

**Carbon Monoxide Hotspots.** An air quality impact would be considered significant if the generated CO emission levels exceed the state or federal AAQS, which would expose receptors to substantial pollutant concentrations. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to AAQS is typically demonstrated through an analysis of localized concentrations. Vehicle congestion has the potential to create elevated concentrations of CO called "hot spots." Localized CO concentrations hot spots are caused by vehicular emissions, primarily when idling at congested intersections. Due to the implementation of strict vehicle emissions standards over the last 20 years, the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentrations have steadily declined. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams per mile for passenger cars. A CO "hot spot" would occur if an exceedance of the state one-hour standard of 20 ppm or the 8-hour standard of 9 ppm were to occur. A CO hot spot analysis was conducted in 2003 for four high volume intersections in the City of Los Angeles in the peak-hour periods to establish a better threshold for the volume of vehicles necessary to generate a violation of CO standards to better reflect the effect of the increasing proportion of cleaner burning vehicles. The hot spot analysis for the 2003 analysis did not predict any violation of CO standards. The busiest intersection (Wilshire Boulevard/Veteran Avenue) had a daily traffic volume of 100,000 vehicles today and the estimated one-hour concentration was 4.6 ppm. The 20 ppm standard would not have been exceeded until the intersection exceeded more than 400,000 vehicles per day.<sup>1</sup>

The Bay Area Air Quality Management District has also looked at the effect of cleaner burning vehicles and concluded that under existing and future vehicle emissions rates, a given project would have to increase traffic volumes at a single intersection by 24,000 vehicles per hour where vertical and/or horizontal air does not mix (worst case condition) to generate a significant CO impact.<sup>2</sup> Based on these factors, that the Project's peak-hour trips would be less than 50, and that the future baseline peak-hour intersection volumes are anticipated to be 3,500, there is no potential for the Project to generate CO concentrations higher than the state and federal standards. As a result, sensitive receptors in the area would not be substantially affected by CO concentrations generated by operation of the Project. Therefore, a less-than-significant impact related to CO hot spots will occur.

**Toxic Air Contaminants.** The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. The proposed Project site is not located within 500 feet of a freeway or major roadway, near any rail yards, stationary diesel engines, or facilities attracting heavy and constant diesel vehicle traffic such as warehouse distribution centers. The surrounding Project area consists primarily of vacant land and residences. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure. Health-related risks associated with DPM in particular are primarily associated with long-term exposure and associated risk of contracting cancer. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution.

Operational-related emissions of TACs are typically associated with stationary diesel engines or land uses that involve heavy truck traffic or idling. The Project is not anticipated to draw people with existing health problems that could be considered vulnerable to effects of air pollution. In addition, any potential visitors that would be considered sensitive users at the Fire Station would only be on-site for short durations so the long-term exposure levels would be low. The Project does not involve long-term operation of any stationary diesel engine or other major on-site stationary source of TACs. The CARB Air Quality and Land Use Handbook: A Community Health Perspective Handbook includes facilities with associated diesel truck trips of more than 100 trucks per day as a source of substantial TAC emissions.

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<sup>1</sup>South Coast Air Quality Management District, *Carbon Monoxide Redesignation Request and Maintenance Plan*, Hot Spot Analysis, February 2005.

<sup>2</sup>Bay Area Air Quality Management District, *CEQA Air Quality Guidelines*, Section 3.3 Carbon Monoxide Screening Criteria, May 2011.

The Project is not anticipated to receive frequent truck deliveries and would not involve a substantial source of TAC emissions. Therefore, the operation of the Project would not expose any existing sensitive receptors to any new permanent or substantial TAC emissions.

During construction, diesel particulate emissions associated with heavy-duty equipment operations would occur. According to SCAQMD methodology, health effects from carcinogenic air toxics are usually described in terms of individual cancer risk. "Individual Cancer Risk" is the likelihood that a person continuously exposed to concentrations of TACs over a 70-year lifetime will contract cancer based on the use of standard risk assessment methodology. Based on the construction schedule, limited amount of imported/exported material and equipment mix as described in Appendix A CalEEMod assumptions, construction of the Project is not anticipated to result in more than 20 truck trips per day and would not be a substantial source of TAC emissions. Given the short-term construction schedule of approximately 9 months, the proposed Project would not result in a long-term (i.e., 70 years) source of TACs. No significant emissions and corresponding individual cancer risk are anticipated after construction. Because of the short-term exposure period during construction and low level of truck activity during construction and operation of the expansion of Fire Station #77, a less-than-significant impact related to TACs will occur.

**Odors.** The proposed Project would not emit objectionable odors that would affect a substantial number of people. The threshold for odor is if a Project creates an odor nuisance pursuant to SCAQMD Rule 402, Nuisance, which states:

*A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.*

The type of facilities that are considered to have objectionable odors include wastewater treatments plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities. The proposed Project would be consistent and compatible with existing land uses surrounding the Project site. Fire Stations, such as that of the proposed Project, do not generate substantial odors. The proposed Project will not introduce a new stationary source of air pollution into the proposed Project vicinity that may cause objectionable odors. Odorous emissions anticipated from the Project are primarily from mobile sources (vehicles) coming to and from the Project site, which are existing and common sources of emissions in the area. No increase in the intensity of odors from vehicle emissions would result as there would not be an increase in vehicle trips. Therefore, no significant impact related to the creation of objectionable odors will occur. During construction activities, construction equipment exhaust would temporarily generate odors. Any construction-related odor emissions would be temporary, intermittent in nature, and would not constitute a public nuisance. Therefore, no significant impacts related to objectionable odors during construction will occur.

**Cumulative.** The SCAQMD approach for assessing cumulative impacts is based on whether the proposed Project would, by itself, result in a significant impact. More specifically, if construction or operation of the proposed project would not exceed the SCAQMD's thresholds, those emissions are not expected to be cumulatively considerable. Emissions may increase for certain air pollutants due to nearby past, present and/or foreseeable projects (either overlapping construction periods or on-going operation) that are expected to exceed the SCAQMD mass daily emission thresholds. Per CEQA Guidelines Section 15064(h)(4), the mere existence of significant cumulative impacts caused by other projects alone shall not constitute substantial evidence that the proposed project's incremental effects are cumulatively considerable. Based on SCAQMD methodology for cumulatively impacts and the fact that both construction and operational air emissions would not exceed SCAQMD's thresholds, the emissions resulting from construction and operation of the proposed Project would not be cumulatively considerable. Therefore, a less-than-significant impact related to cumulative air quality emissions will occur.

**Greenhouse Gas Emissions.** GHGs are typically evaluated on an annual basis using the metric system. To address the State’s requirement to reduce GHG emissions, the County prepared the 2015 Climate Action Plan (CAP) with the target of reducing GHG emissions within the unincorporated County by 15 percent below 2008 levels by the year 2020. The County’s target is consistent with the AB 32 target and ensures that the County is providing GHG reductions locally that will complement the State and international efforts of stabilizing climate change. The County determined the size of development that is too small to be able to provide the level of GHG emission reductions expected from the Screening Tables or alternate emission analysis method. To do this the County determined the GHG emission amount allowed by a project such that 90 percent of the emissions on average from all projects would exceed that level and be “captured” by the Screening Table or alternate emission analysis method. The 3,000 MT CO<sub>2</sub>e per year value is the low end value within that range rounded to the nearest hundred tons of emissions and is used in defining small projects that are considered less than significant and do not need to use the Screening Tables or alternative GHG mitigation analysis used in the County CAP.

In accordance with the State CEQA Guidelines, GHG emissions were calculated for construction and operation of the proposed Project and will be assessed against the conservative threshold of 3,000 MTCO<sub>2</sub>E/yr. GHG emissions resulting from Project construction and operation were calculated using the CalEEMod model, and include emissions resulting from on-road and off-road diesel fuel consumption as well as worker commutes, vehicle travel, energy consumption, water consumption, and waste generation. The quantification of the project’s GHG inventory also evaluates construction emissions by amortizing them over an expected project life of 30 years. GHG emissions were estimated for construction and operational activity. Construction activity would generate 98 metric tons of GHG emissions over a 9-month period. The Project’s construction GHG emissions were spread even over 30 years to yield an average of 3.3 MTCO<sub>2</sub>E/yr.

CalEEMod estimates the GHG emissions associated with area sources which include landscape equipment emissions, architectural coating, consumer products, and hearths. Hearth emissions do not apply to the Project because no dwelling units are proposed. The CalEEMod output contained in the attached output shows that the GHG emissions from area sources are negligible and are reported at zero for architectural coatings, consumer products and for landscaping. CalEEMod estimates the GHG emissions associated with building electricity and natural gas usage (non-hearth) for each land use type. CalEEMod also estimates the annual GHG emissions from Project-related vehicle usage based on trip generation data, with the disposal of solid waste, and the indirect energy used in water supply, treatment, and distribution, as well as wastewater treatment. The following table summarizes the GHG emissions estimates reported by CalEEMod for the Project. As shown in **Table GHG-1**, the Project would annually generate 69 MTCO<sub>2</sub>E of GHG emissions. The total GHG emissions from the Project are below the County CAP screening level of 3,000 MTCO<sub>2</sub>E/yr for commercial projects. Therefore, a less-than-significant impact related to GHG emissions will occur.

**TABLE GHG-1: SUMMARY OF GREENHOUSE GAS EMISSIONS**

Source	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	Total CO <sub>2</sub> E
	Metric Tons per Year			
Amortized Construction	3	<1	<1	3
Area	<1	<1	<1	<1
Energy	12	<1	<1	12
Mobile	47	<1	<1	47
Solid Waste	2	<1	<1	2
Water	5	<1	<1	5
Total	69	<1	<1	69
County of Riverside CAP Threshold				3,000
Significant Impact?				No

Source: CalEEMod 2016.3.1.

**Consistency with GHG Plans and Policies.** The County of Riverside has adopted policies and programs in its General Plan to promote the use of clean and renewable energy sources, facilitate alternative modes of transportation, and for the sustainable use of energy.

The County CAP, described above, was adopted by the Board on December 8, 2015. In particular, the CAP elaborates on the County General Plan goals and policies relative to GHG emissions and provides a specific implementation tool to guide future decisions of the County. The 2015 CAP is used as the baseline for the evaluation of consistency with applicable GHG plans, policies, or regulations. The Project will not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases. The County CAP identifies three main goals which are to: provide a list of specific actions that will reduce GHG emissions, giving the highest priority to actions that provide the greatest reduction in GHG emissions and benefits to the community at the least cost; reduce emissions attributable to the County to levels consistent with the target reductions of AB 32; and establish a qualified reduction plan for which future development within the County can tier and thereby streamline the environmental analysis necessary under CEQA. Because GHG emissions are only important in the context of cumulative emissions, the focus of the analysis is on answering the question of whether incremental contributions of GHGs are a cumulatively considerable contribution to climate change impacts.

The County CAP has incorporated the measures identified in the CARB Scoping Plan as a means for reducing GHG emissions. **Table GHG-2** summarizes the CARB Scoping Plan Policies for reducing GHG emissions. As shown in **Table GHG-2**, the Project is consistent with CARB's Scoping Plan measures. Therefore, a less-than-significant impact related to consistency with plans, policies, or regulations for reducing GHG emissions will occur.

**TABLE GHG-2: CARB SCOPING PLAN**


Scoping Plan Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
<b>Energy Efficiency:</b> Maximize energy efficiency building and appliance standards; pursue additional efficiency including new technologies, policies, and implementation mechanisms. Pursue comparable investment in energy efficiency from all retail providers of electricity in California.	<b>Consistent.</b> The Project will be designed and constructed using sustainable building practices, and will comply with the County's Sustainable Building Policy (H-29). The Project will be compliant with all current Title 24 standards.
<b>Green Building Strategy:</b> Expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings.	<b>Consistent.</b> The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards that became mandatory in the 2010 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The Project will be subject to these mandatory standards. The Project will also incorporate LEED energy efficiency building measures.
<b>Recycling and Waste:</b> Reduce methane emissions at landfills. Increase waste diversion, composting, and commercial recycling. Move toward zero-waste.	<b>Consistent.</b> A regulation to reduce methane emissions from municipal solid waste landfills is currently being developed by the state. The Riverside Countywide Integrated Waste Management Plan (CIWMP) outlines the goals, policies, and programs the County and its cities will implement to create an integrated and effective waste management system that complies with the diversion mandates in AB 939. The Project will be required to participate with County programs for recycling and waste reduction which comply with the 50 percent reduction requirement of AB 939.
<b>Water:</b> Continue efficiency programs and use cleaner energy sources to move and treat water.	<b>Consistent.</b> The Project will comply with all applicable County ordinances, including the County's Low Impact Development (LID) standards.

Source: CARB Scoping Plan.

**2014 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

# 2014

Source/Receptor Area No. Location	Station No.	Carbon Monoxide (a)				Ozone (b)										Nitrogen Dioxide (c)				Sulfur Dioxide (d)		
		No. Days of Data	Max Conc. in ppm 1-hour	Max Conc. in ppm 8-hour	No. Days of Data	Max Conc. in ppm 8-hour	Fourth High Conc. ppm 8-hour	Old Federal ppm 1-hour	Current Federal ppm 8-hour	2008 Federal ppm 8-hour	1997 Federal ppm 8-hour	Current State ppm 1-hour	Current State ppm 8-hour	Current State > 0.070 ppm 1-hour	Current State > 0.084 ppm 8-hour	No. Days of Data	Max Conc. in ppb 1-hour	98th Percentile Conc. ppb 1-hour	Annual Average AAAM Conc. ppb	No. Days of Data	Max Conc. in ppb 1-hour	99th Percentile Conc. in ppb 1-hour
<b>LOS ANGELES COUNTY</b>																						
1 Central LA	087	365	3	2.0	0.113	0.094	0.072	0	6	2	1	3	7	365	82.1	67.4	22.2	364	5.4	4.4		
2 Northwest Coastal LA County	091	365	2	1.3	0.116	0.094	0.077	0	5	4	2	1	6	337	63.9	53.9	13.3	365	15.3	9.1		
3 Southwest Coastal LA County	820	365	3	1.9	0.114	0.080	0.075	0	6	3	0	1	6	365	87.3	66.4	11.9	365	15.3	9.1		
4 South Coastal LA County 1	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4 South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
4 South Coastal LA County 3	033	345	4	2.6	0.087	0.072	0.061	0	1	0	0	0	3	340	135.9	84.8	20.7	288*	14.7*	10.1*		
6 West San Fernando Valley	074	365	4	3.0	0.116	0.092	0.083	0	27	11	2	6	31	327	58.9	52.4	11.7	365	15.3	9.1		
7 East San Fernando Valley	069	158*	3*	3.0*	0.091*	0.079*	0.069*	0*	2*	1*	0*	0*	2*	150*	73.2*	65.2*	21.8*	154*	4.5*	3.9*		
8 West San Gabriel Valley	088	348	3	1.8	0.123	0.096	0.086	0	13	4	3	11	20	347	75.2	60.1	16.6	365	15.3	9.1		
9 East San Gabriel Valley 1	060	365	2	1.9	0.123	0.092	0.081	0	18	11	4	11	20	361	70.2	60.6	17.8	365	15.3	9.1		
9 East San Gabriel Valley 2	591	365	1	0.7	0.133	0.101	0.096	5	58	38	14	41	60	352	65.7	51.1	13.1	365	15.3	9.1		
10 Pomona/Walnut Valley	075	365	2	1.6	0.123	0.099	0.090	0	53	33	9	22	56	365	88.9	63.8	22.1	365	15.3	9.1		
11 South San Gabriel Valley	085	364	4	2.5	0.121	0.092	0.079	0	7	5	1	7	7	365	86.7	61.9	19.5	365	15.3	9.1		
12 South Central LA County	112	356	6	3.8	0.094	0.081	0.073	0	4	2	0	0	4	350	68.2	59.2	15.6	365	15.3	9.1		
13 Santa Clarita Valley	090	361	3	1.2	0.137	0.110	0.097	2	64	45	16	32	65	360	57.7	46.1	12.7	365	15.3	9.1		
<b>ORANGE COUNTY</b>																						
16 North Orange County	3177	363	4	2.1	0.119	0.088	0.075	0	6	2	2	5	6	361	83.6	56.6	15.2	365	15.3	9.1		
17 Central Orange County	3176	365	3	2.1	0.111	0.081	0.076	0	6	4	0	2	6	338	75.8	59.8	15.2	365	15.3	9.1		
18 North Coastal Orange County	3195	365	3	1.9	0.096	0.079	0.076	0	6	4	0	1	6	365	60.6	53.7	10.8	357	8.8	3.7		
19 Saddleback Valley	3812	365	1	0.7	0.115	0.088	0.078	0	10	5	2	4	10	365	60.6	53.7	10.8	357	8.8	3.7		
<b>RIVERSIDE COUNTY</b>																						
22 Corona/Norco Area	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
23 Metropolitan Riverside County 1	4144	365	2	1.9	0.141	0.104	0.091	1	66	41	12	29	69	362	59.9	53.2	15.1	365	5.6	3.5		
23 Metropolitan Riverside County 2	4146	363	2	1.4	--	--	--	--	--	--	--	--	--	361	56.3	50.2	15.8	365	15.3	9.1		
23 Metropolitan Riverside County 3	4165	364	2	2.4	0.138	0.102	0.087	1	52	29	6	17	55	364	57.7	49.2	13.7	365	15.3	9.1		
24 Perris Valley	4149	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
25 Elsinore Valley	4158	355	2	1.4	0.117	0.094	0.089	0	59	38	7	16	63	334	45.3	39.6	8.2	365	15.3	9.1		
26 Temecula Valley	4031	--	--	--	--	--	--	--	--	--	--	--	--	345	0.119	0.100	0.077	365	15.3	9.1		
29 San Geronimo Pass	4164	--	--	--	--	--	--	--	--	--	--	--	--	362	0.114	0.097	0.094	365	15.3	9.1		
30 Coachella Valley 1**	4137	365	2	0.9	0.108	0.093	0.089	0	55	35	7	9	61	341	46.3	41.2	7.1	365	15.3	9.1		
30 Coachella Valley 2**	4157	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>SAN BERNARDINO COUNTY</b>																						
32 Northwest San Bernardino Valley	5175	361	3	1.2	0.126	0.101	0.093	1	57	42	15	34	60	357	74.1	56.7	16.6	365	15.3	9.1		
33 Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
34 Central San Bernardino Valley 1	5197	331	3	1.2	0.127	0.105	0.093	1	52	37	14	31	52	330	70.4	63.6	20.2	330	4.0	2.8		
34 Central San Bernardino Valley 2	5203	360	4	2.4	0.121	0.099	0.095	0	75	51	21	38	76	365	72.6	56.1	18.0	365	15.3	9.1		
35 East San Bernardino Valley	5204	--	--	--	--	--	--	--	--	--	--	--	--	365	0.128	0.104	0.099	365	15.3	9.1		
37 Central San Bernardino Mountains	5181	--	--	--	--	--	--	--	--	--	--	--	--	365	0.130	0.106	0.102	365	15.3	9.1		
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
<b>DISTRICT MAXIMUM</b>																						
<b>SOUTH COAST AIR BASIN</b>																						
* Incomplete data.																						
** Salton Sea Air Basin																						
ppm - Parts Per Million parts of air, by volume																						
ppb - Parts Per Billion parts of air, by volume																						
a) The federal 8-hour standard (8-hour average CO > 9.0 ppm) and state 8-hour standard (8-hour average CO > 9.0 ppm) were not exceeded.																						
The federal and state 1-hour CO standards (35 ppm and 20 ppm) were not exceeded.																						
b) The current (2015) O <sub>3</sub> federal standard was revised effective December 28, 2015.																						
c) The NO <sub>2</sub> federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO <sub>2</sub> > 0.0534 ppm (53.4 ppb). The state 1-hour and annual standards are 0.18 ppm (180 ppb) and 0.030 ppm (30 ppb).																						
d) The federal SO <sub>2</sub> 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO <sub>2</sub> > 0.25 ppm (250 ppb) and 24-hour average SO <sub>2</sub> > 0.04 ppm (40 ppb).																						
For information on the current standard levels and most recent revisions please refer to "Appendix II - Current Air Quality" of the "Final 2012 AQMP" which can be accessed at <a href="http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-february-2013-appendix-ii-final-2012.pdf">http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2012-air-quality-management-plan/final-2012-aqmp-february-2013-appendix-ii-final-2012.pdf</a> . Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD Current Hourly Air Quality Map at <a href="http://www.w2.aqmd.gov/webapp/gis/qi2/VEMMap3D.aspx">http://www.w2.aqmd.gov/webapp/gis/qi2/VEMMap3D.aspx</a> . A printed map or copy of the AQMP Appendix II is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.																						



**South Coast Air Quality Management District**  
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**2014 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

**2014**

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 <sup>e)</sup>				Fine Particulates PM2.5 <sup>g)</sup>				Lead <sup>i)</sup>		PM10 Sulfate <sup>j)</sup>	
		No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Standards Federal > 150 µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	98 <sup>th</sup> Percentile Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal Std > 35 µg/m <sup>3</sup> 24-hour	Annual Average Conc. (AAM) µg/m <sup>3</sup>	Max. Monthly Average Conc. µg/m <sup>3</sup>	Max. 3-Months Rolling Averages µg/m <sup>3</sup>	No. Days of Data
<b>LOS ANGELES COUNTY</b>													
1 Central LA	087	359	87	0	32(9%)	35.4	34.5	6(1.8%)	12.36	0.013	0.01	57	11.0
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	--
3 Southwest Coastal LA County	820	60	46	0	0	22.0	--	--	--	0.008	0.01	60	5.1
4 South Coastal LA County 1	072	--	--	--	--	--	31.3	2(0.6%)	11.42	--	--	--	--
4 South Coastal LA County 2	077	59	59	0	2(3%)	26.6	27.2	2(0.6%)	10.72	0.012	0.01	59	4.5
4 South Coastal LA County 3	033	--	--	--	--	--	--	--	--	--	--	--	--
6 West San Fernando Valley	074	--	--	--	--	--	20.9	0	9.72	--	--	--	--
7 East San Fernando Valley	069	164*	68*	0*	2(1%)*	31.2*	29.0*	2(1.1%)*	12.08*	--	--	29*	4.0*
8 West San Gabriel Valley	088	--	--	--	--	--	26.3	1(0.9%)	11.29	--	--	--	--
9 East San Gabriel Valley 1	060	60	96	0	22(37%)	44.1	29.9	0	11.63	--	--	59	14.3
9 East San Gabriel Valley 2	591	360	78	0	30(8%)	32.9	--	--	--	--	--	--	--
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--
11 South San Gabriel Valley	085	--	--	--	--	--	30.1	0	12.08	0.017	0.01	--	--
12 South Central LA County	112	--	--	--	--	--	30.9	1(0.9%)	12.64	0.013	0.01	--	--
13 Santa Clarita Valley	090	59	47	0	0	23.2	--	--	--	--	--	58	4.3
<b>ORANGE COUNTY</b>													
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--
17 Central Orange County	3176	364	122	0	12(3%)	26.3	34.4	6(1.7%)	10.53	--	--	61	9.4
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley	3812	60	41	0	0	20.2	21.6	0	8.02	--	--	60	4.0
<b>RIVERSIDE COUNTY</b>													
22 Corona/Corona Area	4155	59	65	0	3(5%)	30.9	34.3	5(1.4%)	12.48	0.011	0.01	59	3.8
23 Metropolitan Riverside County 1	4144	361	100	0	10(28%)	42.0	30.9	0	10.94	0.010	0.01	117	4.1
23 Metropolitan Riverside County 2	4146	365	91	0	27(7%)	33.6	26.0	0	10.94	--	--	61	4.2
23 Metropolitan Riverside County 3	4165	359	145	0	207(58%)	54.9	73.6	40.0	14.48	--	--	60	3.5
24 Perris Valley	4149	60	87	0	8(13%)	35.1	--	--	--	--	--	--	--
25 Elsinore Valley	4158	355	86	0	10(3%)	25.0	--	--	--	--	--	--	--
26 Temecula Valley	4031	--	--	--	--	--	--	--	--	--	--	--	--
29 San Geronimo Pass	4164	58	45	0	0	20.7	--	--	--	--	--	58	2.7
30 Coachella Valley 1**	4137	356	113	0	10(3%)	22.6	14.5	0	6.42	--	--	54	2.6
30 Coachella Valley 2**	4157	359+	152+	0+	64(18%)+	40.2+	16.8	0	8.32	--	--	121	3.2
<b>SAN BERNARDINO COUNTY</b>													
32 Northwest San Bernardino Valley	5175	356	80	0	9(3%)	28.9	--	--	--	0.009	0.01	--	--
33 Southwest San Bernardino Valley	5817	30*	67*	0*	4(13%)*	33.2*	34.6*	1(1.7%)*	12.96*	--	--	30*	3.9*
34 Central San Bernardino Valley 1	5197	58	68	0	13(22%)	39.7	34.5	1(0.9%)	13.18	--	--	58	5.0
34 Central San Bernardino Valley 2	5203	362	140	0	18(5%)	34.2	28.1	1(0.9%)	11.67	0.012	0.01	60	4.6
35 East San Bernardino Valley	5204	60	62	0	2(3%)	25.9	--	--	--	--	--	59	3.4
37 Central San Bernardino Mountains	5181	61	47	0	0	18.5	--	--	--	--	--	60	2.9
38 East San Bernardino Mountains	5818	--	--	--	--	--	19.1	0	7.03	--	--	--	--
<b>DISTRICT MAXIMUM</b>													
		152+	145	0	207+	54.9	40.0	9	14.48	0.017++	0.01++	--	14.3
		145	145	0	233	54.9	40.0	15	14.48	0.017++	0.01++	--	14.3

\* Incomplete data.  
 \*\* Salton Sea Air Basin  
 e) Federal Reference Method (FRM) PM10 samples were collected every 6 days at all sites except for Stations 4144 and 4157, where samples were collected every 3 days. Federal Equivalent Method (FEM) PM10 continuous monitoring instruments were operated at some of the above locations. PM10 statistics listed above are based on FRM-FEM combined data.  
 f) State standard is annual average (AAM) > 20 µg/m<sup>3</sup>. Federal annual PM10 standard (AAM > 50 µg/m<sup>3</sup>) was revoked in 2006.  
 + High FRM and FEM PM10 data sample were excluded due to high winds in accordance with the U.S. EPA Exceptional Event Rule.  
 g) PM2.5 samples were collected every 3 days at all sites except for station numbers 072, 077, 087, 3176, 4144 and 4165, where samples were taken daily, and station number 5818 where samples were taken every 6 days. PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations for real-time alerts and forecasts.  
 h) Both Federal and State standards are annual average (AAM) > 12.0 µg/m<sup>3</sup>.  
 i) Federal lead standard is 3-months rolling average > 0.15 µg/m<sup>3</sup>; state standard is monthly average ≥ 1.5 µg/m<sup>3</sup>. Lead standards were not exceeded.  
 j) State sulfate standard is 24-hour ≥ 25 µg/m<sup>3</sup>. There is no federal standard for sulfate.  
 ++ Higher lead concentrations were recorded at source-oriented monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.10 µg/m<sup>3</sup> and 0.07 µg/m<sup>3</sup>, respectively.



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2015 AIR QUALITY


SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Source/Receptor Area No. Location	Carbon Monoxide a)				Ozone b)						Nitrogen Dioxide c)				Sulfur Dioxide d)					
	Station No.	Max Conc. in ppm 1-hour	Max Conc. in ppm 8-hour	No. Days of Data	Max Conc. in ppm 1-hour	Fourth High Conc. in ppm 8-hour	Number of Days Standard Exceeded		Current State ppm 1-hour	Current State ppm 8-hour	1997 Federal ppm 8-hour	2008 Federal ppm 8-hour	Current State ppm 1-hour	Current State ppm 8-hour	Max Conc. in ppb 1-hour	98th Percentile Conc. in ppb 1-hour	Annual Average Conc. in ppb	No. Days of Data	Max Conc. in ppb 1-hour	99th Percentile Conc. in ppb 1-hour
							Old Federal ppm 1-hour	Current Federal ppm 8-hour												
LOS ANGELES COUNTY																				
1 Central LA	087	3.2	1.8	365	0.104	0.074	0	0	0	0	0	0	2	6	79.1	62.4	22.2	296*	12.6	6.3
2 Northwest Coastal LA County	091	1.6	1.4	353	0.102	0.072	0	0	0	0	0	0	2	3	67.6	49.4	11.7	358	14.9	6.8
3 Southwest Coastal LA County	820	1.7	1.4	365	0.096	0.077	0	0	0	0	0	0	1	3	87.0	58.1	10.9	358	14.9	6.8
4 South Coastal LA County 1	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4 South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4 South Coastal LA County 3	033	3.3	2.2	350	0.087	0.066	0	0	0	0	0	0	0	0	101.8	64.4	19.8	296*	37.5	11.8
4 I-710 Near Road#	032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6 West San Fernando Valley	074	3.0	2.5	365	0.119	0.094	0	32	15	4	11	34	11	34	94.7	74.8	23.9	255*	--	--
8 West San Gabriel Valley	088	2.6	1.6	361	0.111	0.084	0	18	7	0	12	18	12	18	72.5	51.7	13.5	347	--	--
9 East San Gabriel Valley 1	060	3.2	2.1	352	0.122	0.096	0	27	17	7	21	28	21	28	74.9	55.9	15.3	358	--	--
9 East San Gabriel Valley 2	591	3.63	1.2	362	0.127	0.088	2	48	34	11	37	51	37	51	66.2	52.6	11.2	344	--	--
10 Pomona/Walnut Valley	075	1.8	1.6	347	0.136	0.098	2	53	36	14	30	55	30	55	72.3	60.3	21.2	340	--	--
11 South San Gabriel Valley	085	2.8	1.7	346	0.107	0.081	0	11	2	0	6	11	6	11	339	70.4	61.6	359	--	--
12 South Central LA County	112	3.63	4.4	351	0.091	0.072	0	1	0	0	0	1	0	1	73.6	58.7	16.9	356	--	--
13 Santa Clarita Valley	090	1.2	0.9	358	0.126	0.108	1	52	37	15	23	55	23	55	64.6	43.5	11.8	353	--	--
ORANGE COUNTY																				
16 North Orange County	3177	3.0	1.6	365	0.103	0.082	0	7	2	0	4	8	4	8	58.0	50.8	15.0	328	--	--
17 Central Orange County	3176	3.1	2.2	365	0.100	0.080	0	1	1	0	1	1	1	1	59.1	54.6	14.6	358	--	--
17 I-5 Near Road#	3131	3.1	2.3	365	--	--	--	--	--	--	--	--	--	--	70.2	61.4	25.4	364	--	--
18 North Coastal Orange County	3195	3.0	2.2	364	0.099	0.079	0	2	1	0	1	2	1	2	52.4	47.9	11.6	350	--	--
19 Saddleback Valley	3812	1.4	0.7	358	0.099	0.088	0	8	3	2	2	2	2	2	--	--	--	352	4.5	3.1
RIVERSIDE COUNTY																				
22 Corona/Norco Area	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	2.5	1.7	361	0.132	0.105	1	55	39	17	17	31	31	59	57.4	52.3	14.4	354	1.9	1.6
23 Metropolitan Riverside County 3	4165	2.3	1.6	356	0.127	0.104	1	51	36	20	29	51	29	51	68.1	49.2	13.4	355	--	--
24 Perris Valley	4149	--	--	365	0.124	0.102	0	49	31	12	12	25	25	50	--	--	--	--	--	--
25 Elsinore Valley	4158	0.8	0.6	362	0.131	0.098	1	31	19	12	12	18	18	35	47.2	38.8	8.7	350	--	--
26 Temecula Valley	4031	--	--	365	0.100	0.087	0	20	1	1	23	1	23	--	--	--	--	--	--	--
29 San Geronimo Pass	4164	--	--	359	0.124	0.097	0	46	25	11	16	49	16	49	49.6	44.3	8.4	358	--	--
30 Coachella Valley 1**	4137	2.0	0.7	365	0.102	0.092	0	47	26	5	3	51	3	51	41.5	37.7	6.2	358	--	--
30 Coachella Valley 2**	4157	--	--	287*	0.093	0.085	0	11	4	1	0	12	0	12	--	--	--	--	--	--
30 Coachella Valley 3**	4032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SAN BERNARDINO COUNTY																				
32 Northwest San Bernardino Valley	5175	2.1	1.3	364	0.136	0.106	0	66	53	27	49	69	49	69	71.6	55.7	15.9	352	--	--
33 I-10 Near Road#	5035	2.7	2.6	365	--	--	--	--	--	--	--	--	--	--	87.2	73.0	29.9	360	--	--
33 CA-60 Near Road#	5036	--	--	--	--	--	--	--	--	--	--	--	--	--	79.2	77.2	35.6	153*	--	--
34 Central San Bernardino Valley 1	5197	2.8	1.2	358	0.133	0.111	0	37	39	20	36	59	36	59	89.1	66.1	18.7	351	--	--
34 Central San Bernardino Valley 2	5203	2.3	1.8	356	0.134	0.117	0	78	57	29	52	79	52	79	71.4	52.7	15.2	355	4.0	3.1
35 East San Bernardino Valley	5204	--	--	329	0.137	0.115	0	76	54	30	44	77	44	77	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	--	--	365	0.144	0.127	0	86	61	30	46	86	46	86	--	--	--	--	--	--
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DISTRICT MAXIMUM																				
SOUTH COAST AIR BASIN		4.4	3.3	0.144	0.127	0.107	6	86	61	30	52	86	52	86	101.8	77.2	35.6	37.5	11.8	11.8
SOUTH COAST AIR BASIN		4.4	3.3	0.144	0.127	0.107	10	113	81	47	71	113	71	113	101.8	77.2	35.6	37.5	11.8	11.8

\* Incomplete data. \*\* Salton Sea Air Basin -- Pollutant not monitored. AAM - Annual Arithmetic Mean

ppm - Parts Per Million parts of air, by volume  
 ppb - Parts Per Billion parts of air, by volume  
 a) The federal and state 8-hour CO standards (9 ppm and 9.0 ppm) and 1-hour CO standards (35 ppm and 20 ppm) were not exceeded.  
 b) The current (2015) O<sub>3</sub> federal standard was revised effective December 28, 2015.  
 c) The NO<sub>2</sub> federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO<sub>2</sub> > 0.0534 ppm (53.4 ppb). The state 1-hour and annual standards are 0.18 ppm and 0.030 ppm.  
 d) The SO<sub>2</sub> federal 1-hour standard is 75 ppb and the annual standard is 1-hour average SO<sub>2</sub> > 0.25 ppm (250 ppb) and 24-hour average SO<sub>2</sub> > 0.04 ppm (40 ppb).  
 # Four near-road sites measuring one or more of the pollutants PM<sub>2.5</sub>, CO and/or NO<sub>2</sub> are operating near the following freeways: I-5, I-10, CA-60 and I-710.

For information on the current standard levels and most recent revisions please refer to "Appendix II - Current Air Quality" of the "2016 AQMP" which can be accessed at <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/appendix-ii.pdf?sfvrsn=4>. Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD Current Hourly Air Quality Map at <http://www2.aqmd.gov/webapp/gisapp2/VEMap3D.aspx>. A printed map or copy of the AQMP Appendix II is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.



**South Coast**  
**Air Quality Management District**  
 21865 Copley Drive  
 Diamond Bar, CA 91765-4182  
[www.aqmd.gov](http://www.aqmd.gov)

# 2015 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

# 2015

Station No.	Source/Receptor Area Location	Suspended Particulates PM10 <sup>e)</sup>				Fine Particulates PM2.5 <sup>g)</sup>				Lead <sup>h)</sup>		PM10 Sulfate <sup>d)</sup>	
		No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Standards Federal > 150 µg/m <sup>3</sup> 24-hour	Annual Average Conc. f) (AAM) µg/m <sup>3</sup>	No. Days of Data	Max. Conc. in µg/m <sup>3</sup> 24-hour	98 <sup>th</sup> Percentile Conc. in µg/m <sup>3</sup> 24-hour	No. (%) Samples Exceeding Federal Std > 35 µg/m <sup>3</sup> 24-hour	Annual Average Conc. b) (AAM) µg/m <sup>3</sup>	Max. Monthly Average Conc. µg/m <sup>3</sup>	Max. 3-Months Rolling Averages µg/m <sup>3</sup>	No. Days of Data
<b>LOS ANGELES COUNTY</b>													
1	Central LA	336	88	0	33.0	342	56.4	38.0	12.38	0.013	0.01	58	6.1
2	Northwest Coastal LA County	091	--	0	--	--	--	--	--	--	--	--	--
3	Southwest Coastal LA County	820	42	0	21.2	--	--	--	--	0.008	0.01	57	6.5
4	South Coastal LA County 1	072	--	0	--	338	54.6	32.1	10.81	--	--	--	--
4	South Coastal LA County 2	077	58	0	26.5	347	48.3	31.2	10.26	0.010	0.01	58	6.3
4	South Coastal LA County 3	033	59	0	31.5	--	--	--	--	--	--	59	6.9
4	I-710 Near Road <sup>#</sup>	032	--	0	--	336*	48.8	35.7	12.89	--	--	--	--
6	West San Fernando Valley	074	--	0	--	113	36.8	28.4	8.84	--	--	--	--
8	West San Gabriel Valley	088	--	0	--	118*	48.5*	29.7*	9.57*	--	--	--	--
9	East San Gabriel Valley 1	060	59	0	37.1	119*	44.3*	28.0*	9.40*	--	--	59	21.0
9	East San Gabriel Valley 2	591	362	0	29.0	--	--	--	--	--	--	--	--
10	Pomona/Walnut Valley	075	--	0	--	--	--	--	--	--	--	--	--
11	South San Gabriel Valley	085	--	0	--	117*	52.7*	27.6*	11.14*	0.014	0.01	--	--
12	South Central LA County	112	--	0	--	111	41.3	37.2	11.78	0.014	0.01	--	--
13	Santa Clarita Valley	090	52	0	18.4	--	--	--	--	--	--	52	5.3
<b>ORANGE COUNTY</b>													
16	North Orange County	3177	--	0	--	--	--	--	--	--	--	--	--
17	Central Orange County	3176	66	0	24.8	295*	45.8	29.8	9.38	--	--	56	4.2
17	I-5 Near Road <sup>#</sup>	3131	--	0	--	--	--	--	--	--	--	56	4.2
18	North Coastal Orange County	3195	--	0	--	--	--	--	--	--	--	--	--
19	Saddleback Valley	3812	51*	0	19.0	115	31.5	15.1	7.05	--	--	51	3.3
<b>RIVERSIDE COUNTY</b>													
22	Corona/Norco Area	4155	87	0	29.6	--	--	--	--	--	--	44*	3.8
23	Metropolitan Riverside County 1	4144	107	0	37.1	341	54.7	38.1	11.89	0.008	0.01	114	6.0
23	Metropolitan Riverside County 3	4165	131	0	48.8	343	56.6	43.2	13.34	--	--	102	4.9
24	Perris Valley	4149	74*	0*	30.3*	--	--	--	--	--	--	58	3.6
25	Elsmore Valley	4158	90	0	18.7	--	--	--	--	--	--	--	--
26	Temecula Valley	4031	--	0	--	--	--	--	--	--	--	--	--
29	San Geronimo Pass	4164	59	0	22.2	--	--	--	--	--	--	59	3.8
30	Coachella Valley 1**	4137	352*	0*	18.8*	108*	22.7	17.1	5.76	--	--	57	4.6
30	Coachella Valley 2**	4157	264**	0*	36.1*	94*	24.6	19.7	7.54	--	--	97	4.1
30	Coachella Valley 3**	4032	360*	0*	39.9*	--	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>													
32	Northwest San Bernardino Valley	5175	77	0	26.9	--	--	--	--	0.010	0.01	--	--
33	I-10 Near Road <sup>#</sup>	5035	--	0	--	--	--	--	--	--	--	--	--
33	CA-60 Near Road <sup>#</sup>	5036	--	0	--	337	52.7	39.9	14.48	--	--	--	--
34	Central San Bernardino Valley 1	5197	96	0	37.8	113*	47.3*	34.3*	10.70*	--	--	55	14.7
34	Central San Bernardino Valley 2	5203	357*	0*	30.7*	110	53.5	33.6	10.74	0.012	0.01	58	9.0
35	East San Bernardino Valley	5204	95	0	24.7	--	--	--	--	--	--	59	7.3
37	Central San Bernardino Mountains	5181	58	0	16.0	57*	39.4*	21.0*	7.03*	--	--	58	4.2
38	East San Bernardino Mountains	5818	--	0	--	--	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>													
<b>SOUTH COAST AIR BASIN</b>													
** Salton Sea Air Basin µg/m <sup>3</sup> - Micrograms per cubic meter of air ** Incomplete data due to the site improvement. e) PM10 statistics listed above are based on combined Federal Reference Method (FRM) and Federal Equivalent Method (FEM) data. f) State annual average (AAM) PM10 standard is > 20 µg/m <sup>3</sup> . Federal annual PM10 standard (AAM > 50 µg/m <sup>3</sup> ) was revoked in 2006. Statistics presented is for information only. g) PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations for real-time alerts and forecasting only. h) Both Federal and State standards are annual average (AAM) > 12.0 µg/m <sup>3</sup> . i) Federal lead standard is 3-months rolling average > 0.15 µg/m <sup>3</sup> . State standard is monthly average ≥ 1.5 µg/m <sup>3</sup> . Lead standards were not exceeded. j) State sulfate standard is 24-hour ≥ 25 µg/m <sup>3</sup> . There is no federal standard for sulfate. ++ High PM10 (≥ 155 µg/m <sup>3</sup> ) and PM2.5 data recorded due to high winds and Independence Day fireworks are excluded in accordance with the U.S. EPA Exceptional Event Rule. ++ Higher lead concentrations were recorded at near-source monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.048 µg/m <sup>3</sup> and 0.05 µg/m <sup>3</sup> , respectively. # Four near-road sites measuring one or more of the pollutants PM2.5, CO and/or NO <sub>2</sub> are operating near the following freeways: I-5, I-10, CA-60 and I-710.													

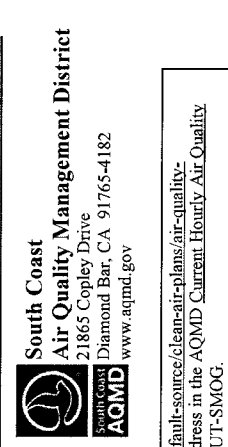


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# DRAFT 2016 SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Source/Receptor Area No. Location	Carbon Monoxide (a)				Ozone (b)						Nitrogen Dioxide (c)				Sulfur Dioxide (d)				
	Station No.	Max Conc. in ppm 1-hour	Max Conc. in ppm 8-hour	No. Days of Data	Max Conc. in ppm 1-hour	Fourth High Conc. in ppm 8-hour	Old Federal ppm 1-hour	Current Federal ppm 8-hour	Number of Days Standard Exceeded		Current State ppm 8-hour	Current State ppm > 0.070	No. Days of Data	Max Conc. in ppb 1-hour	98th Percentile Conc. in ppb 1-hour	Annual Average AAM Conc. in ppb	No. Days of Data	Max Conc. in ppb 1-hour	99th Percentile Conc. in ppb 1-hour
									1997 Federal ppm 8-hour	2008 Federal ppm 8-hour									
<b>LOS ANGELES COUNTY</b>																			
1 Central LA	087	1.9	1.4	364	0.103	0.078	0.071	0	1	0	2	4	366	64.7	61.0	20.8	366	13.4	2.5
2 Northwest Coastal LA County	091	3.66	2.2	1.1	0.085	0.073	0.066	0	0	0	0	2	366	54.5	49.3	11.6	366	9.7	5.7
3 Southwest Coastal LA County	820	3.62	1.6	1.3	0.087	0.080	0.067	0	2	1	0	3	348	81.5	54.7	10.1	363	9.7	5.7
4 South Coastal LA County 1	072	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4 South Coastal LA County 2	077	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
4 South Coastal LA County 3	033	3.63	3.3	2.2	0.079	0.059	0.055	0	0	0	0	0	366	75.6	66.3	18.5	366	17.8	12.0
4 I-710 Near Road#	032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
6 West San Fernando Valley	074	3.66	2.4	1.9	0.122	0.098	0.086	0	23	14	4	9	355	55.5	45.9	12.9	--	--	--
8 West San Gabriel Valley	088	3.66	1.5	1.1	0.126	0.090	0.082	1	18	15	3	12	366	71.9	58.4	15.4	--	--	--
9 East San Gabriel Valley 1	060	3.66	1.3	1.2	0.146	0.106	0.095	4	39	25	10	30	40	74.2	58.3	16.6	--	--	--
9 East San Gabriel Valley 2	591	3.64	1.1	1.1	0.148	0.114	0.098	6	52	31	16	38	365	65.4	45.7	11.6	--	--	--
10 Pomona/Walnut Valley	075	3.61	1.7	1.3	0.127	0.092	0.087	1	26	14	5	20	360	69.3	62.5	20.1	--	--	--
11 South San Gabriel Valley	085	3.66	2.8	1.7	0.111	0.081	0.074	0	6	2	0	9	361	63.2	60.1	20.0	--	--	--
12 South Central LA County	112	3.66	4.4	3.9	0.098	0.071	0.064	0	1	0	0	1	366	63.7	58.4	15.6	--	--	--
13 Santa Clarita Valley	090	3.66	1.3	1.1	0.130	0.115	0.100	2	57	35	15	29	361	46.4	39.4	10.2	--	--	--
<b>ORANGE COUNTY</b>																			
16 North Orange County	3177	3.66	3.1	1.5	0.103	0.078	0.075	0	6	3	0	3	359	60.4	51.5	14.7	--	--	--
17 Central Orange County	3176	3.55	2.6	2.1	0.103	0.074	0.071	0	4	0	0	2	354	64.3	56.7	14.8	--	--	--
17 I-5 Near Road#	3131	3.60	3.7	2.2	--	--	--	--	--	--	--	--	357	75.2	60.1	23.4	--	--	--
18 North Coastal Orange County	3195	3.66	2.1	1.7	0.069	0.065	0.065	0	0	0	0	0	349	59.8	51.2	10.1	366	3.3	2.1
19 Saddleback Valley	3812	3.53	1.3	0.7	0.122	0.093	0.079	0	13	6	3	5	--	--	--	--	--	--	--
<b>RIVERSIDE COUNTY</b>																			
22 Corona/Norco Area	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	3.59	1.7	1.3	0.142	0.104	0.097	1	69	47	20	33	366	73.1	52.2	14.9	366	5.6	2.0
23 Metropolitan Riverside County 3	4165	3.66	1.9	1.4	0.165	0.106	0.095	1	65	43	23	34	366	64.9	48.3	13.6	--	--	--
24 Perris Valley	4149	--	--	--	0.131	0.098	0.092	1	55	30	11	23	345*	51.3	35.6	8.1	--	--	--
25 Elsinore Valley	4158	2.98*	1.2	0.6	0.124	0.093	0.087	0	44	25	7	15	45	--	--	--	--	--	--
26 Temecula Valley	4031	--	--	--	0.092	0.081	0.077	0	19	6	0	20	348	46.9	42.6	7.9	--	--	--
29 San Geronimo Pass	4164	--	--	--	0.128	0.106	0.094	1	52	39	14	26	363	42.6	34.4	6.0	--	--	--
30 Coachella Valley 1**	4137	3.61	3.1	1.5	0.103	0.092	0.087	0	46	20	4	6	48	--	--	--	--	--	--
30 Coachella Valley 2**	4157	--	--	--	0.109	0.089	0.081	0	27	12	2	3	--	--	--	--	--	--	--
30 Coachella Valley 3**	4032	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>SAN BERNARDINO COUNTY</b>																			
32 Northwest San Bernardino Valley	5175	3.66	1.7	1.3	0.156	0.116	0.110	10	88	65	33	53	366	70.1	55.1	16.5	--	--	--
33 I-10 Near Road#	5035	3.66	1.7	1.3	--	--	--	--	--	--	--	--	362	93.4	74.3	29.3	--	--	--
33 CA-60 Near Road#	5036	--	--	--	--	--	--	--	--	--	--	--	361	89.8	71.3	31.0	--	--	--
34 Central San Bernardino Valley 1	5197	3.59	1.7	1.1	0.139	0.105	0.098	3	49	39	16	34	357	71.7	56.4	18.2	363	6.3	2.0
34 Central San Bernardino Valley 2	5203	3.58	2.2	1.7	0.158	0.118	0.114	10	106	76	41	70	355	60.1	51.4	16.6	--	--	--
35 East San Bernardino Valley	5204	--	--	--	0.145	0.119	0.103	3	97	71	40	55	100	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	--	--	--	0.163	0.121	0.116	9	101	80	54	64	103	--	--	--	--	--	--
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>DISTRICT MAXIMUM</b>																			
SOUTH COAST AIR BASIN		4.4	3.9	3.9	0.163	0.121	0.116	10	106	80	54	70	108	95.3	76.6	31.0	17.8	12.0	12.0
* Incomplete data.																			
** Salton Sea Air Basin																			
ppb - Parts Per Billion parts of air, by volume																			
AAM - Annual Arithmetic Mean																			
a) The federal and state 8-hour CO standards (9 ppm and 9.0 ppm) were not exceeded. The federal and state 1-hour CO standards (35 ppm and 20 ppm) were not exceeded, either.																			
b) The current (2015) O <sub>3</sub> federal standard was revised effective December 28, 2015.																			
c) The NO <sub>2</sub> federal 1-hour standard is 100 ppb and the annual standard is annual arithmetic mean NO <sub>2</sub> > 0.0534 ppm (63.4 ppb). The state 1-hour and annual standards are 0.18 ppm and 0.030 ppm.																			
d) The federal SO <sub>2</sub> 1-hour standard is 75 ppb (0.075 ppm). The state standards are 1-hour average SO <sub>2</sub> > 0.25 ppm (250 ppb) and 24-hour average SO <sub>2</sub> > 0.04 ppm (40 ppb).																			
# Four near-road sites measuring one or more of the pollutants PM <sub>2.5</sub> , CO and/or NO <sub>2</sub> are operating near the following freeways: I-5, I-10, CA-60 and I-710.																			



For information on the current standard levels and most recent revisions please refer to "Appendix II - Current Air Quality" of the "2016 AQMP" which can be accessed at <http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp-appendix-ii.pdf?sfvrsn=4>. Maps showing the source/receptor area boundaries can be accessed via the Internet by entering your address in the AQMD Current Hourly Air Quality Map at <http://www2.aqmd.gov/webapp/gis/cgi2/V/EMap3D.aspx>. A printed map or copy of the AQMP Appendix II is also available free of charge from the AQMD Public Information Center at 1-800-CUT-SMOG.

2016 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 <sup>e)</sup>				Fine Particulates PM2.5 <sup>g)</sup>				Lead <sup>f)</sup>		PM10 Sulfate <sup>d)</sup>			
		No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. Exceeding Federal Standards > 150 $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standards State > 50 $\mu\text{g}/\text{m}^3$ 24-hour	Annual Average Conc. (AAM) $\mu\text{g}/\text{m}^3$	No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	98th Percentile Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Federal Std > 35 $\mu\text{g}/\text{m}^3$ 24-hour	Annual Average Conc. (AAM) $\mu\text{g}/\text{m}^3$	Max. Monthly Average Conc. $\mu\text{g}/\text{m}^3$	Max. 3-Months Rolling Averages $\mu\text{g}/\text{m}^3$	No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour
<b>LOS ANGELES COUNTY</b>															
1 Central LA	087	277*	67	0	18(6%)	32.4	357	44.39	27.3	2(0.6%)	11.83	0.016	0.01		
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	--	--		
3 Southwest Coastal LA County	820	60	43	0	0(0%)	21.6	--	--	--	--	--	0.006	0.01		
4 South Coastal LA County 1	072	--	--	--	--	--	356	29.37	23.56	0	10.36	--	--		
4 South Coastal LA County 2	077	60	56	0	3(5%)	27.8	350	28.93	22.05	0	9.62	0.008	0.01		
4 South Coastal LA County 3	033	59	75	0	8(14%)	31.9	--	--	--	--	--	--	--		
4 I-710 Near Road#	032	--	--	--	--	--	352	33.31	26.09	0	12.03	--	--		
6 West San Fernando Valley	074	--	--	--	--	--	113	30.05	24.59	0	9.23	--	--		
8 West San Gabriel Valley	088	--	--	--	--	--	119	29.21	25.38	0	9.59	--	--		
9 East San Gabriel Valley 1	060	60	74	0	12(20%)	33.7	122	32.17	29.01	0	10.15	--	--		
9 East San Gabriel Valley 2	591	362	74	0	21(6%)	29.8	--	--	--	--	--	--	--		
10 Pomona/Walnut Valley	075	--	--	--	--	--	--	--	--	--	--	--	--		
11 South San Gabriel Valley	085	--	--	--	--	--	120	46.59	25.13	2(1.7%)	11.75	0.011	0.01		
12 South Central LA County	112	--	--	--	--	--	115	36.35	26.35	1(0.9%)	11.13	0.016	0.01		
13 Santa Clarita Valley	090	60	96	0	1(2%)	23.4	--	--	--	--	--	--	--		
<b>ORANGE COUNTY</b>															
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--		
17 Central Orange County	3176	353	74	0	3(1%)	24.4	349	44.45	24.02	1(0.3%)	9.47	--	--		
17 I-5 Near Road#	3131	--	--	--	--	--	--	--	--	--	--	--	--		
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--		
19 Saddleback Valley	3812	59	59	0	1(2%)	21.0	117	24.79	13.41	0	7.36	--	--		
<b>RIVERSIDE COUNTY</b>															
22 Corona/Norco Area	4155	51*	62	0	7(14%)	31.7	--	--	--	--	--	--	--		
23 Metropolitan Riverside County 1	4144	302*	82	0	58(19%)	36.9	357*	39.12	31.65	4(1.1%)	12.54	0.007	0.01		
23 Metropolitan Riverside County 3	4165	356*	116	0	175(49%)	49.0	352*	45.64	35.14	6(1.7%)	14.02	--	--		
24 Perris Valley	4149	57	76	0	5(9%)	32.2	--	--	--	--	--	--	--		
25 Esinore Valley	4158	366	99	0	4(1%)	21.4	--	--	--	--	--	--	--		
26 Temecula Valley	4031	--	--	--	--	--	--	--	--	--	--	--	--		
29 San Geronimo Pass	4164	57	65	0	3(5%)	24.0	--	--	--	--	--	--	--		
30 Coachella Valley 1**	4137	355*	113	0	6(2%)	20.8	112	14.71	12.43	0	5.53	--	--		
30 Coachella Valley 2**	4157	313**	137	0	56(18%)	36.9	115	25.84	15.04	0	7.74	--	--		
30 Coachella Valley 3**	4032	272**	150	0	76(28%)	43.0	--	--	--	--	--	--	--		
<b>SAN BERNARDINO COUNTY</b>															
32 Northwest San Bernardino Valley	5175	363	72	0	5(1%)	25.0	--	--	--	--	--	0.007	0.01		
33 I-10 Near Road#	5035	--	--	--	--	--	--	--	--	--	--	--	--		
33 CA-60 Near Road#	5036	--	--	--	--	--	347**	44.14	33.02	6(1.7%)	14.73	--	--		
34 Central San Bernardino Valley 1	5197	61	91	0	15(25%)	38.1	111*	30.45	26.25	0	12.04	--	--		
34 Central San Bernardino Valley 2	5203	333*	91	0	33(10%)	33.1	113*	32.54	27.12	0	10.84	0.010	0.01		
35 East San Bernardino Valley	5204	56	72	0	4(7%)	27.8	--	--	--	--	--	--	--		
37 Central San Bernardino Mountains	5181	61	46	0	0(0%)	17.1	55	28.42	22.14	0	6.83	--	--		
38 East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--		
<b>DISTRICT MAXIMUM</b>															
			150*	0*	175*	49.0*		46.6*	35.1*	6*	14.73*	0.016**	0.01**		
			116*	0*	181*	49.0*		46.6*	35.1*	9*	14.73*	0.016**	0.01**		
<b>SOUTH COAST AIR BASIN</b>															

\* Incomplete data due to the site improvement.  
 \*\* Saltion Sea Air Basin  
 e) PM10 statistics listed above are based on combined Federal Reference Method (FRM) and Federal Equivalent Method (FEM) data.  
 f) State annual average (AAM) PM10 standard is > 20  $\mu\text{g}/\text{m}^3$ . Federal annual PM10 standard (AAM > 50  $\mu\text{g}/\text{m}^3$ ) was revoked in 2006.  
 g) PM2.5 statistics listed above are for the FRM data only. FEM PM2.5 continuous monitoring instruments were operated at some of the above locations for real-time alerts and forecasting only.  
 h) Both Federal and State standards are annual average (AAM) > 12.0  $\mu\text{g}/\text{m}^3$ .  
 i) Federal lead standard is 3-months rolling average > 0.15  $\mu\text{g}/\text{m}^3$ ; state standard is monthly average  $\geq 1.5 \mu\text{g}/\text{m}^3$ . Lead standards were not exceeded.  
 j) State sulfate standard is 24-hour  $\geq 25 \mu\text{g}/\text{m}^3$ . There is no federal standard for sulfate. Sulfate data is not available at this time.  
 + High PM10 ( $\geq 155 \mu\text{g}/\text{m}^3$ ) data recorded in Coachella Valley (due to high winds) and the Basin (due to Independence Day fireworks) are excluded in accordance with the U.S. EPA Exceptional Event Rule.  
 ++ Higher lead concentrations were recorded at near-source monitoring sites immediately downwind of stationary lead sources. Maximum monthly and 3-month rolling averages recorded were 0.088  $\mu\text{g}/\text{m}^3$  and 0.06  $\mu\text{g}/\text{m}^3$ , respectively.  
 # Four near-road sites measuring one or more of the pollutants PM2.5, CO and/or NO2 are operating near the following freeways: I-5, I-10, CA-60 and I-710.



## Chapter 1. Air Resources Board

### Subchapter 1.5. Air Basins and Air Quality Standards

#### Article 1. Descriptions of California Air Basins

##### § 60100. North Coast Basin.

- (a) All of Del Norte County
- (b) All of Humboldt County
- (c) All of Mendocino County
- (d) All of Trinity County
- (e) That portion of Sonoma County which lies north and west of a line described as follows:

Beginning at the southeasterly corner of the Rancho Estero Americano, being on the boundary line between Marin and Sonoma Counties, California; thence running northerly along the easterly boundary line of said Rancho Estero Americano to the northeasterly corner thereof, being an angle corner in the westerly boundary line of Rancho Canada de Jonive; thence running along said boundary of Rancho Canada de Jonive westerly, northerly and easterly to its intersection with the easterly line of Graton Road; thence running along the easterly and southerly line of Graton Road, northerly and easterly to its intersection with the easterly line of Sullivan Road; thence running northerly along said easterly line of Sullivan Road to the southerly line of Green Valley Road; thence running easterly along the said southerly line of Green Valley Road and easterly along the southerly line of State Highway 116, to the westerly line of Vine Hill Road; thence running along the westerly and northerly line of Vine Hill Road, northerly and easterly to its intersection with the westerly line of Laguna Road; thence running northerly along the westerly line of Laguna Road and the northerly projection thereof to the northerly line of Trenton Road; thence running westerly along the northerly line of said Trenton Road to the easterly line of Trenton-Healdsburg Road; thence running northerly along said easterly line of Trenton-Healdsburg Road to the easterly line of Eastside Road; thence running northerly along said easterly line of Eastside Road to its intersection with the southerly line of Rancho Sotoyome; thence running easterly along said southerly line of Rancho Sotoyome to its intersection with the Township line common to Townships 8 and 9 North, M.D.M.; thence running easterly along said township line to its intersection with the boundary line between Sonoma and Napa Counties, State of California.

##### § 60101. San Francisco Bay Area Basin.

- (a) That portion of Sonoma County which lies south and east of a line described as follows:

Beginning at the southeasterly corner of the Rancho Estero Americano, being on the boundary line between Marin and Sonoma Counties, California; thence running northerly along the easterly boundary line of said Rancho Estero Americano to the northeasterly corner thereof, being an angle corner in the westerly boundary line of Rancho Canada de Jonive; thence running along said boundary of Rancho Canada de Jonive westerly, northerly and easterly to its intersection with the easterly line of Graton Road; thence running along the easterly and southerly line of Graton Road, northerly and easterly to its intersection with the easterly line of Sullivan Road; thence running northerly along said easterly line of Sullivan Road to the southerly line of Green Valley Road; thence running easterly along the said southerly line of Green Valley Road and easterly along the southerly line of State Highway 116, to the westerly line of Vine Hill Road; thence running along the westerly and northerly line of Vine Hill Road, northerly and easterly to its intersection with the westerly line of Laguna Road; thence running northerly along the westerly line of Laguna Road and the northerly projection thereof to the northerly line of Trenton Road; thence running westerly along the northerly line of said Trenton Road to the easterly line of Trenton-Healdsburg Road; thence running northerly along said easterly line of Trenton-Healdsburg Road to the easterly line of Eastside Road; thence running northerly along said easterly line of Eastside Road to its intersection with the southerly line of Rancho Sotoyome; thence running easterly along said southerly line of Rancho Sotoyome to its intersection with the Township line common to Townships 8 and 9 North, M.D.M.; thence running easterly along said township line to its intersection with the boundary line between Sonoma and Napa Counties, State of California.

- (b) All of Napa County

- (c) That portion of Solano County which lies south and west of a line described as follows:

Beginning at the intersection of the westerly boundary of Solano County and the 1/4 section line running east and west through the center of Section 34, T6N, R2W, M.D.B. & M., thence east along said 1/4 section line to the east boundary of Section 36, T6N, R2W, thence south 1/2 mile and east 2.0 miles, more or less, along the west and south boundary of Los Putos Rancho to the northwest corner of Section 4, T5N, R1W, thence east along a line common to T5N and T6N to the northeast corner of Section 3, T5N, R1E, thence south along section lines to the southeast corner of Section 10, T3N, R1E, thence east along section lines to the south 1/4 corner of Section 8, T3N, R2E, thence east to the boundary between Solano and Sacramento Counties.

- (d) All of Contra Costa County
- (e) All of Alameda County
- (f) All of Santa Clara County
- (g) All of San Mateo County
- (h) All of San Francisco County
- (i) All of Marin County

**§ 60102. North Central Coast Basin.**

- (a) All of Santa Cruz County
- (b) All of San Benito County
- (c) All of Monterey County

**§ 60103. South Central Coast Basin.**

- (a) All of San Luis Obispo County
- (b) All of Santa Barbara County
- (c) All of Ventura County

**§ 60104. South Coast Air Basin.**

- (a) All of Orange County
- (b) That portion of Riverside County which lies west of a line described as follows:  
Beginning at the Riverside-San Diego County boundary and running north along the range line common to R. 4 E and R. 3 E; then east along the township line common to T. 8 S and T. 7 S; then north along the range line common to R. 5 E and R. 4 E; then west along the township line common to T. 6 S and T. 7 S to the southwest corner of Section 34, T. 6 S, R. 4 E; then north along the west boundaries of Sections 34, 27, 22, 15, 10, 3, T. 6 S, R. 4 E; then west along the township line common to T. 5 S and T. 6 S; then north along the range line common to R. 4 E and R. 3 E; then west along the south boundaries of Sections 13, 14, 15, 16, 17 and 18, T. 5 S, R. 3 E; then north along the range line common to R. 2 E and R. 3 E to the Riverside-San Bernardino County line.
- (c) That portion of San Bernardino County west and south of a line described as follows:  
Beginning at the San Bernardino-Riverside County boundary and running north along the range line common to R. 3 E and R. 2 E; then west along the township line common to T. 3 N and T. 2 N to the San Bernardino-Los Angeles County boundary.
- (d) That portion of Los Angeles County which lies south and west of a line described as follows:  
Beginning at the Los Angeles-San Bernardino County boundary and running west along the township line common to T.3 N and T.2 N, San Bernardino Base and Meridian; then north along the range line common to R.8 W and R.9 W; then west along the township line common to T.4 N and T.3 N; then north along the range line common to R.12 W and R.13 W to the southeast corner of Section 12, T.5 N, R. 13 W; then west along the south boundaries of Sections 12, 11, 10, 9, 8, 7, T.5 N, R. 13 W to the boundary of the Angeles National Forest which is collinear with the range line common to R. 13 W and R. 14 W; then north and west along the Angeles National Forest boundary to the point of intersection with the township line common to T.7 N and T. 6 N (point is at the northwest corner of Section 4 in T.6 N, R. 14 W); then west along the township line common to T.7 N and T.6 N; then north along the range line common to R. 15 W and R. 16 W to the southeast corner of Section 13, T.7 N, R. 16 W; then north along the south boundaries of Sections 13, 14, 15, 16, 17, 18, T.7 N, R. 16 W; then north along the range line common to R.16 W and R. 17 W to the north boundary of the Angeles National Forest (collinear with township line common to T.8 N and T.7 N); then west and north along the Angeles National Forest boundary to the point of intersection with the south boundary of the Rancho La Liebre Land Grant; then west and north along this land grant boundary to the Los Angeles-Kern County boundary.

**§ 60105. Northeast Plateau Basin.**

- (a) All of Modoc County
- (b) All of Lassen County
- (c) All of Siskiyou County

**§ 60106. Sacramento Valley Basin:**

- (a) All of Tehama County
- (b) All of Glenn County

- (c) All of Butte County
- (d) All of Colusa County
- (e) All of Yolo County
- (f) All of Sutter County
- (g) All of Yuba County
- (h) All of Sacramento County
- (i) All of Shasta County.
- (j) That portion of Solano County which lies north and east of a line described as follows:

Beginning at the intersection of the westerly boundary of Solano County and the 1/4 section line running east and west through the center of Section 34, T6N, R2W, M.D.B. & M., thence east along said 1/4 section line to the east boundary of Section 36, T6N, R2W, thence south 1/2 mile and east 2.0 miles, more or less, along the west and south boundary of Los Putos Rancho to the northwest corner of Section 4, T5N, R1W, thence east along a line common to T5N and T6N to the northeast corner of Section 3, T5N, R1E, thence south along section lines to the southeast corner of Section 10, T3N, R1E, thence east along section lines to the south 1/4 corner of Section 8, T3N, R2E, thence east to the boundary between Solano and Sacramento Counties.

- (k) That portion of Placer County which lies west of Range 9 east, M.D.B. & M.

**§ 60107. San Joaquin Valley Basin.**

- (a) All of San Joaquin County
- (b) All of Stanislaus County
- (c) All of Merced County
- (d) All of Madera County
- (e) All of Fresno County
- (f) All of Kings County
- (g) All of Tulare County
- (h) That portion of Kern County which lies west and north of a line described as follows:

Beginning at the Kern-Los Angeles County boundary and running north and east along the northwest boundary of the Rancho La Libre Land Grant to the point of intersection with the range line common to R. 16 W. and R. 17 W., San Bernardino Base and Meridian; north along the range line to the point of intersection with the Rancho El Tejon Land Grant boundary; then southeast, northeast, and northwest along the boundary of the Rancho El Tejon Land Grant to the northwest corner of S. 3, T. 11 N., R. 17 W.; then west 1.2 miles; then north to the Rancho El Tejon Land Grant boundary; then northwest along the Rancho El Tejon line to the southeast corner of S. 34, T. 32 S., R. 30 E., Mount Diablo Base and Meridian; then north to the northwest corner of S. 35, T. 31 S., R. 30 E.; then northeast along the boundary of the Rancho El Tejon Land Grant to the southwest corner of S. 18, T. 31 S., R. 31 E.; then east to the southeast corner of S. 13, T. 31 S., R. 31 E.; then north along the range line common to R. 31 E. and R. 32 E., Mount Diablo Base and Meridian, to the northwest corner of S. 6, T. 29 S., R. 32 E.; then east to the southwest corner of S. 31, T. 28 S., R. 32 E.; then north along the range line common to R. 31 E. and R. 32 E. to the northwest corner of S. 6, T. 28 S., R. 32 E., then west to the southeast corner of S. 36, T. 27 S., R. 31 E., then north along the range line common to R. 31 E. and R. 32 E. to the Kern-Tulare County boundary.

**§ 60108. Great Basin Valleys Basin.**

- (a) All of Alpine County
- (b) All of Mono County
- (c) All of Inyo County

**§ 60109. Mojave Desert Air Basin.**

- (a) That portion of Riverside County which lies east of a line described as follows:

That segment of the southwestern boundary line of Hydrologic Unit Number 18100100 within Riverside County, further described as follows:

Beginning at the Riverside-Imperial County boundary and running north along the range line common to R. 17 E. and R. 16 E., San Bernardino Base and Meridian; then northwest along the ridge line of the Chuckwalla Mountains, through T. 8 S., R. 16 E. and T. 7 S., R. 16 E., until the Black Butte Mountain, elev. 4504'; then west and northwest along the ridge line to the southwest corner of T. 5 S., R. 14 E.; then north along the range line common to R. 14 E. and R. 13 E.; then west and northwest along the ridge line to Monument Mountain, elev. 4834'; then southwest and then northwest along the ridge line of the Little San Bernardino Mountains to Quail Mountain, elev. 5814'; then northwest along the ridge line to the Riverside-San Bernardino County line.

- (b) That portion of San Bernardino County east and north of a line described as follows:

Beginning at the San Bernardino-Riverside County boundary and running north along the range line common to R. 3 E and R. 2 E, San Bernardino Base and Meridian; then west along the township line common to T. 3 N and T. 2 N to the San Bernardino-Los Angeles County boundary.

(c) That portion of Los Angeles County which lies north and east of a line described as follows:

Beginning at the Los Angeles-San Bernardino County boundary and running west along the township line common to T. 3 N and T. 2 N, San Bernardino Base and Meridian; then north along the range line common to R. 8 W and R. 9 W; then west along the township line common to T. 4 N and T. 3 N; then north along the range line common to R. 12 W and R. 13 W to the southeast corner of Section 12, T. 5 N, R. 13 W; then west along the south boundaries of Sections 12, 11, 10, 9, 8, 7, T. 5 N, R. 13 W to the boundary of the Angeles National Forest which is collinear with the range line common to R. 13 W and R. 14 W; then north and west along the Angeles National Forest boundary to the point of intersection with the township line common to T. 7 N and T. 6 N (point is at the northwest corner of Section 4 in T. 6 N, R. 14 W); then west along the township line common to T. 7 N and T. 6 N; then north along the range line common to R. 15 W and R. 16 W to the southeast corner of Section 13, T. 7 N, R. 16 W; then along the south boundaries of Sections 13, 14, 15, 16, 17, 18, T. 7 N, R. 16 W; then north along the range line common to R. 16 W and R. 17 W to the north boundary of the Angeles National Forest (collinear with township line common to T. 8 N and T. 7 N) then west and north along the Angeles National Forest boundary to the point of intersection with the south boundary of the Rancho La Liebre Land Grant; then west and north along this land grant boundary to the Los Angeles-Kern County boundary.

(d) That portion of Kern County east and south of a line described as follows:

Beginning at the Kern-Los Angeles County boundary and running north and east along the northwest boundary of the Rancho La Libre Land Grant to the point of intersection with the range line common to R. 16 W. and R. 17 W., San Bernardino Base and Meridian; north along the range line to the point of intersection with the Rancho El Tejon Land Grant boundary; then southeast, northeast, and northwest along the boundary of the Rancho El Tejon Land Grant to the northwest corner of S. 3, T. 11 N., R. 17 W.; then west 1.2 miles; then north to the Rancho El Tejon Land Grant boundary; then northwest along the Rancho El Tejon line to the southeast corner of S. 34, T. 32 S., R. 30 E., Mount Diablo Base and Meridian; then north to the northwest corner of S. 35, T. 31 S., R. 30 E.; then northeast along the boundary of the Rancho El Tejon Land Grant to the southwest corner of S. 18, T. 31 S., R. 31 E.; then east to the southeast corner of S. 13, T. 31 S., R. 31 E.; then north along the range line common to R. 31 E. and R. 32 E., Mount Diablo Base and Meridian, to the northwest corner of S. 6, T. 29 S., R. 32 E.; then east to the southwest corner of S. 31 T. 28 S., R. 32 E.; then north along the range line common to R. 31 E. and R. 32 E. to the northwest corner of S. 6, T. 28 S., R. 32 E., then west to the southeast corner of S. 36, T. 27 S., R. 31 E., then north along the range line common to R. 31 E. and R. 32 E. to the Kern-Tulare County boundary.

**§ 60110. San Diego Air Basin.**

All of San Diego County.

**§ 60111. Mountain Counties Air Basin:**

- (a) All of Plumas County
- (b) All of Sierra County
- (c) All of Nevada County
- (d) All of Amador County
- (e) All of Calaveras County
- (f) All of Tuolumne County
- (g) All of Mariposa County
- (h) All of El Dorado County except that portion included in the Lake Tahoe Air Basin, as defined in Section 60113(a).
- (i) All of Placer County except that portion included in the Lake Tahoe Air Basin, as defined in Section 60113(b), and that portion included in the Sacramento Valley Air Basin, as defined in Section 60106(k).

**§ 60112. Lake County Air Basin.**

All of Lake County.

**§ 60113. Lake Tahoe Air Basin.**

- (a) That portion of El Dorado County within the drainage area naturally tributary to Lake Tahoe including said Lake.

(b) That portion of Placer County within the drainage area naturally tributary to Lake Tahoe including said Lake, plus that area in the vicinity of the head of the Truckee River described as follows: commencing at the point common to the aforementioned drainage area crestline and the line common to Townships 15 North and 16 North, M.D.B. & M., and following that line in a westerly direction to the northwest corner of Section 3, Township 15 North, Range 16 East, M.D.B. & M., thence south along the west line of Sections 3 and 10, Township 15 North, Range 16 East, M.D.B. & M., to the intersection with the said drainage area crestline, thence following the said drainage area boundary in a southeasterly, then northeasterly direction to and along the Lake Tahoe Dam, thence following the said drainage area crestline in a northeasterly, then northwesterly direction to the point of beginning.

The Air Basin defined and described in (a) and (b) above shall be as delineated on the official map thereof which is signed by the Executive Officer of the Air Resources Board; such map shall be on file at the Air Resources Board Headquarters Office.

**§ 60114. Salton Sea Air Basin.**

(a) All of Imperial County

(b) That portion of Riverside County which lies east of a line described as follows:

Beginning at the Riverside-San Diego County boundary and running north along the range line common to R. 4 E and R. 3 E; then east along the township line common to T. 8 S and T. 7 S; then north along the range line common to R. 5 E and R. 4 E; then west along the township line common to T. 6 S and T. 7 S to the southwest corner of Section 34, T. 6 S, R. 4 E; then north along the west boundaries of Sections 34, 27, 22, 15, 10, 3, T. 6 S, R. 4 E; then west along the township line common to T. 5 S and T. 6 S; then north along the range line common to R. 4 E and R. 3 E; then west along the south boundaries of Sections 13, 14, 15, 16, 17 and 18, T. 5 S, R. 3 E; then north along the range line common to R. 2 E and R. 3 E to the Riverside-San Bernardino County line; and west of a line described as follows:

That segment of the southwestern boundary line of Hydrologic Unit Number 18100100 within Riverside County, further described as follows:

Beginning at the Riverside-Imperial County boundary and running north along the range line common to R. 17 E. and R. 16 E., San Bernardino Base and Meridian; then northwest along the ridge line of the Chuckwalla Mountains, through T. 8 S., R. 16 E. and T. 7 S., R. 16 E., until the Black Butte Mountain, elev. 4504'; then west and northwest along the ridge line to the southwest corner of T. 5 S., R. 14 E.; then north along the range line common to R. 14 E. and R. 13 E.; then west and northwest along the ridge line to Monument Mountain, elev. 4834'; then southwest and then northwest along the ridge line of the Little San Bernardino Mountains to Quail Mountain, elev. 5814'; then northwest along the ridge line to the Riverside-San Bernardino County line.



# SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

21865 Copley Drive, Diamond Bar, CA 91765-4182  
 Information: 1-800-CUT-SMOG (1-800-288-7664)  
 Internet: <http://www.aqmd.gov>

## Air Quality Reporting

Since 1977, the South Coast Air Quality Management District has served as the local government agency responsible for measuring, reporting and taking steps to improve air quality.

To inform the AQMD's 15 million residents about air quality conditions, the AQMD issues an air quality forecast each day and reports current air quality conditions for each

numbered Monitoring Area and General Forecast Area depicted here. This air quality information is transmitted to the public through newspapers, television, radio and pager services, through faxes to schools, through recorded messages on the AQMD's toll-free Smog Update telephone line, 1-800-CUT-SMOG, and on the AQMD's Internet Website <http://www.aqmd.gov>. Newspapers, television and radio stations typically will report air

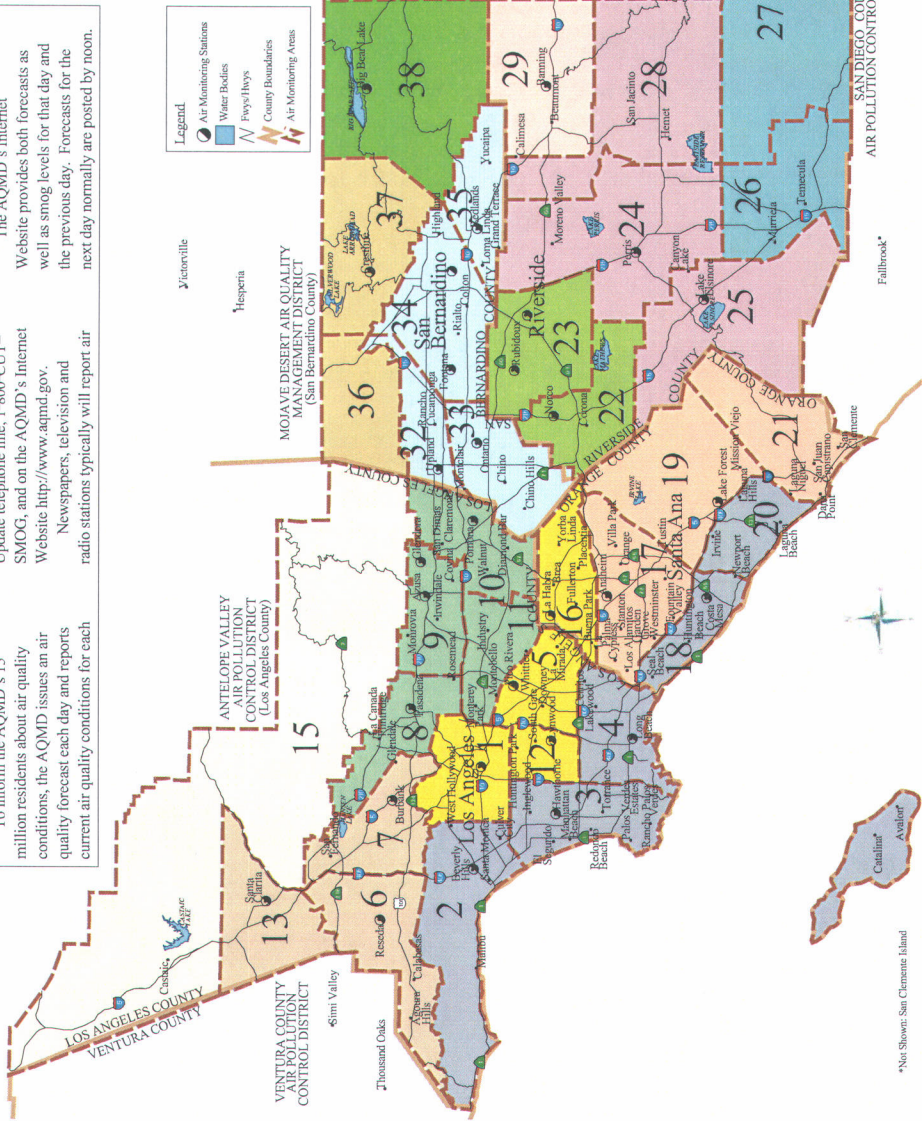
quality information using the General Forecast Areas, shown in color below, which are larger groupings of the more specific Air Monitoring Areas.

The 1-800-CUT-SMOG (1-800-288-7664) line also provides smog forecast and current smog level information by ZIP code.

The AQMD's Internet Website provides both forecasts as well as smog levels for that day and the previous day. Forecasts for the next day normally are posted by noon.

General Forecast Areas & Air Monitoring Areas	
<b>Coastal</b>	<b>Hemet/Elsinore Area</b>
Northwest Los Angeles County Coastal	Perris Valley
Southwest Los Angeles County Coastal	Lake Elsinore
Central Los Angeles County Coastal	Hemet/San Jacinto Valley
North Orange County Coastal	<b>Temecula/Anza Area</b>
Central Orange County Coastal	Temecula Valley
<b>Metropolitan</b>	Anza Area
Central Los Angeles County	<b>San Gabriel Mountains</b>
Southeast Los Angeles County	West San Bernardino Mountains
South Central Los Angeles County	Central San Bernardino Mountains
North Orange County	<b>Big Bear Lake</b>
<b>San Fernando Valley</b>	<b>Banning Pass Area</b>
West San Fernando Valley	Coachella Valley
East San Fernando Valley	East Riverside County
Santa Clarita Valley	<b>ANTELOPE VALLEY APCD*</b>
<b>San Gabriel Valley</b>	Central Orange County
West San Gabriel Valley	Saddleback Valley
East San Gabriel Valley	Capistrano Valley
Pomona/Walnut Valley	<b>Riverside Valley</b>
South San Gabriel Valley	Corona/Norco Area
<b>Inland Orange County</b>	Metropolitan Riverside
Central Orange County	<b>San Bernardino Valley</b>
Saddleback Valley	Northwest San Bernardino Valley
Capistrano Valley	Southwest San Bernardino Valley
<b>Riverside Valley</b>	Central San Bernardino Valley
Corona/Norco Area	East San Bernardino Valley
Metropolitan Riverside	<b>MOJAVE DESERT AQMD*</b>
<b>San Bernardino Valley</b>	Victor Valley
Northwest San Bernardino Valley	Northern Mojave Desert
Southwest San Bernardino Valley	Central Mojave Desert
Central San Bernardino Valley	<b>ANTELOPE VALLEY AQMD*</b>
East San Bernardino Valley	Victor Valley

\*These agencies contract with the South Coast AQMD for forecasting services. Also, the Antelope Valley AQMD contracts with the Mojave Desert AQMD for other services. For more air quality information in these areas, please call the Mojave Desert AQMD at (760) 245-1661, extension 5067.



\*Not Shown: San Clemente Island

Fallbrook\*

Pope



**Table C-1. 2006 – 2008 Thresholds for Construction and Operation with Gradual Conversion of NO<sub>x</sub> to NO<sub>2</sub>**

SRA No.	Source Receptor Area	Allowable emissions (lbs/day) as a function of receptor distance (meters) from site boundary									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	74	74	82	106	168	108	106	110	126	179
2	Northwest Coastal LA County	103	104	121	156	245	147	143	156	186	262
3	Southwest Coastal LA County	91	93	107	139	218	131	128	139	165	233
4	South Coastal LA County	57	58	68	90	142	82	80	87	106	151
5	Southeast LA County	80	81	94	123	192	114	111	121	145	205
6	West San Fernando Valley	103	104	121	157	245	147	143	156	187	263
7	East San Fernando Valley	80	81	94	122	191	114	111	121	144	204
8	West San Gabriel Valley	69	69	81	104	164	98	95	104	124	175
9	East San Gabriel Valley	89	112	159	251	489	128	151	200	284	513
10	Pomona/Walnut Valley	103	129	185	292	570	149	175	230	330	598
11	South San Gabriel Valley	83	84	96	123	193	121	118	126	147	206
12	South Central LA County	46	46	54	70	109	65	64	69	82	117
13	Santa Clarita Valley	114	115	133	173	273	163	159	172	204	291
15	San Gabriel Mountains	114	115	133	173	273	163	159	172	204	291
16	North Orange County	103	104	121	159	252	147	143	156	186	269
17	Central Orange County	81	83	98	123	192	115	114	125	148	205
18	North Coastal Orange County	92	93	108	140	219	131	128	139	165	235
19	Saddleback Valley	91	93	108	140	218	131	127	139	165	233
20	Central Orange County Coastal	92	93	108	140	219	131	128	139	165	235
21	Capistrano Valley	91	93	108	140	218	131	127	139	165	233
22	Norco/Corona	118	148	211	334	652	170	200	263	378	684
23	Metropolitan Riverside County	118	148	212	335	652	170	200	264	379	684
24	Perris Valley	118	148	212	335	652	170	200	264	379	684
25	Lake Elsinore	162	203	292	460	896	234	275	363	521	941
26	Temecula Valley	162	203	292	460	896	234	275	363	521	941
27	Anza Area	162	203	292	460	896	234	275	363	521	941
28	Hemet/San Jacinto Valley	162	203	292	460	896	234	275	363	521	941
29	Banning Airport	103	131	189	299	585	149	176	234	340	614
30	Coachella Valley	132	166	238	376	733	191	225	296	425	769
31	East Riverside County	132	166	238	376	733	191	225	296	425	769
32	Northwest San Bernardino Valley	118	148	211	334	652	170	200	263	378	684
33	Southwest San Bernardino Valley	118	148	211	334	652	170	200	263	378	684
34	Central San Bernardino Valley	118	148	211	334	652	170	200	263	378	684
35	East San Bernardino Valley	118	148	211	334	651	170	200	263	377	683
36	West San Bernardino Mountains	118	148	211	334	652	170	200	263	378	684
37	Central San Bernardino Mountains	118	148	211	334	652	170	200	263	378	684
38	East San Bernardino Mountains	118	148	211	334	651	170	200	263	377	683

**Table C-1. 2006 – 2008 Thresholds for Construction and Operation with Gradual Conversion of NO<sub>x</sub> to NO<sub>2</sub> (Continued)**

SRA No.	Source Receptor Area	Allowable emissions (lbs/day) as a function of receptor distance (meters) from site boundary				
		5 Acre				
		25	50	100	200	500
1	Central LA	161	157	165	173	212
2	Northwest Coastal LA County	221	212	226	250	312
3	Southwest Coastal LA County	197	189	202	222	277
4	South Coastal LA County	123	118	126	141	179
5	Southeast LA County	172	165	176	194	244
6	West San Fernando Valley	221	212	226	250	313
7	East San Fernando Valley	172	165	176	194	242
8	West San Gabriel Valley	148	141	151	166	208
9	East San Gabriel Valley	203	227	286	368	584
10	Pomona/Walnut Valley	236	265	330	426	681
11	South San Gabriel Valley	183	176	184	202	245
12	South Central LA County	98	94	101	111	139
13	Santa Clarita Valley	246	236	251	275	345
15	San Gabriel Mountains	246	236	251	275	345
16	North Orange County	221	212	226	249	317
17	Central Orange County	183	167	180	202	245
18	North Coastal Orange County	197	190	202	223	278
19	Saddleback Valley	197	189	201	222	278
20	Central Orange County Coastal	197	190	202	223	278
21	Capistrano Valley	197	189	201	222	278
22	Norco/Corona	270	302	378	486	778
23	Metropolitan Riverside County	270	302	378	488	780
24	Perris Valley	270	302	378	488	780
25	Lake Elsinore	371	416	520	672	1,072
26	Temecula Valley	371	416	520	672	1,072
27	Anza Area	371	416	520	672	1,072
28	Hemet/San Jacinto Valley	371	416	520	672	1,072
29	Banning Airport	236	265	333	434	698
30	Coachella Valley	304	340	425	547	875
31	East Riverside County	304	340	425	547	875
32	Northwest San Bernardino Valley	270	303	378	486	778
33	Southwest San Bernardino Valley	270	303	378	486	778
34	Central San Bernardino Valley	270	302	378	486	778
35	East San Bernardino Valley	270	302	378	486	778
36	West San Bernardino Mountains	270	303	378	486	778
37	Central San Bernardino Mountains	270	302	378	486	778
38	East San Bernardino Mountains	270	302	378	486	778

**Table C-2. 2006 – 2008 CO Emission Thresholds for Construction and Operation**

SRA No.	Source Receptor Area	Allowable emissions (lbs/day) as a function of receptor distance (meters) from site boundary									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	680	882	1,259	2,406	7,911	1,048	1,368	1,799	3,016	8,637
2	Northwest Coastal LA County	562	833	1,233	2,367	7,724	827	1,213	1,695	2,961	8,446
3	Southwest Coastal LA County	664	785	1,156	2,228	7,269	967	1,158	1,597	2,783	7,950
4	South Coastal LA County	585	789	1,180	2,296	7,558	842	1,158	1,611	2,869	8,253
5	Southeast LA County	571	735	1,088	2,104	6,854	861	1,082	1,496	2,625	7,500
6	West San Fernando Valley	426	652	1,089	2,096	6,815	644	903	1,497	2,629	7,460
7	East San Fernando Valley	498	732	1,158	2,227	7,267	786	1,068	1,594	2,786	7,947
8	West San Gabriel Valley	535	783	1,158	2,229	7,270	812	1,125	1,594	2,785	7,957
9	East San Gabriel Valley	623	945	1,914	4,803	20,721	953	1,344	2,445	5,658	22,093
10	Pomona/Walnut Valley	612	911	1,741	4,345	18,991	885	1,358	2,298	5,097	20,256
11	South San Gabriel Valley	673	760	1,113	2,110	6,884	1,031	1,143	1,554	2,660	7,530
12	South Central LA County	231	342	632	1,545	5,452	346	515	841	1,817	5,962
13	Santa Clarita Valley	590	879	1,294	2,500	8,174	877	1,256	1,787	3,108	8,933
15	San Gabriel Mountains	590	879	1,294	2,500	8,174	877	1,256	1,787	3,108	8,933
16	North Orange County	522	685	1,014	1,975	6,531	762	1,010	1,395	2,444	7,121
17	Central Orange County	485	753	1,128	2,109	6,841	715	1,041	1,547	2,685	7,493
18	North Coastal Orange County	647	738	1,090	2,096	6,841	962	1,089	1,506	2,615	7,493
19	Saddleback Valley	696	833	1,234	2,376	7,724	993	1,227	1,696	2,965	8,454
20	Central Orange County Coastal	647	738	1,090	2,096	6,841	962	1,089	1,506	2,615	7,493
21	Capistrano Valley	696	833	1,234	2,376	7,724	993	1,227	1,696	2,965	8,454
22	Norco/Corona	674	999	1,853	4,352	17,637	1,007	1,474	2,461	5,183	18,934
23	Metropolitan Riverside County	602	887	1,746	4,359	17,640	883	1,262	2,232	5,136	18,947
24	Perris Valley	602	887	1,746	4,359	17,640	883	1,262	2,232	5,136	18,947
25	Lake Elsinore	750	1,105	2,176	5,501	23,866	1,100	1,572	2,781	6,399	25,412
26	Temecula Valley	750	1,105	2,176	5,501	23,866	1,100	1,572	2,781	6,399	25,412
27	Anza Area	750	1,105	2,176	5,501	23,866	1,100	1,572	2,781	6,399	25,412
28	Hemet/San Jacinto Valley	750	1,105	2,176	5,501	23,866	1,100	1,572	2,781	6,399	25,412
29	Banning Airport	1,000	1,420	2,623	6,154	25,057	1,541	2,049	3,458	7,395	26,890
30	Coachella Valley	878	1,387	2,565	6,021	24,417	1,299	1,931	3,409	7,174	26,212
31	East Riverside County	878	1,387	2,565	6,021	24,417	1,299	1,931	3,409	7,174	26,212
32	Northwest San Bernardino Valley	863	1,328	2,423	5,691	23,065	1,232	1,877	3,218	6,778	24,768
33	Southwest San Bernardino Valley	863	1,328	2,423	5,691	23,065	1,232	1,877	3,218	6,778	24,768
34	Central San Bernardino Valley	667	1,059	2,141	5,356	21,708	972	1,463	2,738	6,346	23,304
35	East San Bernardino Valley	775	1,205	2,279	5,351	21,703	1,174	1,712	3,029	6,375	23,294
36	West San Bernardino Mountains	863	1,328	2,423	5,691	23,065	1,232	1,877	3,218	6,778	24,768
37	Central San Bernardino Mountains	667	1,059	2,141	5,356	21,708	972	1,463	2,738	6,346	23,304
38	East San Bernardino Mountains	775	1,205	2,279	5,351	21,703	1,174	1,712	3,029	6,375	23,294

**Table C-2. 2006 – 2008 CO Emission Thresholds for Construction and Operation (Continued)**

SRA No.	Source Receptor Area	Allowable emissions (lbs/day) as a function of receptor distance (meters) from site boundary				
		5 Acre				
		25	50	100	200	500
1	Central LA	1,861	2,331	3,030	4,547	10,666
2	Northwest Coastal LA County	1,531	1,985	2,762	4,383	10,467
3	Southwest Coastal LA County	1,796	1,984	2,608	4,119	9,852
4	South Coastal LA County	1,530	1,982	2,613	4,184	10,198
5	Southeast LA County	1,480	1,855	2,437	3,867	9,312
6	West San Fernando Valley	1,158	1,537	2,438	3,871	9,271
7	East San Fernando Valley	1,434	1,872	2,599	4,119	9,848
8	West San Gabriel Valley	1,540	1,921	2,599	4,119	9,857
9	East San Gabriel Valley	1,733	2,299	3,680	7,600	25,558
10	Pomona/Walnut Valley	1,566	2,158	3,691	7,011	23,450
11	South San Gabriel Valley	1,814	1,984	2,549	4,024	9,342
12	South Central LA County	630	879	1,368	2,514	7,389
13	Santa Clarita Valley	1,644	2,095	2,922	4,608	11,049
15	San Gabriel Mountains	1,644	2,095	2,922	4,608	11,049
16	North Orange County	1,311	1,731	2,274	3,605	8,754
17	Central Orange County	1,253	1,734	2,498	4,018	9,336
18	North Coastal Orange County	1,711	1,864	2,455	3,888	9,272
19	Saddleback Valley	1,804	2,102	2,763	4,387	10,507
20	Central Orange County Coastal	1,711	1,864	2,455	3,888	9,272
21	Capistrano Valley	1,804	2,102	2,763	4,387	10,507
22	Norco/Corona	1,700	2,470	3,964	7,350	22,490
23	Metropolitan Riverside County	1,577	2,178	3,437	6,860	22,530
24	Perris Valley	1,577	2,178	3,437	6,860	22,530
25	Lake Elsinore	1,965	2,714	4,282	8,547	29,256
26	Temecula Valley	1,965	2,714	4,282	8,547	29,256
27	Anza Area	1,965	2,714	4,282	8,547	29,256
28	Hemet/San Jacinto Valley	1,965	2,714	4,282	8,547	29,256
29	Banning Airport	2,817	3,575	5,534	10,383	31,903
30	Coachella Valley	2,292	3,237	5,331	10,178	31,115
31	East Riverside County	2,292	3,237	5,331	10,178	31,115
32	Northwest San Bernardino Valley	2,193	2,978	5,188	9,611	29,410
33	Southwest San Bernardino Valley	2,193	2,978	5,188	9,611	29,410
34	Central San Bernardino Valley	1,746	2,396	4,142	8,532	27,680
35	East San Bernardino Valley	2,075	2,890	4,765	9,044	27,650
36	West San Bernardino Mountains	2,193	2,978	5,188	9,611	29,410
37	Central San Bernardino Mountains	1,746	2,396	4,142	8,532	27,680
38	East San Bernardino Mountains	2,075	2,890	4,765	9,044	27,650

**Table C-3. PM10 Emission Thresholds for Operation**

SRA No.	Source Receptor Area	Significance Threshold of 2.5 mg/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	2	4	8	17	43	2	6	11	20	46
2	Northwest Coastal LA County	1	3	7	14	36	2	5	9	16	37
3	Southwest Coastal LA County	1	4	7	14	34	2	6	9	16	36
4	South Coastal LA County	1	3	7	15	38	2	5	9	17	40
5	Southeast LA County	1	3	8	16	42	2	5	10	18	44
6	West San Fernando Valley	1	3	7	15	38	2	5	8	16	39
7	East San Fernando Valley	1	3	7	13	33	2	5	9	15	35
8	West San Gabriel Valley	1	3	7	14	37	2	5	9	16	39
9	East San Gabriel Valley	2	4	9	19	48	2	6	11	20	50
10	Pomona/Walnut Valley	1	3	7	14	36	2	5	8	16	38
11	South San Gabriel Valley	1	4	7	15	37	2	6	9	17	39
12	South Central LA County	1	3	7	13	34	2	5	9	15	36
13	Santa Clarita Valley	1	3	6	13	32	2	5	8	15	34
15	San Gabriel Mountains	1	3	6	13	32	2	5	8	15	34
16	North Orange County	1	3	6	13	33	2	4	8	15	35
17	Central Orange County	1	3	7	15	38	2	5	9	17	40
18	North Coastal Orange County	1	4	7	13	33	2	6	9	15	35
19	Saddleback Valley	1	3	6	12	29	2	5	8	14	31
20	Central Orange County Coastal	1	4	7	13	33	2	6	9	15	35
21	Capistrano Valley	1	3	6	12	29	2	5	8	14	31
22	Norco/Corona	1	3	8	18	48	2	5	10	20	50
23	Metropolitan Riverside County	1	3	8	17	43	2	5	10	18	45
24	Perris Valley	1	3	8	17	43	2	5	10	18	45
25	Lake Elsinore	1	3	8	17	43	2	5	10	18	45
26	Temecula Valley	1	3	8	17	43	2	5	10	18	45
27	Anza Area	1	3	8	17	43	2	5	10	18	45
28	Hemet/San Jacinto Valley	1	3	8	17	43	2	5	10	18	45
29	Banning Airport	2	5	14	31	84	3	8	18	38	98
30	Coachella Valley	1	3	9	20	52	2	6	16	36	97
31	East Riverside County	1	3	9	20	52	2	6	16	36	97
32	Northwest San Bernardino Valley	2	4	11	25	68	2	5	9	16	39
33	Southwest San Bernardino Valley	2	4	11	25	68	2	5	9	16	39
34	Central San Bernardino Valley	1	3	8	18	47	2	6	10	20	50
35	East San Bernardino Valley	1	3	9	20	53	2	5	11	22	56
36	West San Bernardino Mountains	2	4	11	25	68	2	5	9	16	39
37	Central San Bernardino Mountains	1	3	8	18	47	2	6	10	20	50
38	East San Bernardino Mountains	1	3	9	20	53	2	5	11	22	56

**Table C-3. PM10 Emission Thresholds for Operation (Continued)**

SRA No.	Source Receptor Area	Significance Threshold of 2.5 mg/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site				
		5 acres				
		25	50	100	200	500
1	Central LA	4	12	17	26	53
2	Northwest Coastal LA County	3	10	13	21	42
3	Southwest Coastal LA County	4	12	15	21	41
4	South Coastal LA County	4	10	14	22	46
5	Southeast LA County	4	10	15	23	49
6	West San Fernando Valley	3	9	13	21	44
7	East San Fernando Valley	4	11	14	21	41
8	West San Gabriel Valley	3	9	13	21	44
9	East San Gabriel Valley	4	11	16	26	55
10	Pomona/Walnut Valley	3	9	13	20	42
11	South San Gabriel Valley	4	11	15	22	45
12	South Central LA County	4	10	14	20	40
13	Santa Clarita Valley	3	10	13	19	39
15	San Gabriel Mountains	3	10	13	19	39
16	North Orange County	3	9	12	19	40
17	Central Orange County	3	10	14	22	45
18	North Coastal Orange County	4	11	14	21	41
19	Saddleback Valley	3	9	12	18	36
20	Central Orange County Coastal	4	11	14	21	41
21	Capistrano Valley	3	9	12	18	36
22	Norco/Corona	3	9	14	25	55
23	Metropolitan Riverside County	4	10	14	23	50
24	Perris Valley	4	10	14	23	50
25	Lake Elsinore	4	10	14	23	50
26	Temecula Valley	4	10	14	23	50
27	Anza Area	4	10	14	23	50
28	Hemet/San Jacinto Valley	4	10	14	23	50
29	Banning Airport	6	16	25	44	98
30	Coachella Valley	4	11	16	27	60
31	East Riverside County	4	11	16	27	60
32	Northwest San Bernardino Valley	4	12	20	34	78
33	Southwest San Bernardino Valley	4	12	20	34	78
34	Central San Bernardino Valley	4	11	16	26	55
35	East San Bernardino Valley	4	11	16	28	62
36	West San Bernardino Mountains	4	12	20	34	78
37	Central San Bernardino Mountains	4	11	16	26	55
38	East San Bernardino Mountains	4	11	16	28	62

**Table C-4. PM10 Emission Thresholds for Construction**

SRA No.	Source Receptor Area	Significance Threshold of 10.4 mg/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	5	15	33	70	179	8	25	43	80	190
2	Northwest Coastal LA County	4	12	27	57	146	6	19	34	64	154
3	Southwest Coastal LA County	5	14	28	56	140	8	23	37	65	148
4	South Coastal LA County	4	13	29	61	158	7	21	37	70	167
5	Southeast LA County	4	13	30	66	173	7	21	39	74	182
6	West San Fernando Valley	4	11	27	59	155	6	17	33	66	162
7	East San Fernando Valley	4	13	26	54	136	7	21	34	62	144
8	West San Gabriel Valley	4	11	27	58	152	6	19	34	66	160
9	East San Gabriel Valley	5	14	34	75	199	7	22	42	84	207
10	Pomona/Walnut Valley	4	11	26	57	148	6	18	33	64	156
11	South San Gabriel Valley	5	13	29	60	153	7	22	37	68	162
12	South Central LA County	4	12	26	54	139	7	20	34	62	146
13	Santa Clarita Valley	4	12	25	51	131	6	19	32	59	139
15	San Gabriel Mountains	4	12	25	51	131	6	19	32	59	139
16	North Orange County	4	10	24	53	137	6	17	31	60	145
17	Central Orange County	4	12	28	60	158	6	19	35	68	166
18	North Coastal Orange County	4	13	27	54	135	7	21	35	62	144
19	Saddleback Valley	4	11	24	48	121	6	18	30	55	129
20	Central Orange County Coastal	4	13	27	54	135	7	21	35	62	144
21	Capistrano Valley	4	11	24	48	121	6	18	30	55	129
22	Norco/Corona	4	11	32	73	198	6	18	39	81	206
23	Metropolitan Riverside County	4	12	30	67	178	7	20	38	75	186
24	Perris Valley	4	12	30	67	178	7	20	38	75	186
25	Lake Elsinore	4	12	30	67	178	7	20	38	75	186
26	Temecula Valley	4	12	30	67	178	7	20	38	75	186
27	Anza Area	4	12	30	67	178	7	20	38	75	186
28	Hemet/San Jacinto Valley	4	12	30	67	178	7	20	38	75	186
29	Banning Airport	6	19	55	129	348	10	32	73	157	407
30	Coachella Valley	4	13	35	80	214	7	22	44	89	223
31	East Riverside County	4	13	35	80	214	7	22	44	89	223
32	Northwest San Bernardino Valley	5	14	44	103	280	6	19	34	66	160
33	Southwest San Bernardino Valley	5	14	44	103	280	6	19	34	66	160
34	Central San Bernardino Valley	4	13	33	74	196	7	22	42	83	205
35	East San Bernardino Valley	4	12	36	82	220	7	21	44	90	230
36	West San Bernardino Mountains	5	14	44	103	280	6	19	34	66	160
37	Central San Bernardino Mountains	4	13	33	74	196	7	22	42	83	205
38	East San Bernardino Mountains	4	12	36	82	220	7	21	44	90	230

**Table C-4. PM10 Emission Thresholds for Construction (Continued)**

SRA No.	Source Receptor Area	Significance Threshold of 10.4 mg/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site				
		5 acres				
		25	50	100	200	500
1	Central LA	16	50	69	107	219
2	Northwest Coastal LA County	13	40	55	84	174
3	Southwest Coastal LA County	15	46	60	88	171
4	South Coastal LA County	14	42	58	92	191
5	Southeast LA County	14	42	60	95	203
6	West San Fernando Valley	11	35	51	84	181
7	East San Fernando Valley	14	42	56	84	167
8	West San Gabriel Valley	12	37	53	85	180
9	East San Gabriel Valley	14	43	63	105	229
10	Pomona/Walnut Valley	12	36	51	82	175
11	South San Gabriel Valley	14	43	59	91	186
12	South Central LA County	13	41	55	83	166
13	Santa Clarita Valley	12	38	52	79	161
15	San Gabriel Mountains	12	38	52	79	161
16	North Orange County	11	34	49	78	165
17	Central Orange County	13	39	55	88	188
18	North Coastal Orange County	14	44	57	85	167
19	Saddleback Valley	12	37	49	74	148
20	Central Orange County Coastal	14	44	57	85	167
21	Capistrano Valley	12	37	49	74	148
22	Norco/Corona	12	37	58	101	228
23	Metropolitan Riverside County	13	40	59	96	207
24	Perris Valley	13	40	59	96	207
25	Lake Elsinore	13	40	59	96	207
26	Temecula Valley	13	40	59	96	207
27	Anza Area	13	40	59	96	207
28	Hemet/San Jacinto Valley	13	40	59	96	207
29	Banning Airport	21	67	104	180	405
30	Coachella Valley	14	44	67	112	248
31	East Riverside County	14	44	67	112	248
32	Northwest San Bernardino Valley	16	50	80	140	322
33	Southwest San Bernardino Valley	16	50	80	140	322
34	Central San Bernardino Valley	14	44	65	106	229
35	East San Bernardino Valley	14	42	66	113	255
36	West San Bernardino Mountains	16	50	80	140	322
37	Central San Bernardino Mountains	14	44	65	106	229
38	East San Bernardino Mountains	14	42	66	113	255



**Table C-5. PM2.5 Emission Thresholds for Operation**

SRA No.	Source Receptor Area	Significance Threshold of 2.5 ug/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	1	2	3	6	25	2	2	3	7	27
2	Northwest Coastal LA County	1	1	2	5	19	1	2	3	6	20
3	Southwest Coastal LA County	1	2	3	5	18	1	2	3	6	20
4	South Coastal LA County	1	2	3	7	23	1	2	4	8	25
5	Southeast LA County	1	1	2	5	21	1	2	3	6	22
6	West San Fernando Valley	1	1	2	5	19	1	2	2	5	21
7	East San Fernando Valley	1	1	2	5	17	1	2	3	5	18
8	West San Gabriel Valley	1	1	2	5	19	1	2	3	5	20
9	East San Gabriel Valley	1	2	3	6	23	2	2	3	7	25
10	Pomona/Walnut Valley	1	1	2	5	18	1	2	3	5	20
11	South San Gabriel Valley	1	2	3	5	20	2	2	3	6	22
12	South Central LA County	1	1	2	4	17	1	2	3	5	18
13	Santa Clarita Valley	1	1	2	5	18	1	2	2	5	20
15	San Gabriel Mountains	1	1	2	5	18	1	2	2	5	20
16	North Orange County	1	1	3	5	18	1	2	3	6	19
17	Central Orange County	1	1	2	6	21	1	2	3	6	22
18	North Coastal Orange County	1	2	3	6	19	2	2	3	7	20
19	Saddleback Valley	1	1	2	5	17	1	2	3	6	18
20	Central Orange County Coastal	1	2	3	6	19	2	2	3	7	20
21	Capistrano Valley	1	1	2	5	17	1	2	3	6	18
22	Norco/Corona	1	2	3	6	23	2	2	3	6	24
23	Metropolitan Riverside County	1	1	2	5	21	1	2	3	6	22
24	Perris Valley	1	1	2	5	21	1	2	3	6	22
25	Lake Elsinore	1	1	2	5	21	1	2	3	6	22
26	Temecula Valley	1	1	2	5	21	1	2	3	6	22
27	Anza Area	1	1	2	5	21	1	2	3	6	22
28	Hemet/San Jacinto Valley	1	1	2	5	21	1	2	3	6	22
29	Banning Airport	1	2	4	9	38	2	3	5	10	40
30	Coachella Valley	1	2	3	6	26	2	2	3	7	27
31	East Riverside County	1	2	3	6	26	2	2	3	7	27
32	Northwest San Bernardino Valley	1	2	3	8	34	2	2	4	9	36
33	Southwest San Bernardino Valley	1	2	3	8	34	2	2	4	9	36
34	Central San Bernardino Valley	1	2	3	6	24	1	2	3	7	25
35	East San Bernardino Valley	1	2	3	7	27	2	2	4	8	29
36	West San Bernardino Mountains	1	2	3	8	34	2	2	4	9	36
37	Central San Bernardino Mountains	1	2	3	6	24	1	2	3	7	25
38	East San Bernardino Mountains	1	2	3	7	27	2	2	4	8	29

**Table C-5. PM2.5 Emission Thresholds for Operation (Continued)**

SRA No.	Source Receptor Area	Significance Threshold of 2.5 ug/m3 Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site				
		5 Acre				
		25	50	100	200	500
1	Central LA	2	3	5	9	31
2	Northwest Coastal LA County	2	2	4	7	23
3	Southwest Coastal LA County	2	3	5	9	24
4	South Coastal LA County	2	3	5	10	29
5	Southeast LA County	2	3	4	8	25
6	West San Fernando Valley	2	2	3	7	23
7	East San Fernando Valley	2	3	4	7	21
8	West San Gabriel Valley	2	3	4	7	23
9	East San Gabriel Valley	2	3	5	9	28
10	Pomona/Walnut Valley	2	3	4	7	23
11	South San Gabriel Valley	2	3	5	9	25
12	South Central LA County	2	3	4	7	21
13	Santa Clarita Valley	2	2	3	7	23
15	San Gabriel Mountains	2	2	3	7	23
16	North Orange County	2	3	4	8	23
17	Central Orange County	2	3	4	8	27
18	North Coastal Orange County	2	3	5	9	25
19	Saddleback Valley	2	3	4	8	22
20	Central Orange County Coastal	2	3	5	9	25
21	Capistrano Valley	2	3	4	8	22
22	Norco/Corona	2	3	5	9	28
23	Metropolitan Riverside County	2	3	4	8	26
24	Perris Valley	2	3	4	8	26
25	Lake Elsinore	2	3	4	8	26
26	Temecula Valley	2	3	4	8	26
27	Anza Area	2	3	4	8	26
28	Hemet/San Jacinto Valley	2	3	4	8	26
29	Banning Airport	3	4	6	14	46
30	Coachella Valley	2	3	5	9	31
31	East Riverside County	2	3	5	9	31
32	Northwest San Bernardino Valley	2	3	5	11	41
33	Southwest San Bernardino Valley	2	3	5	11	41
34	Central San Bernardino Valley	2	3	5	9	29
35	East San Bernardino Valley	3	3	5	10	34
36	West San Bernardino Mountains	2	3	5	11	41
37	Central San Bernardino Mountains	2	3	5	9	29
38	East San Bernardino Mountains	3	3	5	10	34

**Table C-6. PM2.5 Emission Thresholds for Construction**

SRA No.	Source Receptor Area	Significance Threshold of 10.4 ug/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site									
		1 Acre					2 Acre				
		25	50	100	200	500	25	50	100	200	500
1	Central LA	3	5	10	24	102	5	7	12	28	110
2	Northwest Coastal LA County	3	4	8	18	77	4	5	10	21	82
3	Southwest Coastal LA County	3	5	9	21	75	5	7	12	25	81
4	South Coastal LA County	3	5	10	26	93	5	7	13	30	101
5	Southeast LA County	3	4	8	19	86	4	6	10	22	92
6	West San Fernando Valley	3	4	7	18	79	4	5	9	21	84
7	East San Fernando Valley	3	4	8	18	68	4	6	10	21	73
8	West San Gabriel Valley	3	4	7	18	77	4	5	9	21	82
9	East San Gabriel Valley	3	5	9	22	94	5	7	12	26	100
10	Pomona/Walnut Valley	3	4	7	18	75	4	6	10	21	80
11	South San Gabriel Valley	4	5	9	20	83	5	8	12	24	89
12	South Central LA County	3	4	7	17	70	4	6	9	19	74
13	Santa Clarita Valley	3	4	7	18	74	4	5	9	20	80
15	San Gabriel Mountains	3	4	7	18	74	4	5	9	20	80
16	North Orange County	3	4	9	20	74	4	6	11	24	79
17	Central Orange County	3	4	9	22	85	4	6	11	25	92
18	North Coastal Orange County	3	5	9	22	76	5	7	12	26	83
19	Saddleback Valley	3	4	8	19	68	4	6	10	22	74
20	Central Orange County Coastal	3	5	9	22	76	5	7	12	26	83
21	Capistrano Valley	3	4	8	19	68	4	6	10	22	74
22	Norco/Corona	3	5	9	22	92	5	7	12	25	98
23	Metropolitan Riverside County	3	4	8	20	86	4	6	10	23	91
24	Perris Valley	3	4	8	20	86	4	6	10	23	91
25	Lake Elsinore	3	4	8	20	86	4	6	10	23	91
26	Temecula Valley	3	4	8	20	86	4	6	10	23	91
27	Anza Area	3	4	8	20	86	4	6	10	23	91
28	Hemet/San Jacinto Valley	3	4	8	20	86	4	6	10	23	91
29	Banning Airport	4	7	14	36	156	6	9	17	41	166
30	Coachella Valley	3	5	10	24	105	5	7	12	28	112
31	East Riverside County	3	5	10	24	105	5	7	12	28	112
32	Northwest San Bernardino Valley	4	6	12	32	141	5	8	14	36	150
33	Southwest San Bernardino Valley	4	6	12	32	141	5	8	14	36	150
34	Central San Bernardino Valley	3	5	9	23	98	4	6	12	26	104
35	East San Bernardino Valley	4	5	10	26	112	5	7	13	30	120
36	West San Bernardino Mountains	4	6	12	32	141	5	8	14	36	150
37	Central San Bernardino Mountains	3	5	9	23	98	4	6	12	26	104
38	East San Bernardino Mountains	4	5	10	26	112	5	7	13	30	120

**Table C-6. PM2.5 Emission Thresholds for Construction (Continued)**

SRA No.	Source Receptor Area	Significance Threshold of 10.4 ug/m <sup>3</sup> Allowable emissions (lbs/day) as a function of receptor distance (meters) from boundary of site				
		5 Acre				
		25	50	100	200	500
1	Central LA	8	11	18	36	126
2	Northwest Coastal LA County	6	8	14	29	95
3	Southwest Coastal LA County	8	11	19	35	96
4	South Coastal LA County	8	10	18	39	120
5	Southeast LA County	7	10	15	30	103
6	West San Fernando Valley	6	8	13	26	96
7	East San Fernando Valley	8	10	15	28	86
8	West San Gabriel Valley	7	9	14	27	93
9	East San Gabriel Valley	8	11	17	35	116
10	Pomona/Walnut Valley	7	9	15	28	93
11	South San Gabriel Valley	9	12	19	34	104
12	South Central LA County	7	10	15	27	86
13	Santa Clarita Valley	6	8	13	26	95
15	San Gabriel Mountains	6	8	13	26	95
16	North Orange County	6	9	15	34	95
17	Central Orange County	7	9	15	32	109
18	North Coastal Orange County	9	11	18	35	101
19	Saddleback Valley	8	11	16	30	90
20	Central Orange County Coastal	9	11	18	35	101
21	Capistrano Valley	8	11	16	30	90
22	Norco/Corona	8	11	18	34	113
23	Metropolitan Riverside County	8	10	16	31	105
24	Perris Valley	8	10	16	31	105
25	Lake Elsinore	8	10	16	31	105
26	Temecula Valley	8	10	16	31	105
27	Anza Area	8	10	16	31	105
28	Hemet/San Jacinto Valley	8	10	16	31	105
29	Banning Airport	11	14	25	55	189
30	Coachella Valley	8	11	19	37	128
31	East Riverside County	8	11	19	37	128
32	Northwest San Bernardino Valley	9	12	21	45	170
33	Southwest San Bernardino Valley	9	12	21	45	170
34	Central San Bernardino Valley	8	10	17	35	120
35	East San Bernardino Valley	9	12	20	40	140
36	West San Bernardino Mountains	9	12	21	45	170
37	Central San Bernardino Mountains	8	10	17	35	120
38	East San Bernardino Mountains	9	12	20	40	140



# South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178  
(909) 396-2000 • [www.aqmd.gov](http://www.aqmd.gov)

## Fact Sheet for Applying CalEEMod to Localized Significance Thresholds

This fact sheet describes how construction mitigation measures from the new CalEEMod Land Use Model may be applied to the SCAQMD Localized Significance Threshold (LST) Methodology. The LST Methodology uses lookup tables based on site acreage to determine the significance of emissions for CEQA purposes. However, CalEEMod does not allow the user to mitigate construction emissions by directly modifying acreage disturbed.

CalEEMod calculates construction emissions (off-road exhaust and fugitive dust) based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment. In order to compare CalEEMod reported emissions against the LST lookup tables, the CEQA document should contain in its project design features or its mitigation measures the following parameters:

- 1) The off-road equipment list (including type of equipment, horsepower, and hours of operation) assumed for the day of construction activity with maximum emissions
- 2) The maximum number of acres disturbed on the peak day using the equipment list from above and the following table from the CalEEMod appendix

Equipment Type	Acres/8hr-day
Crawler Tractors	0.5
Graders	0.5
Rubber Tired Dozers	0.5
Scrapers	1

- 3) Any emission control devices added onto off-road equipment
- 4) Specific dust suppression techniques used on the day of construction activity with maximum emissions

### Example 1

A 15-acre development proposes to use one grader, one scraper, and one tractor for eight hours each during Site Preparation activities (the peak day in this case). As the maximum daily disturbed acreage for this equipment is 2 acres ( $0.5+1+0.5=2$ ), the project proponent should compare CalEEMod reported emissions against the 2-acre LST lookup tables.

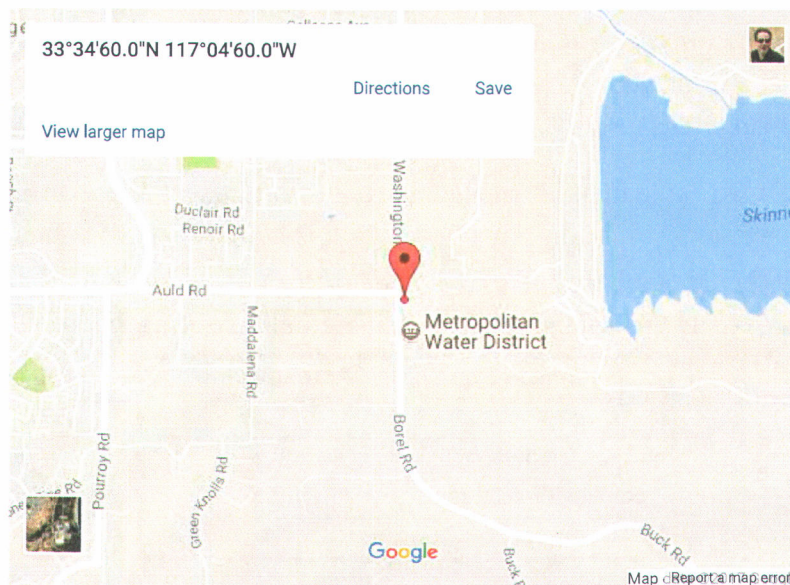
### Example 2

A 1-acre development proposes to use 2 dozers and 2 tractors for eight hours per day each during Grading activities. The total acreage disturbed is 2 acres per day occurring on a 1-acre site (meaning the site is graded twice in one day). In this case, the CalEEMod reported emissions should be compared against the 1-acre LST lookup tables.



# Quality Assurance Air Monitoring Site Information

## Site Information for Temecula - Lake Skinner



[View Larger Map](#)

AQS Number	ARB Number	Site Start Date	Reporting Agency and Agency Code*
060650016	33031	10-07-2010	<a href="#">South Coast AQMD (061)</a>

Site Address	County	Air Basin	Latitude (N)	Longitude (W)	Elevation (m)
33700 Borel Road, Winchester CA 92596	<a href="#">Riverside</a>	<a href="#">South Coast</a>	33.58333	-117.08333	419

**Pollutants Monitored (click on parameter link for AQMIS data)**  
 Note: This page does not necessarily reflect all parameters monitored at a site. Multiple monitors, historical data, and other parameters may be available through the [AQMIS query tool](#).  
[O<sub>3</sub>](#), [BAM<sub>PM2.5</sub>](#), [Outdoor Temperature](#), [Relative Humidity](#), [Wind Direction-Scalar](#), [Wind Direction-Resultant](#), [Wind Speed-Resultant](#), [Wind Speed-Scalar](#)

Site Photos	Photo Sequences	Site Surveys
<input type="button" value="--Select Photos--"/> ▼	<input type="button" value="--Select Position And Direction--"/> ▼	<input type="button" value="--Select Survey--"/> ▼

Other ARB Database Information
<input type="button" value="--Select Database--"/> ▼

*\*Reporting and operating agency may vary at each site, based on monitor and parameter measured.*

[Site Information Menu Top Page](#)

[Quality Assurance Programs](#)

[Search QA Site Information Database](#)

For real-time air quality data visit: [Air Quality and Meteorological Information System \(AQMIS\)](#)

Questions regarding data or the AQMIS search tool should be submitted to:  
**Air Quality and Meteorological Information System (AQMIS)**

*For Air Monitoring Site related inquiries, please contact:*

**Mr. Ranjit Bhullar, Manager**

**Quality Assurance Section**

Fire Station #77 Expansion - Riverside-South Coast County, Annual

**Fire Station #77 Expansion**  
Riverside-South Coast County, Annual

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
Parking Lot	7.00	Space	0.06	2,800.00	0

**1.2 Other Project Characteristics**

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2019

Utility Company Southern California Edison

CO2 Intensity (lb/MW/hr)	702.44	CH4 Intensity (lb/MW/hr)	0.029	N2O Intensity (lb/MW/hr)	0.006
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**1.3 User Entered Comments & Non-Default Data**



Fire Station #77 Expansion - Riverside-South Coast County, Annual

Project Characteristics -

Land Use - based on conceptual design

Construction Phase - Based on anticipated construction schedule

Off-road Equipment - grader added fo grading

Grading - includes rentention basin areas

Land Use Change -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Fire Station #77 Expansion - Riverside-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	100.00	125.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	1.00	9.00
tblConstructionPhase	PhaseEndDate	5/22/2018	8/31/2018
tblConstructionPhase	PhaseEndDate	4/24/2018	8/3/2018
tblConstructionPhase	PhaseEndDate	10/10/2017	2/9/2018
tblConstructionPhase	PhaseEndDate	5/8/2018	8/17/2018
tblConstructionPhase	PhaseEndDate	9/12/2017	1/12/2018
tblConstructionPhase	PhaseStartDate	5/9/2018	8/20/2018
tblConstructionPhase	PhaseStartDate	10/11/2017	2/12/2018
tblConstructionPhase	PhaseStartDate	9/13/2017	1/15/2018
tblConstructionPhase	PhaseStartDate	4/25/2018	8/6/2018
tblConstructionPhase	PhaseStartDate	8/30/2017	1/2/2018
tblGrading	AcresOfGrading	10.00	0.00
tblGrading	AcresOfGrading	4.50	0.50
tblOffRoadEquipment	LoadFactor	0.41	0.41
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblProjectCharacteristics	OperationalYear	2018	2019

2.0 Emissions Summary



Fire Station #77 Expansion - Riverside-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOx (tons/quarter)	Maximum Mitigated ROG + NOx (tons/quarter)
2	11-30-2017	2-27-2018	0.2811	0.2811
3	2-28-2018	5-29-2018	0.3985	0.3985
4	5-30-2018	8-29-2018	0.3514	0.3514
5	8-30-2018	9-30-2018	0.0040	0.0040
		Highest	0.3985	0.3985

**2.2 Overall Operational  
Unmitigated Operational**

Category	tons/yr										MT/yr					
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio-CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Area	0.0145	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.6000e-004	2.6000e-004	0.0000	0.0000	2.8000e-004
Energy	7.0000e-005	6.0000e-004	5.0000e-004	0.0000	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	5.0000e-005	0.0000	12.3210	12.3210	4.9000e-004	1.1000e-004	12.3667
Mobile	0.0107	0.0897	0.1316	5.0000e-004	0.0361	5.6000e-004	0.0366	9.6700e-003	5.3000e-004	0.0102	0.0000	46.4557	46.4557	2.6000e-003	0.0000	46.5208
Waste						0.0000	0.0000		0.0000	0.0000	0.6618	0.0000	0.6618	0.0391	0.0000	1.6395
Water						0.0000	0.0000		0.0000	0.0000	0.1974	3.9305	4.1278	0.0204	5.1000e-004	4.7913
<b>Total</b>	<b>0.0253</b>	<b>0.0903</b>	<b>0.1323</b>	<b>5.0000e-004</b>	<b>0.0361</b>	<b>6.1000e-004</b>	<b>0.0367</b>	<b>9.6700e-003</b>	<b>5.8000e-004</b>	<b>0.0102</b>	<b>0.8591</b>	<b>62.7075</b>	<b>63.5666</b>	<b>0.0626</b>	<b>6.2000e-004</b>	<b>65.3185</b>



Fire Station #77 Expansion - Riverside-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2018	1/12/2018	5	9	
2	Grading	Grading	1/15/2018	2/9/2018	5	20	
3	Building Construction	Building Construction	2/12/2018	8/3/2018	5	125	
4	Paving	Paving	8/6/2018	8/17/2018	5	10	
5	Architectural Coating	Architectural Coating	8/20/2018	8/31/2018	5	10	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.06

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,250; Non-Residential Outdoor: 1,750; Striped Parking Area: 168  
(Architectural Coating – sqft)

OffRoad Equipment

Fire Station #77 Expansion - Riverside-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area