

**APPENDIX B-3**  
**EMISSIONS SUMMARY**  
**BY**  
**COUNTY AND**  
**POLLUTANT**

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
TOXIC AIR CONTAMINANTS  
2003 ANNUAL REPORT**

**EMISSION SUMMARY BY  
COUNTY AND POLLUTANT**

(lbs/year)

POLLUTANT	ALAMEDA	CONTRA COSTA	MARIN	NAPA	SAN FRANCISCO	SAN MATEO	SANTA CLARA	SOLANO	SONOMA	TOTAL EMISSIONS
Acetaldehyde	384	1050	0.35	1.16	1.91	9.01	6960	342	0.409	8750
Acrolein	115	0.0081	0	0	0.0101	0	0	0	0	115
Acrylic acid	0	0	0	0	0	0	0	45	0	45
Acrylonitrile	209	0	0.74	35.6	0	0	0	0	0	245
Allyl chloride	53.5	0	0	0	0	0	0	0	0	53.5
Ammonia (NH3) pollutant	97000	1.01E+06	0	0	31	23900	1.15E+06	422000	0	2.70E+06
Arsenic (all)	3.6	5.27	0.163	0.0407	0.264	0.13	1.1	0.336	0.372	11.3
Benzene	3140	21900	383	252	560	1630	15100	1900	1230	46100
Benzyl chloride	770	0	0	3.23	0	64.8	0	0	0	838
Beryllium (all) pollutant	0.267	0.133	0.00527	0.00792	0.155	0.0345	0.387	0.038	0.178	1.21
Bromine	0.0183	0	0	0	0	0	0	0	0	0.0183
Butadiene, 1,3-	5.48	304	0.752	0	0	0	60	74.5	0	445
Butyl alcohol, tert-	0	691	0	0	0	0	6.99	0	0	698
Butyl cellosolve	147000	50300	1660	2240	1650	7820	19200	69800	4410	304000
Cadmium	12.6	9.75	0.0269	0.0388	0.687	0.16	2.97	23.3	0.77	50.3
Carbon tetrachloride	8.41	2010	1.39	0.626	0	0.858	5.62	0.432	1.07	2030
Cellosolve	883	519	0	0	123	373	2000	92000	355	96300
Cellosolve acetate	238	119	11.4	0	417	933	2530	302	144	4690
Chlorinated dioxins & furans (Calif TCDD)	0.000453	2.62E-05	2.78E-06	2.37E-06	0.000008	5.42E-06	5.04E-05	2.20E-06	5.97E-06	0.000556
Chlorine pollutant	0	1910	0	0	0	0	0.000321	0	1.52	1910
Chlorobenzene	80.1	287	0	0	0	0	4300	0.7	0	4670
Chlorobenzene - other/not spec	5100	0	0	0	0	0	0	0	0	5100
Chloroform	3400	1960	1700	337	524	1960	3140	720	891	14600
Chromium (hexavalent)	0.412	7.58	0.138	0.0144	0.216	0.0696	0.743	0.399	0.0502	9.62
Copper (all) pollutant	23.2	22.1	0.0518	0.0266	0.000493	0.0696	3.95	386	0.0672	436
Cresol	337	14.7	0	0	0	0	14.4	0	23.6	390
Dichlorobenzene	822	5290	1090	51.4	33.8	339	137	75.7	21.3	7860
Dioxane, 1,4-	31.8	47.9	1.22	0	0	163	156	2.33	0	402

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
TOXIC AIR CONTAMINANTS  
2003 ANNUAL REPORT**

**EMISSION SUMMARY BY  
COUNTY AND POLLUTANT**

(lbs/year)

POLLUTANT	ALAMEDA	CONTRA COSTA	MARIN	NAPA	SAN FRANCISCO	SAN MATEO	SANTA CLARA	SOLANO	SONOMA	TOTAL EMISSIONS
Epichlorohydrin	0	0	0	0	0	0	0.0832	0	0	0.0832
Ethyl acrylate	77	0	0	0.0812	0	0.126	0.313	0	0	77.5
Ethyl benzene	2860	12200	722	620	191	3040	5690	682	867	26900
Ethyl chloride	273	176	113	82.1	0	110	722	56.6	133	1660
Ethylene dibromide	65.6	272	0.647	0	0	0	0.0213	0.000791	0.0353	338
Ethylene dichloride	185	97.2	58.2	41.6	0	56.6	370	28.5	71.3	908
Ethylene oxide	27	1.72	1.62	0.142	0.706	1.63	2.22	0.145	0.116	35.3
Formaldehyde	8740	113000	70.6	2590	12900	14100	43500	9050	1570	205000
Glycol ether - other/not spec	24100	5580	790	4160	1330	2820	8040	512	1130	48400
Hexachlorobenzene	0	0.0272	0	0	0	0	0.0157	0	0	0.0429
Hexane	11900	19700	821	595	170	2010	6800	3630	82000	128000
Hydrochloric acid mist pollutant	19.6	16700	0	0	0	343	895	0	0.0406	17900
Hydrogen Chloride (HCl)	1970	134000	4040	260	0	220	7140	65.9	195	148000
Hydrogen Fluoride (HF)	140	204	0.871	572	0	1.97	658	0.604	1.79	1580
Hydrogen Sulfide (H2S)	10600	8530	1690	682	8070	10500	22600	29700	2100	94500
Isophorone	4.04	0	0	0	0	1.5	0	0	85.6	91.1
Lead (all) pollutant	402	3.64	0.127	0.0888	0.965	0.282	10	0.189	0.794	419
Manganese	512	275	0.0147	0.0371	0.88	0.175	21.8	289	0.988	1100
Mercury (all) pollutant	15.6	296	1.28	1.09	0.186	2.87	167	33.1	2.95	520
Methyl alcohol	45000	235000	127	0	1510	3630	32100	18000	399	335000
Methyl bromide	8.98	0	0	0	0	0	0	0	0	8.98
Methyl cellosolve	1640	390	0	0	88.6	0	19.8	0	0	2140
Methyl ethyl ketone (MEK)	53800	17800	1610	1140	9240	12200	46100	19000	7670	168000
Methyl methacrylate	0	3.53	0	0	0	0	16.5	0	0	20.1
Methyl tertiary-butyl ether	1230	178000	28.6	320	528	6800	20800	12200	422	220000
Methylene chloride	21900	16400	3400	1500	707	16800	25600	1560	3300	91200
Naphthalene	0.374	129	0.0245	29.1	0.224	7.81	2.11	0	0	169
Nickel pollutant	105	184	0.263	0.489	10.6	5.74	26.8	441	12.1	787

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT  
TOXIC AIR CONTAMINANTS  
2003 ANNUAL REPORT**

**EMISSION SUMMARY BY  
COUNTY AND POLLUTANT**

(lbs/year)

POLLUTANT	ALAMEDA	CONTRA COSTA	MARIN	NAPA	SAN FRANCISCO	SAN MATEO	SANTA CLARA	SOLANO	SONOMA	TOTAL EMISSIONS
PAH's (benzo[a]pyrene equiv)	0.000756	422	0.000112	0.138	0.797	0.000217	0.184	34.5	0.000241	457
Perchloroethylene	113000	60300	30600	9520	75900	88400	121000	9280	24300	532000
Phenol	1880	5510	0	0	51.7	13.9	3090	121	3630	14300
Phosphine	110	0	0	0	0	0	0	0	0	110
Phthalic anhydride	14.8	0	0	0	0	0	0	0	0	14.8
Polychlorinated biphenyl (PCB)	0	0.623	0	0	0	0	2.02	0	0	2.64
Selenium	511	0.119	0.0555	0.0434	0.00124	0.113	90.4	0.0403	0.11	602
Styrene	67400	27100	185	11900	7030	24000	75200	37100	9310	259000
Tetrachloroethane, 1,1,2,2-	99.5	0.00328	0	0	0	0	0	0	0	99.5
Toluene	71600	85600	8400	5240	14500	34100	68100	18600	15900	322000
Toluene diisocyanate (TDI)	200	0	0	0	0	0	0.00833	0	0	200
Trichloroethane, 1,1,1- (w/o dioxane)	60200	2020	462	65.2	0	9800	7860	939	111	81500
Trichloroethane, 1,1,1- (with dioxane)	7440	958	866	250	101	1250	926	23.2	265	12100
Trichloroethane, 1,1,2-	1.65	0	0	0	0	0	0	0	0	1.65
Trichloroethylene	5170	1070	701	400	237	2400	9820	402	994	21200
Triethylamine	61.2	0	0	0	0	0	0	0	224	285
Vinyl chloride	1880	1140	699	479	0	946	4210	323	800	10500
Vinylidene chloride	65.6	44.5	27.1	19.7	0	27	176	13.6	33.7	408
Xylene	89900	91600	7260	18700	18000	21400	50900	10200	15000	323000
Zinc pollutant	613	1610	0.405	0.345	0.000329	0.902	6.81	781	0.774	3010