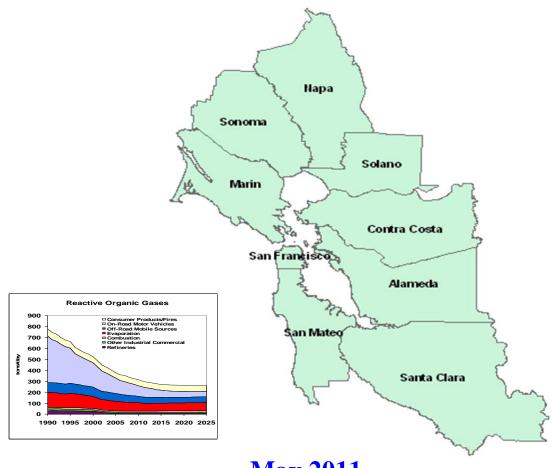


Base Year 2008 Bay Area Emissions Inventory Summary Report



May 2011

939 Ellis Street, San Francisco, California 94109

EMISSIONS INVENTORY SUMMARY REPORT

BASE YEAR 2008

BAY AREA AIR QUALITY MANAGEMENT DISTRICT

May 17, 2011

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INTRODUCTION

This document summarizes the most recent emissions inventory for the Bay Area Air Quality Management District.

The emissions inventory is an important tool for developing strategies to improve air quality. The inventory provides information on the location, magnitude, and relative contribution of pollutant emissions in an air basin. The Bay Area emissions inventory is used by the District in air quality planning to develop emission control programs to attain clean air goals. The inventory also serves as a source of information to the general public, government agencies, developers, consultants, planners, and others engaged in studies related to air pollution.

In addition to this Summary Report, another related document, "Bay Area Emissions Inventory Source Category Methodologies" gives a detailed description of the methodologies used to develop this inventory. The latter publication is due for release in June 2011. Please see Page 6 of this Summary Report for obtaining additional information.

SUMMARY

The Base Year 2008 Inventory consists of emissions inventory estimates for the year 2008, plus historical and future year emission projections for the period 1990 through 2025. This inventory replaces the District's previous comprehensive emissions inventory, the Base Year 2005 Emissions Inventory. The 2008 emissions inventory, covering over 800 source categories, is a detailed accounting of emission sources. All current, past, and future emissions have been reviewed or recalculated using the best available emission factors and methodologies. The results may show certain changes from earlier published inventories. Readers should note that emission rates shown are estimates-based on tests, published emission factors, and engineering calculations. Inventory estimates are subject to change as new data and improved methodologies become available.

- General Statistics for the Bay Area and individual counties are in Tables 1 and 2.
 These include population, area, vehicle population; estimated vehicle miles travelled (VMT) and total gasoline sales.
- Emissions Summary and the percent contribution from 7 main source categories are shown in Tables 3 and 4 respectively. The latter shows that on-road motor vehicles produce about 33% of Reactive Organic Gases (ROG) and 43% of Nitrogen Oxides (NO_x) emissions and therefore remain the single largest source of the ozone precursor emissions in the Bay Area. Off-road mobile sources are also important sources of ozone precursors, particularly of NO_x. Included in the Dust Sources are two source categories of Particulate Matter less than 2.5 microns in diameter (PM_{2.5}) emissions: road dust produced by on-road motor

vehicles traveling on paved and unpaved roads (7% of total), and construction and farming operations (6% of total). Combustion from stationary sources, off-road mobile sources and on-road motor vehicles are major sources of $PM_{2.5}$. Note that these are direct emissions only and do not include secondary $PM_{2.5}$ such as ammonium nitrate and ammonium sulfate. On-road motor vehicles are also major contributor to Carbon Monoxide (CO) emissions, accounting for 62% of the regional emissions.

- Detailed daily 2008 annual average emissions for the District are shown in Table
 5.
 - On-road motor vehicle emissions in this report were obtained from the California Air Resources Board (CARB) EMFAC2007 model, Version 2.3 (Released November 2006). Travel data, compiled by the Metropolitan Transportation Commission (MTC) for their 2030 Regional Transportation Plan (RTP2030), were incorporated into the EMFAC2007 model, to better represent Bay Area traffic patterns and projected VMT growth.
 - Since the release of EMFAC2007, a number of regulations have been passed by CARB affecting on-road motor vehicles, particularly medium and heavy duty diesel trucks with gross vehicle weights over 14,000 lbs. The effects of these changes were incorporated into this inventory by developing control factors using CARB's appropriate staff reports. These regulations affect future emissions. Detailed description of the changes is given under the Emissions Trends section below.
 - ➢ A review of available data on diesel fuel consumption in the Bay Area for off-road equipment showed that consumption was considerably lower than diesel fuel usage projected by the CARB's OFFROAD2007 model. As a result, off-road diesel construction equipment emission estimates have been reduced by 50% from the previous base year estimates. CARB staff is currently updating the statewide off-road diesel equipment inventory also with much lower emissions than the OFFROAD20007. The updated estimates were not available to be incorporated into this inventory.
 - ➤ Ship and boat emission estimates have changed since previous base year. CARB has revised the methodology to calculate emission from ships and boats. For ships, the new inventory increases the specificity of the earlier base year inventory by including vessel specific characteristics and port call specific activity data. Emissions were calculated by estimating ship emissions on a ship by ship and a port call by port call basis, using actual ship engine power estimates, speeds, and actual ship berthing times where possible. Base year emissions were forecasted using a set of growth factors specific to

each port and each ship type. Likewise, for boats, emissions were calculated based on data collected from CARB's 2004 Statewide Commercial Harbor Craft Survey. This survey collected information on an owner's boat with regards to boat type, home port, engine characteristics, hours of operation, annual fuel usage, etc. This information along with other studies such as emission inventories developed for the Port of Los Angeles and Long Beach and ARB OFFROAD model were used to estimate emissions for boats. Both the ship and boat emission are taken from the CARB database, with the exception of cruise ship berthing emissions which were taken from the 2005 Bay Area Seaports Air Emissions Inventory Report.

- Wood smoke emissions have been revised in BY08 to incorporate the District's Regulation 6, Rule 3 which limits emissions of particulate matter (PM) and visible emissions from wood-burning devices. The reduction takes into account no burn spare the air days issued by the District within the 4-month period (November-February). Average numbers were used to forecast future reductions and compliance is estimated based on modeling data.
- Architectural coating emissions have been revised with data from CARB's 2005 Architectural Coating Survey. A new method for estimating ROG emissions from thinning solvents, cleanup solvents, and additives was also developed which provides a more accurate estimate of emissions. In 2008, the emissions from these sources were approximately 4.0 tons/day, about 1.3 tons/day higher than previous estimates.
- ➤ A new methodology from EPA was used to estimate PM emissions from vehicular travel on paved roads. This methodology results in significantly lower estimates of PM₁₀ and PM₂₅ emissions compared with previous estimates. For example, for 2008 PM₁₀ and PM₂₅ emissions are 49 tons per day and 7 tons per day lower than previous estimates.
- Summer and winter emissions inventories are shown in Tables 6 and 7 on Pages 10 and 11 respectively. Summer emissions are used for Ozone planning and winter emissions for PM planning. Emissions are higher in the summer for certain pollutants, for example evaporative ROG emissions, and higher in winter for other pollutants, such as PM₁₀ emissions from fireplaces.
- Emission trends (1990-2025) for PM₁₀, PM_{2.5}, ROG, NO_x, SO₂ and CO are shown in Figure 2 on Page 12. Please refer to the Discussion section on Page 4 for more details.

- Charts of county emissions as a percentage of the total Bay Area emissions by pollutants are shown in Figure 3 on Page 13. Note that refinery operation in Contra Costa county and shipping activities in Alameda, San Francisco, San Mateo and Marin counties cause large SO2 emissions in those counties.
- Tabulated 2008 emissions for each of the nine counties are shown in Tables 8-16, Pages 14-22.
- Projected 2011 District emissions are shown in Table 17 on Page 23. Emission reductions are over 10% for ROG, NOx, and CO. SO₂ emissions drop significantly by 28% due to CARB's Low Sulfur Fuel regulation. Modest reductions of PM₁₀ and PM_{2.5} are also expected.
- Emissions from major emitting stationary sources are shown on Table 18 Page 24-26.

DISCUSSION OF EMISSION TRENDS

Charts of historical and projected future emissions in Figure 2 show the combined effects of growth and regulatory controls. Projected emissions are based on the assumption that the Bay Area population and economy will grow. The projected growth is based on various estimates, including data from the Association of Bay Area Governments (ABAG) Projections 2009 and past trends.

- ROG emissions have declined significantly due to BAAQMD regulatory controls
 on industrial sources such as petroleum refining, surface coating and solvent
 use. CARB regulations on mobile sources have also significantly reduced ROG
 emissions. On-road motor vehicle emissions have declined over the years
 despite annual increases in Vehicle Miles Travelled (VMT). This is due to the
 fleet turnover. Introduction of Reformulated Gasoline Phase II (RFGII) in 1996
 and the introduction of Enhanced Inspection and Maintenance program (Smog
 Check II) in the Bay Area which starting in October 2004 have resulted in further
 reduction.
- ROG emissions will continue to decline by an average of 1.6% per year until 2020. This is due to continuing turnover of the vehicle fleet and associated benefits of CARB's on-road motor vehicle regulations. Other state-mandated regulations, including those on off-road mobile sources and consumer products, together with District regulations on stationary sources, also contribute to ROG emission reductions. For example, in 2011 and 2012, District Regulations on some Architectural Coatings apply. These regulations are based on CARB's 2007 Suggested Control Measures (SCM) on Architectural Coatings. In 2011, there is an approximate 4 tons/day decrease in ROG emissions, and in 2012, a 1.6 tons/day decrease.

- After 2020, ROG emissions are projected to stay flat and then increase very slightly in 2025. This projection is based on regulations in place as of January 1, 2010. However, with the introduction of additional regulations, further reductions are expected to occur.
- NO_x emission reductions prior to 2008 were due to District regulations on combustion sources including refineries and power plants and tighter emission controls on motor vehicles. Smog Check II, mentioned above, was introduced in the Bay Area in 2004 and resulted in reductions of NO_x, as these emissions are measured during the test and failing vehicles have to be repaired.
- NO_x emissions from on-road motor vehicles will continue to decline due to fleet turnover. CARB's aggressive regulation on on-road heavy duty diesel trucks, buses and construction equipment will continue to reduce NO_x and diesel particulate emissions. Estimates of emission reductions due to these regulations are incorporated in the future year emissions.
- It is estimated that construction sector activity decreased by about 12% between 2008 and 2011 due to the economic recession. The impact of this decrease is reflected in the inventory. It is assumed that this activity will increase at a slow rate beginning 2011.
- Total NO_x emissions are expected to decline by an average of about 2.0% per year until 2022. After 2022, NO_x emissions are projected to increase. The increases are mainly due to projected increase in shipping activities in the Bay Area. However, with the introduction of additional regulations currently being considered by CARB, further reductions will occur. Additional BAAQMD regulations on stationary sources will also further reduce NO_x emissions.
- \bullet Sharp increases in PM₁₀ and PM_{2.5} emissions are usually associated with wildfires in those years.
- Fluctuations in PM₁₀ and PM_{2.5} emissions also follow construction activity. For example, the mid-nineties show a steady increase in those emissions.
- CARB's regulations on on-road heavy duty diesel trucks, buses and construction equipment mentioned above resulted in lower PM₁₀ and PM_{2.5} beginning 2008.
- PM₁₀ and PM_{2.5} emissions show modest increases of about 1.0% and 0.5% respectively per year from 2008. This is mainly due to expected growth in industrial activity, domestic combustion, mobile source activity and VMT.
- There were large reductions of SO₂ emissions in 2002 and 2003 attributed to a voluntary decrease in flaring activities by refineries. SO₂ emissions decreased further in 2004 due to the implementation of a Flare Monitoring Rule passed in 2003.

- Flare emissions of SO₂ are assumed to grow in line with other refinery emissions of approximately 1% per annum. This growth is based on the assumption that refineries will continue to operate at normal conditions while increasing output to meet the growing demand for fuel.
- Overall, SO₂ emissions are expected to increase by approximately 3.3% per year mainly due to increased off-road motor vehicles usage, particularly ships.
- CO emissions have decreased significantly, and are expected to continue to decline, due to continued turnover of the vehicle fleet.

As new controls from the Bay Area 2010 Multi-Pollutant Plan and regulations by CARB and EPA are adopted and implemented, further emission reductions will be achieved from the baseline emissions shown in these graphs. Currently, all stationary source measures adopted by the District as of January 1, 2010 are included in these projections.

ADDITIONAL INFORMATION

- Additional inventory information is available on the BAAQMD website: http://www.baaqmd.gov/pln/emission_inventory.htm
- Please contact Michael Nguyen at 415-749-5116 or mnguyen@baaqmd.gov to obtain more information on the "Bay Area Emissions Inventory Source Category Methodologies".

More detailed emissions data are available to the public upon request. Annual average, summer and winter emissions for years 1990 through 2025, on a regional basis only, are also available for all source categories. Some public requests may involve a charge; this is usually the case if significant staff time, copying, or computer work is required. For more information contact: Amir Fanai at (415) 749-4649 or afanai@baagmd.gov

Table 1 General Statistics San Francisco Bay Area Trends in Population, Number of Vehicles and Vehicle Miles Travelled

All in Millions	1990	1995	2000	2005	2010	2015	2020	2025
Population ¹	5.883	6.250	6.618	6.916	7.152	7.480	7.814	8.155
Number of Vehicles ¹	3.935	4.274	4.710	4.928	5.288	5.744	6.141	6.566
Daily VMT ²	132.6	141.2	155.0	163.2	169.9	182.7	193.8	206.3

Table 2 2008 County Statistics

County	Population	Area	(Square	Miles)	Natural Gas Usage (cu.ft.)	Gasoline Usage (gallons)	Number of Vehicles	Daily VMT
	(Millions)	Land	Water	Total	Millior	ns/day	(Milli	ions)
Alameda	1.532	738	84	822	124	1.781	1.145	38.413
Contra Costa	1.064	720	82	802	459	1.058	0.782	25.918
Marin	0.255	520	308	828	21	0.368	0.209	6.215
Napa	0.137	754	35	789	11	0.153	0.142	4.568
San Francisco	0.804	47	185	232	91	0.441	0.414	12.566
San Mateo	0.729	449	292	741	68	0.851	0.586	19.724
Santa Clara	1.798	1,291	13	1,304	236	1.941	1.282	40.572
Solano ¹	0.308	370	64	434	43	0.595	0.212	7.253
Sonoma ¹	0.431	664	4	668	9	0.526	0.344	10.604
TOTAL	7.058	5,553	1,067	6,620	1,061	7.714	5.117	165.8

¹⁾ Within District Jurisdiction

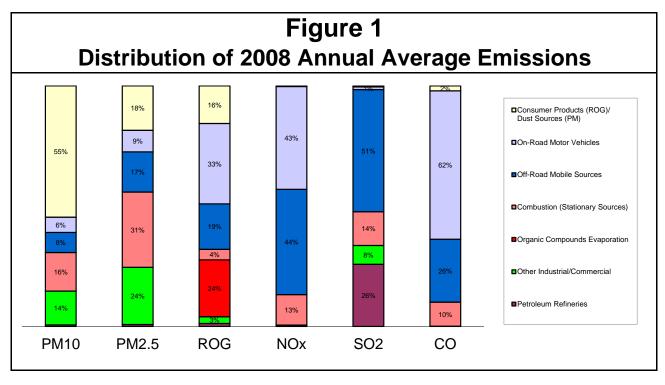
²⁾ Vehicle Miles Travelled Based on CARB's EMFAC2007 version 2.3 (November 2006)

Table 3 Emissions Summary San Francisco Bay Area Total 2008 Average Daily Emissions (tons/day)

Particulate Matter<10 Microns (PM10)	Particulate Matter<2.5 Microns (PM2.5)	Reactive Organic Gases (ROG)	Nitrogen Oxides (NOx)	Sulfur Dioxide (SO2)	Carbon Monoxide (CO)
(1.141.10)	(1 W.Z.3)	(1100)	(1407)	(002)	(55)
151	74	334	449	82	1723

Table 4
Distribution of 2008 Annual Average Emissions

			Per	cent		
Major Source Category	PM10	PM2.5	ROG	NOx	SO2	CO
Petroleum Refining Processes	1	1	1	0	26	
Other Industrial/ Commercial Processes	14	24	3	0	8	
Organic Compounds Evaporation			24			
Combustion	16	31	4	13	14	10
Off-Road Mobile Sources	8	17	19	44	51	26
On-Road Motor Vehicles	6	9	33	43	1	62
Consumer Products/Dust Sources/Fires	55	18	16	0	0	2
GRAND TOTAL	100	100	100	100	100	100



Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

Bay Area Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	erage Em	NOx	SO2	CC
	FIVITU	FIVI∠.3	RUU	NUX	302	
PETROLEUM REFINING PROCESSES						
Petroleum Refining		::::::::0:6:::	0.1	0.4	20.5	
Other Refining Processes	: : : : : : : : : : : : : : :	· · · · · · · · · 1 - · · ·	3.7	0.2	0.7	: : : : 1.
Fugitives			0.3			
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.4	1.7	6.2	0.
Food, Wine and Agricultural Processes	14.7	13.6	3.1			0.
Metallurgical and Mineral Processes	4.0	2.5	0.2	0.3	0.2	0.
Gas and Oil Production Fields			0.1			-
Waste Management	1.2	0.5	3.0			-
Semiconductor Manufacturing and Other Processes	0.9	0.5	1.6			-
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries	::::::::::::::::::::::::::::::::::::::	::::::::::::::::::::::::::::::::::::::	4.3			: : : : : : : : : : : : : : : : : : :
Natural Gas Distribution	:::::::::::::::::::::::::::::::::::::::	::::::::	0.6	: : : : : : : : : : : : : : : : : : : :	:::::::::::::::::::::::::::::::::::::::	: : : : : : <u>:</u>
Bulk Plants	::::::::::::::::::::::::::::::::::::::		1.4			: : : : : : : <u>-</u>
Gasoline Filling Stations		: <u></u>	5.9		· · · · · · · · · · · · · · · · · · ·	: : : : : : : : : :
Aircraft, Boats and Other Refueling		:	3.1			: : : : : : : <u>-</u>
Solvent Cleaning		· · · · · · · · · · · · · · · · · · ·	::::::::::6.3::::			: : : : : <u>.</u>
Dry Cleaners			0.5			
Printing			5.1			
			9.1			
Adhesives and Sealants	· · · · · · · · · · · · · · · · · · ·	:::::::::: !	22.1	· · · · · · · · · · · · · · · · · · ·		:::::: <u>-</u>
Structures Coating		: 				:::::: -
Industrial/Commercial Coatings		· · · · · · · · · · · · · · · · · · ·	::::::::1:0.8::::			
Other Evaporation	-1-1-1-1-1-1-1-1 -1- 1-1-1-1	1-1-1-1-1-1-1- 1- 1-1-1-	9.9:			:::::: -
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	19.0	18.0	8.8	14.1	0.6	134.
Cogeneration	0.7	0.7	1.9	3.9	0.3	6.
Power Plants	0.3	0.3		8.0		1.
Refineries	1.5	1.5	1.0	12.5	8.2	5.
Other Fuels Combustion	2.0	2.0	2.3	25.1	2.4	20.
Waste Burning and Incineration	0.6	0.6	0.5	0.5		4.
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	8.0:	:::8:0:8::	::::::::1:8.9::::	7.4		::::120.
Industrial Equipment	0.5	0.5	2.7	15.0	::::::::::::::::::::::::::::::::::::::	:::::61.
Light Commercial Equipment	0.7	0.7	6.0	7.3		90.
Oil Drilling Equipment			0.1	1.8		0.
Farm and Construction Equipment	2.7	2:6	7.5	45.8		:::::36.
Locomotives	0.3	0.3	1.0	12.3	0.2	2.
Off-Road:Motorcycles and 4-Wheel:Drives:		: <u></u>	1.0:	<u></u>	: : : : : : <u></u> : : :	5
Ships and Boats	7.3	7.2	21.9	89.5	41.1	96
Commercial Aircraft/Ground Support Equipment	0.2		2.6		0.2	:::::20.
General Aviation & Agricultural Aircraft			0.6	0.2		13.
Military Aircraft	0.1	0:1	0.7	1.7		1.
ON-ROAD MOTOR VEHICLES					111111177111	111111111111111111111111111111111111111
	E 0	2.5	94.0	70.6	0.7	016
Passenger Cars/Light Duty Trucks<6000lbs	5.8	3.5	84.9	78.6		816.
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	12.8	47.3	0.2	127.
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.2	1.9	5.6	62.7		41
Motor-Homes			0.3	1.2		8
Motorcycles	 .*.*.*.*.*.*.*.*.*		7.8	2.0	 	69.
MISCELLANEOUS						
Construction and Farming Operations	39.1	4.6	5.2			.
:: Paved and Unpaved Road Dust: :::::::::::::::::::::::::::::::::::	: : : : : : : : : : : : : : : : : : : :	::::::::5:2:::	: : : : : : : : : = : : : :			: : : : : : :
Pesticides			5.9			
Consumer Products (Excluding Pesticides)		· · · · · · · · · · · · · · · · · · ·	38.9:::			:::::::
Accidental Fires/Cigarette Smoking	4.3	3:9::	2.1	1.2	0.3	:::::35
		<u> </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u></u>	<u>:::::</u> :
GRAND TOTAL EMISSIONS	151	74	334	449	82	172

9

The symbol -- means less than 0.1 tons/day

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

Bay Area Summer Emissions tons/day

		Summer	Emissi	ons tons	/day	
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CC
PETROLEUM REFINING PROCESSES						
Petroleum Refining		0.6		0:4	20.5	· · · · · · · · · · · ·
Other Refining Processes	:	: : : : : : : - : : : :	3.7	0.2	0.7	: : : : :1.
Fugitives	::::::::::: :- ::::		0.3			::::::: :
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						_
Chemical Manufacturing Processes	0.5	0.5	1.5	1.7	6.3	0.
Food, Wine and Agricultural Processes	17.0	15.7	3.2			0.
Metallurgical and Mineral Processes	4.5	2.8	0.2	0.3	0.2	0.
Gas and Oil Production Fields			0.1			-
Waste Management	1.2	0.5	3.0			•
Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION	0.9	0.6	1.6	 	 	
Loading, Blending, Storage at Refineries	· · · · · · · · · · · · · · · · · · ·	::::::::::::::::::::::::::::::::::::::	4.3 0.4	::::::: . :::::	· · · · · · · · · · · · · · · · · · ·	
Natural Gas Distribution	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
Bulk Plants Gasoline Filling Stations	· · · · · · · · · · · · · · · · · · ·		1.4 6.0			
Aircraft, Boats and Other Refueling			3.3	:::::::: : :::::	:::::: <u>:</u> :::::	
Solvent Cleaning		· · · · · · · · · · · · · · · · · · ·	6.7			
Dry Cleaners			0.5			
Printing			5.1			
Adhesives and Sealants	: : : : : : : : : : : : : : : : : : :		9.1			
Structures Coating			23.2			
Industrial/Commercial Coatings	<u>.</u>				::::: <u>:</u> ::::	
Other Evaporation			10.1			
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	6.2	5.9	3.0	6.8	0.3	43
Cogeneration	0.7	0.7	1.9	3.9	0.3	6
Power Plants	0.3	0.3		0.9		1.
Refineries	1.6	1.6	1.0	12.7	8.2	5.
Other Fuels Combustion	2.0	2.0	2.4	25.8	2.4	20.
Waste Burning and Incineration	0.6	0.6	0.4	0.5		3.
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	8.0::::	::::0:8:::	:::::20.9::::	7.7		::::133
Industrial Equipment	0.6	0.6	3.1	16.9		:::::68
Light Commercial Equipment	8.0	0.8	6.7	8.2	: : : : : : : : : : :	101
Oil Drilling Equipment	::::::::::::::::::::::::::::::::::::::		:::::::::::::::::::::::::::::::::::::::	::::::::2:0::::	:::::::::::::::::::::::::::::::::::::::	::::::0
Farm and Construction Equipment	3.0	2.9	8.4	51.1		:::::41
Locomotives	0.3	0.3	1.0	12.3	0.2	2
: Off-Road:Motorcycles and 4-Wheel:Drives:			: : : : : : : : : : : : : : : : : : : :		:::::::: :: :::::	::::::5
Ships and Boats	8.0	7.9	29.8	95.3	41.6	134
Commercial Aircraft/Ground Support Equipment	0.2	0.2	2.7	15.8	0.3	21
General: Aviation & Agricultural Aircraft:			: : : : : : : : : : : : : : : : : : : :	:::::::0:2::::		:::::17
Military Aircraft	0.1	0.1	0.7	1.7		: : : : : : 1
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.8	3.5	91.7	75.0	0.7	817
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	12.2	46.9	0.2	118
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.2	1.9	5.4	63.6		38
Motor-Homes			0.3	1.2		8
Motorcycles	 .*.*.*.*.*.*.*.*.*.*.*.*.		8.1	1.9		65
MISCELLANEOUS						
Construction and Farming Operations	41.1	4.8	5.2			
Paved and Unpaved Road Dust	:::::::::48.0:::	6.2		: : : : : : : : - : : : : :	::::::: :: ::::	
Pesticides			6.2			
Consumer Products (Excluding Pesticides)			39.1			
Accidental Fires/Cigarette Smoking	7.2	6:5	3.9:::	2.2	0.6	::::::63.

Biogenic emissions are not included in this table The symbol -- means less than 0.1 tons/day

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

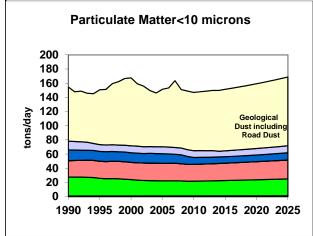
Bay Area Winter Emissions tons/day

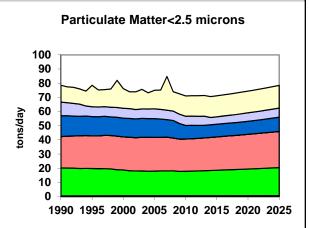
			Emissio	15 (0115/0		
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CC
PETROLEUM REFINING PROCESSES						
Petroleum Refining	::::0.9::::	0.6	: : : : : : : : : : : : : : : : : : : :	0:4	20.5	: : : : : : : - :
Other Refining Processes	· · · · · · · · · · · · · · · · · · ·	:::::: :- :::	3.7	0.2	0.7	1.
Fugitives		: : : : : : : - : : :	: : : : : : : : : : : : : : : : : : : :			· · · · · · · · · · · · · · · · · · ·
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.3	1.7	6.2	0.0
Food, Wine and Agricultural Processes	12.4	11.5	3.0			0.
Metallurgical and Mineral Processes	3.2	2.1	0.2	0.3	0.2	0.3
Gas and Oil Production Fields			0.1			
Waste Management	1.2	0.5	3.0			
Semiconductor Manufacturing and Other Processes	0.8	0.5	1.5		 	
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries		:::::: :- :::	: : : : : : : : : : : : : : : : : : : :			: : : : : : : : - :
Natural Gas Distribution	·····		0.7	::::::::::::::::::::::::::::::::::::::	· · · · · · · · · · · · · · · · · · ·	:
Bulk Plants	:	: : : : : : : : - : : :			· · · · · · · · · · · · · · · · · · ·	
Gasoline Filling Stations	· · · · · · · · · · · · · · · · · · ·	:::::: :- :::	::::::::::5.8::::::	:::::::	:::::::::::::::::::::::::::::::::::::::	: : : : : : : : : : : :
Aircraft, Boats and Other Refueling	:::::: :- ::::	:::::: :- :::	2.9	:::::: : ::::	:::::: :	· · · · · · · · · · · · · · · · · · ·
Salvent Cleaning		· · · · · · · · · · · · · · · · · · ·	: : : : : :5.9: : : :	· · · · · · · · · · · · · · · · · · ·	: : : : : : : : : : : :	
Dry Cleaners		· · · · · · · · · · · · · · · · · · ·	0.5			· · · · · · · · · · · · · · · · · · ·
Printing			5.1			· · · · · · · · · · · · · · · · · · ·
Adhesives and Sealants		:::::::::::: := ::::::	9.1::::	-:-:::: -:- :::::	: : : : : : : - : : : :	- -
Structures Coating		: : : : : : : : - : : :	21.0			· · · · · · · · · · · · · · · · · · ·
Industrial/Commercial Coatings	·····	· · · · · · · · · · · · · · · · · · ·	: : : : :10.5: : : :	· · · · · · · · · · · · · · · · · · ·		:
Other Evaporation COMBUSTION - STATIONARY SOURCES		-0-0-0-0-0-0-0 -0 -0-0-0-	: : : : : : : 9.6: : : :	-0-0-0-0-0-0 -7- 0-0-0-0	:::::::: :::::::: ::::::	: : : : : : : : : : :
	24.0	20.0	447	24.2	0.0	225 /
Domestic Combustion	31.8	30.2	14.7	21.3	0.8	225.5
Cogeneration Power Plants	0.7 0.3	0.7 0.3	1.9 	3.9 0.8	0.3 	6.9 1.3
Refineries	1.5	0.3 1.5		11.9	8.2	5.0
Other Fuels Combustion	2.0	2.0	1.0 2.3	25.2	2.4	20.
Waste Burning and Incineration	0.7	0.7	0.5	0.5	2.4	20. 4.8
OFF-ROAD MOBILE SOURCES		0.7	0.3 :::::::::::	0.5		4.0
Lawn, Garden and Utility Equipment	8.0	0.7	17.0	7.2		108.
Industrial Equipment	0.5	0.5	2.4	13.1		54.
Light Commercial Equipment	0.6	0.6	5.3	6.4		80.8
Oil Drilling Equipment	::::::::::::::::::::::::::::::::::::::		0.1	1.5		0.0
Farm and Construction Equipment	2.4	2:3	6.6	40.6		32.
Locomotives	0.3	0.3	1.0	12.3	0.2	2.0
Off-Road:Motorcycles and 4-Wheel:Drives:					· · · · · · · · · · · · · · · · · · ·	4.3
Ships and Boats	6.6	6:4	13.9	83.7	40.7	58.
Commercial Aircraft/Ground Support Equipment	0.2	0.1	2.5	14.8	0.2	20.
General Aviation & Agricultural Aircraft			0.4	0:1		9.6
Military Aircraft	0.1	0.1	0.7	1.7		1.0
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	5.8	3.5	93.4	84.0	0.7	840.
Medium and Heavy Duty Trucks <33000 lbs	1.6	1.2	13.9	49.2	0.2	133.2
Heavy Duty Diesel Trucks/Buses>33000 lbs	2.2	1.9	5.7	64.6		42.7
Motor-Homes			0.3	1.3		8.
Motorcycles			8.3	2.1		73.
MISCELLANEOUS						
Construction and Farming Operations	37.0	4.4	5.2	· · · · · · · · · · · · · · · · · · ·		
Paved and Unpaved Road Dust	:::::::::::30.2:::	4:3::		::::::::::::::::::::::::::::::::::::::	::::::::::::::::::::::::::::::::::::::	::::::: -
Pesticides			5.7			
Consumer Products (Excluding Pesticides)			38.7			
Accidental Fires/Cigarette Smoking	1.3	1;3	0.4	0.2	::::::: <u>=</u> ::::	6.4
				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · ·
GRAND TOTAL EMISSIONS	146	79	333	449	82	1742

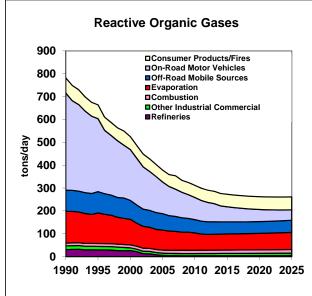
11

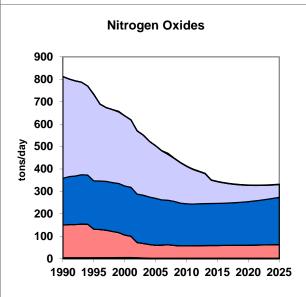
The symbol -- means less than 0.1 tons/day

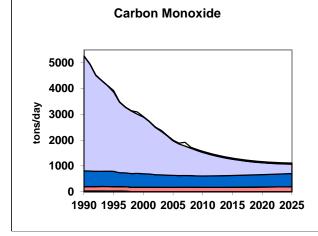


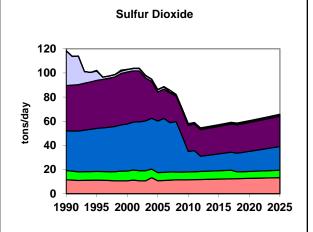


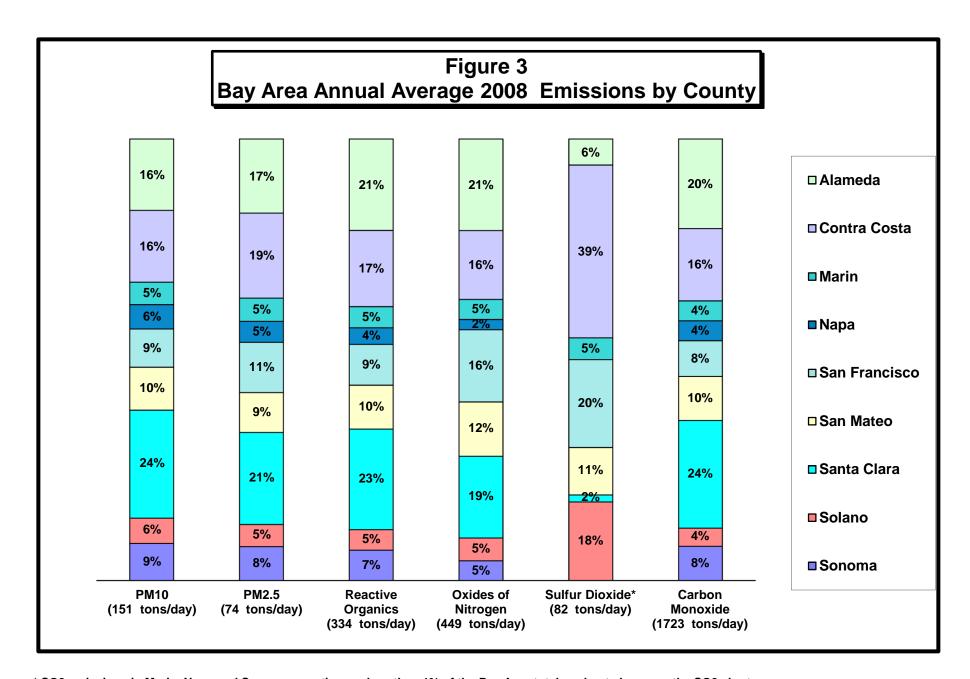












^{*} SO2 emissions in Marin, Napa and Sonoma counties are less than 1% of the Bay Area total, and not shown on the SO2 chart.

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

ALAMEDA Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining						
Other Refining Processes						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.2	0.2	0.4			
Food, Wine and Agricultural Processes	3.2	2.9	0.7			
Metallurgical and Mineral Processes	1.1	0.8	0.1		0.2	
Gas and Oil Production Fields						
Waste Management	0.3	0.1	0.5			
Semiconductor Manufacturing and Other Processes	0.3	0.1	0.5			
ORGANIC COMPOUNDS EVAPORATION	0.3	0.2	0.5			
Loading, Blending, Storage at Refineries						
Natural Gas Distribution	77	77	7-			
Bulk Plants						
Gasoline Filling Stations			1.3			
Aircraft, Boats and Other Refueling			0.8			
Solvent Cleaning			2.1			
Dry Cleaners						
Printing			1.6			
Adhesives and Sealants			1.8			
Structures Coating			4.8			
Industrial/Commercial Coatings			3.9			
Other Evaporation			2.1			
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	2.6	2.5	1.1	2.7		18.7
Cogeneration			0.2	0.5	0.1	1.2
Power Plants						
Refineries						
Other Fuels Combustion	0.3	0.3	0.3	3.9	0.6	3.0
Waste Burning and Incineration						0.3
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.2	0.2	4.2	1.7		26.9
Industrial Equipment			0.5	2.5		10.3
Light Commercial Equipment	0.1	0.1	1.2	1.5		18.8
Oil Drilling Equipment						
Farm and Construction Equipment	0.5	0.5	1.4	8.5		6.6
Locomotives			0.2	2.9		0.5
Off-Road Motorcycles and 4-Wheel Drives			0.2			0.6
Ships and Boats	0.6	0.6	2.0	9.4	3.5	9.3
Commercial Aircraft/Ground Support Equipment			0.4	2.7		3.4
General Aviation & Agricultural Aircraft			0.2			3.7
Military Aircraft						
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	1.3	0.8	19.2	18.0	0.2	186.1
Medium and Heavy Duty Trucks <33000 lbs	0.4	0.3	2.9	11.9		28.5
Heavy Duty Diesel Trucks/Buses>33000 lbs	1.0	0.8	2.0	25.6		12.1
Motor-Homes				0.2		2.0
Motorcycles			1.6	0.4		14.8
MISCELLANEOUS			1.0	0. 1		
Construction and Farming Operations	5.5	0.6	0.8			
Paved and Unpaved Road Dust	6.2	0.9				
Pesticides	0.2	0.9	1.1			
Consumer Products (Excluding Pesticides)			8.5			
T	0.3	0.3	o.o 			1.6
Accidental Fires/Cigarette Smoking						
GRAND TOTAL EMISSIONS	24	12	69	93	5	348

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

CONTRA COSTA

Annual Average Emissions tons/day

Petroleum Refining 0.6 Other Refining Processes Fugitives	0.4 0.3 1.5 0.3 0.2	0.1 3.4 0.3 0.6 0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1 0.9	0.4 0.1 1.7 -	6.7 0.3 6.2 -	 0.2 0.1 -
Other Refining Processes Fugitives OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Chemical Manufacturing Processes Chemical Manufacturing Processes Chemical Mineral Processes Cas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes Cas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes Cas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes Cas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes Cas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes Cas and Oil Production Semiconductor Manufacturing and Other Processes Cas and Oil Production Semiconduction Se	 0.3 1.5 0.3 0.2	3.4 0.3 0.6 0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	0.1 1.7	0.3 6.2	1.2 0.2 0.1 -
Fugitives OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Chemical Manufacturing Processes 1.6 Food, Wine and Agricultural Processes 1.6 Metallurgical and Mineral Processes 0.5 Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes 0.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries 0,13 Other Fuels Combustion 0,7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Light Commercial Equipment Farm and Construction Equipment General Avication & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft	1.5 0.3 0.2	0.3 0.6 0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	1.7 	 6.2 	 0.2 0.1 -
OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Chemical Manufacturing Processes Chemical Manufacturing Processes Food, Wine and Agricultural Processes Gas and Oil Production Fields Waste Management O.1 Semiconductor Manufacturing and Other Processes O.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Uight Commercial Equipment Light Commercial Equipment Light Commercial Equipment Light Commercial Equipment Light Commercial Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	1.5 0.3 0.2	0.6 0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	1.7	 	0.2 0.1
Chemical Manufacturing Processes Food, Wine and Agricultural Processes Food, Wine and Agricultural Processes Metallurgical and Mineral Processes Gas and Oil Production Fields Waste Management O.1 Semiconductor Manufacturing and Other Processes O.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Joher Fuels Combustion Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Uight Commercial Equipment Farm and Construction Equipment Light Commercial Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Air	1.5 0.3 0.2	0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 	 	0.1
Food, Wine and Agricultural Processes Metallurgical and Mineral Processes Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes O.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Coil Drilling Equipment Farm and Construction Equipment Comercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft O.1 Industrial Fuelipment General Aviation & Agricultural Aircraft Military Aircraft O.1 Industrial Equipment General Aviation & Agricultural Aircraft Military Aircraft Industrial Equipment General Aviation & Agricultural Aircraft Military Aircraft Industrial Equipment General Aviation & Agricultural Aircraft Military Aircraft	1.5 0.3 0.2	0.3 0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 	 	0.1
Metallurgical and Mineral Processes Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes O.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation Cogeneration Power Plants Refineries 1.3 Other Fuels Combustion Other Fuels Combustion Other Fuels Combustion Vaste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Industrial Fuelipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Industrial Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft	0.3 0.2	0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 	 	
Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes 0.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries 1.3 Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Militar	 0.2	0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1	
Waste Management Semiconductor Manufacturing and Other Processes O.3 ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combusti	0.2 5.0 0.3	0.3 0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1	
Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Other Fuels Combustion Off-Road Mobile Sources Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Coil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Mootsy each of the Process One Plants Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Natural Refineries 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3 0.3	0.2 5.0 0.3	0.1 4.1 0.2 0.9 0.8 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Parall Fauipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Parall Fauipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Aircraft Fauipment Cassing Arefineries Season Arefineries Aircraft Refineries Aircraft Refineries Aircraft Refineries	 5.0 0.3	4.1 0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants	 5.0 0.3	0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
Natural Gas Distribution Bulk Plants	 5.0 0.3	0.2 0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries 1.3 Other Fuels Combustion Vaste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Industrial Equipment Cil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft	 5.0 0.3	0.9 0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Vaste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Solvent Refueling	5.0 0.3	0.8 0.3 0.3 0.5 0.9 3.3 0.8 1.7	 2.4 1.7 0.3	 0.1	
Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion United Sources Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Printing -	5.0 0.3	0.3 0.3 0.5 0.9 3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1	37.9 37.9
Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion United Sources Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Printing -	5.0 0.3	0.3 0.5 0.9 3.3 0.8 1.7 2.3	 2.4 1.7 0.3	 0.1	 37.9 3.4
Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Printing	5.0 0.3	 0.5 0.9 3.3 0.8 1.7 2.3	 2.4 1.7 0.3	 0.1 0.1	 37.9 3.4
Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	5.0 0.3	0.5 0.9 3.3 0.8 1.7 2.3	 2.4 1.7 0.3	 0.1 0.1	 37.9 3.4
Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Structures Structu	5.0 0.3	0.9 3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1 0.1	 37.9 3.4
Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Military Aircraft Source Structures Structures Structures Structures Structures Structures Structures Structures Structures Structures Structures Structures -	5.0 0.3	0.9 3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1 0.1	 37.9 3.4
Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	5.0 0.3	3.3 0.8 1.7 2.3 1.1	 2.4 1.7 0.3	 0.1 0.1	 37.9 3.4
Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	5.0 0.3 	0.8 1.7 2.3 1.1	 2.4 1.7 0.3	0.1 0.1	37.9 3.4
Other Evaporation COMBUSTION - STATIONARY SOURCES 5.3 Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	5.0 0.3 	1.7 2.3 1.1 	 2.4 1.7 0.3	0.1 0.1	37.9 3.4
COMBUSTION - STATIONARY SOURCES Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	5.0 0.3 	2.3 1.1 	2.4 1.7 0.3	0.1 0.1	37.9 3.4
Domestic Combustion 5.3 Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.3	1.1 	1.7 0.3	0.1	37.9 3.4
Cogeneration 0.3 Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.3	1.1 	1.7 0.3	0.1	3.4
Power Plants Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft			0.3		
Refineries 1.3 Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	1.3				0.2
Other Fuels Combustion 0.7 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	1.0		8.4	8.0	4.3
Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.7	0.6	5.5	0.8	4.4
DFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0. <i>1</i>	0.0 	0.1	0.0 	4.4
Lawn, Garden and Utility Equipment 0.1 Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft			0.1		
Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.1	2.9	1.1		18.3
Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.1	0.2	0.8		3.4
Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft		0.2	0.8		3.4 10.1
Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft					
Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft			 7.4		
Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft	0.4	1.2	7.4		5.7
Ships and Boats 0.9 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft		0.2	2.9		0.5
Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft		0.2			0.9
General Aviation & Agricultural Aircraft Military Aircraft	0.9	3.9	8.1	9.4	23.0
Military Aircraft					
					1.4
ON-ROAD MOTOR VEHICLES					
Passenger Cars/Light Duty Trucks<6000lbs 0.9	0.6	12.7	12.3	0.1	126.0
Medium and Heavy Duty Trucks <33000 lbs 0.2	0.2	1.8	6.0		18.3
Heavy Duty Diesel Trucks/Buses>33000 lbs 0.3	0.3	0.8	8.9		5.8
Motor-Homes			0.2		1.4
Motorcycles		1.4	0.4		13.3
MISCELLANEOUS					
Construction and Farming Operations 4.4	0.5	0.7			
Paved and Unpaved Road Dust 5.6	8.0				
Pesticides		0.9			
Consumer Products (Excluding Pesticides)		5.7			
Accidental Fires/Cigarette Smoking 0.2					1.4
GRAND TOTAL EMISSIONS 24			70	32	281

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

		Annual Av	erage Emi	ssions to	ns/day	
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CC
PETROLEUM REFINING PROCESSES						
Petroleum Refining						
Other Refining Processes						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes						
Food, Wine and Agricultural Processes	0.5	0.5				
Metallurgical and Mineral Processes	0.1					
Gas and Oil Production Fields						
Waste Management	0.3		0.2			
Semiconductor Manufacturing and Other Processes						
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries Natural Gas Distribution						
Bulk Plants						
Gasoline Filling Stations Aircraft, Boats and Other Refueling			0.3 0.2			
Solvent Cleaning			U.Z 			
Dry Cleaners						
Printing			0.1			
Adhesives and Sealants			0.3			
Structures Coating			0.8			
Industrial/Commercial Coatings			0.3			
Other Evaporation			0.4			
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	1.3	1.2	0.8	0.8		8.6
Cogeneration						
Power Plants						
Refineries						
Other Fuels Combustion				0.4	0.1	0.3
Waste Burning and Incineration						
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment			1.1	0.3		7.0
Industrial Equipment				0.2		0.7
Light Commercial Equipment			0.3	0.4		4.7
Oil Drilling Equipment						
Farm and Construction Equipment	0.1	0.1	0.3	1.7		1.4
Locomotives						
Off-Road Motorcycles and 4-Wheel Drives	0.9	0.9	3.4	9.1	3.9	0.3
Ships and Boats Commercial Aircraft/Ground Support Equipment	0.9	0.9	5.4	9.1	3.8	10.0
General Aviation & Agricultural Aircraft						0.9
Military Aircraft						
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.2	0.1	3.5	3.1		31.3
Medium and Heavy Duty Trucks <33000 lbs			0.5	1.7		5.3
Heavy Duty Diesel Trucks/Buses>33000 lbs			0.2	2.3		1.8
Motor-Homes						0.3
Motorcycles			0.3			3.2
MISCELLANEOUS						
Construction and Farming Operations	1.6	0.2	0.8			
Paved and Unpaved Road Dust	2.2	0.3				
Pesticides			0.2			
Consumer Products (Excluding Pesticides)			1.4			
Accidental Fires/Cigarette Smoking	0.2	0.2	0.1			1.6
GRAND TOTAL EMISSIONS	8	4	16	20	4	77

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

NAPA
Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining						
Other Refining Processes						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes			0.1			
Food, Wine and Agricultural Processes	0.2	0.2	0.5			
Metallurgical and Mineral Processes						
Gas and Oil Production Fields						
Waste Management			0.1			
Semiconductor Manufacturing and Other Processes						
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries						
Natural Gas Distribution						
Bulk Plants						
Gasoline Filling Stations			0.1			
Aircraft, Boats and Other Refueling			0.1			
Solvent Cleaning			0.2			
Dry Cleaners						
Printing						
Adhesives and Sealants			0.1			
Structures Coating			0.4			
Industrial/Commercial Coatings			0.1			
Other Evaporation			0.2			
COMBUSTION - STATIONARY SOURCES			-			
Domestic Combustion	0.7	0.7	0.4	0.3		5.1
Cogeneration				0.1		
Power Plants						
Refineries						
Other Fuels Combustion				0.4		0.4
Waste Burning and Incineration						0.5
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment			0.4	0.2		2.7
Industrial Equipment				0.2		0.7
Light Commercial Equipment			0.1	0.1		1.6
Oil Drilling Equipment						
Farm and Construction Equipment	0.1	0.1	0.3	1.8		1.8
Locomotives				0.5		
Off-Road Motorcycles and 4-Wheel Drives			0.2			0.4
Ships and Boats	0.1	0.1	2.3	0.6		12.6
Commercial Aircraft/Ground Support Equipment						
General Aviation & Agricultural Aircraft						1.2
Military Aircraft						
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.2	0.1	2.9	2.6		28.1
Medium and Heavy Duty Trucks <33000 lbs			0.5	1.6		4.8
Heavy Duty Diesel Trucks/Buses>33000 lbs			0.2	1.4		1.3
Motor-Homes						0.4
Motorcycles			0.2			1.9
MISCELLANEOUS						
Construction and Farming Operations	3.8	0.5	0.7			
Paved and Unpaved Road Dust	1.3	0.2				
Pesticides			0.2			
Consumer Products (Excluding Pesticides)			0.8			
Accidental Fires/Cigarette Smoking	1.4	1.3	0.9	0.5	0.2	14.0
GRAND TOTAL EMISSIONS	8	4	12	10	0.2	78
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Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

SAN FRANCISCO Annual Average Emissions tons/day

PETROLEUM REFINING PROCESSES Petroleum Refining Other Refining Processes Fugitives OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Food, Wine and Agricultural Processes 3.0 Metallurgical and Mineral Processes 0.2 Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domes				SO2	CO
Other Refining Processes Fugitives OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Food, Wine and Agricultural Processes Food, Wine and Agricultural Processes Food, Wine and Agricultural Processes Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Other Fuels Combustion					
Fugitives OTHER INDUSTRIAL/COMMERCIAL PROCESSES Chemical Manufacturing Processes Food, Wine and Agricultural Processes Food, Wine and Agricultural Processes Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Power Plants Refineries Other Fuels Combustion Other Puels Combustion Other Evaporation OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Light Commercial Equipment Light Commercial Equipment Light Commercial Aircraft/Ground Support Equipment Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks <6000lbs Medium and Heavy Duty Trucks <6000lbs Motor-Homes Motorcycles MISCELLANEOUS					
Chemical Manufacturing Processes Chemical Manufacturing Processes Food, Wine and Agricultural Processes Food, Wine and Agricultural Processes Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes CRGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Off-ROAD MoBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Light Commercial Equipment Light Commercial Hympent Loomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks < 6000lbs Medium and Heavy Duty Trucks < 33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
Chemical Manufacturing Processes					
Food, Wine and Agricultural Processes					
Metallurgical and Mineral Processes 0.2 Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.5 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES					
Metallurgical and Mineral Processes 0.2 Gas and Oil Production Fields Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.5 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES	2.8	0.4			
Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation Cogeneration Power Plants Refineries Other Fuels Combustion Off-Road MoBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Farm and Construction Equipment Coff-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks < 6000lbs Medium and Heavy Duty Trucks < 33000 lbs Medium and Heavy Duty Trucks < 33000 lbs Motor-Homes Motorcycles Miscellaneous	0.1				
Waste Management Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation Cogeneration Power Plants Refineries Other Fuels Combustion Off-Road MoBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Farm and Construction Equipment Coff-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks < 6000lbs Medium and Heavy Duty Trucks < 33000 lbs Medium and Heavy Duty Trucks < 33000 lbs Motor-Homes Motorcycles Miscellaneous					
Semiconductor Manufacturing and Other Processes ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Coff-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks < 33000 lbs Medium and Heavy Duty Trucks < 33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
ORGANIC COMPOUNDS EVAPORATION Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Power Plants Refineries Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Uight Commercial Equipment Farm and Construction Equipment Login Competite Sources Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks < 33000 lbs Medium and Heavy Duty Trucks < 33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
Loading, Blending, Storage at Refineries Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Othe					
Natural Gas Distribution Bulk Plants Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Ot					
Gasoline Filling Stations Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Other Fuels Combustion Other Fuels Combustion OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks <33000 lbs Medium and Heavy Duty Trucks <33000 lbs Motor-Homes Motorcycles MiSCELLANEOUS					
Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combusti					
Aircraft, Boats and Other Refueling Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fuels Combusti		0.5			
Solvent Cleaning Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Other Fue					
Dry Cleaners Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Industrial Equipment Industrial Equipment Industrial Equipment Industrial Equipment Farm and Construction Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment <td></td> <td>0.3</td> <td></td> <td></td> <td></td>		0.3			
Printing Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs					
Adhesives and Sealants Structures Coating Industrial/Commercial Coatings Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion Cogeneration Power Plants Refineries Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks <6000lbs Medium and Heavy Duty Trucks <33000 lbs Motor-Homes Motorcycles MISCELLANEOUS		0.5			
Structures Coating		1.6			
Industrial/Commercial Coatings		2.5			
Other Evaporation COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs		0.8			
COMBUSTION - STATIONARY SOURCES Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs		1.1			
Domestic Combustion 0.5 Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs		1.1			
Cogeneration Power Plants Refineries Other Fuels Combustion 0.2 Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs	0.5	0.2	1.7		3.1
Power Plants Refineries Other Fuels Combustion Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks<33000 lbs Medium and Heavy Duty Trucks/Buses>3300 lbs Motor-Homes Motorcycles Miscellaneous	0.5		0.2	 	0.2
Refineries Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks<33000 lbs Medium and Heavy Duty Trucks/Buses>33000 lbs Motor-Homes Motorcycles Miscellaneous			0.2		0.2
Other Fuels Combustion Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks<33000 lbs Medium and Heavy Duty Trucks/Buses>33000 lbs Motor-Homes Motorcycles Miscellaneous			U.Z 		0.0
Waste Burning and Incineration OFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks<33000 lbs Motor-Homes Motorcycles Miscellaneous Miscellaneous	0.2	0.3	1.7		0.8
DFF-ROAD MOBILE SOURCES Lawn, Garden and Utility Equipment	0.2	0.5	1.7		0.0
Lawn, Garden and Utility Equipment Industrial Equipment Light Commercial Equipment Oil Drilling Equipment Farm and Construction Equipment Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats Ships and Boats Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks <33000 lbs Medium and Heavy Duty Trucks/Buses>33000 lbs Motor-Homes Motorcycles Miscellaneous					
Industrial Equipment Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS		2.0	0.7		12.8
Light Commercial Equipment 0.1 Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS		0.2	1.3		5.3
Oil Drilling Equipment Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks<33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	0.4				
Farm and Construction Equipment 0.4 Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	0.1	1.1	1.4		16.8
Locomotives Off-Road Motorcycles and 4-Wheel Drives Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	 0.4				
Off-Road Motorcycles and 4-Wheel Drives 3.0 Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	0.4	1.0	6.5		4.8
Ships and Boats 3.0 Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS			1.2		0.1
Commercial Aircraft/Ground Support Equipment General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					0.2
General Aviation & Agricultural Aircraft Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks <33000 lbs Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	3.0	4.2	43.8	15.9	14.3
Military Aircraft ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs 0.5 Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
ON-ROAD MOTOR VEHICLES Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks <33000 lbs Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
Passenger Cars/Light Duty Trucks<6000lbs Medium and Heavy Duty Trucks <33000 lbs Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
Medium and Heavy Duty Trucks <33000 lbs 0.2 Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS					
Heavy Duty Diesel Trucks/Buses>33000 lbs Motor-Homes Motorcycles MISCELLANEOUS	0.3	6.6	5.7		61.3
Motor-Homes Motorcycles MISCELLANEOUS	0.1	1.1	4.8		10.5
Motorcycles MISCELLANEOUS		0.4	4.1		4.3
MISCELLANEOUS					0.4
		0.7	0.2		4.7
Construction and Farming Operations 2.8	0.3	0.1			
Paved and Unpaved Road Dust 1.9	0.3				
Pesticides		0.6			
Consumer Products (Excluding Pesticides)		4.4			
Accidental Fires/Cigarette Smoking 0.1	0.1				0.5
GRAND TOTAL EMISSIONS 13	8	31	73	16	141

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

SAN MATEO Annual Average Emissions tons/day

PETROLEUM REFINING PROCESSES Petroleum Refining Other Refining Processes						
Other Refining Processes						
7						
Fugitives						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes						
Food, Wine and Agricultural Processes	1.5	1.4	0.3			
Metallurgical and Mineral Processes	0.3	0.2				
Gas and Oil Production Fields						
Waste Management	0.2		0.3			
Semiconductor Manufacturing and Other Processes	0.1					
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries						
Natural Gas Distribution						
Bulk Plants						
Gasoline Filling Stations			0.7			
Aircraft, Boats and Other Refueling			0.7			
Solvent Cleaning			0.5			
Dry Cleaners			0.1			
Printing			1.0			
Adhesives and Sealants			1.0			
Structures Coating			2.3			
Industrial/Commercial Coatings			0.8			
Other Evaporation			1.1			
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	1.2	1.1	0.6	1.6		8.0
Cogeneration						0.1
Power Plants						
Refineries						
Other Fuels Combustion	0.2	0.2	0.2	1.4		1.5
Waste Burning and Incineration						
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment			2.0	0.7		12.7
Industrial Equipment			0.2	1.1		4.4
Light Commercial Equipment			0.7	8.0		10.3
Oil Drilling Equipment						
Farm and Construction Equipment	0.2	0.2	0.7	4.2		3.2
Locomotives				1.0		0.1
Off-Road Motorcycles and 4-Wheel Drives						0.6
Ships and Boats	1.4	1.4	1.9	17.2	8.3	5.0
Commercial Aircraft/Ground Support Equipment	0.1		2.0	10.6	0.2	14.8
General Aviation & Agricultural Aircraft						1.8
Military Aircraft						
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	0.6	0.4	8.2	7.9		81.4
Medium and Heavy Duty Trucks <33000 lbs	0.2	0.1	1.4	5.2		13.7
Heavy Duty Diesel Trucks/Buses>33000 lbs			0.3	2.6		3.0
Motor-Homes						0.6
Motorcycles			0.8	0.2		7.4
MISCELLANEOUS						
Construction and Farming Operations	3.6	0.4	0.2			
Paved and Unpaved Road Dust	4.6	0.6				
Pesticides			0.6			
Consumer Products (Excluding Pesticides)			4.0			
Accidental Fires/Cigarette Smoking	0.2	0.2				1.2
GRAND TOTAL EMISSIONS	15	7	33	55	9	170

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

SANTA CLARA Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CO
PETROLEUM REFINING PROCESSES						
Petroleum Refining						
Other Refining Processes						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes						
Food, Wine and Agricultural Processes	3.4	3.2	0.4			
Metallurgical and Mineral Processes	1.1	0.7		0.2		0.3
Gas and Oil Production Fields						
Waste Management	0.2		1.2			
Semiconductor Manufacturing and Other Processes			0.7			
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries						
Natural Gas Distribution			0.1			
Bulk Plants			0.3			
Gasoline Filling Stations			1.4			
Aircraft, Boats and Other Refueling			0.6			
Solvent Cleaning			2.3			
Dry Cleaners			0.1			
Printing			0.6			
Adhesives and Sealants			2.8			
Structures Coating			5.6			
Industrial/Commercial Coatings			2.4			
Other Evaporation			2.2			
COMBUSTION - STATIONARY SOURCES						
Domestic Combustion	4.0	3.8	1.8	3.2	0.1	28.4
Cogeneration	0.2	0.2	0.4	1.0		1.3
Power Plants	0.2	0.2		0.3		0.7
Refineries						
Other Fuels Combustion	0.4	0.4	0.6	9.3	0.6	7.5
Waste Burning and Incineration	0.3	0.3	0.2	0.2		2.3
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.2	0.2	4.6	1.8		29.6
Industrial Equipment	0.3	0.3	1.5	8.2		33.7
Light Commercial Equipment	0.2	0.2	1.4	1.7		21.1
Oil Drilling Equipment						
Farm and Construction Equipment	0.6	0.5	1.5	9.4		7.6
Locomotives			0.2	2.5		0.4
Off-Road Motorcycles and 4-Wheel Drives			0.2			1.2
Ships and Boats			1.1	0.4		9.1
Commercial Aircraft/Ground Support Equipment			0.3	2.0		2.5
General Aviation & Agricultural Aircraft			0.1			3.3
Military Aircraft			0.3	0.1		1.0
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	1.5	0.9	21.8	19.6	0.2	206.1
Medium and Heavy Duty Trucks <33000 lbs	0.3	0.3	2.9	10.0		28.7
Heavy Duty Diesel Trucks/Buses>33000 lbs	0.5	0.4	1.2	12.2		8.6
Motor-Homes				0.3		2.3
Motorcycles			1.7	0.4		13.9
MISCELLANEOUS						
Construction and Farming Operations	8.8	1.0	0.7			
Paved and Unpaved Road Dust	13.3	1.7				
Pesticides			1.7			
Consumer Products (Excluding Pesticides)			10.0			
Accidental Fires/Cigarette Smoking	1.2	1.1	0.6	0.3		9.7
GRAND TOTAL EMISSIONS					1	
GRANDIUIAI ENISSIUNS	37	15	76	83	1	419

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2008

SOLANO

Year 2008	SOLANO Annual Average Emissions tons/day							
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx				
PETROLEUM REFINING PROCESSES	FIVITO	LIMIZ.3	ROG	NUX	302	CC		
Petroleum Refining	0.3	0.2			13.8			
Other Refining Processes		U.Z 	0.3		0.4			
Fugitives								
OTHER INDUSTRIAL/COMMERCIAL PROCESSES								
Chemical Manufacturing Processes								
Food, Wine and Agricultural Processes	0.5	0.4	0.1					
Metallurgical and Mineral Processes	0.2							
Gas and Oil Production Fields								
Waste Management	0.1		0.1					
Semiconductor Manufacturing and Other Processes								
ORGANIC COMPOUNDS EVAPORATION								
Loading, Blending, Storage at Refineries			0.2					
Natural Gas Distribution								
Bulk Plants								
Gasoline Filling Stations			0.4					
Aircraft, Boats and Other Refueling			0.1					
Solvent Cleaning			0.2					
Dry Cleaners								
Printing			0.4					
Adhesives and Sealants			0.2					
Structures Coating			1.0					
Industrial/Commercial Coatings			1.0					
Other Evaporation			0.6					
COMBUSTION - STATIONARY SOURCES								
Domestic Combustion	0.9	0.9	0.4	0.5		6.6		
Cogeneration				0.1				
Power Plants								
Refineries	0.2	0.2	0.1	4.1	0.2	0.8		
Other Fuels Combustion	0.2	0.2	0.2	2.0		1.8		
Waste Burning and Incineration						0.4		
OFF-ROAD MOBILE SOURCES								
Lawn, Garden and Utility Equipment			0.6	0.3		3.6		
Industrial Equipment				0.2		0.8		
Light Commercial Equipment			0.2	0.2		2.5		
Oil Drilling Equipment			0.1	1.6		0.6		
Farm and Construction Equipment	0.2	0.2	0.5	2.6		2.4		
Locomotives				0.6		0.1		
Off-Road Motorcycles and 4-Wheel Drives						0.2		
Ships and Boats	0.2	0.2	1.6	0.4	0.1	5.3		
Commercial Aircraft/Ground Support Equipment								
General Aviation & Agricultural Aircraft								
Military Aircraft			0.4	1.6		0.8		
ON-ROAD MOTOR VEHICLES								
Passenger Cars/Light Duty Trucks<6000lbs	0.2	0.2	3.4	3.3		32.9		
Medium and Heavy Duty Trucks <33000 lbs			0.6	2.0		5.8		
Heavy Duty Diesel Trucks/Buses>33000 lbs	0.1	0.1	0.3	3.8		2.0		
Motor-Homes						0.5		
Motorcycles			0.4	0.1		4.1		
MISCELLANEOUS								
Construction and Farming Operations	3.6	0.5	0.1					
Paved and Unpaved Road Dust	1.6	0.2						
Pesticides			0.2					
Consumer Products (Excluding Pesticides)			1.7					
Accidental Fires/Cigarette Smoking	0.1	0.1				1.1		
GRAND TOTAL EMISSIONS	9	4	16	24	15	73		

Bay Area Air Quality Management District

Summary of Emissions by Source Categor	ory					
Year 2008			SONO	ΛA		
		Annual Av	erage Emi	issions to	ns/day	
SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	(
PETROLEUM REFINING PROCESSES						
Petroleum Refining						
Other Refining Processes						
Fugitives						
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes						
Food, Wine and Agricultural Processes	0.9	0.8	0.4			
Metallurgical and Mineral Processes	0.3	0.2				
Gas and Oil Production Fields						
Waste Management			0.3			
Semiconductor Manufacturing and Other Processes						
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries						
Natural Gas Distribution						
Bulk Plants						
Gasoline Filling Stations			0.4			
Aircraft, Boats and Other Refueling			0.2			
Solvent Cleaning			0.4			
Dry Cleaners						
Printing			0.2			
Adhesives and Sealants			0.4			
Otherstone Continu			4.4			

Structures Coating			1.4		
Industrial/Commercial Coatings			0.7		
Other Evaporation			0.6		
COMBUSTION - STATIONARY SOURCES					
Domestic Combustion	2.6	2.5	1.4	1.0	 18.1
Cogeneration					 0.1
Power Plants					
Refineries					
Other Fuels Combustion				0.6	 0.7
Waste Burning and Incineration					 0.6
OFF-ROAD MOBILE SOURCES					
Lawn, Garden and Utility Equipment			1.1	0.5	 7.2
Industrial Equipment			0.1	0.6	 2.5
Light Commercial Equipment			0.3	0.4	 5.0
Oil Drilling Equipment					
Form and Construction Faultoment	0.0	0.0	0.6	0.7	იი

Biogenic emissions are not included in this table						
GRAND TOTAL EMISSIONS	13	6	23	20	0	136
Accidental Fires/Cigarette Smoking	0.5	0.4	0.3	0.1		4.0
Consumer Products (Excluding Pesticides)			2.4			
Pesticides			0.4			
Paved and Unpaved Road Dust	2.5	0.4				
Construction and Farming Operations	5.0	0.6	1.1			
MISCELLANEOUS						
Motorcycles			0.7	0.2		6.0
Motor-Homes				0.1		0.8
Heavy Duty Diesel Trucks/Buses>33000 lbs			0.2	1.7		2.3
Medium and Heavy Duty Trucks <33000 lbs	0.1	0.1	1.2	4.2		11.8
Passenger Cars/Light Duty Trucks<6000lbs	0.4	0.3	6.7	6.0		63.3
ON-ROAD MOTOR VEHICLES						
Military Aircraft						
General Aviation & Agricultural Aircraft						1.4
Commercial Aircraft/Ground Support Equipment						
Ships and Boats			1.5	0.4		8.0
Off-Road Motorcycles and 4-Wheel Drives						0.7
Locomotives				0.6		0.1
Farm and Construction Equipment	0.2	0.2	0.6	3.7		3.2
Oil Drilling Equipment						
Light Commercial Equipment			0.1	0.4		5.0
Industrial Equipment			0.1	0.6		2.5
Lawn, Garden and Utility Equipment			1.1	0.5		7.2
OFF-ROAD MOBILE SOURCES						0.0
Other Fuels Combustion Waste Burning and Incineration				0.6		0.7 0.6
Other Fuels Combusties						0.7

The symbol -- means less than 0.1 tons/day

Bay Area Air Quality Management District Summary of Emissions by Source Category Year 2011

Projected
Bay Area
Annual Average Emissions tons/day

SOURCE CATEGORY	PM10	PM2.5	ROG	NOx	SO2	CC
PETROLEUM REFINING PROCESSES						
Petroleum Refining	::::0.9:::	0.6	:::::::::::::::::::::::::::::::::::::::	0.4	21.1	: : : : : : - :
Other Refining Processes		· · · · · · · · · · · · · · · · · · ·	3.8	0.2	0.8	::::::1.
Fugitives	::::::::::::::::::::::::::::::::::::::		0.3	:::::::::::::::::::::::::::::::::::::::		
OTHER INDUSTRIAL/COMMERCIAL PROCESSES						
Chemical Manufacturing Processes	0.5	0.5	1.4	1.7	6.3	0.
Food, Wine and Agricultural Processes	14.7	13.6	3.0			0.
Metallurgical and Mineral Processes	3.7	2.3	0.2	0.3	0.2	0.
Gas and Oil Production Fields			0.1			-
Waste Management	1.2	0.5	3.0			-
Semiconductor Manufacturing and Other Processes	0.9	0.6	1.6			-
ORGANIC COMPOUNDS EVAPORATION						
Loading, Blending, Storage at Refineries		::::::::::::::::::::::::::::::::::::::	4.4			-
Natural Gas Distribution			0.6	: : : : : : : : : : : : : : : : : : : :		:::::: <u>-</u>
Bulk Plants	- 		2.5	· · · · · · · · · · · · · · · · · · ·		-
Gasoline Filling Stations			5.4			· · · · · · · · · · · · · · · · · · ·
Aircraft, Boats and Other Refueling	-:-:-:-:-:-:-:-:-:-:-:-:-:-:-:-:-:-:-:		3.1		· · · · · · · · · · · · · · · · · · ·	
Solvent Cleaning	<u></u>		5.6			-
Dry Cleaners			0.6			
Printing			4.0			
Adhesives and Sealants			9.2	: : : : : : <u>: :</u> : : : :		::::: <u>.</u>
Structures Coating			18.4			
Industrial/Commercial Coatings						
Other Evaporation		::::::: -	8.9			
COMBUSTION - STATIONARY SOURCES	*:::::::::::::::::::: ** ::::::		0.9			::::::: -
	40.0	47.0	0.7	111	0.5	100
Domestic Combustion	18.8	17.8	8.7	14.1	0.5	132.
Cogeneration	0.7	0.7	2.0	3.8	0.3	6.
Power Plants	0.3	0.3		0.8		1.
Refineries	1.6	1.6	1.1	12.9	8.4	5.
Other Fuels Combustion	2.0	2.0	2.3	23.4	2.3	19.
Waste Burning and Incineration	0.5	0.4	0.3	0.4		
OFF-ROAD MOBILE SOURCES						
Lawn, Garden and Utility Equipment	0.7	0.7	16.8	7.8		120.
: Industrial Equipment		0:5	2.1:	:::::12:2::::		:::::62.
Light Commercial Equipment	0.7	0:7	5.0	6.8	::::::: :- ::::	89.
Oil Drilling Equipment	::::::::::::::::::::::::::::::::::::::	::::::: :- :::	0.1	1.5		0.
Farm and Construction Equipment	:::::::::::::::::::2.0::::	::::::2:0::	::::::::::5.6::::	:::::34:3::::		:::::31.
Locomotives	0.3	0.3	1.0	12.4	0.2	2.
:: Off-Road:Motorcycles and 4-Wheel:Drives::::::::::::::::::::::::::::::::::::	::::::::::::: :: :::::	::::::: :- ::::	: : : : : : : : : : : : : : : : : : : :	::::::: :- :::::	::::::: :: ::::	::::::5.
Ships and Boats	5.1	5:1	21.0	93.4	16.9	95.
Commercial Aircraft/Ground Support Equipment	::::::::::::0.2::::	0.1	2.6	:::::15.1::::	0.2	∷∷:20.
General Aviation & Agricultural Aircraft		: : : : : : : : - : : :	0.5	0.2	::::::: :- ::::	::::12.
Military Aircraft	0.1	0.1		2.0	0.1	· · · · · · · · · · · · · · · · · · ·
ON-ROAD MOTOR VEHICLES						
Passenger Cars/Light Duty Trucks<6000lbs	6.1	3.7	67.2	60.8	0.7	637.
Medium and Heavy Duty Trucks <33000 lbs	1.5	1.2	11.0	39.3	0.2	106.
Heavy Duty Diesel Trucks/Buses>33000 lbs	1.8	1.5	4.7	52.0		34.
Motor-Homes			0.2	1.0		6.
Motorcycles			7.2	2.0		59.
MISCELLANEOUS				_		:::::::::
Construction and Farming Operations	37.6	4:4	5.2		:::::::::::::::::::::::::::::::::::::::	
Paved and Unpaved Road Dust	40.4	5.4	J.Z.			
		J.4	<u></u>		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · ·
Pesticides			6.0			: : : : : : :
Consumer Products (Excluding Pesticides)		· · · · · · · · · · · · · · · · · · ·	39.6			
Accidental Fires/Cigarette Smoking:	:::::::::::::5.1::::	4,6	2.7: ::	::::::1.5 :::	0.4:::	::::::43.
ODAND TOTAL PRINCIPLE	446			400		4=4
GRAND TOTAL EMISSIONS	148	71	299	400	59	1500

23

The symbol -- means less than 0.1 tons/day

MAJOR EMITTING FACILITIES

The following list shows the facilities that emit more than 0.05 tons/day of any criteria pollutant in 2008. The emissions are the total for the facility at the site indicated. The sole purpose of this list is to show major facilities; it is **NOT** a list of those who violate the District's regulations.

2008 Annual Average Emissions

The symbol -- indicates a quantity less than 0.01 tons/day.

						tons	day		
OUNTY/CITY	PLANT#	PLANT NAME	ZIPCODE	PM ₁₀	PM _{2.5}	ROG	NO _X	SO ₂	СО
ameda									
Berkeley	12071 Baye	er Healthcare LLC	94710			0.05	0.05		0.0
	11326 PE E	Berkeley, Inc.	94720	0.04	0.04	0.07	0.14		0.6
Fremont	1438 New	United Motor Manufacturing	94538			1.43	0.06		0.0
	2246 Tri-C	Cities Recycling	94538	0.03		0.09	0.04	0.01	0.2
Hayward	837 Gillig	g Corporation	94545			0.14			-
	1009 Hay	ward Waste Water Treatment	94545	0.02	0.02	0.02	0.07		0.0
	3933 Kais	er Foundation Hospital	94545				0.06		0.1
	13631 Morg	gan Advanced Ceramics	94544			0.02	0.06		0.0
	17553 Rohi	m and Haas Chemicals LLC	94545			0.06			-
Livermore	5095 Rep	ublic Services Vasco Road, LLC	94550			0.08	0.05		0.2
	2066 Was	te Management of Alameda County	94551	0.18	0.06	0.18	0.21	0.05	0.4
Newark	94 Carg	gill Salt	94560	0.09	0.08		0.02		0.0
	1190 Ever	rgreen Oil, Inc.	94560			0.02	0.05	0.01	0.0
	79 Mort	ton International Inc.	94560	0.06	0.06		0.01		0.0
	153 PAB	CO Gypsum	94560	0.07	0.04	0.03	0.10		0.0
Oakland	62 A B	& I Foundry	94621	0.07	0.04	0.49	0.18	0.28	0.1
	2743 CEM	MEX Construction Materials Pacific, LLC	94606	0.06	0.04				-
	15023 Clev	reland Steel Container	94601			0.06			
	158 Con	Agra, Inc.	94606	0.05	0.03				
	11887 Dyne	egy Oakland LLC	94607				0.05	0.01	
	591 East	t Bay Municipal Utility District	94607	0.01	0.01	0.09	0.14	0.07	0.4
	30 Owe	ens-Brockway Glass Container	94601	0.48	0.41		0.81	0.17	0.0
	1201 Rolls	s-Royce Engine Services	94621				0.08	0.02	0.0
	532 The	Earthgrains Company	94606			0.07			-
Pleasanton	705 Vulc	an Materials Company Western Div.	94566	0.02	0.02	0.02	0.02		0.0
San Leandro		is Street SMART	94577	0.07	0.07				-
	167 Max	well House, Div. of Kraft Foods	94578	0.05	0.03		0.02		
		tegic Materials, Inc.	94577	0.05	0.05				_
	13070 Verti		94577			0.06			-
San Lorenzo		Loma Sanitary District	94580			0.01	0.02	0.02	0.0
Union City		on Sanitary District	94587			0.02	0.17	0.01	0.1
		ed States Pipe & Foundry Company, LLC	94587			0.06	0.13	0.19	0.0
ntra Costa	00 0	ou claim inpo a realitary company, 220	0.00.			0.00	00	00	0.0
Antioch	1258 Delta	a Diablo Sanitation District	94509			0.01	0.02	0.01	0.1
7 11110011		rgia Pacific Gypsum LLC	94509	0.07	0.04		0.05		0.0
		3							
		F Power Systems, LP (Site 3)	94509	0.02	0.01		0.12	0.13	0.0
		F Power Systems,LP (Site 4)	94509	0.01			0.09	0.07	0.1
	9029 Kie-0		94509				0.05		0.0
Claudan		nt Delta, LLC	94509				0.04		0.1
Clayton		MEX Construction Materials Pacific, LLC	94517	0.06					-
Concord		vronTexaco Business and Real Estate	94520			0.02	0.04		0.0
		fic Gas & Electric Company	94520			0.02	0.09		0.0
		Bay Area Rapid Transit District	94520	0.08	0.05				
	4022 SFP		94520			0.06			-
Crockett	17315 C &	H Sugar Company, Inc.	94525	0.07	0.04	0.02	0.02		0.2

COUNTY/CITY	PLANT #	PLANT NAME	ZIPCODE	PM ₁₀	PM _{2.5}	ROG	NO _X	SO ₂	СО
	8664	Crockett Cogeneration	94525	0.06	0.06	0.05	0.21	0.01	0.10
El Sobrante	11189	East Bay Municipal Utility District	94803				0.05		
Martinez	10295	Air Products & Chemicals, Inc	94553	0.02	0.02	0.01			0.17
	907	Central Contra Costa Sanitary District	94553	0.01	0.01	0.09	0.20		0.07
	1820	Martinez Cogen, LP	94553	0.05	0.04	0.12	0.29		0.07
	17559	Plains Products Terminals LLC	94553			0.12			
		Rhodia Inc	94553	0.04	0.02		0.05	0.57	0.01
		Shell Martinez Refinery	94553	0.90	0.84	3.53	3.02	3.19	3.07
		Tesoro Refining and Marketing	94553	0.42	0.28	3.14	4.48	7.75	0.88
Pittsburg		Calpine Pittsburg LLC	94565	0.02	0.02	0.02	0.06		0.32
		Criterion Catalysts Company LP	94565	0.04	0.04	0.02	0.05		0.09
		Delta Energy Center	94565	0.10	0.10	0.32	0.38	0.02	2.35
		Dow Chemical Company	94565	0.01	0.01	0.06	0.02		
		GWF Power Systems,LP (Site 1)	94565	0.02	0.01		0.13	0.14	0.07
		GWF Power Systems,LP (Site 2)	94565				0.15	0.16	0.02
		GWF Power Systems,LP (Site 5)	94565	0.01			0.14	0.16	0.06
	4618	Keller Canyon Landfill Company	94565	0.04	0.02	0.06	0.03	0.04	0.09
	11866	Los Medanos Energy Center	94565	0.06	0.06	0.02	0.24	0.02	0.02
	12	Mirant Delta, LLC	94565	0.01	0.01		0.04		0.13
	2371	USS-POSCO Industries	94565	0.09	0.05	0.04	0.13		0.05
Richmond	13637	BP West Coast Products, LLC	94804			0.07			
	72	Chevron Inc.	94802			0.18			
	10	Chevron Products Company	94802	0.62	0.55	2.80	2.26	4.65	1.50
	15693	ConocoPhillips	94804			0.12			
	23	General Chemical West LLC	94801					0.47	
	13002	Kinder Morgan Liquids Terminal	94804			0.05			
	706	New NGC, Inc	94804				0.10		0.02
	93	Safeway Stores Inc, Bakery Plant	94804			0.11			
	2352	SF Bay Area Rapid Transit District	94801	0.08	0.05				
	1840	West Contra Costa County Landfill	94801	0.08	0.06	0.07	0.05	0.01	0.25
Rodeo	22	Conoco Phillips Refining Company	94572	0.22	0.21		1.64	3.64	0.02
	16	Conoco Phillips - San Francisco Refinery	94572	0.17	0.17	0.45	0.92	1.00	0.82
Marin									
Corte Madera	18198	New WinCup Holdings, Inc	94925			0.07	0.04		
Novato	1179	Redwood Landfill Inc.	94948	0.24	0.07	0.12	0.05	0.12	0.17
San Rafael	653	Central Marin Sanitation Agency	94901			0.01	0.04		0.09
	11036	Dutra Materials/San Rafael Rock Quarry	94901	0.07	0.05				
Napa									
American Canyon	11671	Gas Recovery Systems, Inc.	94558	0.01	0.01	0.02	0.07		0.16
Napa	1634	Napa State Hospital	94558			0.01	0.12		0.04
	2158	Syar Industries Inc.	94558	0.05	0.01		0.01		0.02
San Francisco									
	3288	BAE Systems San Francisco Ship Repair, Inc.	94107			0.06			
	3482	Colorgraphics Inc.	94107			0.06			
	533	Darling International	94124			0.12			
	26	Mirant Potrero, LLC	94107	0.06	0.06	0.02	0.15		0.64
	16151	NRG Energy Center LLC	94103				0.05		0.05
	1725	R J McGlennon Co, Inc.	94103			0.05			
		San Francisco International Airport	94128			0.02	0.08		0.02
	568	San Francisco South East Treatment Plant	94124			0.06	0.05	0.03	0.02
		San Francisco, City & County, PUC	94132			0.03	0.10		0.02
		UCSF/Parnassus	94122	0.02	0.02	0.02	0.09		0.05
		United Airlines, SF Maintenance Center	94128	0.07	0.07	0.19	0.29		0.10
San Mateo									
Half Moon Bay	2266	Browning-Ferris Industries of California	94019	0.11	0.04	0.18	0.07	0.01	0.21
a John Day	2230		0.010	J.11	J.0 T	5.10	0.01	0.01	J. L I

COUNTY/CITY	PLANT #	PLANT NAME	ZIPCODE	PM ₁₀	PM _{2.5}	ROG	NO _X	SO ₂	СО
Menlo Park	11668	Gas Recovery Systems, Inc.	94025			0.02	0.17		0.38
	3011	IPT SRI Cogeneration Inc.	94025			0.02	0.06		0.08
Redwood City	18642	PABCO Gypsum	94063	0.05	0.03				
San Carlos	9565	Hatcher Trade Press Inc.	94070			0.06			
South San Francisco	1257	Genentech, Inc.	94080			0.04	0.05		0.03
	1579	Granite Rock Company	94080				0.01		0.07
	449	Lithotype Company	94080			0.05			
Santa Clara									
Coyote	12183	Metcalf Energy Center	95013	0.13	0.13	0.03	0.27	0.02	0.66
Cupertino	17	Lehigh Southwest Cement Company	95014	0.12	0.08	0.06	5.12	0.51	3.48
Gilroy	11180	Calpine Gilroy Cogen,LP & Gilroy Energy Center	95020	0.01	0.01		0.19		0.04
	13566	Recology Pacheco Pass	95021	0.01		0.03	0.01		0.0
Los Gatos	5346	West Coast Aggregates Inc.	95030	0.07	0.01				
Milpitas	9013	International Disposal Corporation	95035	0.12	0.02	0.12			
		Seagate Technology	95035			0.05			
Mountain View	2740	City of Mountain View (Shoreline Landfill)	94043	0.01	0.01	0.06	0.05	0.01	0.13
		El Camino Hospital	94040				0.05		0.01
	19885	Google Inc.	94043			0.01	0.01		0.05
Palo Alto		Cardinal Cogen Inc.	94305	0.07	0.07	0.14	0.30		0.25
		Palo Alto Regional Water Quality Plant	94303				0.10	0.01	
San Jose		Chevron Products Company	95133			0.10			
		Gas Recovery Systems, Inc.	95134	0.01	0.01	0.07	0.32	0.01	0.80
		Gas Recovery Systems, Inc.	95120			0.03	0.19		0.3
		Kirby Canyon Landfill	95198	0.03		0.07	0.04		0.20
		MASS Precision Sheetmetal, Inc.	95131			0.10			
		O L S Energy-Agnews	95134	0.04	0.04	0.08	0.10		0.08
		San Jose State University (Cogen Plant)	95192	0.04 		0.02	0.09		0.06
		San Jose/Santa Clara Water Pollution Control	95134	0.02	0.02	0.12	0.34	0.02	0.59
		SFPP, LP	95131			0.13			
Santa Clara		City of Santa Clara	95050			0.02			0.0
		City of Santa Clara, Silicon Valley Power	95050	0.01	0.01	0.04	0.16		0.12
		Graphic Packaging International	95050	0.03	0.03	0.17	0.21		0.62
		Microsoft Corporation	95050				0.06		0.0
		Owens Corning Insulating Systems, LLC	95050	0.39	0.38	0.03	0.11		0.03
		Siliconix, Incorporated/Vishay Siliconix	95054			0.14			
Sunnyvale		City of Sunnyvale Water Pollution Control	94089			0.02	0.07		0.10
		Lockheed Martin Corporation	94089			0.02	0.06		0.0
Solano	33	Lockrood Martin Corporation	34003			0.02	0.00		0.0
Benicia	12004	Delta Steel Erectors	94510				0.01		0.0
		NuStar Logistics, L P	94510			0.05			U.U.
		Valero Benicia Asphalt Plant	94510			0.12	0.04		0.02
		Valero Refining Company - California	94510	0.71	0.58	0.63	5.33	14.52	1.77
Fairfield		Anheuser-Busch, Inc.	94533	0.01	0.01	0.07	0.05	0.01	0.33
		Ball Metal Beverage Container	94533			0.69	0.03		0.5
Suisun City		Potrero Hills Landfill, Inc.	94585	0.11	0.02	0.05	0.02		0.0
Vallejo		Syar Industries, Inc.	94591	0.05			0.02		0.0
Sonoma	120	Gyai muusines, mo.	34331	0.03			0.02		
Cotati	15/1	Stony Point Rock Quarry, Inc.	94931	0.10	0.02				
Petaluma		Hunt & Behrens, Inc.	94952	0.10	0.02				
						 0 11	 0 11	0.00	0.2
		Sonoma County Department of Public Works	94952	0.02	0.02	0.11	0.11	0.02	0.3
		Willowbrook Feeds	94975	0.06	0.04		0.02		0.4
Santa Rosa		City of Santa Rosa Wastewater Treatment	95407			0.02	0.05		0.10
	1/136	SPRINT, Environmental Health & Safety	95404				0.04		0.09
		Total		8	6	19	33	38	26