONITOR TYPE: SLAMS COLLECTION AND ANALYSIS METHOD: (063) HI-VOL-SA/GMW1200 GRAVIMETRIC	REPORT FOR: 2010	DURATION: 24 HOUR UNITS: Micrograms/cubic meter	(LC)

COLLECTION AND ANALYSIS METHOD: (063) HI-VOL-SA/GMW1200 GRAVIMETRIC PQAO: (0145) California Air Resources Board

	MONTH											
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER
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MAX:				24.								
MEAN:				15.6								
ANNUAI	. OBSERVATIONS	5: 5	ANNUAL MEAN:	15.6	ANNUAL MAX:	24.						

							RAW DATA	A REPORT					Aug. 25, 2011
(81102) PM10	Total 0-10um	STP									CAS NUMBER:	
												LATITUDE:	37.950833
SITE I	D: 06-077-10	02 POC	: 2				STATE	: (06) Califo	rnia			LONGITUDE:	-121.2675
COUNTY	: (077) San	Joaquin					AQCR:	(031) SAN J	OAQUIN VALLEY			UTM ZONE:	10
CITY:	(75000) Stoc	kton					URBAN	IZED AREA: (812)	0) STOCKTON, CA			UTM NORTHING:	4201570
SITE A	DDRESS: HAZE	ELTON-HD, STO	CKTON				LAND	USE: RESIDENTI	IAL			UTM EASTING:	652220
SITE C	COMMENTS: ARE	SITE NUMBER	3900252 STILI	L OPERATING			LOCAT	ION SETTING:	URBAN AND CEN	ITER CITY		ELEVATION-MSL	: 19
MONITO	OR COMMENTS:	GMW HI-VOLUM	E SAMPLER W/ S	IERRA ANDERSON 12	200 SSI INLET							PROBE HEIGHT:	5
SUPPOR	T AGENCY: (0	145) Californ	nia Air Resourd	ces Board									
MONITO	R TYPE: SLAM	S					REPC	ORT FOR: 2010)		DURATIO	N: 24 HOUR	
COLLEC	TION AND ANA	LYSIS METHOD	: (063) HI-VOL	SA/GMW-1200 GRA	VIMETRIC						UNITS:	Micrograms/cubic met	er (25 C)
PQAO:	(0145) C	alifornia Air	Resources Boa	ard							MIN DET	ECTABLE: 2	
	MONTH												
Dav	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
-													
1				11									
2				11									
1													
5													
6													
7													
8				20									
9													
10													
11													
12													
13													
14				15									
15													
16													
17													
18													
19													
20				6									
21													
22													
23													
24													
25				24									
20				24									
28													
29													
30													
31													
NO.:	0	() C	. 5	0	0	0	0	0	0	0	0	
MAX:				24.									
MEAN:				15.2									
ANNU?	AL OBSERVATI	ONS: 5	ANNUAL M	EAN: 15.2	ANNUAL MAX:	24.							

Aur	25.	2011
	~~/	

							RAW DA1	'A REPORT					Aug. 25, 2011
(8	5101) PM10 -	LC										CAS NUMBER:	
SITE ID COUNTY:	: 06-077-1002 (077) San Jo 75000) Stockt	POC: :	L				STATI	2: (06) Califo : (031) SAN J	ornia OAQUIN VALLEY			LATITUDE: LONGITUDE: UTM ZONE:	37.950833 -121.2675 10
SITE AD	DRESS: HAZEL	TON-HD. STOCK	TON				URBA	NIZED AREA: (812	0) STOCKTON, CA			UTM NORTHING	4201570
SITE CON	MMENTS: ARB	SITE NUMBER 3	900252 STILL	OPERATING			LAND	USE: RESIDENT:	IAL			UTM EASTING:	652220
MONITOR	COMMENTS: G	MW HI-VOLUME S	SAMPLER W/ SIE	ERRA ANDERSON 12	00 SSI INLET		LOCA	TION SETTING:	URBAN AND CEN	ITER CITY		ELEVATION-MS PROBE HEIGHT	:: 19
SUPPORT	AGENCY: (014	5) California	Air Resource	s Board									
MONITOR	TYPE: OTHER						REP	ORT FOR: 201	0		DURATIO	N: 24 HOUR	
COLLECT	ION AND ANAL	SIS METHOD:	(063) HI-VOL-S	SA/GMW1200 GRAVI	METRIC						UNITS:	Micrograms/cubic m	eter (LC)
PQAO:	(0145) Cal	ifornia Air R	esources Boar	d							MIN DET	ECTABLE: 2	
2	MONTH									00000000	NOUTHER		
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
1				12									
3				12									
4													
5													
6													
7				01									
8				21									
10													
11													
12													
13													
14				16									
15													
17													
18													
19													
20				6									
21													
22													
24													
25													
26				25									
27													
28													
29													
31													
	c	0	0	-	0	0		<u>^</u>	<u>^</u>	0	0	0	
NU.: MAX·	U	U	0	25	U	U	0	0	U	U	U	U	
MEAN:				16.0									
ANNUAL	. OBSERVATION	S: 5	ANNUAL MEA	AN: 16.0	ANNUAL MAX:	25.							

Aug. 25, 2011

	81102)	PM10 To	tal 0-10	Dum STP																		CA	S NUMBER	:		
SITE :	D: 06-0	77-3005		POC: 3																		LA	FITUDE:		37.6825	
COUNTY	: (077)	San Joa	aquin										STATE	(06)	Califo	rnia						LO	NGITUDE:		-121.440	156
CITY:	(80238)	Tracy											AQCR:	: (U31	L) SAN J	JAQUIN \	ALLEY					011	M ZONE:	NC.	10	07
SITE A	DDRESS:	5749 S	. TRACY	BLVD.,	TRACY								LAND	HCE. D	EA: (000)	D) NOI 1	IN AN URI	DAN AREA				UTI	4 NORIHI 4 FASTIN	NG:	637510	.0/ 50
SITE (COMMENTS	:											LOCAT	TION SET	TING.	SUBUR	BAN					EL	EVATION-	MSL.	30	,,,
MONITO	OR COMME	NTS:																				PR	OBE HEIG	HT:	5	
SUPPOR	RT AGENC	Y: (0945	5) San 3	Joaquin	Valley U	Jnified	Air Poll	lution C	ontrol 1	District																
MONITO	OR TYPE:	SLAMS			201 7100			0465 700					REPORT	FOR:	APRIL	20	010			DI	JRATION:	: 1 HOUF			(05 0)	
COLLEG	TION AN	45) Coli	SIS METH	HOD: (U	79) INST	RUMENTA.	L-R&P SA	.246B-1NI	LET TEON	1										UI	NITS: MIG	crograms	Cubic I	neter	25 C)	
PQAU:	10) TD	45) Cal.	llornia	AIT Kes	ources E	soard														141	IN DEIEC	, IABLE:	-50			
DAV	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1900	1900	2000	2100	2200	2300	OBG	MEAN
1	5	7	6	5	400	6	6	4	5	6	1000	7	1200	1300	9	11	10	11	12	15	14	12	12	10	24	8 1
2	11	12	8	10	13	13	10	14	33	19	18	16	2.5	2.3	10	7	4		4	10	2.5	21	16	14	2.4	14.3
3	16	18	12	18	16	15	16	14	11	10	10	10	11	15	9	11	15	17	16	11	13	11	11	13	24	13.3
4	12	11	10	6	14	13	9	12	13	11	6	7	12	11	17	6	9	7	9	9	8	1	3	7	24	9.3
5	4	7	3	8	8	5	8	6	8	5	11	8	2	7	12	9	9	13	14	10	13	14	11	11	24	8.6
6	10	11	9	8	7	8	15	13	7	9	9	11	7	7	10	6	11	11	11	7	6	7	7	5	24	8.8
7	3	5	5	7	7	8	7	8	8	9	7	8	12	9	11	8	13	18	18	10	9	9	11	4	24	8.9
8	7	5	18	9	9	31	17	30	23	BA	BA	15	21	19	22	19	20	22	19	23	25	17	20	14	22	18.4
9	13	10	8	10	9	10	11	13	18	18	25	27	25	24	22	20	24	26	25	30	23	20	18	22	24	18.8
10	18	15	15	14	17	19	20	25	22	19	20	16	18	18	21	22	26	27	27	25	22	24	26	28	24	21.0
11	24	23	20	27	26	23	30	29	27	28	32	36	31	23	6	0	0	10	7	7	4	7	6	6	24	18.0
12	3	5	4	4	5	3	6	11	3	4	3	3	8	4	5	17	-7	9	8	8	10	9	11	11	24	6.3
1.4	17	16	10	17	10	10	20	10	9	11	14	1 6	10	12	10	10	18	17	19	16	11	15	19	15	24	11./
15	11	10	10	13	19	16	15	23	10	10	14	14	13	16	17	20	20	25	24	18	18	11	17	1.4	24	14 3
16	17	14	15	20	20	10	17	27	19	11	9	9	5	13	9	9	15	10	13	9	10	10	14	1.5	2.4	13.2
17	10	12	13	6	6	9	9	10	7	10	0	6	6		13	14	16	11	19	10	11	7	5	5	24	9.2
18	4	7	19	11	7	5	20	13	21	18	14	11	12	21	16	16	19	21	27	8	14	15	16	19	24	14.8
19	19	20	21	17	16	17	16	24	18	26	26	26	36	21	15	17	18	31	22	16	22	24	20	22	24	21.3
20	16	18	17	19	0	3	0	3	7	4	5	3	5	9	10	13	11	10	12	8	8	6	8	7	24	8.4
21	6	4	4	6	4	3	4	5	11	7	10	2	4	1	0	4	4	0	10	4	9	10	15	15	24	5.9
22	12	5	10	14	10	9	15	13	9	11	14	11	10	8	11	15	21	17	16	16	15	13	10	10	24	12.3
23	7	7	9	10	9	16	27	30	21	18	16	11	14	11	17	17	24	32	31	9	12	16	17	18	24	16.6
24	14	19	15	17	22	15	24	28	28	16	12	19	26	24	21	24	22	24	24	17	6	14	15	12	24	19.1
25	13	11	26	19	18	10	15	9	18	19	19	18	13	17	14	15	17	17	28	15	24	15	0	7	24	15.7
26	9	10	34	22	5	29	25	14	51	22	26	12	28	20	26	42	25	22	21	17	14	28	22	15	24	22.5
27	22	23	14	15	13	23	15	11	/	8	0	4	20	8	0	37	1	4	10	1/	1/	16	14	16	24	13.1
28	8	10	13	12	15	<i>,</i>	10	8	4	1	5	13	12	2	9	15	22	1/	9	10	10	8	/	9	24	10.0
2.5	5	2	1	3	2	0	6	16	30	29	26 26	10	13	6	4 7	13	17	15	2	11	12	11	13	5	23	11 9
31	5	4		5	4	4	0	τu	50	20	20	19	10	0	'	10	± /	10	0	± ±	2	± ±	10	0	24 0	11.0
	2.0	2.0	2.6	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0	2.0	2.0	2.6	2.0	2.6	2.0	2.0	2.6	2.0	2.6	2.6	2.0	2.2	0	
NO.:	30	30	30	30	30	30	30	30	3U E 1	29	28	30	30	30	30	30	30	30	30	30	30	30	30	30		
MAA:	24. 11 0	23. 11 0	34. 12.2	27. 11 0	∠0. 10 7	31. 12.0	3U. 13 E	3U. 14 E	51. 16 2	∠8. 12 0	32. 13 0	30. 12 E	30. 1/ 1	24. 12.2	∠o. 12 /	42. 15 2	∠ö. 15 ⊑	3∠. 16 7	31. 16 1	3U.	∠⊃. 13 ⊑	∠8. 12 0	20. 12.6	20. 12 0		
AVG:	11.0	11.0	14.4	11.9	±0./	12.0	13.3	14.3	10.Z	12.9	13.0	12.3	14.1	12.2	12.4	13.3	17.2	TO' 1	10.1	13.2	13.3	12.9	17.0	12.0		

MONTHLY OBSERVATIONS: 717 MONTHLY MEAN: 13.2 MONTHLY MAX:

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional review are shown in lower case. An asterisk ("*") indicates that the region has reviewed the value and does not concur with the qualifier.

51.

Aug. 25, 2011

	85101)	PM10 -	LC																			CA	3 NUMBER	:		
SITE I	D: 06-0	77-3005		POC: 3																		LA	CITUDE:		37.6825	
COUNTY	: (077)	San Joa	aquin										STATE	: (06)	Califo	rnia						LOI	IGITUDE:		-121.44	356
CITY:	(80238)	Tracy											AQCR:	(03.	L) SAN J	DAQUIN \	ALLEY					UTI	4 ZONE:	NC .	10	0.7
SITE A	DDRESS:	5749 S	. TRACY	BLVD.,	TRACY								URBAN	IZED AR	EA: (UUU)	J) NOI 1	IN AN URI	BAN AREA				011	4 NORIHI M EASTIN	NG: C·	41/152/	.0/ 50
SITE (COMMENTS	3 :											LOCAT	TON SET	TING.	SUBUR	BAN					ELI	EVATION-	MSL.	30	,,,
MONITO	OR COMME	INTS:											200111	1011 021		00201						PRO	OBE HEIG	HT:	5	
SUPPOR	RT AGENC	CY: (094	5) San J	Toaquin	Valley U	Unified	Air Poll	lution Co	ontrol I	District																
MONITO	OR TYPE:	SLAMS											REPORT	FOR:	APRIL	20	010			D	URATION	: 1 HOUR				
COLLEO	CTION AN	ID ANALY	SIS METH	HOD: (0	79) INST	RUMENTA	L-R&P SA	246B-INI	ET TEOM											U	NITS:Mi	crograms	/cubic m	neter	LC)	
PQAO:	(01	45) Cal:	ifornia	Air Res	ources E	Board														М	IN DETEC	CTABLE:	-50			
HO	JR																									MFAN
DAY	0000	0100	0200	0300	0400	0500	0600	0./00	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	OBS	0.1
1	5	10	6	10	12	12	10	4	22	10	10	16	25	4	9	11	10	11	12	10	25	12	12	10	24	8.1 14 2
2	16	18	12	18	16	15	16	14	11	10	10	10	2.5	15	9	11	15	17	16	11	13	11	11	13	24	14.5
4	12	11	10	-0	14	13	-0	12	13	11	-0	10	12	11	17	6		7	-0			1	3		2.4	9.3
5	4	7	3	8	8		8	6	8	5	11	8	2	7	12	9	9	13	14	10	13	14	11	11	24	8.6
6	10	11	9	8	7	8	15	13	7	9	9	11	7	7	10	6	11	11	11	7	6	7	7	5	24	8.8
7	3	5	5	7	7	8	7	8	8	9	7	8	12	9	11	8	13	18	18	10	9	9	11	4	24	8.9
8	7	5	18	9	9	31	17	30	23	BA	BA	15	21	19	22	19	20	22	19	23	25	17	20	14	22	18.4
9	13	10	8	10	9	10	11	13	18	18	25	27	25	24	22	20	24	26	25	30	23	20	18	22	24	18.8
10	18	15	15	14	17	19	20	25	22	19	20	16	18	18	21	22	26	27	27	25	22	24	26	28	24	21.0
11	24	23	20	27	26	23	30	29	27	28	32	36	31	23	6	0	0	10	7	7	4	7	6	6	24	18.0
12	3	5	4	4	5	3	6	11	3	4	3	3	8	4	5	7	7	9	8	8	10	9	11	11	24	6.3
13	6	2	6	6	.7	.7	.7	10	9	11	11	8	9	12	16	17	18	17	19	17	16	15	19	15	24	11.7
14	11	10	18	12	19	16	20	23	25	10	14	1.4	12	16	17	19	19	1/	1/	10	10	11	17	1.4	24	14.2
16	17	14	15	20	20	10	17	27	19	11	9	1 4 1 4	13	13	ц / ц	20	15	10	13	10	10	10	14	19	24	13.2
17	10	12	13	6	6	9	9	10	7	10	0	6	6	6	1.3	14	16	11	19	10	11	10	5	5	2.4	9.2
18	4	7	19	11	7	5	20	13	21	18	14	11	12	21	16	16	19	21	27	8	14	15	16	19	24	14.8
19	19	20	21	17	16	17	16	24	18	26	26	26	36	21	15	17	18	31	22	16	22	24	20	22	24	21.3
20	16	18	17	19	0	3	0	3	7	4	5	3	5	9	10	13	11	10	12	8	8	6	8	7	24	8.4
21	6	4	4	6	4	3	4	5	11	7	10	2	4	1	0	4	4	0	10	4	9	10	15	15	24	5.9
22	12	5	10	14	10	9	15	13	9	11	14	11	10	8	11	15	21	17	16	16	15	13	10	10	24	12.3
23	7	7	9	10	9	16	27	30	21	18	16	11	14	11	17	17	24	32	31	9	12	16	17	18	24	16.6
24	14	19	15	17	22	15	24	28	28	16	12	19	26	24	21	24	22	24	24	17	6	14	15	12	24	19.1
25	13	11	26	19	18	10	15	9	18	19	19	18	13	17	14	15	17	17	28	15	24	15	0	7	24	15.7
26	9	10	34	22	5	29	25	14	51	22	26	12	28	20	26	42	25	22	21	17	14	28	22	15	24	22.5
27	22	23	14	15	13	23	15	11	/	8	0	4	20	8	0	3/	1	4	10	10	1/	16	14	16	24	13.1
28	8	10	13	12	15	c I	10	8	4	1	5	10	12	2	9	15	22	1/	9	12	10	8	/	9	24	10.0
29	5	2	4	3	2	4	6	16	38	28	26 26	19	13	6	4	13	20	15	2	11	12	11	4 13	5	23	0.3
31	5	2	7	J	4	4	0	±0	50	20	20	1.7	10	0	'	10	± /	10	0	± ±	2	± ±	10	0	24	±±•0
NO	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	-	
NU.: MAX.	30	30	30	30	3U 26	30	30	30	3U 51	29	28 32	3U 36	3U 36	30	3U 26	30	3U 29	30	30	30	30	30	30	3U 29		
AVC ·	24. 11 0	23. 11 0	12 2	∠7. 11 9	20. 10 7	12 0	30. 13 5	30. 14 5	J⊥. 16 2	∠o. 12 9	J∠. 13 0	12 5	14 1	24. 12.2	12 4	42. 15.3	∠o. 15 5	32. 16.7	эт. 16-1	13 2	∠J. 13 5	∠o. 12 9	20. 12.6	20. 12 0		
AVG:	11.0	11.0	14.4	±±•2	10.1	12.0	10.0	14.0	10.2	12.9	10.0	12.0	1- 1 .1	14.4	12.7	10.0	10.0	10.1	10.1	10.2	10.0	14.7	12.0	12.0		

MONTHLY OBSERVATIONS: 717 MONTHLY MEAN: 13.2

13.2 MONTHLY MAX:

51.

2011

					11111 20111	111 0101011					
					RAW DAT	TA REPORT				A	ıg. 25, 201
(81102) PM10 Total 0-10um STF SITE ID: 06-077-3010 POC: 1 COUNTY: (077) San Joaquin	2				STATI	E: (06) Califor	nia			CAS NUMBER: LATITUDE: LONGITUDE:	38.029444 -121.3525
CITY: (75000) Stockton SITE ADDRESS: 8778 BRATTLE PLACE, SITE COMMENTS: NAMS (B) NEIGHBORHO MONITOR COMMENTS: NAMS (B) SSI PM	STOCKTON-WAGN DOD SCALE MONI -10 MONITOR	IER HOLT TOR			AQCR URBA LAND LOCA	: (031) SAN JC NIZED AREA: (8120 USE: RESIDENTI TION SETTING:	AQUIN VALLEI)) STOCKTON, CA AL SUBURBAN			UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT:	10 4210157 644597 7 6
SUPPORT AGENCY: (0945) San Joaquir MONITOR TYPE: OTHER COLLECTION AND ANALYSIS METHOD: (PQAO: (0145) California Air Re	n Valley Unifi 063) HI-VOL S# sources Board	ed Air Polluti A/GMW-1200 GRA	on Control D	istrict	REP	ORT FOR: 2010			DURATIO UNITS: 1 MIN DET	N: 24 HOUR Micrograms/cubic meter ECTABLE: 2	: (25 C)
MONTH Day JANUARY FEBRUARY 1 2	MARCH	APRIL 10	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
3											

7			
8	14		
9			
10			
11			

12	
13	
14	15
15	
16	
17	

18			
19			
20	6		
21			

19	

				_								
NO.:	0	0	0	5	0	0	0	0	0	0	0	0
MAX:				19.								
MEAN:				12.8								

ANNUAL OBSERVATIONS: 5 ANNUAL MAX: 19. ANNUAL MEAN: 12.8

5 6

7110	25	2011
Aug.	20,	ZUII

							RAW DATA	REPORT					Aug. 25, 2011
(8	35101) PM10 -	LC										CAS NUMBER:	
SITE II COUNTY: CITY: (SITE AI SITE CO MONITOF	D: 06-077-301 : (077) San J 75000) Stock1 DDRESS: 8778 DMMENTS: NAMS R COMMENTS: 0	0 POC: 2 paquin con BRATTLE PLACE, (B) NEIGHBORH MW HI-VOLUME S	L , STOCKTON-WAG HOOD SCALE MON SAMPLER W/ SIE	NER HOLT ITOR RRA ANDERSON 12	00 SSI INLET		STATE: AQCR: URBANI LAND U LOCATI	(06) Califor (031) SAN JO ZED AREA: (8120 ISE: RESIDENTI ON SETTING:	nia AQUIN VALLEY) STOCKTON, CA AL SUBURBAN			LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSI PROBE HEIGHT:	38.029444 -121.3525 10 4210157 644597 : 7
SUPPORT	r agency: (09	45) San Joaqui	n Valley Unif	ied Air Polluti	on Control Distr	ict					DURATIO	N: 24 HOUR	
MONITOR	R TYPE: OTHER	VOID METHOD.	(0(2) 117 1101 0	A (CMU1200 CD311	METDIO		REPOR	RT FOR: 2010			UNITS. I	Micrograms/cubic met	er (LC)
PQAO:	(0145) Ca	isis Meihod: lifornia Air R	esources Board	a/gmwizuu gravi 1	MEIRIC						MIN DETI	ECTABLE: 2	(10)
	MONTH												
Day 1	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUA	L OBSERVATIO	IS: 5	ANNUAL MEA	N: 13.4	ANNUAL MAX:	19.							
Notor	0	odoo with rogi	anal conquerco	nao ana ahaun i									

							RAW DATA	A REPORT					Aug. 25, 2011
(8	31102) PM10 1	Total 0-10um SI	ſP									CAS NUMBER:	37 641667
SITE II	06-099-000	05 POC: 3	3				STATE	: (06) Califo	rnia			LONGITUDE:	-120 993611
COUNTY	: (099) Stani	Islaus					AOCR	(031) SAN .T	OAOUIN VALLEY			UTM ZONE:	10
CITY: (48354) Modes	to					IIRBAN	17ED AREA: (517	0) MODESTO CA			UTM NORTHING	• 4167746
SITE AI	DRESS: 814	14TH ST., MODES	STO				LAND	USE: COMMERCIA	at.			UTM EASTING.	677022
SITE CO	MMENTS: ARB	SITE NUMBER 5	0000568. NEW S	ITE 7-15-81.			LOCAT	ION SETTING:	URBAN AND CEN	TER CITY		ELEVATION-MS	L· 27
MONITOR	R COMMENTS:	GMW HI-VOLUME S	SAMPLER W/ SIEF	RRA ANDERSON 12	00 SSI INLET		200111	1011 021111101	0101111 11112 0211			PROBE HEIGHT	:
SUPPORT	F AGENCY: (01	145) California	Air Resources	Board				0.01			DURATIO	N: 24 HOUR	
MONITOR	R TYPE: SLAMS			(REPC	RT FOR: 2010	J		UNITS. 1	Micrograms/cubic mo	tor (25 C)
COLLECT PQAO:	FION AND ANA (0145) Ca	LYSIS METHOD: Alifornia Air R	(063) HI-VOL SA esources Board	A/GMW-1200 GRAV	IMETRIC						MIN DETI	ECTABLE: 2	ter (25 C)
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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MEAN:				17.8									
ANNUA	L OBSERVATIO	NS: 4	ANNUAL MEAN	1: 17.8	ANNUAL MAX:	23.							

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(85101) PM10 - LC											CAS NUMBER:	
												LATITUDE:	37.641667
SITE ID: 06-	-099-0005	POC: 1					STATE	: (06) Califo	ornia			LONGITUDE:	-120.993611
COUNTY: (U9)	9) Stanislaus	5					AQCR	: (031) SAN 3	JOAQUIN VALLEY			UTM ZONE:	10
CIII: (48354	e. eld latu	CT MODEC	TO				URBA	NIZED AREA: (517	70) MODESTO, CA			UTM NORTHING:	4167746
SITE COMMEN	TS. ARR STTE	NUMBER 5	10 100568 NEW	STTE 7-15-81			LAND	USE: COMMERCI	AL			UTM EASTING:	677022
MONITOR COM	MENTS: GMW H	T-VOLUME S	AMPLER W/ STE	BRA ANDERSON 12	00 SST INLET		LOCA	TION SETTING:	URBAN AND CEN	ITER CITY		ELEVATION-MSL	: 27
1000111000 0001					00 001 10001							PROBE HEIGHT:	
SUPPORT AGE	NCY: (0145)	California	Air Resource:	s Board								. 24 10110	
MONITOR TYP	E: SLAMS						REP	ORT FOR: 201	0		DURATION	1: 24 HOUR	
COLLECTION	AND ANALYSIS	METHOD: (063) HI-VOL-S	A/GMW1200 GRAVI	METRIC						UNITS: N	licrograms/cubic met	er (LC)
PQAO: ((0145) Califor	rnia Air Re	sources Board	d							MIN DETE	CTABLE: 2	
MON	ITH												
Day JAN	UARY FI	EBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUAL OBS	SERVATIONS:	4	ANNUAL MEA	N: 18.8	ANNUAL MAX:	∠4.							

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(8	1102) PM10 T	otal 0-10um ST	P									CAS NUMBER:	
SITE ID	: 06-099-0006	5 POC: 1					STATE .	(06) Californ	i			LATITUDE:	37.488333
COUNTY:	(099) Stanis	slaus					AOCR.	(08) Callorn (031) SAN JOA	IA OUIIN VALLEY			UTM ZONE:	-120.835855
CITY: (8	80812) Turloc	:k					URBANTZE	CD AREA: (5170)	MODESTO, CA			UTM NORTHING:	4151042
SITE AD	DRESS: 900	S MINARET STRE	EET, TURLOCK, CA	A			LAND USE	C: RESIDENTIAL				UTM EASTING:	691337
SITE CO	MMENTS: REPL	ACES THE WESTL	EY-I5 TRUCKSTOP	P AM STATION (S	5000572). STATION	OPERATOR CHANG	ED LOCATION	N SETTING:	SUBURBAN			ELEVATION-MSL:	56
MONITOR	COMMENTS: G	MW HI-VOLUME S	SAMPLER W/ SIER	RA ANDERSON 12	JU SSI INLET							PROBE HEIGHT:	
SUPPORT	AGENCY: (09	45) San Joaqui	n Valley Unifie	ed Air Pollutio	on Control District						DURATION: 2	4 HOUR	
MONITOR	TYPE: OTHER		(0(2))	(0.5. 1000 0000			REPORT	FOR: 2010			UNITS. Mic	rograms/cubic meter	c (25 C)
COLLECT	ION AND ANAL	YSIS METHOD: ((063) HI-VOL SA	/GMW-1200 GRAV	IMETRIC						MIN DETECT	DIE. 2	(25 C)
PQA0:	(0145) Cal	LIIOFNIA AIF R	esources Board								MIN DEIECIA	ABLE: 2	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY J	UNE J	ULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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MEAN:				16.8									
ANNUAL	OBSERVATION	IS: 5	ANNUAL MEAN	: 16.8	ANNUAL MAX:	25.							
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Aug.	23,	2011

(85101) PM1 SITE ID: 06-099-(COUNTY: (099) Sta CITY: (80812) Tur SITE ADDRESS: 9 SITE COMMENTS: RI MONITOR COMMENTS SUPPORT AGENCY: MONITOR TYPE: OTH COLLECTION AND AN PQAO: (0145)) - LC NOO6 POC: 1 INISIAUS NOC S MINARET STRE SPLACES THE WESTL : GMW HI-VOLUME S (0945) San Joaquin ER NALYSIS METHOD: (California Air Re	ET, TURLOCK, CA EY-I5 TRUCKSTOP AMPLER W/ SIERR n Valley Unified 063) HI-VOL-SA/ esources Board	AM STATION (5 A ANDERSON 120 À Air Pollutio GMW1200 GRAVIM	000572). STATION (0 SSI INLET n Control District METRIC	OPERATOR CH#	STATE: AQCR: URBANIZ LAND US LOCATIO REPORT	(06) Califorr (031) SAN JOJ ED AREA: (5170) E: RESIDENTIA N SETTING: FOR: 2010	hia QQUIN VALLEY MODESTO, CA L SUBURBAN		DURATION: 2 UNITS: Mic: MIN DETECT2	CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT: 44 HOUR cograms/cubic meter ABLE: 2	37.488333 -120.835833 10 4151042 691337 56
MONTH Day JANUARY	FEBRIJARY	MARCH	APRTI.	MAY .T	INE	.TITLY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
Day JANUARY 1 2 3 4 5 6	FEBRUARY	MARCH	APRIL 16	MAY J	UNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUAL OBSERVAT	IONS: 5	ANNUAL MEAN:	17.4	ANNUAL MAX:	25.							
Note. Ouplifier	. aadaa with magi	anal concurrence	ano choun in	women and the	booo without							

Aug.	25.	2011
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							KAW DAI	A REFORT				P	ug. 25, 2011
(85101) PM10 -	LC										CAS NUMBER:	
												LATITUDE:	36.498889
SITE I.	D: 06-107-100	I POC:	L				STATE	: (06) Califo	ornia			LONGITUDE:	-118.823889
COUNTY	: (107) lular	e 	,				AQCR	: (031) SAN (JOAQUIN VALLEY			UTM ZONE:	11
CIII: ((10980) Sequo	IA NALIONAL PA	IK NATIONAL I				URBAI	NIZED AREA: (000	00) NOT IN AN URE	BAN AREA		UTM NORTHING:	4040630
STIE A	OMMENTE: ADD	CITE NUMBER 5/	DIA NAIIONAL I	FARR	D OV AND DD		LAND	USE: UNKNOWN				UTM EASTING:	336640
MONITO	R COMMENTS.	SIIE NOMBER 34	100570 NEW 3.	11E 07-02 SFM 15	r, ox and rb.		LOCA	FION SETTING:	UNKNOWN			ELEVATION-MSL:	521
11011110	R COLLINID.											PROBE HEIGHT:	
SUPPOR	T AGENCY: (07	45) National F	ark Service								DUDITO	0.4	
MONITO	R TYPE: IMPRO	VE					REP	ORT FOR: 201	0		DURATION	: 24 HOUR	
COLLEC.	TION AND ANAI	YSIS METHOD:	(808) IMPROVE	Module D with C	yclone Inle						UNITS: M	icrograms/cubic mete	r (LC)
PQAO:	(0745) Na	tional Park Se	rvice								MIN DETE	CTABLE:	
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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NO.:	0	0	0	10	0	0	0	0	0	0	0	0	
MAX:				23.171									
MEAN:				9.3329									
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Aug.	25,	2011
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(81: SITE ID: COUNTY: (CITY: (82 SITE ADDI SITE COMI MONITOR (SUPPORT 2 MONITOR 2 COLLECTIC PQAO:	102) PM10 To 06-107-2002 (107) Tulare 954) Visalia RESS: 310 M MENTS: ARB S COMMENTS: GM AGENCY: (014 TYPE: SLAMS DN AND ANALY (0145) Cal:	tal 0-10um ST POC: 2 C CHURCH ST, VI ITE NUMBER 54 W HI-VOL W/ S 5) California SIS METHOD: (ifornia Air Re	P SALIA 00568. NEW SII A 1200 SSI INI Air Resources 063) HI-VOL SJ esources Board	E 7/79. SPM SO: LET – CARB PRIM Board A/GMW-1200 GRAV	2. NO2 DATA FROM ARY SAMPLER IMETRIC	THIS SITE BE	STATE AQCR: URBAN FORE 1, LAND LOCAT REPO	: (06) Califo (031) SAN J IZED AREA: (877 USE: COMMERCI ION SETTING: RT FOR: 2014	rnia OAQUIN VALLEY 9) VISALIA, CA AL URBAN AND CEN 0	TER CITY	DURATION UNITS: M MIN DETE	CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT: : 24 HOUR icrograms/cubic met CTABLE: 2	36.332222 -119.290278 11 4023031 294430 97 er (25 C)
Dav	MONTH	FEBRUARY	MARCH	APRTI.	MAY	TIME	.TITLY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUAL	OBSERVATIONS	5: 5	ANNUAL MEAN	J: 21.8	ANNUAL MAX:	36.							

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(SITE I COUNTY CITY: (SITE A SITE C MONITO SUPPOR MONITO COLLEC PQAO:	85101) PM10 - D: 06-107-2007 : (107) Tulare (82954) Visali DDRESS: 310 N OMMENTS: ARB R COMMENTS: G T AGENCY: (01- T AGENCY: (01- R TYPE: SLAMS TION AND ANAL (0145) Cal	LC POC: 1 a CHURCH ST, VI SITE NUMBER 54 MW HI-VOL W/ 5 15) California YSIS METHOD: ifornia Air R	SALIA 00568. NEW SIT SA 1200 SSI INI Air Resources (063) HI-VOL-S; esources Board	TE 7/79. SPM SO LET - THE PRIMA B Board A/GMW1200 GRAVI	2. NO2 DATA FROM RY SAMPLER METRIC	THIS SITE BE	STATE: AQCR: URBANI LAND U LOCATI REPOR	(06) Califor (031) SAN JC ZED AREA: (8779 SE: COMMERCIA ON SETTING: T FOR: 2010	nia DAQUIN VALLEY) VISALIA, CA L URBAN AND CEN	TER CITY	DURATION: UNITS: M: MIN DETEC	CAS NUMBER: LATITUDE: LONGITUDE: UTM ZONE: UTM NORTHING: UTM EASTING: ELEVATION-MSL: PROBE HEIGHT: 24 HOUR Crograms/cubic mete	36.332222 -119.290278 11 4023031 294430 97 er (LC)
	MONTH												
Day	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
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ANNUA	AL OBSERVATION	S: 5	ANNUAL MEAN	N: 22.4	ANNUAL MAX:	37.							

QUALIFIER CODES:

Qualifier Code	Qualifier Description	Qualifier Type
AF	Scheduled but not Collected	NULL
AG	Sample Time out of Limits	NULL
AJ	Filter Damage	NULL
AN	Machine Malfunction	NULL
AQ	Collection Error	NULL
AV	Power Failure	NULL
AZ	Q C Audit	NULL
BA	Maintenance/Routine Repairs	NULL
IJ	High Winds	INFORM
IL	Other	INFORM

Note: Qualifier codes with regional concurrence are shown in upper case, and those without regional concurrence are shown in lower case.

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APPENDIX I: April 11, 2010 Public Notice