

Appendix C

Detailed Analyses of Industrial Categories

Table C-1. HAZREL Scores from TRI by Industrial Category and Chemical (for HAZREL scores greater than 0)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Food and Kindred Products				
Dichloroethane, 1,2-	1	1,804	3.2E+ 01	2
Lead	1	875	2.0E+ 01	2
Nickel	14	1,909	1.9E+ 02	16
Furniture and Fixtures				
Nickel	7	439	4.3E+ 01	6
Toluene	9	942	2.4E+ 00	1
Xylenes	11	725	1.2E+ 02	12
Industrial Inorganic Chemicals				
Acrylonitrile	3	382	1.8E+ 01	3
Anthracene	2	172	9.5E+ 01	4
Antimony	2	2,385	6.0E+ 01	2
Benzene	6	1,082	1.4E+ 01	2
Chlorobenzene	5	2,922	5.8E+ 01	3
Chromium	3	364	5.1E+ 00	2
Dichlorobenzene, 1,2-	3	1,129	9.7E+ 01	5
Dichlorobenzene, 1,3-	1	117	2.2E+ 00	1
Dichlorobenzene, 1,4-	1	1,080	9.0E+ 01	2
Dichloroethane, 1,2-	6	4,244	7.6E+ 01	9
Dichloropropane, 1,2-	2	940	2.1E+ 02	5
Hexachlorobenzene	2	390	1.3E+ 03	6
Hexachlorobutadiene	3	1,174	2.2E+ 02	5
Hexachloroethane	1	290	1.7E+ 01	2
Mercury	12	268	1.9E+ 03	29
Naphthalene	7	3,035	4.2E+ 01	6
Nickel	7	592	5.7E+ 01	6
Silver	1	85	1.2E+ 02	3
Tetrachloroethane, 1,1,2,2-	3	2,927	8.8E+ 02	7
Tetrachloroethene	5	8,306	5.4E+ 02	10
Tetrachloromethane	7	937	1.2E+ 02	6
Trichloroethane, 1,1,1-	3	58	7.5E+ 00	2
Trichloroethane, 1,1,2-	5	680	1.4E+ 02	7
Trichloroethene	3	2,925	5.0E+ 01	2
Trichloromethane	11	20,092	2.4E+ 01	3
Xylenes	2	271	4.3E+ 01	2
Zinc	2	313	3.8E+ 00	1
Industrial Organic Chemicals				
Acrylonitrile	11	33,140	1.6E+ 03	11
Anthracene	7	138	7.6E+ 01	6
Antimony	1	2,089	5.2E+ 01	2
Benzene	47	2,268	2.9E+ 01	4
Biphenyl	9	72,524	1.9E+ 02	7

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Bis(2-ethylhexyl) phthalate	6	648	1.7E+ 01	2
Chlordane	1	28	1.4E+ 04	5
Chlorobenzene	15	901	1.8E+ 01	8
Chromium	3	915	1.3E+ 01	2
Copper	8	5,474	1.0E+ 02	10
Cresol, m-	7	2,820	3.9E+ 01	4
Cresol, o-	3	10,235	3.6E+ 01	2
Cresol, p-	8	217,405	1.4E+ 01	2
Cresols	10	575	8.1E+ 00	2
Dichlorobenzene, 1,2-	6	957	8.2E+ 01	8
Dichlorobenzene, 1,4-	3	259	2.1E+ 01	4
Dichloroethane, 1,2-	11	1,023	1.8E+ 01	5
Dichloropropane, 1,2-	2	72	1.6E+ 01	3
Diethyl phthalate	2	64	4.5E+ 00	1
Dimethyl phthalate	6	29,903	5.1E+ 02	6
Dimethylphenol, 2,4-	1	80	1.6E+ 00	1
Heptachlor	1	13	7.3E+ 01	2
Hexachlorobenzene	1	80	2.7E+ 02	3
Hexachlorobutadiene	1	30	5.7E+ 00	1
Naphthalene	16	1,286	1.8E+ 01	3
Nickel	8	9,161	8.9E+ 02	14
Phenol	62	359,287	4.0E+ 02	21
Silver	1	62	8.7E+ 01	2
Tetrachloroethene	10	599	3.9E+ 01	7
Tetrachloromethane	10	668	8.7E+ 01	9
Toluene	74	51,751	1.3E+ 02	12
Trichloroethane, 1,1,1-	4	41	5.3E+ 00	1
Trichloroethane, 1,1,2-	5	449	9.0E+ 01	5
Trichloromethane	14	2,745	3.3E+ 00	1
Xylene, o-	11	3,594	5.4E+ 02	10
Xylenes	53	59,284	9.5E+ 03	56
Leather and Leather Products				
Chromium	10	3,009	4.2E+ 01	8
Xylenes	2	263	4.2E+ 01	4
Lumber and Wood Products				
Arsenic	22	1,455	1.0E+ 02	12
Chromium	20	1,781	2.5E+ 01	6
Copper	20	1,201	2.3E+ 01	4
Pentachlorophenol	22	2,813	2.2E+ 03	38
Phenol	4	3,288	3.6E+ 00	1
Xylenes	4	21	3.3E+ 00	2
Metal Products and Finishing				
Acrylonitrile	1	250	1.2E+ 01	2
Antimony	21	1,436	3.6E+ 01	5

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Arsenic	2	79	5.6E+ 00	1
Bis(2-ethylhexyl) phthalate	8	1,363	3.7E+ 01	6
Cadmium	17	568	3.0E+ 02	15
Chromium	376	21,284	3.0E+ 02	38
Copper	694	41,748	7.9E+ 02	241
Cresol, m-	1	220	3.1E+ 00	1
Cresols	1	800	1.1E+ 01	2
Di-n-butyl phthalate	2	3,488	1.9E+ 01	2
Dichloroethane, 1,2-	2	450	8.1E+ 00	2
Dichloromethane	43	26,702	6.4E+ 00	2
Dichloropropane, 1,2-	1	3,500	7.7E+ 02	3
Diethyl phthalate	5	60,500	4.3E+ 03	9
Dimethyl phthalate	3	131	2.2E+ 00	2
Lead	171	7,531	1.7E+ 02	43
Mercury	2	3	1.8E+ 01	2
Naphthalene	1	255	3.6E+ 00	1
Nickel	462	23,005	2.2E+ 03	242
Silver	14	142	2.0E+ 02	12
Tetrachloroethene	33	997	6.5E+ 01	13
Toluene	80	27,477	6.9E+ 01	7
Trichlorobenzene, 1,2,4-	1	353	1.5E+ 00	1
Trichloroethane, 1,1,1-	115	10,690	1.4E+ 03	39
Trichloroethane, 1,1,2-	1	1,300	2.6E+ 02	3
Trichloroethene	90	6,633	1.1E+ 02	26
Xylene, p-	1	200	3.2E+ 01	2
Xylenes	95	12,155	1.9E+ 03	68
Zinc	59	25,009	3.0E+ 02	16
Nonclassifiable				
Anthracene	1	25	1.3E+ 01	2
Benzene	1	394	5.1E+ 00	1
Copper	3	253	4.8E+ 00	1
Silver	1	1	1.8E+ 00	1
Xylenes	1	63	1.0E+ 01	2
Other Chemical Products				
Acrylonitrile	4	142	6.7E+ 00	1
Antimony	1	63	1.6E+ 00	1
Biphenyl	12	1,647	4.3E+ 00	1
Bis(2-ethylhexyl) phthalate	2	88	2.4E+ 00	1
Chromium	4	169	2.4E+ 00	1
Copper	6	192	3.6E+ 00	1
Di-n-butyl phthalate	14	768	4.2E+ 00	1
Dichlorobenzene, 1,2-	3	129	1.1E+ 01	2
Dichlorobenzene, 1,4-	2	833	6.9E+ 01	2
Dichloroethane, 1,2-	3	733	1.3E+ 01	2
Diethyl phthalate	21	770	5.5E+ 01	14

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Dimethyl phthalate	3	66	1.1E+ 00	1
Dimethylphenol, 2,4-	1	63	1.3E+ 00	1
Naphthalene	19	1,105	1.5E+ 01	2
Nickel	7	163	1.6E+ 01	4
Tetrachloroethene	14	272	1.8E+ 01	4
Toluene	59	9,507	2.4E+ 01	4
Trichlorobenzene, 1,2,4-	4	893	3.7E+ 00	2
Trichloroethane, 1,1,1-	45	7,598	9.9E+ 02	26
Trichloroethene	4	66	1.1E+ 00	1
Xylenes	70	20,364	3.3E+ 03	75
Other Trade and Services				
Copper	2	68	1.3E+ 00	1
Nickel	2	68	6.5E+ 00	1
Xylene, m-	1	33	5.2E+ 00	1
Xylene, o-	1	16	2.3E+ 00	1
Xylene, p-	1	33	5.2E+ 00	1
Paper and Allied Products				
Biphenyl	2	680	1.8E+ 00	1
Butyl benzyl phthalate	3	1,846	2.8E+ 00	1
Copper	3	64	1.2E+ 00	1
Diethyl phthalate	1	128	9.1E+ 00	1
Naphthalene	4	2,933	4.1E+ 01	4
Phenol	53	102,227	1.1E+ 02	16
Toluene	16	4,815	1.2E+ 01	5
Trichloroethane, 1,1,1-	2	68	8.8E+ 00	1
Trichloroethene	1	158	2.7E+ 00	1
Trichloromethane	98	519,845	6.2E+ 02	81
Xylenes	15	1,781	2.9E+ 02	18
Pesticides				
Arsenic	1	63	4.4E+ 00	1
BHC, gamma- \ Lindane	2	2	3.2E+ 02	5
Copper	1	100	1.9E+ 00	1
Dichloroethane, 1,2-	3	394	7.1E+ 00	2
Hexachlorobenzene	2	69	2.3E+ 02	5
Methoxychlor	1	5	2.9E+ 02	3
Naphthalene	4	374	5.2E+ 00	1
Pentachlorophenol	1	11	8.7E+ 00	1
Tetrachloromethane	2	15	2.0E+ 00	1
Toluene	5	1,146	2.9E+ 00	1
Xylene, m-	1	17	2.7E+ 00	1
Xylene, o-	2	258	3.9E+ 01	3
Xylenes	6	277	4.4E+ 01	5
Petroleum and Coal Products				
Toluene	8	18,322	4.6E+ 01	4

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Xylene, m-	1	9	1.4E+ 00	1
Xylenes	4	137	2.2E+ 01	4
Petroleum Refining				
Anthracene	5	147	8.1E+ 01	6
Arsenic	2	68	4.8E+ 00	1
Benzene	106	71,266	9.3E+ 02	65
Chromium	10	4,737	6.6E+ 01	9
Copper	3	447	8.5E+ 00	1
Cresols	11	12,308	1.7E+ 02	11
Dichloropropane, 1,2-	1	211	4.6E+ 01	2
Dimethylphenol, 2,4-	2	1,363	2.7E+ 01	3
Lead	2	299	6.9E+ 00	2
Naphthalene	40	10,252	1.4E+ 02	19
Nickel	7	5,775	5.6E+ 02	14
Phenol	54	313,317	3.4E+ 02	27
Tetrachloromethane	4	170	2.2E+ 01	5
Toluene	101	101,336	2.5E+ 02	33
Trichloroethane, 1,1,1-	10	540	7.0E+ 01	11
Xylene, m-	7	9,178	1.5E+ 03	15
Xylene, o-	8	2,646	4.0E+ 02	15
Xylene, p-	7	8,443	1.4E+ 03	15
Xylenes	89	74,029	1.2E+ 04	137
Pharmaceuticals				
Benzene	1	18,750	2.4E+ 02	3
Bis(2-ethylhexyl) phthalate	2	135	3.6E+ 00	2
Chlorobenzene	2	1,641	3.3E+ 01	3
Dichlorobenzene, 1,2-	2	7,626	6.6E+ 02	6
Dichlorobenzene, 1,3-	1	375	7.1E+ 00	1
Dichloroethane, 1,2-	4	1,381	2.5E+ 01	5
Dichloromethane	45	237,342	5.7E+ 01	9
Diethyl phthalate	1	2,834	2.0E+ 02	3
Dimethyl phthalate	1	290	4.9E+ 00	1
Ethylbenzene	3	4,146	1.2E+ 00	1
Nickel	1	5,600	5.4E+ 02	3
Phenol	3	2,523	2.8E+ 00	1
Tetrachloroethane, 1,1,2,2-	1	38	1.1E+ 01	2
Toluene	38	131,816	3.3E+ 02	20
Trichloroethene	1	63	1.1E+ 00	1
Trichloromethane	10	58,289	7.0E+ 01	5
Xylene, m-	1	1,900	3.0E+ 02	3
Xylenes	9	16,318	2.6E+ 03	16
Plastic Materials and Synthetics				
Acrylonitrile	25	19,634	9.2E+ 02	20
Anthracene	1	250	1.4E+ 02	3

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Antimony	1	250	6.3E+ 00	1
Benzene	8	601	7.8E+ 00	2
Biphenyl	12	2,249	5.8E+ 00	1
Bis(2-ethylhexyl) phthalate	3	382	1.0E+ 01	1
Cadmium	1	59	3.1E+ 01	2
Chlorobenzene	4	92	1.8E+ 00	1
Chromium	2	204	2.9E+ 00	1
Copper	4	1,690	3.2E+ 01	5
Dichlorobenzene, 1,2-	1	29	2.5E+ 00	1
Dichloroethane, 1,2-	2	243	4.4E+ 00	1
Dichloropropane, 1,2-	2	90	2.0E+ 01	3
Diethyl phthalate	1	63	4.5E+ 00	1
Dimethyl phthalate	3	732	1.2E+ 01	2
Naphthalene	12	402	5.6E+ 00	1
Nickel	4	780	7.6E+ 01	7
Phenol	27	150,761	1.7E+ 02	10
Tetrachloroethene	1	26	1.7E+ 00	1
Tetrachloromethane	3	82	1.1E+ 01	2
Toluene	44	19,144	4.8E+ 01	5
Trichloroethane, 1,1,1-	4	4,851	6.3E+ 02	6
Xylene, o-	5	229	3.4E+ 01	5
Xylenes	35	1,644	2.6E+ 02	27
Primary Metal Industries				
Anthracene	1	9	5.0E+ 00	1
Antimony	20	6,479	1.6E+ 02	11
Arsenic	13	66	4.7E+ 00	1
Benzene	11	1,305	1.7E+ 01	5
Cadmium	11	324	1.7E+ 02	10
Chromium	141	10,695	1.5E+ 02	29
Copper	310	27,911	5.3E+ 02	112
Cresols	5	573	8.0E+ 00	2
Lead	118	21,956	5.0E+ 02	58
Naphthalene	14	2,538	3.6E+ 01	7
Nickel	147	15,016	1.5E+ 03	98
Phenol	40	124,478	1.4E+ 02	16
Polychlorinated biphenyls	1	66	1.9E+ 04	5
Silver	13	512	7.2E+ 02	14
Tetrachloroethene	2	541	3.5E+ 01	2
Trichloroethane, 1,1,1-	12	1,846	2.4E+ 02	5
Trichloroethene	4	6,776	1.2E+ 02	3
Xylenes	6	652	1.0E+ 02	7
Zinc	55	66,313	8.0E+ 02	30
Printing and Publishing				
Copper	17	327	6.2E+ 00	4
Toluene	26	2,847	7.1E+ 00	2

Table C-1. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Xylenes	10	115	1.8E+ 01	2
Rubber and Plastics Products				
Bis(2-ethylhexyl) phthalate	28	3,609	9.7E+ 01	14
Di-n-butyl phthalate	4	1,382	7.6E+ 00	1
Diethyl phthalate	2	11,508	8.2E+ 02	3
Dimethyl phthalate	2	1,978	3.4E+ 01	3
Toluene	16	3,823	9.6E+ 00	3
Trichloroethane, 1,1,1-	3	70	9.0E+ 00	1
Xylenes	6	63	1.0E+ 01	2
Zinc	3	449	5.4E+ 00	2
Stone, Clay, and Glass Products				
Bis(2-ethylhexyl) phthalate	2	265	7.2E+ 00	2
Copper	7	283	5.4E+ 00	1
Lead	13	104	2.4E+ 00	1
Nickel	4	102	9.9E+ 00	2
Phenol	21	18,931	2.1E+ 01	4
Xylenes	4	1,205	1.9E+ 02	6
Zinc	2	183	2.2E+ 00	1
Textile Products				
Antimony	2	5,161	1.3E+ 02	4
Biphenyl	22	125,681	3.3E+ 02	28
Bis(2-ethylhexyl) phthalate	2	1,327	3.6E+ 01	2
Copper	3	950	1.8E+ 01	3
Lead	2	751	1.7E+ 01	2
Naphthalene	2	15,006	2.1E+ 02	3
Nickel	1	323	3.1E+ 01	2
Tetrachloroethene	9	27,152	1.8E+ 03	21
Trichlorobenzene, 1,2,4-	14	42,232	1.8E+ 02	14
Trichloroethane, 1,1,1-	1	250	3.3E+ 01	2
Xylenes	5	27,058	4.3E+ 03	15

Table C-2. HAZREL Scores from PCS by Industrial Category and Chemical (for HAZREL scores greater than 0)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Coal Mining				
Cadmium	1	5	2.4E+ 00	1
Mercury	2	< 0.5	2.8E+ 00	1
Nickel	1	401	3.9E+ 01	2
Silver	2	4	6.0E+ 00	1
Zinc	2	150	1.8E+ 00	1
Construction				
Xylenes	1	31	5.0E+ 00	1
Food and Kindred Products				
Cadmium	5	31	1.6E+ 01	2
Chromium	14	191	2.7E+ 00	1
Copper	18	4,751	9.0E+ 01	7
Dichloromethane	1	6,993	1.7E+ 00	1
Lead	9	578	1.3E+ 01	2
Mercury	4	9	6.2E+ 01	6
Nickel	3	1,757	1.7E+ 02	5
Silver	3	3	4.7E+ 00	1
Tetrachloroethene	1	21	1.3E+ 00	1
Trichloroethene	2	2,011	3.4E+ 01	2
Trichloromethane	3	10,244	1.2E+ 01	2
Zinc	38	13,731	1.6E+ 02	17
Furniture and Fixtures				
Cadmium	3	5	2.8E+ 00	1
Chromium	3	127	1.8E+ 00	1
Copper	7	168	3.2E+ 00	2
Nickel	6	486	4.7E+ 01	3
Silver	1	21	2.9E+ 01	2
Industrial Inorganic Chemicals				
Acenaphthene	1	59	2.9E+ 00	1
Acenaphthylene	1	105	1.3E+ 01	2
Anthracene	1	47	2.6E+ 01	2
Antimony	3	933	2.3E+ 01	2
Arsenic	14	2,176	1.5E+ 02	7
Benzo(a)anthracene	1	12	1.3E+ 02	3
Benzo(a)pyrene	1	3	1.1E+ 02	3
Benzo(b)fluoranthene	1	4	1.9E+ 01	2
Benzo(k)fluoranthene	1	2	8.0E+ 00	1
Cadmium	15	341	1.8E+ 02	9
Chromium	38	21,080	3.0E+ 02	20
Chrysene	1	9	9.5E+ 00	1
Copper	56	113,341	2.2E+ 03	26
Dichloroethane, 1,2-	4	787	1.4E+ 01	2

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Dichloromethane	4	18,041	4.3E+ 00	1
Fluoranthene	1	28	3.3E+ 00	1
Fluorene	1	105	1.3E+ 01	2
Hexachlorobenzene	3	8	2.7E+ 01	3
Lead	33	1,914	4.4E+ 01	11
Mercury	21	763	5.3E+ 03	43
Methoxychlor	1	99	5.7E+ 03	4
Nickel	42	11,516	1.1E+ 03	51
Phenanthrene	1	72	1.1E+ 01	2
Polychlorinated biphenyls	1	< 0.5	6.8E+ 01	2
Pyrene	1	81	1.1E+ 02	3
Silver	6	9	1.3E+ 01	2
Tetrachloroethene	4	28	1.8E+ 00	1
Tetrachloromethane	4	2,150	2.8E+ 02	6
Trichloroethane, 1,1,1-	4	72	9.3E+ 00	1
Trichloromethane	10	39,034	4.7E+ 01	2
Zinc	61	127,119	1.5E+ 03	43
Industrial Organic Chemicals				
Acenaphthene	12	168	8.2E+ 00	3
Acenaphthylene	10	151	1.8E+ 01	4
Acrylonitrile	13	786	3.7E+ 01	6
Anthracene	11	145	8.0E+ 01	10
Antimony	8	175,245	4.4E+ 03	11
Arsenic	9	278	2.0E+ 01	4
Benzene	33	3,670	4.8E+ 01	3
Benzo(a)anthracene	12	175	1.9E+ 03	21
Benzo(a)pyrene	12	143	6.0E+ 03	27
Benzo(b)fluoranthene	12	187	9.0E+ 02	21
Benzo(k)fluoranthene	12	147	6.9E+ 02	16
Bis(2-ethylhexyl) phthalate	26	784	2.1E+ 01	7
Cadmium	6	312	1.6E+ 02	5
Chlorobenzene	21	733	1.5E+ 01	3
Chromium	52	4,988	7.0E+ 01	17
Chrysene	12	147	1.5E+ 02	9
Copper	74	44,151	8.4E+ 02	57
Diazinon \ Spectracide	1	6	5.6E+ 03	4
Dichlorobenzene, 1,2-	18	1,027	8.8E+ 01	10
Dichlorobenzene, 1,4-	15	274	2.3E+ 01	6
Dichlorobenzenes	1	81	7.2E+ 00	1
Dichloroethane, 1,2-	32	4,786	8.6E+ 01	12
Dichloropropane, 1,2-	17	915	2.0E+ 02	15
Diethyl phthalate	13	163	1.2E+ 01	3
Dimethylphenol, 2,4-	12	204	4.1E+ 00	1
Fluoranthene	12	153	1.8E+ 01	4
Fluorene	12	153	1.8E+ 01	3

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Hexachlorobenzene	16	191	6.5E+ 02	20
Hexachlorobutadiene	13	314	6.0E+ 01	6
Hexachloroethane	14	176	1.0E+ 01	3
Lead	41	9,546	2.2E+ 02	20
Mercury	15	66	4.6E+ 02	20
Naphthalene	18	264	3.7E+ 00	1
Nickel	49	19,682	1.9E+ 03	67
Pentachlorophenol	1	1	1.0E+ 00	1
Phenanthrene	15	163	2.5E+ 01	5
Phenol	33	2,544	2.8E+ 00	1
Polychlorinated biphenyls	1	< 0.5	4.8E+ 00	1
Pyrene	13	152	2.1E+ 02	11
Silver	8	38	5.4E+ 01	6
Tetrachloroethane, 1,1,2,2-	2	235	7.0E+ 01	3
Tetrachloroethene	24	90,654	5.9E+ 03	12
Tetrachloromethane	24	172,606	2.2E+ 04	17
Toxaphene	2	80	3.7E+ 03	7
Tribromomethane	2	4,444	1.3E+ 02	3
Trichloroethane, 1,1,1-	20	9,666	1.3E+ 03	12
Trichloroethane, 1,1,2-	20	367	7.3E+ 01	14
Trichloroethene	22	464	7.9E+ 00	2
Trichloromethane	55	390,662	4.7E+ 02	7
Zinc	88	584,485	7.0E+ 03	87
Leather and Leather Products				
Chromium	9	5,484	7.7E+ 01	8
Lead	4	86	2.0E+ 00	1
Lumber and Wood Products				
Acenaphthene	2	421	2.1E+ 01	2
Arsenic	7	108	7.7E+ 00	1
Cadmium	1	8	4.3E+ 00	1
Copper	8	172	3.3E+ 00	1
Dimethylphenol, 2,4-	1	287	5.7E+ 00	1
Fluorene	1	18	2.2E+ 00	1
Pentachlorophenol	8	959	7.6E+ 02	4
Zinc	7	5,439	6.5E+ 01	3
Metal Mining				
Antimony	3	509	1.3E+ 01	2
Arsenic	18	1,161	8.2E+ 01	10
Cadmium	41	990	5.2E+ 02	31
Copper	51	10,885	2.1E+ 02	18
Lead	40	6,609	1.5E+ 02	17
Mercury	24	23	1.6E+ 02	13
Nickel	8	412	4.0E+ 01	5
Silver	12	36	5.0E+ 01	6

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Zinc	57	289,600	3.5E+ 03	52
Metal Products and Finishing				
Antimony	9	24,174	6.0E+ 02	5
Arsenic	19	3,911	2.8E+ 02	12
Benzene	9	2,773	3.6E+ 01	2
Bis(2-ethylhexyl) phthalate	6	80	2.2E+ 00	1
Cadmium	124	968	5.0E+ 02	34
Chromium	218	214,819	3.0E+ 03	40
Copper	306	276,786	5.3E+ 03	86
Dichloropropane, 1,2-	1	2,190	4.8E+ 02	3
Lead	187	35,222	8.1E+ 02	38
Mercury	15	5	3.3E+ 01	5
Nickel	212	41,971	4.1E+ 03	150
Phenol	7	1,465	1.6E+ 00	1
Polychlorinated biphenyls	8	1,028	3.0E+ 05	21
PCB-1016	1	< 0.5	7.9E+ 01	2
PCB-1221	1	< 0.5	7.9E+ 01	2
PCB-1232	1	< 0.5	7.9E+ 01	2
PCB-1242	2	3	7.6E+ 02	5
PCB-1248	2	8	2.4E+ 03	6
PCB-1254	1	< 0.5	7.9E+ 01	2
PCB-1260	1	< 0.5	7.9E+ 01	2
Silver	87	9,607	1.3E+ 04	62
Tetrachloroethene	18	949	6.2E+ 01	7
Tetrachloromethane	1	24	3.1E+ 00	1
Toluene	17	2,708	6.8E+ 00	1
Trichloroethane, 1,1,1-	23	318	4.1E+ 01	5
Trichloroethene	52	13,803	2.3E+ 02	11
Xylenes	8	3,584	5.7E+ 02	5
Zinc	330	1063404	1.3E+ 04	127
National Security				
Arsenic	7	3,021	2.1E+ 02	8
Cadmium	14	290	1.5E+ 02	13
Chromium	11	5,760	8.1E+ 01	7
Copper	20	5,551	1.1E+ 02	11
DDT	1	< 0.5	1.0E+ 01	2
Lead	19	3,284	7.6E+ 01	10
Mercury	9	97	6.8E+ 02	9
Nickel	12	490	4.8E+ 01	11
Pentachlorophenol	1	10	7.6E+ 00	1
Polychlorinated biphenyls	1	202	5.9E+ 04	5
Silver	11	31	4.3E+ 01	8
Trichloroethene	3	625	1.1E+ 01	2
Zinc	19	118,295	1.4E+ 03	17

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Nonclassifiable				
Antimony	3	59	1.5E+ 00	1
Arsenic	12	186	1.3E+ 01	3
Benzene	63	1,368	1.8E+ 01	4
Cadmium	24	253	1.3E+ 02	10
Chromium	27	425	5.9E+ 00	2
Copper	50	1,694	3.2E+ 01	7
Hexachlorobutadiene	1	15	2.8E+ 00	1
Lead	65	2,970	6.8E+ 01	7
Mercury	13	5	3.2E+ 01	4
Nickel	23	614	6.0E+ 01	8
Polychlorinated biphenyls	1	1	2.9E+ 02	3
Silver	10	27	3.7E+ 01	6
Toluene	33	8,203	2.1E+ 01	2
Trichloroethene	34	11,986	2.0E+ 02	8
Xylenes	28	216	3.5E+ 01	5
Zinc	61	21,495	2.6E+ 02	16
Nonmetallic Mineral Mining				
Arsenic	2	29	2.0E+ 00	1
Cadmium	3	191	9.9E+ 01	5
Copper	3	431	8.2E+ 00	2
Lead	3	267	6.1E+ 00	2
Mercury	5	137	9.6E+ 02	3
Nickel	1	26	2.5E+ 00	1
Xylenes	1	14	2.3E+ 00	1
Zinc	7	3,311	4.0E+ 01	4
Oil and Gas Extraction				
Nickel	1	16	1.6E+ 00	1
Other Chemical Products				
Antimony	2	331	8.3E+ 00	1
Arsenic	7	514	3.6E+ 01	5
Benzene	3	710	9.2E+ 00	1
Cadmium	13	980	5.1E+ 02	11
Chromium	12	808	1.1E+ 01	4
Copper	22	960	1.8E+ 01	8
Dichloropropane, 1,2-	1	57	1.3E+ 01	2
DDT	1	1	2.0E+ 02	3
Lead	20	1,314	3.0E+ 01	4
Mercury	8	6	4.5E+ 01	5
Nickel	9	3,134	3.0E+ 02	9
Silver	4	88	1.2E+ 02	5
Tetrachloroethene	2	260	1.7E+ 01	2
Toluene	9	1,250	3.1E+ 00	1
Trichloroethene	3	175	3.0E+ 00	1

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Xylenes	2	8	1.2E+ 00	1
Zinc	35	20,321	2.4E+ 02	20
Other Trade and Services				
Anthracene	4	3	1.6E+ 00	1
Arsenic	14	89	6.3E+ 00	3
Benzene	234	58,579	7.6E+ 02	11
Benzo(a)anthracene	2	1	6.3E+ 00	1
Benzo(a)pyrene	2	1	2.3E+ 01	2
Benzo(b)fluoranthene	2	1	3.9E+ 00	2
Benzo(k)fluoranthene	2	1	3.5E+ 00	1
Cadmium	30	6,669	3.5E+ 03	11
Chromium	30	786	1.1E+ 01	3
Copper	70	1,878	3.6E+ 01	9
Dibenzo(a,h)anthracene	1	< 0.5	2.0E+ 01	2
Dieldrin	2	< 0.5	1.1E+ 02	4
Endosulfan, alpha-	2	1	3.9E+ 01	2
Hexachlorobenzene	2	1	2.0E+ 00	1
Indeno(1,2,3-cd)pyrene	1	< 0.5	1.1E+ 00	1
Lead	184	2,954	6.8E+ 01	10
Mercury	14	4	2.8E+ 01	5
Nickel	24	288	2.8E+ 01	8
Pentachlorophenol	2	9	6.9E+ 00	1
Polychlorinated biphenyls	4	14	4.0E+ 03	9
Pyrene	4	18	2.5E+ 01	3
PCB-1016	1	< 0.5	3.8E+ 00	1
PCB-1221	1	< 0.5	5.8E+ 00	1
PCB-1232	1	< 0.5	3.8E+ 00	1
PCB-1242	1	< 0.5	3.8E+ 00	1
PCB-1248	1	< 0.5	3.8E+ 00	1
PCB-1254	1	< 0.5	3.8E+ 00	1
PCB-1260	1	< 0.5	2.9E+ 00	1
Silver	15	107	1.5E+ 02	8
Toluene	183	8,023	2.0E+ 01	4
Trichloroethane, 1,1,1-	12	21	2.7E+ 00	1
Xylenes	173	3,220	5.2E+ 02	36
Zinc	98	15,363	1.8E+ 02	22
Paper and Allied Products				
Antimony	2	65	1.6E+ 00	1
Arsenic	4	199	1.4E+ 01	2
Bis(2-ethylhexyl) phthalate	2	158	4.3E+ 00	1
Cadmium	11	232	1.2E+ 02	9
Chromium	10	1,432	2.0E+ 01	4
Copper	50	11,322	2.2E+ 02	35
Dichloropropane, 1,2-	1	5	1.0E+ 00	1
Lead	22	953	2.2E+ 01	5

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Mercury	6	132	9.2E+ 02	6
Nickel	7	70	6.8E+ 00	4
Pentachlorophenol	2	2	1.3E+ 00	1
Polychlorinated biphenyls	1	< 0.5	1.3E+ 02	3
PCB-1242	2	< 0.5	1.0E+ 01	2
Silver	5	30	4.2E+ 01	5
Toluene	4	3,095	7.7E+ 00	1
Trichloromethane	15	7,047	8.5E+ 00	1
Zinc	65	491,774	5.9E+ 03	66
Pesticides				
Arsenic	4	86	6.1E+ 00	2
Chromium	5	652	9.1E+ 00	2
Copper	4	737	1.4E+ 01	2
DCPA/Dacthal	1	286	2.6E+ 00	1
Mercury	1	8	5.7E+ 01	2
Nickel	3	479	4.7E+ 01	5
Zinc	9	9,491	1.1E+ 02	9
Petroleum and Coal Products				
Toluene	3	4,997	1.2E+ 01	2
Xylenes	2	9,528	1.5E+ 03	4
Petroleum Refining				
Arsenic	16	4,459	3.2E+ 02	17
Benzene	19	2,011	2.6E+ 01	4
Bis(2-ethylhexyl) phthalate	2	77	2.1E+ 00	1
Cadmium	10	75	3.9E+ 01	10
Chromium	92	15,045	2.1E+ 02	41
Copper	22	6,979	1.3E+ 02	7
Lead	22	1,537	3.5E+ 01	5
Mercury	12	15	1.0E+ 02	16
Naphthalene	2	4,299	6.0E+ 01	2
Nickel	13	2,806	2.7E+ 02	18
Silver	7	20	2.8E+ 01	5
Toluene	11	3,014	7.5E+ 00	1
Trichloroethane, 1,1,2-	1	5	1.0E+ 00	1
Trichloroethene	1	1,457	2.5E+ 01	2
Xylenes	12	169	2.7E+ 01	4
Zinc	34	604,273	7.3E+ 03	34
Pharmaceuticals				
Arsenic	5	1,179	8.4E+ 01	2
Benzene	1	273	3.5E+ 00	1
Cadmium	5	10	5.0E+ 00	1
Copper	19	606	1.2E+ 01	3
Dichloromethane	8	28,385	6.8E+ 00	1
Lead	8	4,904	1.1E+ 02	3

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Mercury	8	1	9.3E+ 00	4
Nickel	4	475	4.6E+ 01	4
Silver	3	1	2.0E+ 00	1
Toluene	2	29,927	7.5E+ 01	2
Trichloroethane, 1,1,2-	1	98	2.0E+ 01	2
Trichloromethane	8	4,336	5.2E+ 00	1
Zinc	27	33,673	4.0E+ 02	11
Plastic Materials and Synthetics				
Acenaphthene	5	65	3.2E+ 00	1
Acenaphthylene	5	74	8.9E+ 00	3
Acrylonitrile	14	678	3.2E+ 01	4
Anthracene	5	65	3.6E+ 01	6
Antimony	6	454	1.1E+ 01	4
Arsenic	12	243	1.7E+ 01	5
Benzene	15	428	5.6E+ 00	1
Benzo(a)anthracene	6	91	1.0E+ 03	15
Benzo(a)pyrene	6	77	3.2E+ 03	18
Benzo(b)fluoranthene	6	85	4.1E+ 02	12
Benzo(k)fluoranthene	6	75	3.5E+ 02	12
Bis(2-ethylhexyl) phthalate	22	2,977	8.0E+ 01	9
Cadmium	6	148	7.7E+ 01	6
Chromium	38	5,889	8.2E+ 01	13
Chrysene	6	75	7.5E+ 01	9
Copper	48	14,056	2.7E+ 02	24
Dichlorobenzene, 1,2-	9	236	2.0E+ 01	5
Dichlorobenzene, 1,4-	9	105	8.7E+ 00	4
Dichloroethane, 1,2-	11	303	5.5E+ 00	1
Dichloromethane	20	9,838	2.4E+ 00	1
Dichloropropane, 1,2-	7	341	7.5E+ 01	5
Diethyl phthalate	6	73	5.2E+ 00	2
Fluoranthene	6	63	7.5E+ 00	3
Fluorene	6	61	7.4E+ 00	2
Hexachlorobenzene	7	73	2.5E+ 02	13
Hexachlorobutadiene	6	70	1.3E+ 01	5
Hexachloroethane	6	142	8.4E+ 00	2
Lead	24	868	2.0E+ 01	5
Mercury	7	6	4.2E+ 01	9
Nickel	19	9,642	9.4E+ 02	21
Pentachlorophenol	1	24	1.9E+ 01	2
Phenanthrene	6	88	1.3E+ 01	3
Polychlorinated biphenyls	1	3	8.3E+ 02	3
Pyrene	6	68	9.6E+ 01	9
Silver	3	38	5.3E+ 01	3
Tetrachloroethene	8	139	9.0E+ 00	5
Tetrachloromethane	9	66	8.6E+ 00	4

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Toluene	23	16,582	4.1E+ 01	5
Trichloroethane, 1,1,1-	9	153	2.0E+ 01	6
Trichloroethane, 1,1,2-	8	125	2.5E+ 01	5
Xylenes	6	1,916	3.1E+ 02	7
Zinc	69	187,467	2.2E+ 03	55
Primary Metal Industries				
Anthracene	2	23	1.3E+ 01	2
Antimony	16	588	1.5E+ 01	4
Arsenic	22	210	1.5E+ 01	5
Benzo(a)anthracene	2	7	7.6E+ 01	2
Benzo(a)pyrene	23	196	8.2E+ 03	50
Benzo(b)fluoranthene	2	8	4.1E+ 01	2
Bis(2-ethylhexyl) phthalate	4	1,894	5.1E+ 01	3
Cadmium	50	1,003	5.2E+ 02	32
Chromium	91	12,579	1.8E+ 02	27
Chrysene	2	6	6.1E+ 00	1
Copper	133	63,414	1.2E+ 03	57
Fluoranthene	4	63	7.6E+ 00	2
Fluorene	2	9	1.1E+ 00	1
Lead	144	29,201	6.7E+ 02	55
Mercury	8	439	3.1E+ 03	7
Naphthalene	15	230	3.2E+ 00	1
Nickel	81	13,925	1.4E+ 03	81
Phenanthrene	4	25,929	3.9E+ 03	5
Polychlorinated biphenyls	6	7	2.0E+ 03	13
Pyrene	2	23	3.2E+ 01	2
PCB-1242	1	< 0.5	1.1E+ 00	1
PCB-1248	1	< 0.5	5.4E+ 00	1
PCB-1260	1	< 0.5	1.4E+ 00	1
Silver	18	59	8.2E+ 01	11
Tetrachloroethene	8	314	2.0E+ 01	4
Zinc	197	312,772	3.8E+ 03	143
Printing and Publishing				
Chromium	2	104	1.4E+ 00	1
Copper	3	426	8.1E+ 00	2
Lead	2	46	1.1E+ 00	1
Silver	3	50	7.0E+ 01	3
Zinc	3	208	2.5E+ 00	1
Public Utilities				
Antimony	11	1,458	3.6E+ 01	6
Arsenic	89	41,356	2.9E+ 03	77
Cadmium	62	9,389	4.9E+ 03	46
Chromium	96	11,924	1.7E+ 02	23
Copper	351	645,527	1.2E+ 04	198

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
Lead	204	61,056	1.4E+ 03	72
Mercury	42	9,980	7.0E+ 04	45
Nickel	98	75,896	7.4E+ 03	92
Pentachlorophenol	1	3	2.6E+ 00	1
Polychlorinated biphenyls	14	16	4.5E+ 03	21
PCB-1254	1	< 0.5	5.1E+ 01	2
Silver	26	3,081	4.3E+ 03	22
Tetrachloroethene	10	42	2.7E+ 00	1
Tetrachloromethane	2	15,857	2.1E+ 03	4
Trichloromethane	7	1,993	2.4E+ 00	1
Xylenes	29	101	1.6E+ 01	3
Zinc	309	1445177	1.7E+ 04	203
Rubber and Plastics Products				
Antimony	1	4,363	1.1E+ 02	3
Arsenic	3	32	2.3E+ 00	1
Cadmium	5	18	9.5E+ 00	1
Copper	17	1,320	2.5E+ 01	3
Dichloromethane	3	89,604	2.2E+ 01	2
Lead	11	255	5.9E+ 00	1
Mercury	3	4,167	2.9E+ 04	6
Nickel	4	29	2.8E+ 00	1
Polychlorinated biphenyls	2	10	2.8E+ 03	4
Pyrene	1	1	1.1E+ 00	1
PCB-1242	1	1	1.8E+ 02	3
PCB-1248	1	< 0.5	2.6E+ 01	2
Silver	1	8	1.1E+ 01	2
Zinc	28	18,044	2.2E+ 02	11
Sewerage Systems				
Acenaphthene	11	57	2.8E+ 00	1
Acenaphthylene	10	55	6.6E+ 00	3
Acrylonitrile	12	320	1.5E+ 01	4
Aldrin	12	2	7.3E+ 02	15
Anthracene	9	56	3.1E+ 01	6
Antimony	66	47,292	1.2E+ 03	49
Arsenic	225	443,928	3.2E+ 04	186
Benzene	20	18,571	2.4E+ 02	7
Benzo(a)anthracene	11	62	6.9E+ 02	19
Benzo(a)pyrene	10	58	2.4E+ 03	23
Benzo(b)fluoranthene	11	138	6.6E+ 02	17
Benzo(ghi)perylene	10	64	5.1E+ 01	8
Benzo(k)fluoranthene	10	58	2.7E+ 02	14
Bis(2-ethylhexyl) phthalate	95	35,839	9.7E+ 02	53
Bromophenyl phenyl ether, 4-	10	57	4.4E+ 00	1
BHC, alpha-	9	30	7.9E+ 03	13
BHC, beta-	8	2	4.5E+ 02	11

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
BHC, delta-	8	1	1.4E+ 01	2
BHC, gamma- \ Lindane	30	140	2.9E+ 04	65
Cadmium	716	167,046	8.7E+ 04	675
Chlordane	17	57	2.9E+ 04	44
Chlorobenzene	13	412	8.2E+ 00	2
Chromium	619	218,172	3.1E+ 03	265
Chrysene	10	57	5.7E+ 01	8
Copper	1393	1568237	3.0E+ 04	983
Di-n-butyl phthalate	34	1,715	9.4E+ 00	2
Dibenzo(a,h)anthracene	10	58	1.3E+ 04	32
Dibromochloromethane	32	10,298	2.2E+ 02	13
Dichlorobenzene, 1,2-	12	197	1.7E+ 01	4
Dichlorobenzene, 1,4-	21	1,110	9.2E+ 01	8
Dichlorobenzenes	2	142	1.3E+ 01	2
Dichloroethane, 1,2-	19	2,701	4.9E+ 01	5
Dichloropropane, 1,2-	10	32	7.0E+ 00	4
Dieldrin	10	377	6.0E+ 05	24
Diethyl phthalate	19	4,138	2.9E+ 02	8
DDD	10	70	1.8E+ 04	18
DDE	10	1,145	3.9E+ 05	17
DDT	11	390	8.2E+ 04	25
Endosulfan mixed isomers	10	5	1.7E+ 01	3
Endosulfan, alpha-	9	2	5.8E+ 01	5
Endosulfan, beta-	8	2	1.3E+ 01	2
Endrin	18	867	8.1E+ 02	6
Fluoranthene	11	60	7.2E+ 00	3
Fluorene	11	75	9.0E+ 00	4
Heptachlor	13	56	3.2E+ 02	7
Heptachlor epoxide	9	2	6.3E+ 02	12
Hexachlorobenzene	11	54	1.8E+ 02	11
Hexachlorobutadiene	10	55	1.0E+ 01	4
Hexachloroethane	10	58	3.4E+ 00	1
Indeno(1,2,3-cd)pyrene	11	61	8.0E+ 02	20
Lead	940	486,751	1.1E+ 04	429
Mercury	531	12,730	8.9E+ 04	609
Naphthalene	11	279	3.9E+ 00	1
Nickel	690	830,784	8.1E+ 04	855
Nitrosodiphenylamine, N-	11	2,329	1.0E+ 03	9
Pentachlorophenol	16	387	3.1E+ 02	16
Phenanthrene	12	103	1.5E+ 01	5
Phenol	25	5,247	5.8E+ 00	1
Polychlorinated biphenyls	21	330	9.6E+ 04	61
Pyrene	13	107	1.5E+ 02	12
PCB-1016	9	3	7.4E+ 02	18
PCB-1221	8	3	8.8E+ 02	15

Table C-2. (Continued)

Industrial Category/ Chemical Name	Number of Facilities	Raw Load (lb/yr)	HAZREL	HAZREL Score
PCB-1232	8	2	6.3E+ 02	15
PCB-1242	8	2	6.3E+ 02	15
PCB-1248	8	2	6.3E+ 02	15
PCB-1254	8	2	6.3E+ 02	15
PCB-1260	8	2	6.3E+ 02	15
Silver	446	522,139	7.3E+ 05	742
Tetrachloroethane, 1,1,2,2-	11	379	1.1E+ 02	7
Tetrachloroethene	59	24,566	1.6E+ 03	55
Tetrachloromethane	15	162	2.1E+ 01	5
Toluene	58	76,290	1.9E+ 02	11
Toxaphene	12	16	7.4E+ 02	22
Tribromomethane	16	167	5.0E+ 00	1
Trichloroethane, 1,1,1-	33	1,816	2.4E+ 02	18
Trichloroethane, 1,1,2-	11	100	2.0E+ 01	5
Trichloroethene	28	2,418	4.1E+ 01	6
Trichloromethane	154	547,417	6.6E+ 02	31
Xylenes	7	24	3.8E+ 00	1
Zinc	1415	4576125	5.5E+ 04	1349
Stone, Clay, and Glass Products				
Arsenic	3	354	2.5E+ 01	2
Cadmium	3	3	1.3E+ 00	1
Chromium	10	200	2.8E+ 00	1
Copper	13	177	3.4E+ 00	1
Lead	13	4,114	9.5E+ 01	3
Silver	2	39	5.4E+ 01	2
Zinc	17	926	1.1E+ 01	3
Textile Products				
Arsenic	3	641	4.6E+ 01	2
Bis(2-ethylhexyl) phthalate	1	47	1.3E+ 00	1
Cadmium	3	13	6.6E+ 00	2
Chromium	52	5,391	7.5E+ 01	18
Copper	16	350,047	6.7E+ 03	16
Lead	10	334	7.7E+ 00	2
Mercury	1	< 0.5	1.9E+ 00	1
Nickel	3	33	3.2E+ 00	2
Silver	2	1	2.1E+ 00	1
Trichloroethene	2	88	1.5E+ 00	1
Zinc	20	251,331	3.0E+ 03	18