

APPENDIX B-3
EMISSIONS SUMMARY

BY
COUNTY AND
POLLUTANT

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT
TOXIC AIR CONTAMINANTS
2001 ANNUAL REPORT
JULY 2003**

**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	48200	1040	0	1	2	9	6040	354	1	55700
Acrolein	211	0	0	0	0	0	0	0	3.7	215
Acrylic acid	0	1	0	0	0	0	0	0	6	7
Acrylonitrile	40.8	0	0.79	57.7	0	0	0	0	0	99.2
Allyl chloride	83	0	0	0	0	0	0	0	0	83
Ammonia (NH3) pollutant	102000	900000	0	0	26	29800	1320000	397000	0	2750000
Arsenic (all)	4.16	30.3	0.077	0.03	0.081	0.115	1.14	0.364	0.537	36.8
Asbestos pollutant	0	0	0	0	0	0	0	0	0	0
Benzene	2460	45200	399	199	462	1510	16800	2040	550	69600
Benzyl chloride	894	0	0	5	0	62	0	0	0	961
Beryllium (all) pollutant	0.315	0.152	0.021	0.004	0.047	0.026	0.322	0.054	0.233	1.17
Butadiene, 1,3-	0	3960	0.8	0	0	0	71.1	74.7	0	4100
Butyl alcohol, tert-	0	1090	0	0	0	0	23	0	0	1120
Butyl cellosolve	136000	23500	1920	1160	2190	11400	49200	74100	3380	303000
Cadmium	16	8.06	0.093	0.023	0.227	0.123	1.79	22.2	1.02	49.5
Carbon tetrachloride	3	1880	1.4	0.5	0	0.8	8.5	0.3	1	1900
Cellosolve	4950	359	0	0	157	475	8000	94300	4980	113000
Cellosolve acetate	764	271	261	0	381	473	5420	176	179	7930
Chlorinated dioxins & furans	0.000559	0.000026	0.000002	0.000001	0.000007	0.000005	0.000057	0.000002	0.000012	0.000675
Chlorine pollutant	0	1910	0	0	0	0	0	0	2	1920
Chlorobenzene	146	803	0	0	0	0	5450	1	0	6400
Chlorobenzene - other	10400	0	0	0	0	52	28	0	0	10500
Chloroform	3480	2640	1320	354	833	2390	4530	746	703	17000
Chromium (hexavalent)	0.927	7.2	0.0277	0.0116	0.0907	0.0639	0.532	0.425	0.0907	9.37
Copper (all) pollutant	23	21	0	0	0	0	4	367	0	415
Cresol	253	324	0	0	0	0	10	0	32	618
Dichlorobenzene	427	182	183	55	0	364	153	81	1	1450

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT
TOXIC AIR CONTAMINANTS
2001 ANNUAL REPORT
JULY 2003**

**EMISSION SUMMARY BY
COUNTY AND POLLUTANT**

(lbs/year)

POLLUTANT	ALAMEDA	CONTRA COSTA	MARIN	NAPA	SAN FRANCISCO	SAN MATEO	SANTA CLARA	SOLANO	SONOMA	TOTAL EMISSIONS
Dioxane, 1,4-	501	81	1	0	17	354	280	4	0	1240
Epichlorohydrin	0	0	0	0	0	0	6.2	0	0	6.2
Ethyl acrylate	69	0	0	0	0	23	1	0	0	93
Ethyl benzene	3260	18300	721	509	57	2530	6280	415	831	32900
Ethyl chloride	250	160	105	63	0	95	627	43	123	1470
Ethylene dibromide	9.2	272	0.7	0	0	0	0	0	0	282
Ethylene dichloride	209	271	54.6	32.8	0	49.5	322	21.7	63.7	1020
Ethylene oxide	31.1	1.9	1.6	0.2	0.8	2	5.3	0.2	11.5	54.7
Formaldehyde	12900	132000	295	2650	21600	3910	36000	1860	2930	215000
Glycol ether - other	17900	6510	956	0	2410	21800	11000	5750	439	66800
Hexachlorobenzene	0	0.03	0	0	0	0	0	0	0	0.03
Hexamethylene-1,6-diisocyanate	0	0	0	0	0	1.9	0	0	0	1.9
Hexane	11400	131000	822	467	234	4940	19500	3010	65200	236000
Hydrochloric acid mist pollutant	467	17800	0	0	0	491	868	1	0	19600
Hydrogen Chloride (HCl)	13000	159000	5650	1850	0	226	4510	64	379	185000
Hydrogen Fluoride (HF)	20	13	1	515	0	2	658	1	3	1210
Hydrogen Sulfide (H2S)	16900	28900	1580	1180	6660	11400	24300	29900	1840	123000
Isophorone	8	0	0	0	0	26	0	0	80	114
Lead (all) pollutant	462	4	0	0	1	0	11	0	1	480
Manganese	611	288	0	0	0	0	24	277	1	1200
Mercury (all) pollutant	44.6	322	1.3	0.9	0.1	2.8	201	31.8	5.8	610
Methyl alcohol	63600	224000	130	0	1530	3650	75600	15900	1980	386000
Methyl cellosolve	6500	615	0	0	61	0	16	0	0	7190
Methyl methacrylate	0	0	0	0	0	19	16	0	0	35
Methyl tertiary-butyl ether	1260	184000	29	281	434	7280	20500	8000	339	222000
Methylene chloride	28500	8800	3760	1290	1970	20800	27900	2660	2690	98400
Naphthalene	0	0	0	0	0	0	3	0	0	162

**BAY AREA AIR QUALITY MANAGEMENT DISTRICT
TOXIC AIR CONTAMINANTS
2001 ANNUAL REPORT
JULY 2003**

**EMISSION SUMMARY BY
COUNTY AND POLLUTANT**

(lbs/year)

POLLUTANT	ALAMEDA	CONTRA COSTA	MARIN	NAPA	SAN FRANCISCO	SAN MATEO	SANTA CLARA	SOLANO	SONOMA	TOTAL EMISSIONS
Nickel pollutant	53.8	213	1.33	0.26	3.48	2.97	22.5	420	15.8	734
PAH's (benzo[a]pyrene equiv)	0.007	445	0	0	0.949	0	0.218	42.7	0	489
Perchloroethylene	137000	71800	32900	8990	90800	92700	140000	9670	26400	611000
Phenol	1550	5510	0	0	0	0	3170	118	8710	19100
Phosphine	110	0	0	0	0	0	0	0	0	110
Phthalic anhydride	64	0	35	0	0	0	0	0	0	99
Polychlorinated biphenyl (PCB)	0.001	0.611	0	0	0	0	2.39	0	0	3
Selenium	648	0.1	0.1	0	0	0.1	109	0	0.2	758
Styrene	65800	35600	250	6150	6970	11000	107000	1170	9630	244000
Toluene	65000	129000	10500	5310	27200	32500	68300	15600	14800	368000
Toluene diisocyanate (TDI)	296	0.1	0	0	0	0	4.1	0	0	300
Trichloroethane, 1,1,1- (w/o dioxane)	88000	4240	0	382	676	19600	14300	990	375	130000
Trichloroethane, 1,1,1- (with dioxane)	0	0	1290	0	0	0	0	0	0	1290
Trichloroethylene	9180	1070	691	325	104	2240	11200	344	795	25900
Triethylamine	0	0	0	0	0	0	0	0	133	133
Vinyl chloride	1690	1050	660	394	0	832	3690	246	722	9270
Vinylidene chloride	61	41	25	15	0	24	154	10	450	780
Xylene	86700	182000	7010	5200	14900	21300	64300	9630	14100	405000
Zinc pollutant	746	1880	0	0	0	1	8	743	2	3380
Total Weighted* Carcinogenic Emissions	2650	9140	475	220	1190	1250	3450	858	476	19700
Total Weighted** non-Carcinogenic Emissions	739	1470	37	27	157	100	602	221	51	3410

BAY AREA AIR QUALITY MANAGEMENT DISTRICT
TOXIC AIR CONTAMINANTS
2001 ANNUAL REPORT
JULY 2003

EMISSION SUMMARY BY
COUNTY AND POLLUTANT

Notes: The following weighted emissions are calculated using the prioritization scoring method for AB2588 risk assessment

* weighted carcinogenic emissions = (facility emissions) (pollutant unit risk value) (normalization factor)
= (emissions lbs/year) (urv ug/m³) (1700)

** weighted non-carcinogenic emissions = $\frac{\text{(facility emissions) (normalization factor)}}{\text{(acceptable exposure level) (hours/year)}}$
= $\frac{\text{(emissions lbs/hr) (150)}}{\text{(ael ug/m³) (8760 hrs/yr)}}$