

Letter - R4

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8. **Emissions from Fallowed lands:** No attempt is made by the lead agency to estimate windblown dust emissions that could ensue from the lands that are fallowed. The DEIR states on page 3.7-23, "It is not possible to quantify emissions and associated impacts from potential increases in fallowing of agricultural lands..." This is repeated on page 3.7-30 where the lead agency states, "depending on the amount of land that is fallowed, and the way the land is managed before and during fallowing, the potential exists for fugitive dust impacts." The lead agency goes on to provide a qualitative assessment of the impacts. The lead agency is referred to Section 7.12 of Cal EPA October 1997 Emission Inventory Procedural Manual Volume III for guidance in estimating windblown dust from agricultural lands.

Given the potential for a major windblown dust problem, and given that the Salton Sea Air Basin is designated as a federal serious nonattainment area for PM<sub>10</sub>, it is important that, when implementing fallowing of agricultural lands as a conservation measure, other actions, such as those described in June 1999 SCAQMD Guide to Agricultural PM<sub>10</sub> Dust Control Practices, be considered to mitigate PM<sub>10</sub> emissions. A copy of the Guide is attached.

**Response to Comment R4-10**

Please refer to the Master Response on *Air Quality—Air Quality Issues Associated with Fallowing* in Section 9 of this Final EIR/EIS.

**Response to Comment R4-11**

Please refer to the Master Response on *Air Quality—Air Quality Issues Associated with Fallowing* in Section 9 of this Final EIR/EIS.

**Response to Comment R4-12**

Please refer to the Master Response on *Air Quality—Salton Sea Air Quality Monitoring and Mitigation Plan* in Section 9 of this Final EIR/EIS.

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9. **Best Management Practices (BMPs):** It is stated on page 3.7-31 that "with implementation of one or more of the ...BMPs, impacts would be less than significant." However, no attempt is made by the lead agency to quantify the impacts of the BMPs on project emissions. It is recommended that in the final EIR/EIS, the lead agency should present a table showing project emissions before and after implementation of conservation measures, using the control efficiencies of the mitigation measures, where available. Given the magnitude of potential emissions, it is important that the lead agency provide more detailed information about proposed mitigation measures AQ-2 and AQ-3 not only to facilitate review by the public but also to facilitate implementation and monitoring. If remaining emissions are still significant, other mitigation measures must be proposed and implemented to further reduce the emissions to below significance.

**Response to Comment R4-13**

Refer to the Master Responses on *Air Quality—Salton Sea Air Quality Monitoring and Mitigation Plan* and *Air Quality—Health Effects Associated with Dust Emissions* in Section 9 of this Final EIR/EIS.

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10. **Emissions from lowered Water Levels in the Salton Sea:** On page 3.7-34, fourth paragraph, the lead agency lists four factors that make it difficult to provide reasonable quantitative estimates of emissions and associated impacts from the exposed shoreline. The SCAQMD has taken note of the recommendations made at the April 2002 Salton Sea Science Office Workshop. The recommendations include studies on portable wind tunnel and salt mineralogy, and baseline air quality and meteorological monitoring. The results of these studies and research and recommendations should be incorporated into the appropriate mitigation plans and included in the final EIR/EIS.

**Response to Comment R4-14**

Please refer to the Master Response on *Air Quality—Salton Sea Air Quality Monitoring and Mitigation Plan* in Section 9 of this Final EIR/EIS.

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11. **Health Risks:** The lead agency does not discuss health risks resulting from the exposure to the PM<sub>10</sub> in the windblown dust emissions. The impact on population in the nearby cities of Mecca, Salton City and North Shore should be examined.

R4-14

12. **Soil Systems and Wind Speeds:** In the fourth paragraph on page 3.7-34 and the first and second paragraphs on page 3.7-35 of the DEIR, it is indicated that the soil system at the Salton Sea is different from the soil systems at the Owens and Mono Lakes. The conclusion

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made by the lead agency is that salt crust in the form of chloride and sulfate at the Salton Sea would be more stable and less erosive than at Owens Lake. Please note that stable salt crust will prevent soil erosion for a while, however, the crust cannot permanently cover the eroding soil. Weathering will eventually erode the salt crust, and the soil beneath the crust will become a potential high dust-generating source. Please revise the relevant statements.

R4-15

It is also indicated that the relatively low frequency of high wind events at the Salton Sea would be favorable, and that wind speeds required to initiate the soil erosion is 27 knots (~31 miles/hour) for disturbed playa soils and 40 knots (~46 miles/hr) for undisturbed playa soils. Please note that the wind speed needed to initiate the soil erosion depends on many variables, such as soil type, soil moisture content, etc. At the Owens Lake, the wind speed capable of creating a dust storm condition is only about 17 miles/hr. This wind speed will be more frequent at the Salton Sea. Also only one dust storm could violate the federal PM<sub>10</sub> standard, since emissions from sea bed exposed by this project could not be classified as a natural event (c.f., Owens Valley). Please revise the relevant statements.

**Response to Comment R4-15**

Please refer to the Master Responses on *Air Quality—Salton Sea Air Quality Monitoring and Mitigation Plan* and *Air Quality—Wind Conditions at the Salton Sea* in Section 9 of this Final EIR/EIS.

2000 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

Source/Receptor Area No. Location	Station No.	Suspended Particulates PM10 <sup>(1)</sup>						Suspended Particulates PM2.5 <sup>(2)</sup>				Particulates TSP <sup>(1)</sup>		Lead <sup>(3)</sup>		Sulfate <sup>(2)</sup>		
		No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standard		Annual Averages <sup>(1)</sup>		No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standard		No. Days of Data	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	Max. Monthly Average Conc. in $\mu\text{g}/\text{m}^3$	Max. Quarterly Average Conc. in $\mu\text{g}/\text{m}^3$	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour	No. (%) Samples Exceeding Standard	
				Federal > 150 $\mu\text{g}/\text{m}^3$	State > 60 $\mu\text{g}/\text{m}^3$	AAM Conc. $\mu\text{g}/\text{m}^3$	AGM Conc. $\mu\text{g}/\text{m}^3$			Federal > 65 $\mu\text{g}/\text{m}^3$	AAM Conc. $\mu\text{g}/\text{m}^3$						AAM Conc. $\mu\text{g}/\text{m}^3$	Max. Conc. in $\mu\text{g}/\text{m}^3$ 24-hour
<b>2000</b>																		
<b>Los Angeles County</b>																		
1 Central LA	087	60	80	0	15(25)	40.0	37.0	334	87.8	11(3.3)	22.0	60	127	72.0	0.06	0.05	16.4	0
2 Northwest Coastal LA County	091	--	--	--	--	--	--	--	--	--	--	50	87	48.2	--	--	14.1	0
3 Southwest Coastal LA County	094	57	74	0	9(16)	36.1	33.4	--	--	--	--	51	127	64.8	0.08	0.05	16.2	0
4 South Coastal LA County	072	57	165	0	12(21)	37.5	34.0	304*	81.5*	4(1.3)*	19.2*	51	164	68.2	0.05	0.04	26.7	1
6 West San Fernando Valley	074	--	--	--	--	--	--	108	67.5	2(1.9)	18.1	--	--	--	--	--	--	--
7 East San Fernando Valley	069	60	74	0	14(23)	39.1	36.1	70*	84.4*	3(4.3)*	23.8*	--	--	--	--	--	--	--
8 West San Gabriel Valley	088	--	--	--	--	--	--	110	65.3	1(0.9)	19.3	60	91	49.1	--	--	13.9	0
9 East San Gabriel Valley 1	060	57	94	0	24(42)	46.3	42.5	333	92.5	5(1.5)	20.1	59	157	85.3	--	--	17.2	0
9 East San Gabriel Valley 2	591	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10 Pomona/Walnut	075	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11 South San Gabriel Valley	085	--	--	--	--	--	--	116	89.5	4(3.4)	24.1	57	118	74.7	0.09	0.06	13.1	0
12 South Central LA County 1	084	--	--	--	--	--	--	121	82.1	2(1.7)	23.0	60	167	74.9	0.09	0.06	11.4	0
12 South Central LA County 2	801	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
13 Santa Clarita Valley	089	61	64	0	4(7)	32.7	29.8	--	--	--	--	--	--	--	--	--	--	--
<b>Orange County</b>																		
16 North Orange County	3177	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
17 Central Orange County	3176	61	126	0	8(13)	39.9	35.7	273*	113.9*	6(2.2)*	21.0*	--	--	--	--	--	--	--
18 North Coastal Orange County	3195	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley 1	3166	31*	50*	0*	1(3)*	28.9*	27.4*	--	--	--	--	--	--	--	--	--	--	--
19 Saddleback Valley 2	3812	60	98	0	2(3)	27.8	25.5	119	94.7	1(0.8)	14.7	--	--	--	--	--	--	--
<b>Riverside County</b>																		
22 Norco/Corona	4155	58	129	0	28(48)	49.3	43.4	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	97	139	0	68(70)	60.1	54.7	304*	119.6*	11(3.6)*	28.2*	62	211	115.5	0.06	0.05	11.0	0
23 Metropolitan Riverside County 2	4146	--	--	--	--	--	--	111	79.3	5(4.5)	25.5	63	144	82.8	0.04	0.03	10.2	0
24 Perris Valley	4149	59	87	0	13(22)	41.1	36.8	--	--	--	--	--	--	--	--	--	--	--
25 Lake Elsinore	4158	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
29 Banning Airport	4164	59	89	0	5(8)	29.1	24.7	--	--	--	--	--	--	--	--	--	--	--
30 Coachella Valley 1**	4137	56	44	0	C	24.4	22.7	120	28.5	0	9.6	--	--	--	--	--	--	--
30 Coachella Valley 2**	4157	103 <sup>(k)</sup>	114 <sup>(k)</sup>	0 <sup>(k)</sup>	52(50) <sup>(k)</sup>	51.9 <sup>(k)</sup>	48.4 <sup>(k)</sup>	115	28.6	0	11.2	--	--	--	--	--	--	--
<b>San Bernardino County</b>																		
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	--	--	--	--	--	56	122	69.8	0.07	0.05	11.5	0
33 Southwest San Bernardino Valley	5817	58	124	0	26(45)	50.4	46.3	111	73.4	2(1.8)	24.2	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1	5197	60	108	0	31(52)	52.6	47.1	111	72.9	2(1.8)	24.5	57	180	97.3	--	--	10.7	0
34 Central San Bernardino Valley 2	5203	60	108	0	32(53)	50.1	44.5	102*	89.8*	3(2.9)*	25.4*	59	168	95.4	0.06	0.05	12.4	0
35 East San Bernardino Valley	5204	61	109	0	27(44)	46.0	39.7	--	--	--	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	58	49	0	0	24.0	20.7	--	--	--	--	--	--	--	--	--	--	--
35 East San Bernardino Mountains	5816	--	--	--	--	--	--	68	29.0	0	10.6	--	--	--	--	--	--	--
District Maximum			139	0	68	60.1	54.7		119.6	11	28.2		211	115.5	0.09	0.06	26.7	1

$\mu\text{g}/\text{m}^3$  - Micrograms per cubic meter of air. AAM - Annual Arithmetic Mean AGM - Annual Geometric Mean -- Pollutant not monitored.

\* - Less than 12 full months of data. May not be representative.

\*\* - Salton Sea Air Basin.

e) - PM10 samples were collected every 6 days (every 3 days at Station Numbers 4144 and 4157) using the size-selective inlet high volume sampler with quartz filter media.

f) - PM2.5 federal standard was established effective September 16, 1997. PM2.5 samples were collected every 3 days at all sites except for the following sites: Station Numbers 060, 072, 087, 3176, and 4144 where samples were taken every day, and Station Number 5818 where samples were taken every 6 days.

g) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media.

h) - Federal PM10 standard is AAM > 50  $\mu\text{g}/\text{m}^3$ , and state standard is AGM > 30  $\mu\text{g}/\text{m}^3$ .

i) - Federal PM2.5 standard is AAM > 15  $\mu\text{g}/\text{m}^3$ .

j) - Federal lead standard is quarterly average > 1.5  $\mu\text{g}/\text{m}^3$ , and state standard is monthly average > 1.5  $\mu\text{g}/\text{m}^3$ . No location exceeded lead standards.

k) - Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 2000. The maximum monthly average concentration was 0.46  $\mu\text{g}/\text{m}^3$ , and the maximum quarterly average concentration was 0.34  $\mu\text{g}/\text{m}^3$ , both recorded in Area 5, Southeast Los Angeles County.

l) - The data for the samples collected on high-wind-days (100  $\mu\text{g}/\text{m}^3$  on 4/21/00, 201  $\mu\text{g}/\text{m}^3$  on 5/15/00 and 183  $\mu\text{g}/\text{m}^3$  on 9/21/00) were excluded in accordance with EPA's Natural Events Policy.



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Project proponent acknowledges receipt of year 1999 and 2000 air quality monitoring data for Riverside County.

Response to Comment R4-16

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**2000 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide					Ozone					Nitrogen Dioxide			Sulfur Dioxide							
		No. Days Of Data	Max. Conc. in ppm	Max. Conc. in ppm	No. Days Standard Exceeded <sup>(1)</sup>		No. Days Of Data	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. ppm	No. Days Standard Exceeded			No. Days Of Data	Max. Conc. in ppm	Average Compared to Federal Standard <sup>(2)</sup> AAM in ppm	No. Days Standard Exceeded State <sup>(3)</sup> - 0.25 ppm	No. Days Of Data	Max. Conc. in ppm	Max. Conc. in ppm	Average Compared to Federal Standard <sup>(4)</sup> AAM in ppm	
					≥ 9.5 ppm	≥ 9.0 ppm					> 0.12 ppm	> 0.08 ppm	> 0.09 ppm									1-hour
<b>2000</b>																						
<b>Los Angeles County</b>																						
1	Central LA	087	365	7	6.0	0	0	365	0.14	0.105	0.086	1	4	8	353	0.16	0.0404	0	305*	0.08*	0.010*	0.0009*
2	Northwest Coastal LA County	091	362	6	4.3	0	0	365	0.10	0.079	0.071	0	0	2	361	0.16	0.0273	0	--	--	--	--
3	Southwest Coastal LA County	094	365	9	7.0	0	0	369	0.10	0.075	0.065	0	0	1	384	0.13	0.0275	0	366	0.17	0.017	0.0017
4	South Coastal LA County	072	363	10	5.8	0	0	365	0.12	0.080	0.069	0	0	3	358	0.14	0.0313	0	365	0.05	0.014	0.0015
5	West San Fernando Valley	074	365	11	9.8	1	2	362	0.11	0.084	0.083	0	0	6	385	0.11	0.0285	0	--	--	--	--
7	East San Fernando Valley	069	365	8	6.1	0	0	363	0.15	0.119	0.098	3	11	16	365	0.17	0.0415	0	357	0.01	0.004	0.0001
8	West San Gabriel Valley	068	357	9	7.4	0	0	362	0.16	0.134	0.106	7	14	19	355	0.17	0.0296	0	--	--	--	--
9	East San Gabriel Valley 1	060	365	5	4.9	0	0	365	0.17	0.141	0.109	11	16	32	365	0.15	0.0366	0	--	--	--	--
9	East San Gabriel Valley 2	591	345	4	3.1	0	0	358	0.17	0.148	0.113	11	22	39	349	0.13	0.0290	0	--	--	--	--
10	Pomona/Walnut	075	369	7	4.9	0	0	363	0.15	0.124	0.089	3	5	10	358	0.14	0.0432	0	--	--	--	--
11	South San Gabriel Valley	085	365	7	5.3	0	0	365	0.14	0.114	0.086	2	4	11	365	0.14	0.0366	0	--	--	--	--
12	South Central LA County 1	084	365	13	10.0	2	6	365	0.09	0.064	0.051	0	0	0	360	0.14	0.0388	0	--	--	--	--
12	South Central LA County 2	801	222*	13*	9.5*	1*	3*	222*	0.12*	0.095*	0.085*	0*	4*	4*	221*	0.11*	0.0292*	0*	--	--	--	--
13	Santa Clarita Valley	089	345	6	4.9	0	0	360	0.13	0.101	0.099	1	16	31	360	0.10	0.0246	0	--	--	--	--
<b>Orange County</b>																						
16	North Orange County	3177	364	14	6.1	0	0	364	0.14	0.103	0.085	1	4	8	269*	0.12*	0.0304*	0*	--	--	--	--
17	Central Orange County	3176	360	8	6.8	0	0	364	0.13	0.101	0.075	1	1	9	364	0.13	0.0300	0	--	--	--	--
18	North Coastal Orange County	3195	339*	8*	6.3*	0*	0*	365	0.10	0.087	0.087	1	1	1	352	0.11	0.0205	0	363	0.02	0.008	0.0005
19	Saddleback Valley 1	3166	244*	5*	2.3*	0*	0*	244*	0.13*	0.110*	0.066*	1*	2*	3*	--	--	--	--	--	--	--	--
19	Saddleback Valley 2	3812	305*	4*	3.3*	0*	0*	305*	0.15*	0.129*	0.089*	2*	8*	25*	--	--	--	--	--	--	--	--
<b>Riverside County</b>																						
22	Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23	Metropolitan Riverside County 1	4144	365	5	4.3	0	0	365	0.14	0.113	0.106	3	29	41	298*	0.10*	0.0236*	0*	329*	0.11*	0.041*	0.0008*
23	Metropolitan Riverside County 2	4146	365	9	4.3	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24	Perris Valley	4149	--	--	--	--	--	361	0.16	0.126	0.113	15	41	65	--	--	--	--	--	--	--	--
25	Lake Elsinore	4158	351	4	2.0	0	0	361	0.13	0.109	0.099	1	31	45	360	0.08	0.0175	0	--	--	--	--
29	Banning Airport	4164	--	--	--	--	--	363	0.14	0.111	0.103	4	39	52	365	0.21	0.0237	0	--	--	--	--
30	Coachella Valley 1**	4137	353	3	1.6	0	0	355	0.12	0.105	0.096	0	33	40	337	0.07	0.0178	0	--	--	--	--
30	Coachella Valley 2**	4157	87*	3*	2.1*	0*	0*	354	0.11	0.096	0.089	0	9	43	87*	0.06*	0.0099*	0*	--	--	--	--
<b>San Bernardino County</b>																						
32	Northwest San Bernardino Valley	5175	348	4	2.6	0	0	365	0.18	0.159	0.118	10	19	43	357	0.15	0.0380	0	--	--	--	--
33	Southwest San Bernardino Valley	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34	Central San Bernardino Valley 1	5197	--	--	--	--	--	365	0.17	0.139	0.101	7	16	36	365	0.12	0.0364	0	274*	0.02*	0.010*	0.0018*
34	Central San Bernardino Valley 2	5203	304*	5*	4.3*	0*	0*	365	0.15	0.125	0.111	7	27	48	365	0.10	0.0325	0	--	--	--	--
35	East San Bernardino Valley	5204	--	--	--	--	--	365	0.15	0.133	0.113	11	51	78	--	--	--	--	--	--	--	--
37	Central San Bernardino Mountains	5181	--	--	--	--	--	354	0.18	0.149	0.123	17	73	85	--	--	--	--	--	--	--	--
38	East San Bernardino Mountains	5818	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
District Maximum			14	10.0	2	6		0.18	0.159	0.123	17	73	85		0.21	0.0435	0		0.17	0.041	0.0018	

ppm - Parts Per Million parts of air, by volume. AAM = Annual Arithmetic Mean -- - Pollutant not monitored.  
 \*Less than 12 full months of data. May not be representative.  
 \*\*Saltion Sea Air Basin.

- a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.
  - b) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.
  - c) - The state standards are 1-hour average > 0.25 ppm and 24-hour average > 0.045 ppm. No location exceeded state standards.
  - d) - The federal standard is annual arithmetic mean SO<sub>2</sub> > 0.53 ppm. No location exceeded this standard.
- The other federal standards (3-hour average > 0.53 ppm, and 24-hour average > 0.14 ppm) were not exceeded either.



**South Coast  
Air Quality Management District**  
 21865 East Copley Drive  
 Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

The map showing the locations of source/receptor areas can be accessed via the internet at <http://www.aqmd.gov/smog/areamap.html>. Locations of source/receptor areas are shown on the "South Coast Air Quality Management District Air Monitoring Areas" map available free of charge from SCAQMD Public Information.

**1999 AIR QUALITY  
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

Source/Receptor Area No. Location	Station No.	Carbon Monoxide					Ozone					Nitrogen Dioxide			Sulfur Dioxide						
		No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	No. Days Standard Exceeded <sup>a)</sup>		No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Fourth High Conc. in ppm	No. Days Standard Exceeded			No. Days of Data	Max. Conc. in ppm	Average Compared to Federal Standard <sup>b)</sup> AAM in ppm	No. Days Exceeded State > 0.25 ppm	No. Days of Data	Max. Conc. in ppm	Max. Conc. in ppm	Average Compared to Federal Standard <sup>c)</sup> AAM in ppm
					> 9.5 ppm	> 9.0 ppm					> 0.12 ppm	> 0.08 ppm	> 0.09 ppm								
<b>1999</b>																					
<b>Los Angeles County</b>																					
1 Central LA	087	364	7	6.3	0	0	362	0.13	0.11	0.079	1	2	13	347	0.21	0.0391	0	333*	0.05*	0.010*	0.0023*
2 North West Coastal LA County	091	362	6	3.6	0	0	365	0.12	0.00	0.060	0	0	4	359	0.13	0.0291	0	--	--	--	--
3 Southwest Coastal LA County	094	361	10	8.4	0	0	362	0.15	0.09	0.066	1	1	1	356	0.13	0.0295	0	363	0.09	0.020	0.0040
4 South Coastal LA County	072	358	7	6.4	0	0	362	0.13	0.08	0.068	1	0	3	359	0.15	0.0342	0	360	0.05	0.011	0.0027
6 West San Fernando Valley	074	365	9	7.6	0	0	365	0.10	0.09	0.081	0	1	5	354	0.12	0.0287	0	--	--	--	--
7 East San Fernando Valley	069	367	9	5.0	0	0	362	0.12	0.10	0.084	0	3	13	343	0.18	0.0466	0	346	0.01	0.003	0.0001
8 West San Gabriel Valley	088	356	9	6.6	0	0	361	0.12	0.10	0.086	0	4	15	362	0.16	0.0379	0	--	--	--	--
9 East San Gabriel Valley 1	060	336*	5*	3.9*	0*	0*	339*	0.14*	0.10*	0.095*	2*	5*	24*	327*	0.16*	0.0390*	0*	--	--	--	--
9 East San Gabriel Valley 2	591	--	--	--	--	--	362	0.14	0.11	0.096	3	8	26	357	0.14	0.0328	0	--	--	--	--
9 Pomona/Walnut	075	356	10	6.7	0	0	358	0.14	0.10	0.089	2	10	19	346	0.16	0.0503	0	--	--	--	--
11 South San Gabriel Valley	085	363	7	5.6	0	0	363	0.12	0.10	0.080	0	2	6	333*	0.16*	0.0391*	0	--	--	--	--
12 South Central LA County 1	084	361	19	11.0	8	10	363	0.12	0.06	0.041	0	0	1	343	0.18	0.0428	0	--	--	--	--
12 South Central LA County 2	801	349	19	11.7	6	6	342*	0.16*	0.09*	0.083*	1*	2*	6*	148*	0.16*	0.0404*	0*	--	--	--	--
13 Santa Clarita Valley	069	356	7	3.6	0	0	357	0.12	0.10	0.095	0	13	18	141*	0.10*	0.0284*	0*	--	--	--	--
<b>Orange County</b>																					
16 North Orange County	3177	364	11	5.3	0	0	365	0.12	0.09	0.078	0	1	6	364	0.16	0.0251	0	--	--	--	--
17 Central Orange County	3176	123*	8*	5.3*	0*	0*	157*	0.10*	0.08*	0.061*	0*	0*	1*	154*	0.12*	0.0327*	0*	--	--	--	--
18 North Coastal Orange County	3195	359	8	6.4	0	0	350	0.10	0.08	0.070	0	0	1	347	0.12	0.0269	0	363	0.02	0.008	0.0007
19 Saddleback Valley 1	3166	365	4	2.5	0	0	361	0.10	0.08	0.071	0	0	2	--	--	--	--	--	--	--	--
19 Saddleback Valley 2	3312	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
<b>Riverside County</b>																					
22 Norco/Corona	4155	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
23 Metropolitan Riverside County 1	4144	354	7	4.4	0	0	359	0.14	0.11	0.104	3	27	38	354	0.13	0.0255	0	358	0.03	0.011	0.0014
23 Metropolitan Riverside County 2	4145	300*	7*	4.1*	0*	0*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
24 Perris Valley	4149	--	--	--	--	--	365	0.11	0.10	0.091	0	7	10	--	--	--	--	--	--	--	--
25 Lake Elsinore	4158	--	--	--	--	--	360	0.14	0.13	0.106	4	37	51	334*	0.11*	0.0200*	0	--	--	--	--
29 Banning Airport	4164	--	--	--	--	--	358	0.14	0.13	0.114	5	33	56	361	0.31	0.0243	1	--	--	--	--
30 Coachella Valley 1**	4137	350	3	1.8	0	0	349	0.13	0.11	0.098	1	21	27	350	0.07	0.0195	0	--	--	--	--
30 Coachella Valley 2**	4157	--	--	--	--	--	358	0.13	0.11	0.089	1	7	13	--	--	--	--	--	--	--	--
<b>San Bernardino County</b>																					
32 Northwest San Bernardino Valley	5175	--	--	--	--	--	361	0.15	0.12	0.103	4	17	29	357	0.13	0.0398	0	--	--	--	--
33 Southwest San Bernardino Valley 1	5171	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
33 Southwest San Bernardino Valley 2	5817	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
34 Central San Bernardino Valley 1	5197	--	--	--	--	--	365	0.14	0.10	0.098	4	16	26	343	0.15	0.0388	0	355	0.01	0.016	0.0018
34 Central San Bernardino Valley 2	5203	358	5	4.0	0	0	355	0.16	0.13	0.115	14	31	45	355	0.14	0.0358	0	--	--	--	--
35 East San Bernardino Valley	5204	--	--	--	--	--	365	0.15	0.13	0.115	12	39	59	--	--	--	--	--	--	--	--
37 Central San Bernardino Mountains	5181	--	--	--	--	--	365	0.17	0.14	0.133	30	90	93	--	--	--	--	--	--	--	--
District Maximum			19	11.7	8	10		0.17	0.14	0.133	30	90	93		0.31	0.0503	1		0.09	0.020	0.0040

ppm - Parts Per Million parts of air, by volume. AAM = Annual Arithmetic Mean -- Pollutant not monitored.  
 \*Less than 12 full months of data. May not be representative.  
 \*\*Salton Sea Air Basin.  
 a) - The federal 1-hour standard (1-hour average CO > 35 ppm) and state 1-hour standard (1-hour average CO > 20 ppm) were not exceeded.  
 b) - The federal standard is annual arithmetic mean NO<sub>2</sub> greater than 0.0534 ppm. No location exceeded this standard.  
 c) - The state standards are 1-hour average > 0.25 ppm and 24-hour average > 0.04 ppm. No location exceeded state standards.  
 d) - The federal standard is annual arithmetic mean SO<sub>2</sub> greater than 80 µg/m<sup>3</sup> (0.03 ppm). No location exceeded this standard.  
 The other federal standards (3-hour average > 0.50 ppm, and 24-hour average > 0.14 ppm) were not exceeded either.


**South Coast  
Air Quality Management District**  
 21865 East Copley Drive  
 Diamond Bar, CA 91765-4182  
<http://www.aqmd.gov>

You can access the map showing the locations of source/receptor areas via the Internet at <http://www.aqmd.gov/smog/areamap.html>. The locations of source/receptor areas are shown in detail in the map "South Coast Air Quality Management District Air Monitoring Areas" available free of charge from SCAQMD Public Information.

1999 AIR QUALITY SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

1999

Table with columns for Source/Receptor Area, Station No., Suspended Particulates PM10, Suspended Particulates PM2.5, Particulates TSP, Lead, and Sulfate. Includes data for Los Angeles County, Orange County, Riverside County, and San Bernardino County.

µg/m³ - Micrograms per cubic meter of air. AAM - Annual Arithmetic Mean. AGM - Annual Geometric Mean. -- - Pollutant not monitored. \* - Less than 12 full months of data. May not be representative. \*\* - Salton Sea Air Basin. g) - PM2.5 federal standard was established effective September 16, 1997. PM2.5 samples were collected every 3 days using the size selective inlet high volume sampler. j) - Total suspended particulates, lead, and sulfate were determined from samples collected every 6 days by the high volume sampler method, on glass fiber filter media. Federal TSP standard superseded by PM10 standard, July 1, 1997. h) - Federal PM10 standard is AAM > 50 µg/m³, state standard is AGM > 30 µg/m³. i) - Federal PM2.5 standard is AAM > 15 µg/m³. j) - Federal lead standard is quarterly average > 1.5 µg/m³, state standard is monthly average > 1.5 µg/m³. No location exceeded lead standards. Special monitoring immediately downwind of stationary sources of lead was carried out at four locations in 1999. The maximum monthly average concentration was 0.29 µg/m³, recorded in Area 5, Southeast Los Angeles County, and the maximum quarterly average concentration was 0.23 µg/m³, recorded in Area 1, Central Los Angeles.





South Coast Air Quality Management District

# Guide To Agricultural PM10 Dust Control Practices



June 1999

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**Response to Comment R4-17**

Project proponent acknowledges receipt of "Guide to Agricultural PM10 Dust Control Practices" (SCAQMD 1999).