

APPENDIX A

Quantitative Hot-Spot Analysis Modeling Protocol Interstate 15 Express Lanes Project

In November 2013, the United States Environmental Protection Agency (EPA) released the final *Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas* (Guidance) for quantifying the local air quality impacts of transportation projects and comparing them to the particulate matter (PM) national ambient air quality standards (NAAQS) (75 FR 79370).

This modeling protocol details the key data sources, modeling tools, and analytical assumptions used in preparing the project-level quantitative PM_{2.5} and PM₁₀ hot-spot analysis for the Interstate 15 (I-15) Express Lanes Project based on the above-referenced Guidance.

Geographic Area and Emissions Sources

This hot-spot analysis will evaluate impacts to the local project vicinity, defined as a 300-meter buffer zone around the entire 14.6-mile project limits along I-15 (RIV-15 PM 34.7 to SBD-15 PM 1.3) in Riverside County. Roadway emissions sources included in this analysis will include mobile exhaust, tire wear, brake wear, and re-entrained road dust emissions.

Construction-period emissions will not be considered in this analysis, as construction duration would be less than five years. No major nearby sources of PM_{2.5} and PM₁₀ emissions, as defined in Guidance section 8.2, are located within two miles of the I-15 project limits.

Although this hotspot analysis will consider the entire project area identified above, the quantitative dispersion modeling will focus on the locations likely to experience the highest PM_{2.5} and PM₁₀ concentrations, as recommended in the Guidance section 3.3.2. Such areas will include the I-15 freeway segments and interchange locations that exhibit the following characteristics:

1. The highest AADT volumes,
2. The highest truck AADT volumes, and
3. The highest grams/second emissions totals.

The analysis will clearly present the above-referenced data for each freeway segment and interchange location, and provide discussion of why selected locations are expected to experience the highest PM_{2.5} and PM₁₀ concentrations.

Analysis Approach and Analysis Years

This hot-spot analysis will evaluate the project at opening-year 2020 and horizon-year 2040 using traffic volume estimates developed by the project traffic consultant and approved by Caltrans District 8. The build alternative and no-build alternative will be evaluated at both analysis years.

Particulate Matter NAAQS Evaluated

The Riverside County portion of the South Coast Air Basin (SCAB) has been designated a federal non-attainment area for PM_{2.5} (24-hour standard and annual standard) and PM₁₀ (24-hour standard). As such, this hot-spot analysis will evaluate the project against the following federal standards: 24-hour PM_{2.5}, annual PM_{2.5}, and 24-hour PM₁₀.

Models and Methods Used

This hot-spot analysis will be prepared using the latest EPA-approved mobile emissions model for use in California, EMFAC2011. As recommended by the Guidance section 5.5, this analysis will use the simplified approach using the Project-Level Assessment tool, EMFAC2011-PL, to generate emission rates for traffic volumes forecasted within the Riverside County portion of the SCAB for years of 2020 (opening year) and 2040 (horizon year). Re-entrained road dust emissions will be calculated using the AP-42 calculation formulas for paved roads (Fifth Edition, Volume I, Chapter 13.2.1, revised January 2011).

The Guidance recommends that hot-spot analyses be developed consistent with the EPA's current recommended model under Appendix W to 40 CFR Part 51. The American Meteorological Society/EPA Regulatory Model (AERMOD) is the EPA's recommended near-field dispersion model. The latest version of AERMOD (version 14134) will be used in this Analysis, using the BEE-LINE Software BEEST version 10.13 software graphical user interface to facilitate modeling inputs.

Project-Specific Data Sources

This hot-spot analysis will use the following project-specific data sources:

- **Traffic volumes** developed by the project traffic consultant that have been approved for use by Caltrans District 8, for opening-year 2020 and horizon-year 2040.
- **EMFAC2011 emissions factors** for years 2020 and 2035, for the Riverside County portion of the SCAB. By using emissions factors that are specific to the Riverside County portion of the SCAB, the appropriate vehicle fleet mix and age distribution, as well as appropriate temperature and humidity data for the project area will be accommodated in this analysis. And finally, since 2035 is the farthest future year for which EMFAC2011 emissions factors are made available, year 2035 emissions factors will be used as a surrogate for year 2040 emissions factors.
- **Surface meteorological data** from the Riverside Station will be used in this analysis. This data was acquired from the South Coast Air Quality Management District (SCAQMD), and was prepared using AERMET version 14134, and covers years 2008 through 2012, inclusive. Additionally, the meteorological data have passed the EPA's requirement for 90% completeness by quarter for wind direction, wind speed, and temperature. Please contact SCAQMD staff member Jillian Baker at (909) 396-3176, or by e-mail at jbaker@aqmd.gov, with any questions or concerns regarding the surface meteorological data that will be used in this hot-spot analysis.

Determination of Background Concentrations

The nearest air quality monitoring station in the vicinity of the project area is the Norco-Norconian monitoring station, which is located approximately 0.75-mile west of I-15. While this station monitors PM10, it does not monitor PM2.5. The nearest PM2.5 monitoring station is the Mira Loma Van Buren station that is located approximately 3.3 miles east of I-15 (see Figure 1, Attachment).

PM2.5 and PM10 background concentrations were developed consistent with the methodology detailed in the Guidance section 8.3.1 using the “single monitor” approach, as the Norco-Norconian and Mira Loma Van Buren monitoring stations meet all EPA requirements for (1) similarity of characteristics between monitor location and project area, (2) distance of monitor from project area, and (3) wind patterns between the monitor and project area.

Annual PM2.5

For annual PM2.5, the background concentration is developed by averaging the annual concentrations from the previous 3-year period that meets all applicable EPA monitoring requirements, such as data completeness. Per the EPA Monitor Value Reports (see Attachment), which represent the best and most recent information available to EPA from state agencies, the average annual PM2.5 concentration recorded at the Mira Loma Van Buren station during the 2011 – 2013 period was 14.8 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

24-Hour PM2.5

For 24-hour PM2.5, the Guidance provides two analysis options, or tiers, to determine the appropriate background concentration. This analysis uses the tier one approach, which is conservative, but less intensive to develop. Under the tier one approach, the background concentration is developed by averaging the measured 98th percentile 24-hour concentrations from the previous 3-year period that meets all applicable EPA monitoring requirements, such as data completeness. Per the EPA Monitor Value Reports (see Attachment), which represent the best and most recent information available to EPA from state agencies, the average 98th percentile 24-hour PM2.5 concentration recorded at the Mira Loma Van Buren station during the 2011 – 2013 period was 36.67 $\mu\text{g}/\text{m}^3$.

24-Hour PM10

For 24-hour PM10, the appropriate background concentration is simply the highest recorded 24-hour concentration from the previous 3-year period that meets all applicable EPA monitoring requirements, such as data completeness. Per the EPA Monitor Value Reports (see Attachment), which represent the best and most recent information available to EPA from state agencies, the highest 24-hour PM10 concentration recorded at either monitoring station during the 2011 – 2013 period was 147 $\mu\text{g}/\text{m}^3$.

Emissions Source Parameters

Roadway links will be modeled as a string of volume sources, as described in the Guidance, Appendix J, section J.3.3. Source parameters will be developed consistent with the methodology detailed in the Guidance, Appendix J, using link-specific road geometry and fleet mix (for calculation of initial lateral and vertical dispersion coefficients, source release heights) data. 24-hour emissions profiles will be developed for each source using the project-specific traffic data described above, that will take into account AM peak-period, mid-day, PM peak-period and evening/night traffic volumes.

Receptor Placements

As recommended in the Guidance, section 7.6, receptors will be positioned to estimate the highest concentrations of PM_{2.5} and PM₁₀ that could result from build alternative and no-build alternative emissions. A line of receptors will be placed at the roadway facility right-of-way (ROW) using 10 meter spacing. A 25-meter receptor grid will then be placed from the ROW fenceline to 100 meters. And finally, a 50-meter receptor grid will be placed from 100 meters from ROW (end of 25-meter receptor grid) to 300 meters.

Calculation of Design Values for Conformity Determination

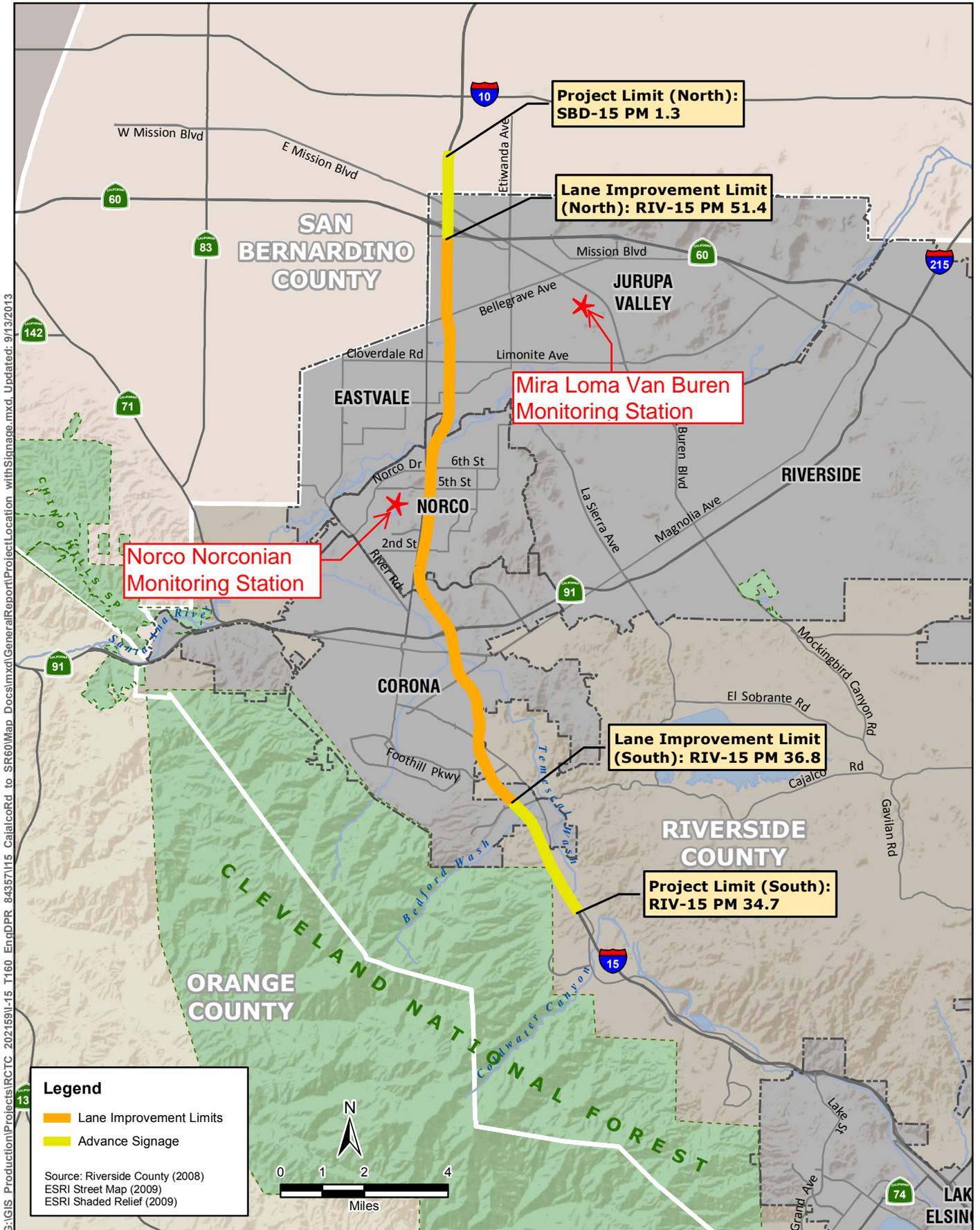
Using modeled PM_{2.5} and PM₁₀ concentrations and the background concentration values identified above, design values (DV) will be calculated for annual PM_{2.5}, 24-hour PM_{2.5} and 24-hour PM₁₀ using the step-by-step calculation procedures detailed in the Guidance, section 9.3.

Reference:

U.S. Environmental Protection Agency. 2013. Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in PM_{2.5} and PM₁₀ Nonattainment and Maintenance Areas. November.

Attachments:

Figure 1 – Monitoring Station Location
EPA Monitor Values Reports



G:\GIS Production\Projects\RCTC_2021591-15_T160_EnvDPR_84357115_CajalcoRd to SR60\Map Docs\mxd\GeneralReport\ProjectLocation_withSignage.mxd, Updated: 9/13/2013

Figure 1
PM Monitoring Station Locations

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2011

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	36	15	14.2	12.4	11.7	15	6.9	None	2	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24 HOUR	112	51.6	51.3	28	27.9	28	11.8	None	1	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24 HOUR	103	23.7	15.6	12.5	12.4	13	6.8	Excluded	1	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	60	17	12.8	12.7	12	13	6.7	None	2	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	114	26.3	15.7	12.5	11.6	13	6	None	1	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	347	60.8	56.5	44.6	38.9	35	13.7	None	1	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	62	64	31.7	30.2	30	32	13.5	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	343	56.3	56.1	45.7	40.2	37	15.3	None	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	118	52.9	44.9	35.3	32.2	35	13.3	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	43	15	11	11	11	15	6.7	None	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	40	16	12	11	11	16	6.8	None	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	109	60.1	45.7	28.2	27.5	28	12.6	None	1	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	55	30.7	30.6	28.2	27	31	8.4	None	1	060718001	501 W. Valley Blvd., Big Bear City,	Big Bear City	San Bernardino	CA	09
24 HOUR	101	65	45.7	32.5	27.6	33	12.2	None	1	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

AirData reports are produced from a direct query of the AQS Data Mart. The data represent the best and most recent information available to EPA from state agencies. However, some values may be absent due to incomplete reporting, and some values may change due to quality assurance activities. The AQS database is updated daily by state, local, and tribal organizations who own and submit the data. Please contact the appropriate air quality monitoring agency to report any data problems.

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This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2011

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	320	19.1	18.3	18	18	17	8.4	None	1	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24-HR BLK AVG	78	26.5	23.9	20	19.9	24	6.4	None	1	060651016	12160 Santiago Rd. Banning, Ca 92220	Banning	Riverside	CA	09
24-HR BLK AVG	204	38.3	37	36.4	34.5	34	17.6	Excluded	3	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	153	70	64.5	49.6	47.8	48	22	None	9	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	356	73.1	70.9	54	53.1	45	22.3	None	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2012

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	43	14.3	13.2	13	12.4	14	6.2	None	2	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24 HOUR	104	30.2	27.5	26.8	26.3	27	11.4	None	1	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24 HOUR	116	18.4	18.3	16.4	14.9	16	7.6	None	1	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	12	9.8	8.5	6.7	6.7	10	5.6	None	2	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	117	15.5	13.9	13.7	13.2	14	6.5	None	1	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	344	38.1	37.5	37.3	36.9	36	13.6	None	1	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	63	30	22.8	22.1	21.4	23	11.9	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	349	39.3	37.9	36.5	35.9	35	15	Excluded	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	34	31.2	26.7	21.7	21	31	15.2	None	2	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	120	35.2	29.2	28.6	28.5	29	12.4	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	49	12	12	10	9	12	6.7	None	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	48	11	11	11	10	11	6.7	None	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	109	36	35.6	28.6	26.3	29	12.5	Excluded	1	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	52	36.4	27.4	18	15.3	27	8	None	1	060718001	501 W. Valley Blvd., Big Bear City,	Big Bear City	San Bernardino	CA	09
24 HOUR	107	34.8	33.5	27.1	26.5	27	11.8	None	1	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2012

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	354	19.1	16.8	14.7	14.6	17	6.4	None	1	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24-HR BLK AVG	342	38.4	30.9	26.9	26.8	25	9.5	None	1	060651016	12160 Santiago Rd. Banning, Ca 92220	Banning	Riverside	CA	09
24-HR BLK AVG	347	49.9	42.1	41.3	40	38	18.1	Excluded	9	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	350	47.7	44	43.4	42.1	41	20.5	Excluded	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2013

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	39	13	11.5	11.4	11.2	13	7.4	None	2	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24 HOUR	117	53.7	33.4	29.2	26.3	29	11.3	None	1	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24 HOUR	32	13.3	13.3	13.1	12.5	13	7.1	None	2	060651016	12160 Santiago Rd. Banning, Ca 92220	Banning	Riverside	CA	09
24 HOUR	118	25.8	24.4	15.9	15.2	16	8.4	None	1	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	117	18.5	15.5	13.8	12.3	14	6.5	None	1	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	345	60.3	54.7	40.8	38.8	35	12.5	None	1	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	63	58.6	29.6	29.6	23.9	30	12.9	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	354	56.5	51.4	43.8	41.4	36	14	Excluded	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	56	59.3	42.4	24.1	23	42	13.8	None	2	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	110	49.3	29.8	26.8	26.6	27	12	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	53	13.1	11.8	10.4	10.1	12	6.9	None	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	52	13.8	12.7	10.9	9.9	13	6.9	None	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	121	43.6	34.3	33.1	32.2	33	12.3	None	1	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	59	35.5	35.1	25.8	21.8	35	9.7	None	1	060718001	501 W. Valley Blvd., Big Bear City,	Big Bear City	San Bernardino	CA	09
24 HOUR	110	55.3	34.6	33.4	32.3	33	11.4	None	1	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM2.5

Year: 2013

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Third Max	Fourth Max	98th Percentile	Weighted Annual Mean	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	341	28.1	27.3	27	26.7	26	8.5	None	1	060650009	12705 Pechanga Rd., Temecula, Ca 92592	Not in a city	Riverside	CA	09
24-HR BLK AVG	291	57.8	42.5	37.9	29.9	27	8.3	None	1	060651016	12160 Santiago Rd. Banning, Ca 92220	Banning	Riverside	CA	09
24-HR BLK AVG	354	64.5	57.2	48.3	42.1	37	15.2	None	9	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	356	83.2	67.2	54.9	52.7	42	18.4	Excluded	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09

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Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2011

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	59	60	54	0	0.00	None	1	060650003	Norconian-Us Nfac, Norco	Norco	Riverside	CA	09
24 HOUR	25	55	48	0	0.00	None	1	060650004	10551 Bellegrave	Mira Loma	Riverside	CA	09
24 HOUR	59	51	41	0	0.00	None	1	060650012	200 S. Hathaway St., Banning Ca	Banning	Riverside	CA	09
24 HOUR	59	56	48	0	0.00	None	2	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	59	54	48	0	0.00	None	4	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	58	106	96	0	0.00	Excluded	6	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	47	48	47	0	0.00	None	7	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	61	42	38	0	0.00	None	2	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	60	65	56	0	0.00	None	1	060656001	237 1/2 N. 'D' St., Perris	Perris	Riverside	CA	09
24 HOUR	104	82	77	0	0.00	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	61	78	63	0	0.00	None	4	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	59	79	73	0	0.00	None	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	49	43	41	0	0.00	Excluded	2	060710001	200 E. Buena Vista, Barstow	Barstow	San Bernardino	CA	09
24 HOUR	59	43	42	0	0.00	None	1	060710005	Lake Gregory-Lake Dr, Crestline	Crestline	San Bernardino	CA	09
24 HOUR	53	33	29	0	0.00	Excluded	1	060710013	Middle Sch-8560 Aliento, Lucerne Valley	Lucerne Valley	San Bernardino	CA	09
24 HOUR	60	70	55	0	0.00	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	56	71	56	0	0.00	None	2	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09

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Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2011

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	53	36	35	0	0.00	Excluded	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	49	36	34	0	0.00	Excluded	1	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09
24 HOUR	60	84	57	0	0.00	None	2	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	54	41	38	0	0.00	Excluded	1	060714001	17288 Olive St., Hesperia	Hesperia	San Bernardino	CA	09
24 HOUR	58	71	52	0	0.00	None	1	060714003	500 N. Dearborn, Redlands, Ca. 92373	Redlands	San Bernardino	CA	09
24 HOUR	58	56	56	0	0.00	None	2	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2011

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	130	62	54	0	0.00	Excluded	3	060650004	10551 Bellegrave	Mira Loma	Riverside	CA	09
24-HR BLK AVG	337	83	76	0	0.00	Excluded	5	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24-HR BLK AVG	324	440	363	14	15.39	None	1	060651999	66725 Martinez Road	Torres-Martinez I.R.	Riverside	CA	09
24-HR BLK AVG	355	105	78	0	0.00	Excluded	3	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24-HR BLK AVG	346	85	62	0	0.00	Excluded	3	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24-HR BLK AVG	212	82	61	0	0.00	Excluded	5	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	61	87	78	0	0.00	None	9	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24-HR BLK AVG	361	109	103	0	0.00	Excluded	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24-HR BLK AVG	351	58	54	0	0.00	Excluded	3	060659001	506 W Flint St, Lake Elsinore	Lake Elsinore	Riverside	CA	09
24-HR BLK AVG	362	55	49	0	0.00	Excluded	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24-HR BLK AVG	365	72	71	0	0.00	None	3	060711004	1350 San Bernardino Rd., Upland	Upland	San Bernardino	CA	09
24-HR BLK AVG	259	62	50	0	0.00	Excluded	2	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09
24-HR BLK AVG	363	127	99	0	0.00	Excluded	3	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2012

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	59	52	47	0	0.00	None	1	060650003	Norconian-Us Nfac, Norco	Norco	Riverside	CA	09
24 HOUR	60	45	39	0	0.00	None	1	060650012	200 S. Hathaway St., Banning Ca	Banning	Riverside	CA	09
24 HOUR	61	44	42	0	0.00	None	2	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	61	44	44	0	0.00	None	4	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	60	124	78	0	0.00	None	6	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	48	50	47	0	0.00	None	7	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	60	37	30	0	0.00	None	2	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	60	62	50	0	0.00	None	1	060656001	237 1/2 N. 'D' St., Perris	Perris	Riverside	CA	09
24 HOUR	121	67	66	0	0.00	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	61	67	66	0	0.00	None	4	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	56	78	73	0	0.00	None	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	60	42	39	0	0.00	Excluded	2	060710001	200 E. Buena Vista, Barstow	Barstow	San Bernardino	CA	09
24 HOUR	57	43	40	0	0.00	None	1	060710005	Lake Gregory-Lake Dr, Crestline	Crestline	San Bernardino	CA	09
24 HOUR	56	30	28	0	0.00	None	1	060710013	Middle Sch-8560 Aliento, Lucerne Valley	Lucerne Valley	San Bernardino	CA	09
24 HOUR	61	57	56	0	0.00	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	61	59	56	0	0.00	None	2	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	54	45	41	0	0.00	Excluded	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09

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Pollutant: PM10

Year: 2012

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	33	28	27	0	0.00	Excluded	1	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09
24 HOUR	60	67	65	0	0.00	None	2	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	60	45	40	0	0.00	None	1	060714001	17288 Olive St., Hesperia	Hesperia	San Bernardino	CA	09
24 HOUR	61	48	47	0	0.00	None	1	060714003	500 N. Dearborn, Redlands, Ca. 92373	Redlands	San Bernardino	CA	09
24 HOUR	55	53	49	0	0.00	None	2	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2012

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	342	72	65	0	0.00	None	5	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24-HR BLK AVG	340	377	334	15	15.55	None	1	060651999	66725 Martinez Road	Torres-Martinez I.R.	Riverside	CA	09
24-HR BLK AVG	338	136	112	0	0.00	Excluded	3	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24-HR BLK AVG	363	117	55	0	0.00	Excluded	3	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24-HR BLK AVG	358	104	101	0	0.00	None	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24-HR BLK AVG	365	64	64	0	0.00	Excluded	3	060659001	506 W Flint St, Lake Elsinore	Lake Elsinore	Riverside	CA	09
24-HR BLK AVG	217	85	51	0	0.00	Excluded	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24-HR BLK AVG	336	92	75	0	0.00	None	3	060711004	1350 San Bernardino Rd., Upland	Upland	San Bernardino	CA	09
24-HR BLK AVG	204	71	66	0	0.00	Excluded	2	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09
24-HR BLK AVG	364	67	63	0	0.00	None	3	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2013

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	57	58	54	0	0.00	None	1	060650003	Norconian-Us Nfac, Norco	Norco	Riverside	CA	09
24 HOUR	61	64	46	0	0.00	None	1	060650012	200 S. Hathaway St., Banning Ca	Banning	Riverside	CA	09
24 HOUR	60	112	101	0	0.00	None	2	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	61	100	99	0	0.00	None	4	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	59	103	99	0	0.00	Excluded	6	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24 HOUR	60	129	83	0	0.00	None	2	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24 HOUR	57	70	69	0	0.00	None	1	060656001	237 1/2 N. 'D' St., Perris	Perris	Riverside	CA	09
24 HOUR	117	135	87	0	0.00	None	2	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	58	91	91	0	0.00	None	4	060658001	5888 Mission Blvd., Rubidoux	Rubidoux	Riverside	CA	09
24 HOUR	59	147	88	0	0.00	None	1	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24 HOUR	55	87	53	0	0.00	None	2	060710001	200 E. Buena Vista, Barstow	Barstow	San Bernardino	CA	09
24 HOUR	60	37	37	0	0.00	None	1	060710005	Lake Gregory-Lake Dr, Crestline	Crestline	San Bernardino	CA	09
24 HOUR	47	160	71	1	8.27	None	1	060710013	Middle Sch-8560 Aliento, Lucerne Valley	Lucerne Valley	San Bernardino	CA	09
24 HOUR	60	115	71	0	0.00	None	1	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	59	117	73	0	0.00	None	2	060710025	1408 Francis St.	Ontario	San Bernardino	CA	09
24 HOUR	49	77	58	0	0.00	None	1	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24 HOUR	51	53	42	0	0.00	None	1	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09

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Pollutant: PM10

Year: 2013

Exceptional Events: Excluded (if any)

Duration Description=24 HOUR

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24 HOUR	61	90	83	0	0.00	None	2	060712002	14360 Arrow Blvd., Fontana	Fontana	San Bernardino	CA	09
24 HOUR	54	49	42	0	0.00	None	1	060714001	17288 Olive St., Hesperia	Hesperia	San Bernardino	CA	09
24 HOUR	61	72	55	0	0.00	None	1	060714003	500 N. Dearborn, Redlands, Ca. 92373	Redlands	San Bernardino	CA	09
24 HOUR	60	102	67	0	0.00	None	2	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

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Generated: July 23, 2014

Monitor Values Report

Geographic Area: Riverside-San Bernardino-Ontario, CA

Pollutant: PM10

Year: 2013

Exceptional Events: Excluded (if any)

Duration Description=24-HR BLK AVG

Duration Description	Obs	First Max	Second Max	Actual Exc	Est Exc	Exc Events	Monitor Number	Site ID	Address	City	County	State	EPA Region
24-HR BLK AVG	362	78	72	0	0.00	Excluded	5	060651003	7002 Magnolia Ave., Riverside	Riverside	Riverside	CA	09
24-HR BLK AVG	237	559	484	13	24.09	None	1	060651999	66725 Martinez Road	Torres-Martinez I.R.	Riverside	CA	09
24-HR BLK AVG	360	88	86	0	0.00	Excluded	3	060652002	46-990 Jackson St., Indio	Indio	Riverside	CA	09
24-HR BLK AVG	361	111	105	0	0.00	Excluded	3	060655001	Fs-590 Racquet Club Ave, Palm Springs	Palm Springs	Riverside	CA	09
24-HR BLK AVG	358	169	116	1	1.00	Excluded	3	060658005	5130 Poinsettia Place	Mira Loma	Riverside	CA	09
24-HR BLK AVG	343	111	46	0	0.00	None	3	060659001	506 W Flint St, Lake Elsinore	Lake Elsinore	Riverside	CA	09
24-HR BLK AVG	5	27	25	0	0.00	None	1	060710001	200 E. Buena Vista, Barstow	Barstow	San Bernardino	CA	09
24-HR BLK AVG	349	304	130	1	1.00	None	2	060710306	14306 Park Ave., Victorville, Ca	Victorville	San Bernardino	CA	09
24-HR BLK AVG	363	96	58	0	0.00	None	3	060711004	1350 San Bernardino Rd., Upland	Upland	San Bernardino	CA	09
24-HR BLK AVG	342	167	155	2	1.97	None	2	060711234	Corner Of Athol And Telescope	Searles Valley	San Bernardino	CA	09
24-HR BLK AVG	364	66	64	0	0.00	Excluded	3	060719004	24302 4th St., San Bernardino, Ca.	San Bernardino	San Bernardino	CA	09

Get detailed information about this report, including column descriptions, at http://www.epa.gov/airquality/airdata/ad_about_reports.html#mon

AirData reports are produced from a direct query of the AQS Data Mart. The data represent the best and most recent information available to EPA from state agencies. However, some values may be absent due to incomplete reporting, and some values may change due to quality assurance activities. The AQS database is updated daily by state, local, and tribal organizations who own and submit the data. Please contact the appropriate air quality monitoring agency to report any data problems.

<http://www.epa.gov/airquality/airdata/ad_contacts.html>

Readers are cautioned not to rank order geographic areas based on AirData reports. Air pollution levels measured at a particular monitoring site are not necessarily representative of the air quality for an entire county or urban area.

This report is based on monitor-level summary statistics. Air quality standards for some pollutants (PM2.5 and Pb) allow for combining data from multiple monitors into a site-level summary statistic that can be compared to the standard. In those cases, the site-level statistics may differ from the monitor-level statistics upon which this report is based.

Source: U.S. EPA AirData <<http://www.epa.gov/airdata>>

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