530R03007

NATIONAL ANALYSIS

THE NATIONAL BIENNIAL RCRA HAZARDOUS WASTE REPORT (BASED ON 2003 DATA)

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INTRODUCTION

The United States Environmental Protection Agency (EPA), in partnership with the States[1], biennially collects information regarding the generation, management, and final disposition of hazardous wastes regulated under the Resource Conservation and Recovery Act of 1976 (RCRA), as amended. The purpose of *The National Biennial RCRA Hazardous Waste Report (Based on 2003 Data)* is to communicate the findings of EPA's 2003 hazardous waste reporting data collection efforts to the public, government agencies, and the regulated community. The Report consists of three volumes of data:

- The ***National Analysis*** data presents a detailed look at waste-handling practices in the States, and largest facilities nationally, including (1) the quantity of waste generated, managed, shipped, and received, and interstate shipments and receipts, and (2) the number of generators and managing facilities,

- The ***State Detail Analysis*** data is a detailed look at each State's waste handling practices, including overall totals for generation, management, shipments, and receipts, as well as totals for the largest fifty facilities, and

- The ***List of Reported RCRA Sites*** identifies every hazardous waste facility in the United States that submitted a hazardous waste report in 2003.

RCRA HAZARDOUS WASTE

Throughout this Report, the term RCRA hazardous waste refers to solid waste assigned a Federal Hazardous Waste Code and regulated by RCRA. Some States elect to regulate wastes not specifically regulated by EPA; these wastes are assigned State Hazardous Waste Codes. For this Report EPA asked States to exclude data for waste with only State Hazardous Waste Codes (the waste description does not include any Federal Hazardous Waste Codes). The reader can find a more detailed explanation in the *RCRA Orientation Manual* (http://www.epa.gov/epaoswer/general/orientat/) and in the Code of Federal Regulations in 40 CFR Parts 260 and 261. Please refer to Appendix D of this Report for a complete list of EPA Hazardous Waste Codes used by the regulated community for their 2003 Biennial Report submissions. Details about the information submitted by the regulated community can be found in the *2003 Hazardous Waste Report Instructions and Forms* (http://www.epa.gov/epaoswer/hazwaste/data/br03/forms.htm). Guidance provided to the regulated community regarding information to include or exclude from the National report can be found in Appendix E.

[1]The term "State" includes the District of Columbia, Puerto Rico, Guam, the Navajo Nation, the Trust Territories, and the Virgin Islands, in addition to the 50 United States.

RCRA HAZARDOUS WASTE GENERATION

RCRA hazardous waste generation information is obtained from data reported by RCRA large quantity generators (LQGs). A generator is defined as a Federal large quantity generator if:

- the generator generated in any single month 1,000 kg (2,200 pounds or 1.1 tons) or more of RCRA hazardous waste; or
- the generator generated in any single month, or accumulated at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or
- the generator generated, or accumulated at any time, more than 100 kg (220 pounds) of spill cleanup material contaminated with RCRA acute hazardous waste.

All facilities that were LQGs in 2003 are required to provide EPA with 2003 waste generation and management information. It is important to note that the generators identified in this Report have been included based on the most current information made available to EPA by the States. However, the generator counts may include some generators that, when determining whether they were LQGs, used a lower State-defined threshold for LQGs, counted wastes regulated only by their States, or counted wastes exempt from Federal regulation. Hazardous waste received from off site for storage/bulking and subsequently transferred off site for treatment or disposal is excluded from generation quantities in this Report.

RCRA HAZARDOUS WASTE MANAGEMENT

RCRA hazardous waste management information is obtained from data reported by facilities that treated, stored, or disposed of RCRA hazardous wastes on site during 2003. Only wastes that were treated or disposed of in 2003 are included in the management quantities in this Report. Hazardous wastes that are stored, bulked and/or transferred off site with no prior treatment/recovery, fuel blending, or disposal at the site, are excluded from the management quantities in this Report.

RCRA HAZARDOUS WASTE SHIPMENTS AND RECEIPTS

RCRA hazardous waste shipment information is obtained from data reported by both RCRA LQGs and facilities that treated, stored, or disposed of RCRA hazardous wastes on site during 2003. RCRA hazardous waste receipt information is obtained from data reported by facilities that treated, stored, or disposed of RCRA hazardous wastes on site during 2003. All reported shipments identified by the State, or implementing EPA office, for inclusion in the National Biennial Report are included in the waste shipment quantities in this Report, even if the waste was shipped to a transfer facility. In some instances, waste is transferred within a physical location that has more than one EPA Identification Number. These waste transfers are treated as shipments.

RCRA hazardous waste interstate shipment quantities include wastes generated in one State and shipped to a receiver in a different State, excluding shipments to a foreign country. Interstate shipments are calculated from information provided by waste shippers. RCRA hazardous waste interstate receipts include all wastes received by a State which differs from the State of origin, excluding foreign imports. RCRA hazardous waste interstate receipts are calculated from information provided by the facilities that received the wastes.

THE DATA PRESENTED IN THIS NATIONAL BIENNIAL REPORT

Beginning with the 2001 biennial reporting cycle, EPA changed the reporting requirements for RCRA hazardous wastes. EPA would like to caution all readers of this Report that the changes to these reporting requirements will cause cursory comparisons of the 2003 National Biennial Report data to National Reports prior to 2001 to be misleading.

Prior to the 2001 National Biennial Report, EPA excluded wastes with wastewater characteristics and wastes described by only State Hazardous Waste Codes. Beginning with the 2001 National Biennial Report and continuing with the 2003 National Biennial Report, it is the responsibility of individual States or implementing EPA offices to properly identify data that is to be included in or excluded from the National Biennial Report.

For this 2003 National Biennial RCRA Hazardous Waste Report, EPA has included all data that was identified by the State or implementing EPA office for inclusion in the Report, with the following two (2) exceptions:

1) hazardous waste received from off site for storage/bulking and subsequently transferred off site for treatment or disposal is excluded from generation quantities; and

2) hazardous waste that is stored, bulked, and/or transferred off site with no prior treatment/recovery, fuel blending, or disposal at the site is excluded from management quantities.

In addition, Biennial Reports prior to 2001 only included management and receipts from permitted treatment, storage, and disposal facilities. The 2003 National Biennial Report includes management and receipts data from both permitted treatment, storage, and disposal facilities and generators that are not required to be permitted (e.g., those that recycle solvent hazardous waste generated on-site).

Exhibit 1.1 Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, by State, 2003

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	6	1,252,012	4.1	27	232	1.3	232	0
ALASKA	48	4,804	0.0	43	54	0.3	32	22
ARIZONA	39	28,720	0.1	28	186	1.1	184	2
ARKANSAS	17	419,385	1.4	14	385	2.2	157	228
CALIFORNIA	16	445,317	1.5	1	2,514	14.2	2,274	240
COLORADO	31	86,702	0.3	35	115	0.6	104	11
CONNECTICUT	38	38,396	0.1	18	334	1.9	325	9
DELAWARE	40	19,070	0.1	42	66	0.4	59	7
DISTRICT OF COLUMBIA	54	1,124	0.0	49	21	0.1	21	0
FLORIDA	20	356,859	1.2	17	338	1.9	317	21
GEORGIA	23	203,298	0.7	20	309	1.7	295	14
GUAM	55	174	0.0	51	19	0.1	11	8
HAWAII	53	1,139	0.0	48	34	0.2	24	10
IDAHO	47	5,447	0.0	46	39	0.2	22	17
ILLINOIS	9	1,125,485	3.7	4	917	5.2	758	159
INDIANA	10	988,323	3.3	9	589	3.3	472	117
IOWA	36	48,282	0.2	33	146	0.8	128	18
KANSAS	28	104,166	0.3	30	179	1.0	170	9
KENTUCKY	3	2,441,400	8.1	21	305	1.7	288	17
LOUISIANA	2	4,559,668	15.1	15	347	2.0	341	6
MAINE	45	7,259	0.0	39	82	0.5	75	7
MARYLAND	34	55,379	0.2	34	132	0.7	131	1
MASSACHUSETTS	32	69,109	0.2	10	528	3.0	500	28
MICHIGAN	15	448,212	1.5	7	671	3.8	558	113
MINNESOTA	14	550,256	1.8	26	236	1.3	227	9
MISSISSIPPI	4	2,004,551	6.6	19	314	1.8	128	186
MISSOURI	24	192,933	0.6	24	276	1.6	264	12
MONTANA	41	18,859	0.1	45	46	0.3	38	8
NAVAJO NATION	56	6	0.0	54	2	0.0	2	0
NEBRASKA	37	43,541	0.1	37	84	0.5	68	16
NEVADA	43	9,704	0.0	41	71	0.4	71	0
NEW HAMPSHIRE	44	8,141	0.0	25	242	1.4	141	101
NEW JERSEY	7	1,236,150	4.1	8	626	3.5	597	29
NEW MEXICO	11	727,272	2.4	46	39	0.2	36	3
NEW YORK	8	1,130,623	3.7	2	1,339	7.6	1,032	307
NORTH CAROLINA	27	112,595	0.4	12	440	2.5	412	28
NORTH DAKOTA	12	633,735	2.1	52	18	0.1	13	5
OHIO	5	1,800,170	6.0	3	1,040	5.9	908	132
OKLAHOMA	21	242,664	0.8	32	152	0.9	138	14
OREGON	33	55,703	0.2	31	169	1.0	169	0
PENNSYLVANIA	18	388,662	1.3	5	889	5.0	792	97
PUERTO RICO	22	217,762	0.7	37	84	0.5	71	13
RHODE ISLAND	46	6,776	0.0	36	111	0.6	96	15
SOUTH CAROLINA	25	156,358	0.5	22	297	1.7	277	20
SOUTH DAKOTA	52	1,254	0.0	49	21	0.1	20	1
TENNESSEE	13	572,329	1.9	16	346	2.0	346	0
TEXAS	1	6,585,102	21.8	6	756	4.3	754	2
TRUST TERRITORIES	42	12,156	0.0	55	1	0.0	1	0
UTAH	35	50,231	0.2	40	74	0.4	74	0
VERMONT	49	2,924	0.0	44	47	0.3	45	2
VIRGIN ISLANDS	51	1,943	0.0	55	1	0.0	1	0
VIRGINIA	26	152,515	0.5	23	281	1.6	259	22
WASHINGTON	29	91,883	0.3	13	431	2.4	431	0
WEST VIRGINIA	30	87,315	0.3	29	185	1.0	168	17
WISCONSIN	19	369,829	1.2	11	516	2.9	516	0
WYOMING	50	2,446	0.0	52	18	0.1	11	7
Total		**30,176,118**	**100.0**		**17,694**	**100.0**	**15,584**	**2,110**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 1.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Generated and Number of Hazardous Waste Generators, 2003

State	Hazardous Waste Quantity			Number of Generators			Reported Status	
	Rank	Tons Generated	Percentage	Rank	Number	Percentage	LQG	Non-LQG
TEXAS	1	6,585,102	21.8	6	756	4.3	754	2
LOUISIANA	2	4,559,668	15.1	15	347	2.0	341	6
KENTUCKY	3	2,441,400	8.1	21	305	1.7	288	17
MISSISSIPPI	4	2,004,551	6.6	19	314	1.8	128	186
OHIO	5	1,800,170	6.0	3	1,040	5.9	908	132
ALABAMA	6	1,252,012	4.1	27	232	1.3	232	0
NEW JERSEY	7	1,236,150	4.1	8	626	3.5	597	29
NEW YORK	8	1,130,623	3.7	2	1,339	7.6	1,032	307
ILLINOIS	9	1,125,485	3.7	4	917	5.2	758	159
INDIANA	10	988,323	3.3	9	589	3.3	472	117
NEW MEXICO	11	727,272	2.4	46	39	0.2	36	3
NORTH DAKOTA	12	633,735	2.1	52	18	0.1	13	5
TENNESSEE	13	572,329	1.9	16	346	2.0	346	0
MINNESOTA	14	550,256	1.8	26	236	1.3	227	9
MICHIGAN	15	448,212	1.5	7	671	3.8	558	113
CALIFORNIA	16	445,317	1.5	1	2,514	14.2	2,274	240
ARKANSAS	17	419,385	1.4	14	385	2.2	157	228
PENNSYLVANIA	18	388,662	1.3	5	889	5.0	792	97
WISCONSIN	19	369,829	1.2	11	516	2.9	516	0
FLORIDA	20	356,859	1.2	17	338	1.9	317	21
OKLAHOMA	21	242,664	0.8	32	152	0.9	138	14
PUERTO RICO	22	217,762	0.7	37	84	0.5	71	13
GEORGIA	23	203,298	0.7	20	309	1.7	295	14
MISSOURI	24	192,933	0.6	24	276	1.6	264	12
SOUTH CAROLINA	25	156,358	0.5	22	297	1.7	277	20
VIRGINIA	26	152,515	0.5	23	281	1.6	259	22
NORTH CAROLINA	27	112,595	0.4	12	440	2.5	412	28
KANSAS	28	104,166	0.3	30	179	1.0	170	9
WASHINGTON	29	91,883	0.3	13	431	2.4	431	0
WEST VIRGINIA	30	87,315	0.3	29	185	1.0	168	17
COLORADO	31	86,702	0.3	35	115	0.6	104	11
MASSACHUSETTS	32	69,109	0.2	10	528	3.0	500	28
OREGON	33	55,703	0.2	31	169	1.0	169	0
MARYLAND	34	55,379	0.2	34	132	0.7	131	1
UTAH	35	50,231	0.2	40	74	0.4	74	0
IOWA	36	48,282	0.2	33	146	0.8	128	18
NEBRASKA	37	43,541	0.1	37	84	0.5	68	16
CONNECTICUT	38	38,396	0.1	18	334	1.9	325	9
ARIZONA	39	28,720	0.1	28	186	1.1	184	2
DELAWARE	40	19,070	0.1	42	66	0.4	59	7
MONTANA	41	18,859	0.1	45	46	0.3	38	8
TRUST TERRITORIES	42	12,156	0.0	55	1	0.0	1	0
NEVADA	43	9,704	0.0	41	71	0.4	71	0
NEW HAMPSHIRE	44	8,141	0.0	25	242	1.4	141	101
MAINE	45	7,259	0.0	39	82	0.5	75	7
RHODE ISLAND	46	6,776	0.0	36	111	0.6	96	15
IDAHO	47	5,447	0.0	46	39	0.2	22	17
ALASKA	48	4,804	0.0	43	54	0.3	32	22
VERMONT	49	2,924	0.0	44	47	0.3	45	2
WYOMING	50	2,446	0.0	52	18	0.1	11	7
VIRGIN ISLANDS	51	1,943	0.0	55	1	0.0	1	0
SOUTH DAKOTA	52	1,254	0.0	49	21	0.1	20	1
HAWAII	53	1,139	0.0	48	34	0.2	24	10
DISTRICT OF COLUMBIA	54	1,124	0.0	49	21	0.1	21	0
GUAM	55	174	0.0	51	19	0.1	11	8
NAVAJO NATION	56	6	0.0	54	2	0.0	2	0
Total		**30,176,118**	**100.0**		**17,694**	**100.0**	**15,584**	**2,110**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 1.3 Rank Ordering of States Based on Number of Hazardous Waste Generators and Quantity of RCRA Hazardous Waste Generated, 2003

State	Number of Generators			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Generated	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,514	14.2	1	445,317	1.5	2,274	240
NEW YORK	2	1,339	7.6	2	1,130,623	3.7	1,032	307
OHIO	3	1,040	5.9	3	1,800,170	6.0	908	132
ILLINOIS	4	917	5.2	4	1,125,485	3.7	758	159
PENNSYLVANIA	5	889	5.0	5	388,662	1.3	792	97
TEXAS	6	756	4.3	6	6,585,102	21.8	754	2
MICHIGAN	7	671	3.8	7	448,212	1.5	558	113
NEW JERSEY	8	626	3.5	8	1,236,150	4.1	597	29
INDIANA	9	589	3.3	9	988,323	3.3	472	117
MASSACHUSETTS	10	528	3.0	10	69,109	0.2	500	28
WISCONSIN	11	516	2.9	11	369,829	1.2	516	0
NORTH CAROLINA	12	440	2.5	12	112,595	0.4	412	28
WASHINGTON	13	431	2.4	13	91,883	0.3	431	0
ARKANSAS	14	385	2.2	14	419,385	1.4	157	228
LOUISIANA	15	347	2.0	15	4,559,668	15.1	341	6
TENNESSEE	16	346	2.0	16	572,329	1.9	346	0
FLORIDA	17	338	1.9	17	356,859	1.2	317	21
CONNECTICUT	18	334	1.9	18	38,396	0.1	325	9
MISSISSIPPI	19	314	1.8	19	2,004,551	6.6	128	186
GEORGIA	20	309	1.7	20	203,298	0.7	295	14
KENTUCKY	21	305	1.7	21	2,441,400	8.1	288	17
SOUTH CAROLINA	22	297	1.7	22	156,358	0.5	277	20
VIRGINIA	23	281	1.6	23	152,515	0.5	259	22
MISSOURI	24	276	1.6	24	192,933	0.6	264	12
NEW HAMPSHIRE	25	242	1.4	25	8,141	0.0	141	101
MINNESOTA	26	236	1.3	26	550,256	1.8	227	9
ALABAMA	27	232	1.3	27	1,252,012	4.1	232	0
ARIZONA	28	186	1.1	28	28,720	0.1	184	2
WEST VIRGINIA	29	185	1.0	29	87,315	0.3	168	17
KANSAS	30	179	1.0	30	104,166	0.3	170	9
OREGON	31	169	1.0	31	55,703	0.2	169	0
OKLAHOMA	32	152	0.9	32	242,664	0.8	138	14
IOWA	33	146	0.8	33	48,282	0.2	128	18
MARYLAND	34	132	0.7	34	55,379	0.2	131	1
COLORADO	35	115	0.6	35	86,702	0.3	104	11
RHODE ISLAND	36	111	0.6	36	6,776	0.0	96	15
NEBRASKA	37	84	0.5	37	43,541	0.1	68	16
PUERTO RICO	37	84	0.5	37	217,762	0.7	71	13
MAINE	39	82	0.5	39	7,259	0.0	75	7
UTAH	40	74	0.4	40	50,231	0.2	74	0
NEVADA	41	71	0.4	41	9,704	0.0	71	0
DELAWARE	42	66	0.4	42	19,070	0.1	59	7
ALASKA	43	54	0.3	43	4,804	0.0	32	22
VERMONT	44	47	0.3	44	2,924	0.0	45	2
MONTANA	45	46	0.3	45	18,859	0.1	38	8
IDAHO	46	39	0.2	46	5,447	0.0	22	17
NEW MEXICO	46	39	0.2	46	727,272	2.4	36	3
HAWAII	48	34	0.2	48	1,139	0.0	24	10
DISTRICT OF COLUMBIA	49	21	0.1	49	1,124	0.0	21	0
SOUTH DAKOTA	49	21	0.1	49	1,254	0.0	20	1
GUAM	51	19	0.1	51	174	0.0	11	8
NORTH DAKOTA	52	18	0.1	52	633,735	2.1	13	5
WYOMING	52	18	0.1	52	2,446	0.0	11	7
NAVAJO NATION	54	2	0.0	54	6	0.0	2	0
TRUST TERRITORIES	55	1	0.0	55	12,156	0.0	1	0
VIRGIN ISLANDS	55	1	0.0	55	1,943	0.0	1	0
Total		**17,694**	**100.0**		**30,176,118**	**100.0**	**15,584**	**2,110**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 1.4 Fifty Largest RCRA Hazardous Waste Generators in the U.S., 2003

Rank	EPA ID	Name	City	Tons Generated
1	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	2,165,148
2	LAD008213191	RUBICON LLC	GEISMAR, LA	1,952,986
3	LAD008175390	CYTEC INDUSTRIES, INC.	WAGGAMAN, LA	1,731,741
4	MSD096046792	E.I. DU PONT DE NEMOURS AND CO	PASS CHRISTIAN, MS	1,535,307
5	OHD042157644	BP AMOCO CHEMICAL COMPANY	LIMA, OH	1,026,222
6	TXD000751172	O & D USA INC	PORT LAVACA, TX	954,660
7	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW, TX	840,758
8	NYD000707901	IBM CORPORATION - EAST FISHKILL FACILITY	HOPEWELL JUNCTION, NY	796,875
9	KYD055831838	AIR PRODUCTS AND CHEMICALS, INC.	CALVERT CITY, KY	794,862
10	NMD048918817	NAVAJO REFINING COMPANY	ARTESIA, NM	724,501
11	TXD008079527	STERLING CHEMICALS INC	TEXAS CITY, TX	723,804
12	NJD980753875	SOLVAY SOLEXIS, INC.	THOROFARE, NJ	709,411
13	NDD006175467	TESORO - MANDAN REFINERY	MANDAN, ND	632,790
14	KYD006373922	ATOFINA CHEMICALS INC.	CARROLLTON, KY	515,597
15	TXD008106999	MERISOL USA LLC	HOUSTON, TX	485,095
16	ILD042075333	CABOT CORP	TUSCOLA, IL	470,671
17	ALD046481032	SANDERS LEAD COMPANY INC	TROY, AL	443,679
18	IND003913423	ISG BURNS HARBOR LLC	BURNS HARBOR, IN	436,855
19	MSD033417031	FIRST CHEMICAL CORPORATION	PASCAGOULA, MS	411,077
20	FLR000068007	K C INDUSTRIES LLC MULBERRY FLORIDA	MULBERRY, FL	265,102
21	TXD008123317	E I DU PONT DE NEMOURS AND COMPANY	VICTORIA, TX	240,461
22	MND006253801	SUPERIOR PLATING INC	MINNEAPOLIS, MN	238,205
23	ALD062464748	UOP LLC MOBILE PLANT	CHICKASAW, AL	234,159
24	OKD987072006	NORIT AMERICAS INC., PRYOR FACILITY	PRYOR, OK	182,142
25	LAR000041087	SASOL NORTH AMERICA INC.	WESTLAKE, LA	176,519
26	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	175,331
27	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA, AR	164,313
28	ALD001221902	CIBA SPECIALTY CHEMICALS CORP MCINTOSH	MCINTOSH, AL	153,487
29	LAD040776809	BASF CORPORATION	GEISMAR, LA	152,996
30	TXD008081697	BASF CORPORATION	FREEPORT, TX	148,700
31	TND003376928	EASTMAN CHEMICAL COMPANY, TENNESSEE OPE	KINGSPORT, TN	144,730
32	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR, LA	123,919
33	TND982139115	UNISYS EARHART SITE, BRISTOL TN	BRISTOL, TN	119,986
34	TXD008092793	THE DOW CHEMICAL COMPANY	FREEPORT, TX	113,560
35	ALD004019642	OCCIDENTAL CHEMICAL CORP MUSCLE SHOALS	MUSCLE SHOALS, AL	112,608
36	KYD006386395	KENTUCKY GLASS PLANT GE LIGHTING LLC	LEXINGTON, KY	110,117
37	LAD020597597	ANGUS CHEMICAL COMPANY	STERLINGTON, LA	108,813
38	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	108,731
39	OHD005048947	SYSTECH ENVIRONMENTAL CORPORATION	PAULDING, OH	104,541
40	KY0000693424	STEEL TECHNOLOGIES	GHENT, KY	104,319
41	KYD006370159	ARKEMA INC	CALVERT CITY, KY	102,494
42	IND093219012	HERITAGE ENVIRONMENTAL SERVICES LLC	INDIANAPOLIS, IN	101,947
43	ILD010284248	CID RECYCLING & DISPOSAL FAC	CALUMET CITY, IL	96,164
44	KYD058688664	HOLLEY PERFORMANCE PRODUCTS INC	BOWLING GREEN, KY	94,013
45	ARD043195429	GREAT LAKES CHEM CORP-CENTRAL PLT	EL DORADO, AR	91,890
46	KYD061557054	DYNO NOBEL INC.	GRAHAM, KY	90,015
47	MOD050226075	BASF CORP	PALMYRA, MO	87,221
48	KSD980633259	SYSTECH ENVIRONMENTAL CORP	FREDONIA, KS	81,013
49	PRD980594618	UNION CARBIDE CARIBE LLC	PENUELAS, PR	79,882
50	MID000724831	MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE, MI	78,380
Total				**21,537,799**

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 1.5 Number of Hazardous Waste Generators by Generator Quantity Range, 2003

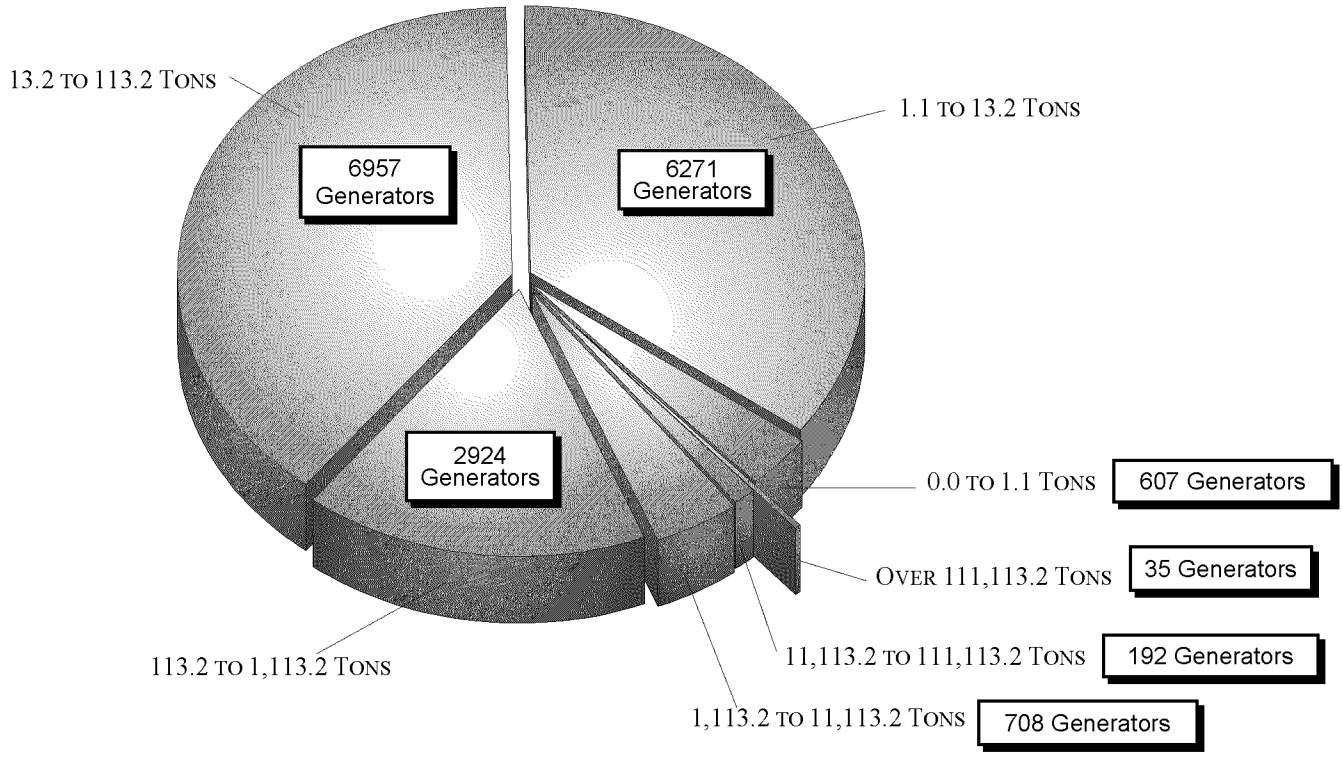
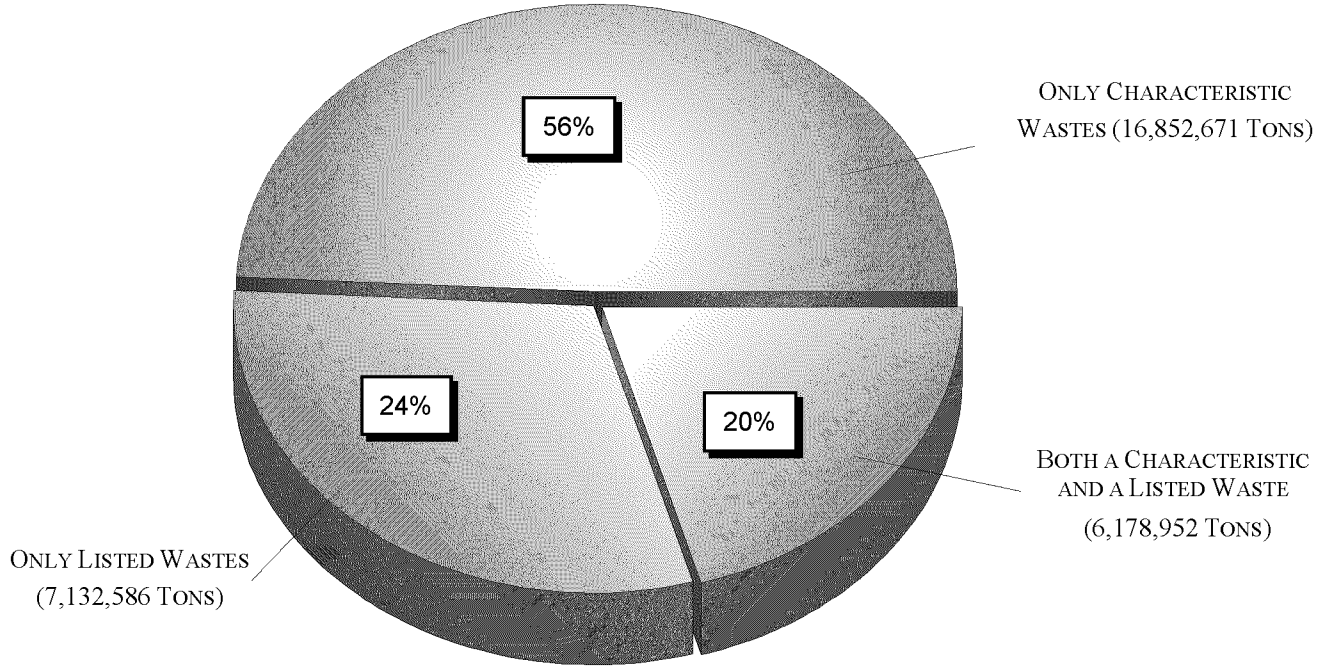


Exhibit 1.6 Percentages of National Generation Total That Were Characteristic, Listed, or Both Characteristic and Listed Waste, 2003



Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the introduction for a complete explanation.

Exhibit 1.7 Tons of Generated Waste That Were Only Characteristic Waste, Only Listed Waste, or Both Characteristic and Listed Waste, 2003

Only Characteristic Wastes		Only Listed Wastes		Both a Characteristic and a Listed Waste	
ONLY IGNITABLE	433,640	ONLY AN F CODE	1,658,288		
ONLY CORROSIVE	3,099,211	ONLY A K CODE	2,631,211		
ONLY REACTIVE	71,473	ONLY A P CODE	166,837		
ONLY D004-17	2,037,234	ONLY A U CODE	224,084		
ONLY D018-43	2,626,048				
HAS MORE THAN ONE CHARACTERISTIC CODE	8,585,065	HAS MORE THAN ONE LISTED CODE	2,452,166		
TOTAL	**16,852,671**	**TOTAL**	**7,132,586**	**Both Characteristic and Listed**	**6,178,952**

Note: All quantities are in tons.

Exhibit 1.8 Tons of Generated Waste with Multiple Characteristics, That Were Multiply Listed, or Both, 2003

Only Characteristic Wastes But With Multiple Characteristics		Only Listed Wastes But Multiply Listed		Both Characteristic and Listed Wastes [1]	
HAS IGNITABLE CODE	1,639,993			IGNITABLE CODE W/ AT LEAST ONE LISTED CODE	1,697,775
HAS CORROSIVE CODE	5,636,788			CORROSIVE CODE W/ AT LEAST ONE LISTED CODE	2,730,067
HAS REACTIVE CODE	2,516,684			REACTIVE CODE W/ AT LEAST ONE LISTED CODE	1,200,444
HAS D004-17 CODE	4,180,794			D004-17 CODE W/ AT LEAST ONE LISTED CODE	1,093,534
HAS D018-43 CODE	4,801,450			D018-43 CODE W/ AT LEAST ONE LISTED CODE	4,568,926
		HAS F CODE	1,738,812	F WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	3,791,345
		HAS K CODE	2,323,053	K WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	4,328,336
		HAS P CODE	223,842	P WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	1,246,069
		HAS U CODE	944,767	U WASTE W/ AT LEAST ONE CHARACTERISTIC CODE	3,215,723
TOTAL	**8,585,065**	**TOTAL**	**2,452,166**	**TOTAL**	**6,178,952**

[1] Listed wastes with ignitable, corrosive, reactive, D004-17 (Toxic), or D018-43 (Toxic) characteristics respectively may have other characteristics as well. Similarly, characteristic wastes that are also F, K, P, or U listed wastes respectively may be other listed wastes as well.

Note: All quantities are in tons.
Columns do not sum to total because wastes may be included in more than one category.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 1.9 Fifty Largest Quantities of Hazardous Waste Generated, by Primary NAICS Code in the U.S., 2003

Rank	NAICS Code	Description	Tons Generated
1	3251	Basic Chemical Manufacturing	13,968,303
2	3241	Petroleum and Coal Products Manufacturing	3,915,137
3	5622	Waste Treatment and Disposal	1,878,827
4	3252	Resin, Synthetic Rubber, and Artificial Synthetic Fibers and Filaments Manufacturing	1,855,158
5	3311	Iron and Steel Mills and Ferroalloy Manufacturing	1,295,959
6	3344	Semiconductor and Other Electronic Component Manufacturing	1,019,500
7	3314	Nonferrous Metal (except Aluminum) Production and Processing	806,651
8	3328	Coating, Engraving, Heat Treating, and Allied Activities	786,191
9	3259	Other Chemical Product and Preparation Manufacturing	566,627
10	5629	Remediation and Other Waste Management Services	469,394
11	3254	Pharmaceutical and Medicine Manufacturing	397,228
12	3312	Steel Product Manufacturing from Purchased Steel	219,881
13	3363	Motor Vehicle Parts Manufacturing	208,735
14	3399	Other Miscellaneous Manufacturing	178,746
15	3253	Pesticide, Fertilizer, and Other Agricultural Chemical Manufacturing	164,338
16	3255	Paint, Coating, and Adhesive Manufacturing	142,346
17	3272	Glass and Glass Product Manufacturing	137,538
18	3329	Other Fabricated Metal Product Manufacturing	129,889
19	3261	Plastics Product Manufacturing	125,363
20	3211	Sawmills and Wood Preservation	111,977
21	3335	Metalworking Machinery Manufacturing	108,728
22	3313	Alumina and Aluminum Production and Processing	106,796
23	9281	National Security and International Affairs	102,999
24	3315	Foundries	97,875
25	3359	Other Electrical Equipment and Component Manufacturing	91,237
26	3364	Aerospace Product and Parts Manufacturing	78,864
27	3222	Converted Paper Product Manufacturing	54,642
28	3325	Hardware Manufacturing	50,178
29	4931	Warehousing and Storage	48,871
30	3361	Motor Vehicle Manufacturing	48,155
31	5621	Waste Collection	48,112
32	3327	Machine Shops; Turned Product; and Screw, Nut, and Bolt Manufacturing	42,841
33	3231	Printing and Related Support Activities	41,544
34	4246	Chemical and Allied Products Merchant Wholesalers	34,904
35	5415	Computer Systems Design and Related Services	33,872
36	3219	Other Wood Product Manufacturing	29,863
37	3119	Other Food Manufacturing	29,653
38	3256	Soap, Cleaning Compound, and Toilet Preparation Manufacturing	27,911
39	3369	Other Transportation Equipment Manufacturing	26,461
40	3362	Motor Vehicle Body and Trailer Manufacturing	26,069
41	3271	Clay Product and Refractory Manufacturing	23,489
42	3322	Cutlery and Handtool Manufacturing	20,797
43	3346	Manufacturing and Reproducing Magnetic and Optical Media	19,896
44	3323	Architectural and Structural Metals Manufacturing	18,704
45	2111	Oil and Gas Extraction	18,557
46	4239	Miscellaneous Durable Goods Merchant Wholesalers	18,183
47	4883	Support Activities for Water Transportation	17,723
48	3262	Rubber Product Manufacturing	17,045
49	2211	Electric Power Generation, Transmission and Distribution	16,923
50	3366	Ship and Boat Building	16,764
Total			**29,695,444**

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 2.1 Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, by State, 2003

State	Hazardous Waste Quantity			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
ALABAMA	10	1,378,164	3.3	17	40	2.3	13	27
ALASKA	38	33,933	0.1	43	6	0.3	2	4
ARIZONA	39	33,450	0.1	31	14	0.8	7	7
ARKANSAS	18	613,538	1.5	18	38	2.2	10	28
CALIFORNIA	15	697,192	1.7	1	148	8.6	56	92
COLORADO	35	44,434	0.1	31	14	0.8	4	10
CONNECTICUT	42	19,528	0.0	30	15	0.9	8	7
DELAWARE	46	5,051	0.0	41	9	0.5	1	8
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
FLORIDA	8	1,992,797	4.7	13	45	2.6	14	31
GEORGIA	6	2,094,734	5.0	10	48	2.8	10	38
GUAM	52	0	0.0	52	0	0.0	0	0
HAWAII	50	2	0.0	49	1	0.1	0	1
IDAHO	29	128,052	0.3	46	3	0.2	2	1
ILLINOIS	11	1,238,001	2.9	12	46	2.7	24	22
INDIANA	12	1,112,784	2.6	10	48	2.8	20	28
IOWA	49	2,523	0.0	27	21	1.2	5	16
KANSAS	5	2,166,762	5.1	23	28	1.6	7	21
KENTUCKY	4	2,340,323	5.6	6	78	4.5	16	62
LOUISIANA	2	4,593,218	10.9	15	43	2.5	20	23
MAINE	48	2,688	0.0	35	13	0.8	1	12
MARYLAND	43	19,417	0.0	37	11	0.6	5	6
MASSACHUSETTS	41	25,677	0.1	16	41	2.4	11	30
MICHIGAN	20	553,324	1.3	31	14	0.8	13	1
MINNESOTA	16	692,493	1.6	20	36	2.1	12	24
MISSISSIPPI	3	2,371,091	5.6	25	27	1.6	5	22
MISSOURI	23	433,859	1.0	18	38	2.2	14	24
MONTANA	44	13,533	0.0	43	6	0.3	5	1
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEBRASKA	37	41,009	0.1	35	13	0.8	2	11
NEVADA	36	43,170	0.1	43	6	0.3	6	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
NEW JERSEY	13	1,098,563	2.6	20	36	2.1	13	23
NEW MEXICO	14	723,140	1.7	37	11	0.6	8	3
NEW YORK	9	1,396,825	3.3	2	119	6.9	15	104
NORTH CAROLINA	34	53,809	0.1	14	44	2.5	17	27
NORTH DAKOTA	17	632,052	1.5	46	3	0.2	3	0
OHIO	7	2,015,904	4.8	7	63	3.7	31	32
OKLAHOMA	31	70,018	0.2	23	28	1.6	9	19
OREGON	30	80,654	0.2	26	26	1.5	2	24
PENNSYLVANIA	21	509,114	1.2	9	49	2.8	22	27
PUERTO RICO	26	199,960	0.5	37	11	0.6	6	5
RHODE ISLAND	47	3,936	0.0	37	11	0.6	2	9
SOUTH CAROLINA	27	173,526	0.4	27	21	1.2	11	10
SOUTH DAKOTA	51	0	0.0	49	1	0.1	0	1
TENNESSEE	19	571,390	1.4	5	102	5.9	15	87
TEXAS	1	10,640,830	25.3	3	118	6.8	57	61
TRUST TERRITORIES	45	12,000	0.0	49	1	0.1	1	0
UTAH	25	226,141	0.5	29	18	1.0	10	8
VERMONT	22	442,352	1.1	42	7	0.4	4	3
VIRGIN ISLANDS	52	0	0.0	52	0	0.0	0	0
VIRGINIA	28	145,986	0.3	22	29	1.7	9	20
WASHINGTON	33	56,988	0.1	4	103	6.0	18	85
WEST VIRGINIA	32	57,602	0.1	31	14	0.8	10	4
WISCONSIN	24	262,596	0.6	8	59	3.4	9	50
WYOMING	40	31,425	0.1	48	2	0.1	1	1
Total		**42,095,559**	**100.0**		**1,726**	**100.0**	**566**	**1,160**

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 2.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Managed and Number of RCRA Management Facilities, 2003

State	Hazardous Waste Quantity			Number of Facilities			Reported Status	
	Rank	Tons Managed	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
TEXAS	1	10,640,830	25.3	3	118	6.8	57	61
LOUISIANA	2	4,593,218	10.9	15	43	2.5	20	23
MISSISSIPPI	3	2,371,091	5.6	25	27	1.6	5	22
KENTUCKY	4	2,340,323	5.6	6	78	4.5	16	62
KANSAS	5	2,166,762	5.1	23	28	1.6	7	21
GEORGIA	6	2,094,734	5.0	10	48	2.8	10	38
OHIO	7	2,015,904	4.8	7	63	3.7	31	32
FLORIDA	8	1,992,797	4.7	13	45	2.6	14	31
NEW YORK	9	1,396,825	3.3	2	119	6.9	15	104
ALABAMA	10	1,378,164	3.3	17	40	2.3	13	27
ILLINOIS	11	1,238,001	2.9	12	46	2.7	24	22
INDIANA	12	1,112,784	2.6	10	48	2.8	20	28
NEW JERSEY	13	1,098,563	2.6	20	36	2.1	13	23
NEW MEXICO	14	723,140	1.7	37	11	0.6	8	3
CALIFORNIA	15	697,192	1.7	1	148	8.6	56	92
MINNESOTA	16	692,493	1.6	20	36	2.1	12	24
NORTH DAKOTA	17	632,052	1.5	46	3	0.2	3	0
ARKANSAS	18	613,538	1.5	18	38	2.2	10	28
TENNESSEE	19	571,390	1.4	5	102	5.9	15	87
MICHIGAN	20	553,324	1.3	31	14	0.8	13	1
PENNSYLVANIA	21	509,114	1.2	9	49	2.8	22	27
VERMONT	22	442,352	1.1	42	7	0.4	4	3
MISSOURI	23	433,859	1.0	18	38	2.2	14	24
WISCONSIN	24	262,596	0.6	8	59	3.4	9	50
UTAH	25	226,141	0.5	29	18	1.0	10	8
PUERTO RICO	26	199,960	0.5	37	11	0.6	6	5
SOUTH CAROLINA	27	173,526	0.4	27	21	1.2	11	10
VIRGINIA	28	145,986	0.3	22	29	1.7	9	20
IDAHO	29	128,052	0.3	46	3	0.2	2	1
OREGON	30	80,654	0.2	26	26	1.5	2	24
OKLAHOMA	31	70,018	0.2	23	28	1.6	9	19
WEST VIRGINIA	32	57,602	0.1	31	14	0.8	10	4
WASHINGTON	33	56,988	0.1	4	103	6.0	18	85
NORTH CAROLINA	34	53,809	0.1	14	44	2.5	17	27
COLORADO	35	44,434	0.1	31	14	0.8	4	10
NEVADA	36	43,170	0.1	43	6	0.3	6	0
NEBRASKA	37	41,009	0.1	35	13	0.8	2	11
ALASKA	38	33,933	0.1	43	6	0.3	2	4
ARIZONA	39	33,450	0.1	31	14	0.8	7	7
WYOMING	40	31,425	0.1	48	2	0.1	1	1
MASSACHUSETTS	41	25,677	0.1	16	41	2.4	11	30
CONNECTICUT	42	19,528	0.0	30	15	0.9	8	7
MARYLAND	43	19,417	0.0	37	11	0.6	5	6
MONTANA	44	13,533	0.0	43	6	0.3	5	1
TRUST TERRITORIES	45	12,000	0.0	49	1	0.1	1	0
DELAWARE	46	5,051	0.0	41	9	0.5	1	8
RHODE ISLAND	47	3,936	0.0	37	11	0.6	2	9
MAINE	48	2,688	0.0	35	13	0.8	1	12
IOWA	49	2,523	0.0	27	21	1.2	5	16
HAWAII	50	2	0.0	49	1	0.1	0	1
SOUTH DAKOTA	51	0	0.0	49	1	0.1	0	1
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
GUAM	52	0	0.0	52	0	0.0	0	0
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
VIRGIN ISLANDS	52	0	0.0	52	0	0.0	0	0
Total		**42,095,559**	**100.0**		**1,726**	**100.0**	**566**	**1,160**

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 2.3 Rank Ordering of States Based on Number of RCRA Management Facilities and Quantity of RCRA Hazardous Waste Managed, 2003

State	Number of Facilities			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Managed	Percentage	TSDF	Non-TSDF
CALIFORNIA	1	148	8.6	15	697,192	1.7	56	92
NEW YORK	2	119	6.9	9	1,396,825	3.3	15	104
TEXAS	3	118	6.8	1	10,640,830	25.3	57	61
WASHINGTON	4	103	6.0	33	56,988	0.1	18	85
TENNESSEE	5	102	5.9	19	571,390	1.4	15	87
KENTUCKY	6	78	4.5	4	2,340,323	5.6	16	62
OHIO	7	63	3.7	7	2,015,904	4.8	31	32
WISCONSIN	8	59	3.4	24	262,596	0.6	9	50
PENNSYLVANIA	9	49	2.8	21	509,114	1.2	22	27
GEORGIA	10	48	2.8	6	2,094,734	5.0	10	38
INDIANA	10	48	2.8	12	1,112,784	2.6	20	28
ILLINOIS	12	46	2.7	11	1,238,001	2.9	24	22
FLORIDA	13	45	2.6	8	1,992,797	4.7	14	31
NORTH CAROLINA	14	44	2.5	34	53,809	0.1	17	27
LOUISIANA	15	43	2.5	2	4,593,218	10.9	20	23
MASSACHUSETTS	16	41	2.4	41	25,677	0.1	11	30
ALABAMA	17	40	2.3	10	1,378,164	3.3	13	27
ARKANSAS	18	38	2.2	18	613,538	1.5	10	28
MISSOURI	18	38	2.2	23	433,859	1.0	14	24
MINNESOTA	20	36	2.1	16	692,493	1.6	12	24
NEW JERSEY	20	36	2.1	13	1,098,563	2.6	13	23
VIRGINIA	22	29	1.7	28	145,986	0.3	9	20
KANSAS	23	28	1.6	5	2,166,762	5.1	7	21
OKLAHOMA	23	28	1.6	31	70,018	0.2	9	19
MISSISSIPPI	25	27	1.6	3	2,371,091	5.6	5	22
OREGON	26	26	1.5	30	80,654	0.2	2	24
IOWA	27	21	1.2	49	2,523	0.0	5	16
SOUTH CAROLINA	27	21	1.2	27	173,526	0.4	11	10
UTAH	29	18	1.0	25	226,141	0.5	10	8
CONNECTICUT	30	15	0.9	42	19,528	0.0	8	7
ARIZONA	31	14	0.8	39	33,450	0.1	7	7
COLORADO	31	14	0.8	35	44,434	0.1	4	10
MICHIGAN	31	14	0.8	20	553,324	1.3	13	1
WEST VIRGINIA	31	14	0.8	32	57,602	0.1	10	4
MAINE	35	13	0.8	48	2,688	0.0	1	12
NEBRASKA	35	13	0.8	37	41,009	0.1	2	11
MARYLAND	37	11	0.6	43	19,417	0.0	5	6
NEW MEXICO	37	11	0.6	14	723,140	1.7	8	3
PUERTO RICO	37	11	0.6	26	199,960	0.5	6	5
RHODE ISLAND	37	11	0.6	47	3,936	0.0	2	9
DELAWARE	41	9	0.5	46	5,051	0.0	1	8
VERMONT	42	7	0.4	22	442,352	1.1	4	3
ALASKA	43	6	0.3	38	33,933	0.1	2	4
MONTANA	43	6	0.3	44	13,533	0.0	5	1
NEVADA	43	6	0.3	36	43,170	0.1	6	0
IDAHO	46	3	0.2	29	128,052	0.3	2	1
NORTH DAKOTA	46	3	0.2	17	632,052	1.5	3	0
WYOMING	48	2	0.1	40	31,425	0.1	1	1
HAWAII	49	1	0.1	50	2	0.0	0	1
SOUTH DAKOTA	49	1	0.1	51	0	0.0	0	1
TRUST TERRITORIES	49	1	0.1	45	12,000	0.0	1	0
DISTRICT OF COLUMBIA	52	0	0.0	52	0	0.0	0	0
GUAM	52	0	0.0	52	0	0.0	0	0
NAVAJO NATION	52	0	0.0	52	0	0.0	0	0
NEW HAMPSHIRE	52	0	0.0	52	0	0.0	0	0
VIRGIN ISLANDS	52	0	0.0	52	0	0.0	0	0
Total		**1,726**	**100.0**		**42,095,559**	**100.0**	**566**	**1,160**

Notes: Columns may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 2.4 Fifty Largest RCRA Hazardous Waste Managers in the U.S., 2003

Rank	EPA ID	Name	City	Tons Managed [1]
1	TXD008079527	STERLING CHEMICALS INC	TEXAS CITY	4,232,993
2	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY	2,143,066
3	KSD000809673	CESSNA AIRCRAFT CO - MID-CONTINENT FAC	WICHITA	1,956,935
4	LAD008213191	RUBICON LLC	GEISMAR	1,952,034
5	GAD040690737	OLIN CORPORATION	AUGUSTA	1,801,596
6	LAD008175390	CYTEC INDUSTRIES, INC.	WAGGAMAN	1,730,625
7	MSD096046792	E.I. DU PONT DE NEMOURS AND CO	PASS CHRISTIAN	1,535,294
8	OHD042157644	BP AMOCO CHEMICAL COMPANY	LIMA	1,025,579
9	TXD000751172	BP CHEMICALS INC	PORT LAVACA	953,997
10	TXD083472266	LYONDELL CHEMICAL COMPANY	CHANNELVIEW	875,331
11	FLD008155673	AIR PRODUCTS AND CHEMICALS, INC	PACE	810,833
12	KYD055831838	AIR PRODUCTS AND CHEMICALS	CALVERT CITY	794,005
13	NYD000707901	IBM CORPORATION - EAST FISHKILL FACILITY	HOPEWELL JUNCTION	792,452
14	FLD980799050	FAIRBANKS DISPOSAL PIT	GAINESVILLE	742,700
15	NMD048918817	NAVAJO REFINING COMPANY	ARTESIA	721,684
16	NJD980753875	SOLVAY SOLEXIS, INC.	THOROFARE	709,410
17	NDD006175467	TESORO - MANDAN REFINERY	MANDAN	631,977
18	KYD006373922	ATOFINA CHEMICALS, INC.	CARROLLTON	515,295
19	TXD008106999	MERISOL USA LLC	HOUSTON	482,805
20	ILD042075333	CABOT CORP	TUSCOLA	470,655
21	ALD046481032	SANDERS LEAD COMPANY, INC.	TROY	448,414
22	VTD002084705	I B M CORP	ESSEX JUNCTION	442,172
23	IND003913423	ISG BURNS HARBOR LLC	BURNS HARBOR	436,649
24	MSD033417031	FIRST CHEMICAL CORPORATION	PASCAGOULA	409,038
25	TXD007349327	TXI OPERATIONS LP	MIDLOTHIAN	368,263
26	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN	332,020
27	TXD008081697	BASF CORPORATION	FREEPORT	297,231
28	FLR000068007	K.C. INDUSTRIES, L.L.C., MULBERRY, FLORI	MULBERRY	265,102
29	MID000724831	MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE	250,306
30	TXD008123317	E I DU PONT DE NEMOURS AND COMPANY	VICTORIA	242,282
31	MND006253801	SUPERIOR PLATING INC	MINNEAPOLIS	238,018
32	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA	234,757
33	ALD062464748	UOP LLC MOBILE PLANT	CHICKASAW	234,075
34	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR	225,597
35	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON	208,807
36	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA	200,948
37	MSD008183519	FERNWOOD INDUSTRIES, L.L.C.	FERNWOOD	195,688
38	NYD049836679	CWM CHEMICAL SERVICES, LLC	MODEL CITY	182,749
39	ILD040891368	HORSEHEAD CORP	CHICAGO	179,300
40	TXD990757486	AIR PRODUCTS LP	PASADENA	177,987
41	LAR000041087	SASOL NORTH AMERICA, INC.	WESTLAKE	175,911
42	PAD002395887	HORSEHEAD CORP	PALMERTON	170,671
43	OHD020273819	VICKERY ENVIRONMENTAL, INC.	VICKERY	162,987
44	NYD030485288	REVERE SMELTING & REFINING CORPORATION	MIDDLETOWN	161,353
45	ARD981057870	RINECO	BENTON	150,118
46	ALD001221902	CIBA SPECIALTY CHEMICALS CORPORATION	MCINTOSH	149,696
47	TND003376928	EASTMAN CHEMICAL COMPANY, TENNESSEE OPE	KINGSPORT	136,498
48	MSD021019914	AMERICAN WOOD - DIVISION OF POWE TIMBER	RICHTON	131,946
49	ALD008185407	HUXFORD POLE & TIMBER CO., INC.	HUXFORD	131,297
50	IDD073114654	US ECOLOGY IDAHO INC SITE B	GRAND VIEW	128,034
Total				**31,947,180**

[1]Quantity managed by storage-only is excluded.

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 2.5 Quantity of RCRA Hazardous Waste Managed, by Management Method, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
AQUEOUS INORGANIC TREATMENT	2,127,196	5.1	262	15.2
AQUEOUS ORGANIC TREATMENT	5,584,326	13.3	98	5.7
DEEPWELL OR UNDERGROUND INJECTION	14,479,172	34.4	42	2.4
ENERGY RECOVERY	1,467,938	3.5	103	6.0
FUEL BLENDING	916,048	2.2	116	6.7
INCINERATION	1,273,040	3.0	162	9.4
LAND TREATMENT/APPLICATION/FARMING	28,001	0.1	14	0.8
LANDFILL/SURFACE IMPOUNDMENT	1,675,669	4.0	72	4.2
METALS RECOVERY	1,151,991	2.7	159	9.2
OTHER DISPOSAL	3,349,062	8.0	128	7.4
OTHER RECOVERY	729,410	1.7	85	4.9
OTHER TREATMENT	7,745,624	18.4	461	26.7
SLUDGE TREATMENT	557,270	1.3	78	4.5
SOLVENTS RECOVERY	262,736	0.6	523	30.3
STABILIZATION	748,077	1.8	156	9.0
Total	**42,095,559**	**100.0**	**1726**	

Exhibit 2.6 Management Method, by Quantity of RCRA Hazardous Waste Managed, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
DEEPWELL OR UNDERGROUND INJECTION	14,479,172	34.4	42	2.4
OTHER TREATMENT	7,745,624	18.4	461	26.7
AQUEOUS ORGANIC TREATMENT	5,584,326	13.3	98	5.7
OTHER DISPOSAL	3,349,062	8.0	128	7.4
AQUEOUS INORGANIC TREATMENT	2,127,196	5.1	262	15.2
LANDFILL/SURFACE IMPOUNDMENT	1,675,669	4.0	72	4.2
ENERGY RECOVERY	1,467,938	3.5	103	6.0
INCINERATION	1,273,040	3.0	162	9.4
METALS RECOVERY	1,151,991	2.7	159	9.2
FUEL BLENDING	916,048	2.2	116	6.7
STABILIZATION	748,077	1.8	156	9.0
OTHER RECOVERY	729,410	1.7	85	4.9
SLUDGE TREATMENT	557,270	1.3	78	4.5
SOLVENTS RECOVERY	262,736	0.6	523	30.3
LAND TREATMENT/APPLICATION/FARMING	28,001	0.1	14	0.8
Total	**42,095,559**	**100.0**	**1726**	

Exhibit 2.7 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
SOLVENTS RECOVERY	262,736	0.6	523	30.3
OTHER TREATMENT	7,745,624	18.4	461	26.7
AQUEOUS INORGANIC TREATMENT	2,127,196	5.1	262	15.2
INCINERATION	1,273,040	3.0	162	9.4
METALS RECOVERY	1,151,991	2.7	159	9.2
STABILIZATION	748,077	1.8	156	9.0
OTHER DISPOSAL	3,349,062	8.0	128	7.4
FUEL BLENDING	916,048	2.2	116	6.7
ENERGY RECOVERY	1,467,938	3.5	103	6.0
AQUEOUS ORGANIC TREATMENT	5,584,326	13.3	98	5.7
OTHER RECOVERY	729,410	1.7	85	4.9
SLUDGE TREATMENT	557,270	1.3	78	4.5
LANDFILL/SURFACE IMPOUNDMENT	1,675,669	4.0	72	4.2
DEEPWELL OR UNDERGROUND INJECTION	14,479,172	34.4	42	2.4
LAND TREATMENT/APPLICATION/FARMING	28,001	0.1	14	0.8
Total	**42,095,559**	**100.0**	**1726**	

[1] Column may not sum because facilities may have multiple handling methods.

Note: Columns for these exhibits may not sum due to rounding.
Facilities reporting storage-only and their quantity managed are excluded.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.1 Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, by State, 2003

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
ALABAMA	15	165,404	2.3	26	234	1.3	234	0
ALASKA	46	3,178	0.0	43	51	0.3	30	21
ARIZONA	36	27,063	0.4	28	186	1.1	184	2
ARKANSAS	11	222,151	3.0	14	378	2.1	157	221
CALIFORNIA	7	353,829	4.8	1	2,519	14.3	2,276	243
COLORADO	23	72,693	1.0	35	114	0.6	104	10
CONNECTICUT	28	54,113	0.7	17	336	1.9	327	9
DELAWARE	38	16,716	0.2	42	66	0.4	59	7
DISTRICT OF COLUMBIA	53	1,124	0.0	49	21	0.1	21	0
FLORIDA	30	48,632	0.7	17	336	1.9	315	21
GEORGIA	20	85,833	1.2	19	309	1.8	294	15
GUAM	54	162	0.0	50	20	0.1	11	9
HAWAII	52	1,146	0.0	48	34	0.2	24	10
IDAHO	43	5,675	0.1	46	40	0.2	22	18
ILLINOIS	9	311,578	4.2	4	911	5.2	759	152
INDIANA	6	446,713	6.1	9	586	3.3	469	117
IOWA	31	47,148	0.6	33	146	0.8	128	18
KANSAS	17	103,899	1.4	30	177	1.0	168	9
KENTUCKY	16	143,180	2.0	20	305	1.7	288	17
LOUISIANA	13	181,371	2.5	15	346	2.0	340	6
MAINE	45	3,912	0.1	39	81	0.5	75	6
MARYLAND	26	56,936	0.8	34	132	0.8	131	1
MASSACHUSETTS	19	97,491	1.3	10	530	3.0	502	28
MICHIGAN	1	776,020	10.6	7	674	3.8	560	114
MINNESOTA	29	52,761	0.7	26	234	1.3	225	9
MISSISSIPPI	37	26,581	0.4	21	300	1.7	128	172
MISSOURI	21	79,243	1.1	24	276	1.6	264	12
MONTANA	42	5,853	0.1	45	42	0.2	34	8
NAVAJO NATION	56	6	0.0	54	2	0.0	2	0
NEBRASKA	33	37,696	0.5	37	83	0.5	68	15
NEVADA	39	11,913	0.2	41	71	0.4	71	0
NEW HAMPSHIRE	40	8,141	0.1	25	242	1.4	141	101
NEW JERSEY	5	493,974	6.7	8	620	3.5	592	28
NEW MEXICO	44	5,611	0.1	47	39	0.2	36	3
NEW YORK	10	229,047	3.1	2	1,304	7.4	994	310
NORTH CAROLINA	18	98,957	1.3	12	439	2.5	412	27
NORTH DAKOTA	50	1,614	0.0	52	18	0.1	13	5
OHIO	3	649,485	8.9	3	1,038	5.9	906	132
OKLAHOMA	35	31,251	0.4	32	149	0.8	138	11
OREGON	32	42,542	0.6	31	167	0.9	167	0
PENNSYLVANIA	8	327,641	4.5	5	892	5.1	795	97
PUERTO RICO	25	66,908	0.9	38	82	0.5	70	12
RHODE ISLAND	41	6,659	0.1	36	110	0.6	95	15
SOUTH CAROLINA	12	182,896	2.5	22	288	1.6	268	20
SOUTH DAKOTA	51	1,472	0.0	50	20	0.1	19	1
TENNESSEE	4	566,105	7.7	16	345	2.0	345	0
TEXAS	2	767,522	10.5	6	747	4.2	745	2
TRUST TERRITORIES	55	74	0.0	55	1	0.0	1	0
UTAH	27	56,264	0.8	40	74	0.4	73	1
VERMONT	47	2,922	0.0	43	51	0.3	49	2
VIRGIN ISLANDS	48	1,852	0.0	55	1	0.0	1	0
VIRGINIA	22	78,595	1.1	23	280	1.6	258	22
WASHINGTON	24	67,592	0.9	13	425	2.4	425	0
WEST VIRGINIA	34	35,307	0.5	29	184	1.0	167	17
WISCONSIN	14	169,179	2.3	11	512	2.9	512	0
WYOMING	49	1,650	0.0	53	17	0.1	10	7
Total		**7,333,284**	**100.0**		**17,585**	**100.0**	**15,502**	**2,083**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.2 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Shipped and Number of Hazardous Waste Shippers, 2003

State	Hazardous Waste Quantity			Number of Shippers			Reported Status	
	Rank	Tons Shipped	Percentage	Rank	Number	Percentage	LQG	Non-LQG
MICHIGAN	1	776,020	10.6	7	674	3.8	560	114
TEXAS	2	767,522	10.5	6	747	4.2	745	2
OHIO	3	649,485	8.9	3	1,038	5.9	906	132
TENNESSEE	4	566,105	7.7	16	345	2.0	345	0
NEW JERSEY	5	493,974	6.7	8	620	3.5	592	28
INDIANA	6	446,713	6.1	9	586	3.3	469	117
CALIFORNIA	7	353,829	4.8	1	2,519	14.3	2,276	243
PENNSYLVANIA	8	327,641	4.5	5	892	5.1	795	97
ILLINOIS	9	311,578	4.2	4	911	5.2	759	152
NEW YORK	10	229,047	3.1	2	1,304	7.4	994	310
ARKANSAS	11	222,151	3.0	14	378	2.1	157	221
SOUTH CAROLINA	12	182,896	2.5	22	288	1.6	268	20
LOUISIANA	13	181,371	2.5	15	346	2.0	340	6
WISCONSIN	14	169,179	2.3	11	512	2.9	512	0
ALABAMA	15	165,404	2.3	26	234	1.3	234	0
KENTUCKY	16	143,180	2.0	20	305	1.7	288	17
KANSAS	17	103,899	1.4	30	177	1.0	168	9
NORTH CAROLINA	18	98,957	1.3	12	439	2.5	412	27
MASSACHUSETTS	19	97,491	1.3	10	530	3.0	502	28
GEORGIA	20	85,833	1.2	19	309	1.8	294	15
MISSOURI	21	79,243	1.1	24	276	1.6	264	12
VIRGINIA	22	78,595	1.1	23	280	1.6	258	22
COLORADO	23	72,693	1.0	35	114	0.6	104	10
WASHINGTON	24	67,592	0.9	13	425	2.4	425	0
PUERTO RICO	25	66,908	0.9	38	82	0.5	70	12
MARYLAND	26	56,936	0.8	34	132	0.8	131	1
UTAH	27	56,264	0.8	40	74	0.4	73	1
CONNECTICUT	28	54,113	0.7	17	336	1.9	327	9
MINNESOTA	29	52,761	0.7	26	234	1.3	225	9
FLORIDA	30	48,632	0.7	17	336	1.9	315	21
IOWA	31	47,148	0.6	33	146	0.8	128	18
OREGON	32	42,542	0.6	31	167	0.9	167	0
NEBRASKA	33	37,696	0.5	37	83	0.5	68	15
WEST VIRGINIA	34	35,307	0.5	29	184	1.0	167	17
OKLAHOMA	35	31,251	0.4	32	149	0.8	138	11
ARIZONA	36	27,063	0.4	28	186	1.1	184	2
MISSISSIPPI	37	26,581	0.4	21	300	1.7	128	172
DELAWARE	38	16,716	0.2	42	66	0.4	59	7
NEVADA	39	11,913	0.2	41	71	0.4	71	0
NEW HAMPSHIRE	40	8,141	0.1	25	242	1.4	141	101
RHODE ISLAND	41	6,659	0.1	36	110	0.6	95	15
MONTANA	42	5,853	0.1	45	42	0.2	34	8
IDAHO	43	5,675	0.1	46	40	0.2	22	18
NEW MEXICO	44	5,611	0.1	47	39	0.2	36	3
MAINE	45	3,912	0.1	39	81	0.5	75	6
ALASKA	46	3,178	0.0	43	51	0.3	30	21
VERMONT	47	2,922	0.0	43	51	0.3	49	2
VIRGIN ISLANDS	48	1,852	0.0	55	1	0.0	1	0
WYOMING	49	1,650	0.0	53	17	0.1	10	7
NORTH DAKOTA	50	1,614	0.0	52	18	0.1	13	5
SOUTH DAKOTA	51	1,472	0.0	50	20	0.1	19	1
HAWAII	52	1,146	0.0	48	34	0.2	24	10
DISTRICT OF COLUMBIA	53	1,124	0.0	49	21	0.1	21	0
GUAM	54	162	0.0	50	20	0.1	11	9
TRUST TERRITORIES	55	74	0.0	55	1	0.0	1	0
NAVAJO NATION	56	6	0.0	54	2	0.0	2	0
Total		**7,333,284**	**100.0**		**17,585**	**100.0**	**15,502**	**2,083**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.3 Rank Ordering of States Based on Number of Hazardous Waste Shippers and Quantity of RCRA Hazardous Waste Shipped, 2003

State	Number of Shippers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Shipped	Percentage	LQG	Non-LQG
CALIFORNIA	1	2,519	14.3	7	353,829	4.8	2,276	243
NEW YORK	2	1,304	7.4	10	229,047	3.1	994	310
OHIO	3	1,038	5.9	3	649,485	8.9	906	132
ILLINOIS	4	911	5.2	9	311,578	4.2	759	152
PENNSYLVANIA	5	892	5.1	8	327,641	4.5	795	97
TEXAS	6	747	4.2	2	767,522	10.5	745	2
MICHIGAN	7	674	3.8	1	776,020	10.6	560	114
NEW JERSEY	8	620	3.5	5	493,974	6.7	592	28
INDIANA	9	586	3.3	6	446,713	6.1	469	117
MASSACHUSETTS	10	530	3.0	19	97,491	1.3	502	28
WISCONSIN	11	512	2.9	14	169,179	2.3	512	0
NORTH CAROLINA	12	439	2.5	18	98,957	1.3	412	27
WASHINGTON	13	425	2.4	24	67,592	0.9	425	0
ARKANSAS	14	378	2.1	11	222,151	3.0	157	221
LOUISIANA	15	346	2.0	13	181,371	2.5	340	6
TENNESSEE	16	345	2.0	4	566,105	7.7	345	0
CONNECTICUT	17	336	1.9	28	54,113	0.7	327	9
FLORIDA	17	336	1.9	30	48,632	0.7	315	21
GEORGIA	19	309	1.8	20	85,833	1.2	294	15
KENTUCKY	20	305	1.7	16	143,180	2.0	288	17
MISSISSIPPI	21	300	1.7	37	26,581	0.4	128	172
SOUTH CAROLINA	22	288	1.6	12	182,896	2.5	268	20
VIRGINIA	23	280	1.6	22	78,595	1.1	258	22
MISSOURI	24	276	1.6	21	79,243	1.1	264	12
NEW HAMPSHIRE	25	242	1.4	40	8,141	0.1	141	101
ALABAMA	26	234	1.3	15	165,404	2.3	234	0
MINNESOTA	26	234	1.3	29	52,761	0.7	225	9
ARIZONA	28	186	1.1	36	27,063	0.4	184	2
WEST VIRGINIA	29	184	1.0	34	35,307	0.5	167	17
KANSAS	30	177	1.0	17	103,899	1.4	168	9
OREGON	31	167	0.9	32	42,542	0.6	167	0
OKLAHOMA	32	149	0.8	35	31,251	0.4	138	11
IOWA	33	146	0.8	31	47,148	0.6	128	18
MARYLAND	34	132	0.8	26	56,936	0.8	131	1
COLORADO	35	114	0.6	23	72,693	1.0	104	10
RHODE ISLAND	36	110	0.6	41	6,659	0.1	95	15
NEBRASKA	37	83	0.5	33	37,696	0.5	68	15
PUERTO RICO	38	82	0.5	25	66,908	0.9	70	12
MAINE	39	81	0.5	45	3,912	0.1	75	6
UTAH	40	74	0.4	27	56,264	0.8	73	1
NEVADA	41	71	0.4	39	11,913	0.2	71	0
DELAWARE	42	66	0.4	38	16,716	0.2	59	7
ALASKA	43	51	0.3	46	3,178	0.0	30	21
VERMONT	43	51	0.3	47	2,922	0.0	49	2
MONTANA	45	42	0.2	42	5,853	0.1	34	8
IDAHO	46	40	0.2	43	5,675	0.1	22	18
NEW MEXICO	47	39	0.2	44	5,611	0.1	36	3
HAWAII	48	34	0.2	52	1,146	0.0	24	10
DISTRICT OF COLUMBIA	49	21	0.1	53	1,124	0.0	21	0
GUAM	50	20	0.1	54	162	0.0	11	9
SOUTH DAKOTA	50	20	0.1	51	1,472	0.0	19	1
NORTH DAKOTA	52	18	0.1	50	1,614	0.0	13	5
WYOMING	53	17	0.1	49	1,650	0.0	10	7
NAVAJO NATION	54	2	0.0	56	6	0.0	2	0
TRUST TERRITORIES	55	1	0.0	55	74	0.0	1	0
VIRGIN ISLANDS	55	1	0.0	48	1,852	0.0	1	0
Total		**17,585**	**100.0**		**7,333,284**	**100.0**	**15,502**	**2,083**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.4 Fifty Largest RCRA Hazardous Waste Shippers in the U.S.,2003

Rank	EPA ID	Name	City	Tons Shipped
1	MID982608143	MI DEPT/MILITARY & VETERANS AFFAIRS	OAK PARK, MI	404,606
2	TND003376928	EASTMAN CHEMICAL COMPANY, TENNESSEE OPE	KINGSPORT, TN	144,687
3	TND982139115	UNISYS EARHART SITE, BRISTOL TN	BRISTOL, TN	119,986
4	OHD005048947	SYSTECH ENVIRONMENTAL CORPORATION	PAULDING, OH	104,541
5	IND093219012	HERITAGE ENVIRONMENTAL SERVICES LLC	INDIANAPOLIS, IN	102,306
6	ARD981057870	RINECO	BENTON, AR	86,825
7	KSD980633259	SYSTECH ENVIRONMENTAL CORP	FREDONIA, KS	81,013
8	NJR000023044	FORMER PENETONE CORPORATION	TENAFLY, NJ	75,616
9	NJD982533309	RIMTEC CORPORATION	BURLINGTON, NJ	66,129
10	IND000646943	POLLUTION CONTROL INDUSTRIES INC	EAST CHICAGO, IN	64,504
11	MID980615298	PETRO CHEM	DETROIT, MI	61,611
12	TXD058265067	LYONDELL CHEMICAL COMPANY	PASADENA, TX	58,175
13	TXD058275769	EQUISTAR CHEMICALS LP	CHANNELVIEW, TX	57,732
14	INR000001099	STEEL DYNAMICS INC	BUTLER, IN	56,322
15	NJD980504997	BURNT FLY BOG SUPERFUND SITE	MARLBORO, NJ	55,753
16	SCR000002006	NUCOR STEEL BERKELEY COUNTY	HUGER, SC	49,770
17	ILD980613913	SAFETY KLEEN SYSTEMS INC	DOLTON, IL	47,798
18	SCD036275626	SOUTHEASTERN CHEMICALS & SOLVENTS CO	SUMTER, SC	47,339
19	MID000820381	PHARMACIA & UPJOHN COMPANY	KALAMAZOO, MI	45,373
20	TND095050019	YALE SECURITY INC.	LENOIR CITY, TN	44,254
21	OHD093945293	ONYX ENVIRONMENTAL SERVICES, L.L.C.	WEST CARROLLTON, OH	42,578
22	ARD983278243	NUCOR STEEL - ARKANSAS	BLYTHEVILLE, AR	42,477
23	MID006013643	PFIZER INC PARKE-DAVIS & CO	HOLLAND, MI	42,385
24	ARD981908890	NUCOR-YAMATO STEEL COMPANY	ARMOREL, AR	40,978
25	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	39,577
26	TXD000838896	ONYX ENVIRONMENTAL SERVICES LLC	PORT ARTHUR, TX	39,440
27	NJD045995693	CASIE ECOLOGY OIL SALVAGE INC	VINELAND, NJ	38,894
28	TXD008079212	E I DU PONT DE NEMOURS AND COMPANY	LA PORTE, TX	38,006
29	CAR000032326	NATIONAL CALIFORNIA ENVELOPE WEST	CHINO, CA	37,155
30	NJD002362705	NASCOLITE CORPORATION	MILLVILLE, NJ	35,998
31	TND053983862	ALLTRISTA ZINC PRODUCTS L.P.	GREENEVILLE, TN	35,924
32	TN0000590612	EXIDE TECHNOLOGIES	BRISTOL, TN	34,937
33	KYD053348108	SAFETY-KLEEN SYSTEMS, INC.	SMITHFIELD, KY	34,423
34	PAD002395887	HORSEHEAD CORP	PALMERTON, PA	33,105
35	MDD980555189	CLEAN HARBORS BALTIMORE	BALTIMORE, MD	32,966
36	OHD048415665	ROSS INCINERATION SERVICES, INC.	GRAFTON, OH	31,041
37	WID000808568	W M W I - OMEGA HILLS LF	GERMANTOWN, WI	28,789
38	MID060975844	EQ RESOURCE RECOVERY INC	ROMULUS, MI	28,419
39	OHR000002279	NORTH STAR BHP STEEL LLC	DELTA, OH	27,189
40	TXD008076846	HUNTSMAN PETROCHEMICAL CORPORATION	PORT NECHES, TX	27,087
41	NYD980536288	DUPONT NECCO PARK	NIAGARA FALLS, NY	26,953
42	NJ0001900281	FEDERAL CREOSOTE SUPERFUND SITE	MANVILLE, NJ	26,735
43	KYD985115237	GALLATIN STEEL	WARSAW, KY	25,900
44	LAD040776809	BASF CORPORATION	GEISMAR, LA	25,678
45	CO7890010526	ROCKY FLATS ENV TECH SITE-US DOE	GOLDEN, CO	25,477
46	CAD008302903	ONYX ENVIRONMENTAL SERVICES, L. L. C.	AZUSA, CA	25,395
47	OHD060409521	WCI STEEL INC	WARREN, OH	24,501
48	NJD002454544	MARISOL INCORPORATED	MIDDLESEX, NJ	24,099
49	TXD008080533	BP PRODUCTS NORTH AMERICA INC	TEXAS CITY, TX	23,778
50	IND181157009	NUCOR STEEL	CRAWFORDSVILLE, IN	23,745
Total				**2,737,970**

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.5 Quantity of RCRA Hazardous Waste Received and Number of Receivers, by State, 2003

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
ALABAMA	16	136,264	1.9	22	9	1.6	7	2
ALASKA	49	15	0.0	41	3	0.5	2	1
ARIZONA	31	35,143	0.5	21	10	1.8	8	2
ARKANSAS	10	268,821	3.7	36	5	0.9	4	1
CALIFORNIA	8	385,231	5.3	2	49	8.6	48	1
COLORADO	34	21,287	0.3	22	9	1.6	8	1
CONNECTICUT	33	31,279	0.4	29	7	1.2	6	1
DELAWARE	40	2,711	0.0	46	1	0.2	1	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
FLORIDA	36	16,619	0.2	9	17	3.0	16	1
GEORGIA	37	13,632	0.2	15	13	2.3	11	2
GUAM	48	66	0.0	46	1	0.2	1	0
HAWAII	45	452	0.0	46	1	0.2	1	0
IDAHO	17	127,886	1.8	44	2	0.4	2	0
ILLINOIS	4	467,375	6.5	5	23	4.0	19	4
INDIANA	3	492,961	6.8	9	17	3.0	16	1
IOWA	43	705	0.0	36	5	0.9	5	0
KANSAS	18	115,180	1.6	26	8	1.4	6	2
KENTUCKY	24	57,955	0.8	22	9	1.6	8	1
LOUISIANA	15	193,762	2.7	7	19	3.3	12	7
MAINE	44	568	0.0	41	3	0.5	3	0
MARYLAND	25	54,949	0.8	26	8	1.4	5	3
MASSACHUSETTS	28	46,362	0.6	19	11	1.9	9	2
MICHIGAN	5	462,015	6.4	9	17	3.0	15	2
MINNESOTA	14	195,983	2.7	15	13	2.3	13	0
MISSISSIPPI	22	63,191	0.9	29	7	1.2	2	5
MISSOURI	11	229,376	3.2	6	21	3.7	16	5
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEBRASKA	32	34,120	0.5	33	6	1.1	5	1
NEVADA	29	45,221	0.6	39	4	0.7	4	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
NEW JERSEY	9	310,057	4.3	15	13	2.3	11	2
NEW MEXICO	41	1,629	0.0	33	6	1.1	6	0
NEW YORK	7	417,779	5.8	4	26	4.6	20	6
NORTH CAROLINA	35	20,110	0.3	9	17	3.0	16	1
NORTH DAKOTA	46	369	0.0	41	3	0.5	3	0
OHIO	1	847,240	11.7	7	19	3.3	19	0
OKLAHOMA	27	47,913	0.7	18	12	2.1	9	3
OREGON	21	67,031	0.9	44	2	0.4	2	0
PENNSYLVANIA	6	443,807	6.1	3	27	4.7	25	2
PUERTO RICO	23	61,592	0.9	39	4	0.7	3	1
RHODE ISLAND	38	6,496	0.1	33	6	1.1	2	4
SOUTH CAROLINA	13	209,390	2.9	29	7	1.2	7	0
SOUTH DAKOTA	47	159	0.0	46	1	0.2	1	0
TENNESSEE	26	54,490	0.8	26	8	1.4	7	1
TEXAS	2	803,460	11.1	1	58	10.2	58	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
UTAH	12	222,401	3.1	22	9	1.6	8	1
VERMONT	42	984	0.0	29	7	1.2	5	2
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
VIRGINIA	20	74,902	1.0	19	11	1.9	9	2
WASHINGTON	30	37,860	0.5	14	14	2.5	13	1
WEST VIRGINIA	39	5,561	0.1	36	5	0.9	5	0
WISCONSIN	19	99,813	1.4	13	16	2.8	13	3
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		**7,232,170**	**100.0**		**569**	**100.0**	**495**	**74**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.6 Rank Ordering of States Based on Quantity of RCRA Hazardous Waste Received and Number of Receivers, 2003

State	Hazardous Waste Quantity			Number of Receivers			Reported Status	
	Rank	Tons Received	Percentage	Rank	Number	Percentage	TSDF	Non-TSDF
OHIO	1	847,240	11.7	7	19	3.3	19	0
TEXAS	2	803,460	11.1	1	58	10.2	58	0
INDIANA	3	492,961	6.8	9	17	3.0	16	1
ILLINOIS	4	467,375	6.5	5	23	4.0	19	4
MICHIGAN	5	462,015	6.4	9	17	3.0	15	2
PENNSYLVANIA	6	443,807	6.1	3	27	4.7	25	2
NEW YORK	7	417,779	5.8	4	26	4.6	20	6
CALIFORNIA	8	385,231	5.3	2	49	8.6	48	1
NEW JERSEY	9	310,057	4.3	15	13	2.3	11	2
ARKANSAS	10	268,821	3.7	36	5	0.9	4	1
MISSOURI	11	229,376	3.2	6	21	3.7	16	5
UTAH	12	222,401	3.1	22	9	1.6	8	1
SOUTH CAROLINA	13	209,390	2.9	29	7	1.2	7	0
MINNESOTA	14	195,983	2.7	15	13	2.3	13	0
LOUISIANA	15	193,762	2.7	7	19	3.3	12	7
ALABAMA	16	136,264	1.9	22	9	1.6	7	2
IDAHO	17	127,886	1.8	44	2	0.4	2	0
KANSAS	18	115,180	1.6	26	8	1.4	6	2
WISCONSIN	19	99,813	1.4	13	16	2.8	13	3
VIRGINIA	20	74,902	1.0	19	11	1.9	9	2
OREGON	21	67,031	0.9	44	2	0.4	2	0
MISSISSIPPI	22	63,191	0.9	29	7	1.2	2	5
PUERTO RICO	23	61,592	0.9	39	4	0.7	3	1
KENTUCKY	24	57,955	0.8	22	9	1.6	8	1
MARYLAND	25	54,949	0.8	26	8	1.4	5	3
TENNESSEE	26	54,490	0.8	26	8	1.4	7	1
OKLAHOMA	27	47,913	0.7	18	12	2.1	9	3
MASSACHUSETTS	28	46,362	0.6	19	11	1.9	9	2
NEVADA	29	45,221	0.6	39	4	0.7	4	0
WASHINGTON	30	37,860	0.5	14	14	2.5	13	1
ARIZONA	31	35,143	0.5	21	10	1.8	8	2
NEBRASKA	32	34,120	0.5	33	6	1.1	5	1
CONNECTICUT	33	31,279	0.4	29	7	1.2	6	1
COLORADO	34	21,287	0.3	22	9	1.6	8	1
NORTH CAROLINA	35	20,110	0.3	9	17	3.0	16	1
FLORIDA	36	16,619	0.2	9	17	3.0	16	1
GEORGIA	37	13,632	0.2	15	13	2.3	11	2
RHODE ISLAND	38	6,496	0.1	33	6	1.1	2	4
WEST VIRGINIA	39	5,561	0.1	36	5	0.9	5	0
DELAWARE	40	2,711	0.0	46	1	0.2	1	0
NEW MEXICO	41	1,629	0.0	33	6	1.1	6	0
VERMONT	42	984	0.0	29	7	1.2	5	2
IOWA	43	705	0.0	36	5	0.9	5	0
MAINE	44	568	0.0	41	3	0.5	3	0
HAWAII	45	452	0.0	46	1	0.2	1	0
NORTH DAKOTA	46	369	0.0	41	3	0.5	3	0
SOUTH DAKOTA	47	159	0.0	46	1	0.2	1	0
GUAM	48	66	0.0	46	1	0.2	1	0
ALASKA	49	15	0.0	41	3	0.5	2	1
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		**7,232,170**	**100.0**		**569**	**100.0**	**495**	**74**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.7 Rank Ordering of States Based on Number of Receiving Facilities and Quantity of RCRA Hazardous Waste Received, 2003

State	Number of Receivers			Hazardous Waste Quantity			Reported Status	
	Rank	Number	Percentage	Rank	Tons Received	Percentage	TSDF	Non-TSDF
TEXAS	1	58	10.2	2	803,460	11.1	58	0
CALIFORNIA	2	49	8.6	8	385,231	5.3	48	1
PENNSYLVANIA	3	27	4.7	6	443,807	6.1	25	2
NEW YORK	4	26	4.6	7	417,779	5.8	20	6
ILLINOIS	5	23	4.0	4	467,375	6.5	19	4
MISSOURI	6	21	3.7	11	229,376	3.2	16	5
LOUISIANA	7	19	3.3	15	193,762	2.7	12	7
OHIO	7	19	3.3	1	847,240	11.7	19	0
FLORIDA	9	17	3.0	36	16,619	0.2	16	1
INDIANA	9	17	3.0	3	492,961	6.8	16	1
MICHIGAN	9	17	3.0	5	462,015	6.4	15	2
NORTH CAROLINA	9	17	3.0	35	20,110	0.3	16	1
WISCONSIN	13	16	2.8	19	99,813	1.4	13	3
WASHINGTON	14	14	2.5	30	37,860	0.5	13	1
GEORGIA	15	13	2.3	37	13,632	0.2	11	2
MINNESOTA	15	13	2.3	14	195,983	2.7	13	0
NEW JERSEY	15	13	2.3	9	310,057	4.3	11	2
OKLAHOMA	18	12	2.1	27	47,913	0.7	9	3
MASSACHUSETTS	19	11	1.9	28	46,362	0.6	9	2
VIRGINIA	19	11	1.9	20	74,902	1.0	9	2
ARIZONA	21	10	1.8	31	35,143	0.5	8	2
ALABAMA	22	9	1.6	16	136,264	1.9	7	2
COLORADO	22	9	1.6	34	21,287	0.3	8	1
KENTUCKY	22	9	1.6	24	57,955	0.8	8	1
UTAH	22	9	1.6	12	222,401	3.1	8	1
KANSAS	26	8	1.4	18	115,180	1.6	6	2
MARYLAND	26	8	1.4	25	54,949	0.8	5	3
TENNESSEE	26	8	1.4	26	54,490	0.8	7	1
CONNECTICUT	29	7	1.2	33	31,279	0.4	6	1
MISSISSIPPI	29	7	1.2	22	63,191	0.9	2	5
SOUTH CAROLINA	29	7	1.2	13	209,390	2.9	7	0
VERMONT	29	7	1.2	42	984	0.0	5	2
NEBRASKA	33	6	1.1	32	34,120	0.5	5	1
NEW MEXICO	33	6	1.1	41	1,629	0.0	6	0
RHODE ISLAND	33	6	1.1	38	6,496	0.1	2	4
ARKANSAS	36	5	0.9	10	268,821	3.7	4	1
IOWA	36	5	0.9	43	705	0.0	5	0
WEST VIRGINIA	36	5	0.9	39	5,561	0.1	5	0
NEVADA	39	4	0.7	29	45,221	0.6	4	0
PUERTO RICO	39	4	0.7	23	61,592	0.9	3	1
ALASKA	41	3	0.5	49	15	0.0	2	1
MAINE	41	3	0.5	44	568	0.0	3	0
NORTH DAKOTA	41	3	0.5	46	369	0.0	3	0
IDAHO	44	2	0.4	17	127,886	1.8	2	0
OREGON	44	2	0.4	21	67,031	0.9	2	0
DELAWARE	46	1	0.2	40	2,711	0.0	1	0
GUAM	46	1	0.2	48	66	0.0	1	0
HAWAII	46	1	0.2	45	452	0.0	1	0
SOUTH DAKOTA	46	1	0.2	47	159	0.0	1	0
DISTRICT OF COLUMBIA	50	0	0.0	50	0	0.0	0	0
MONTANA	50	0	0.0	50	0	0.0	0	0
NAVAJO NATION	50	0	0.0	50	0	0.0	0	0
NEW HAMPSHIRE	50	0	0.0	50	0	0.0	0	0
TRUST TERRITORIES	50	0	0.0	50	0	0.0	0	0
VIRGIN ISLANDS	50	0	0.0	50	0	0.0	0	0
WYOMING	50	0	0.0	50	0	0.0	0	0
Total		**569**	**100.0**		**7,232,170**	**100.0**	**495**	**74**

Note: Columns may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.8 Fifty Largest RCRA Hazardous Waste Receivers in the U.S., 2003

Rank	EPA ID	Name	City	Tons Received
1	TXD007349327	TXI OPERATIONS LP	MIDLOTHIAN, TX	368,260
2	OHD045243706	ENVIROSAFE SERVICES OF OHIO INC	OREGON, OH	208,125
3	ILD040891368	HORSEHEAD CORP	CHICAGO, IL	179,300
4	MID000724831	MICHIGAN DISPOSAL WASTE TREATMENT PLANT	BELLEVILLE, MI	173,597
5	PAD002395887	HORSEHEAD CORP	PALMERTON, PA	170,671
6	NYD030485288	REVERE SMELTING & REFINING CORPORATION	MIDDLETOWN, NY	160,821
7	MND006148092	GOPHER RESOURCE CORPORATION	EAGAN, MN	156,689
8	IDD073114654	US ECOLOGY IDAHO INC SITE B	GRAND VIEW, ID	127,727
9	IND093219012	HERITAGE ENVIRONMENTAL SERVICES LLC	INDIANAPOLIS, IN	121,970
10	SCD003351699	GIANT CEMENT COMPANY	HARLEYVILLE, SC	121,042
11	OHD020273819	VICKERY ENVIRONMENTAL, INC.	VICKERY, OH	111,349
12	CAD066233966	QUEMETCO, INC.	CITY OF INDUSTRY, CA	108,873
13	OHD987048733	LAFARGE NORTH AMERICA	PAULDING, OH	104,500
14	NYD049836679	CWM CHEMICAL SERVICES, LLC	MODEL CITY, NY	103,867
15	LAD000777201	CHEMICAL WASTE MANAGEMENT	SULPHUR, LA	103,621
16	UTD981552177	CLEAN HARBORS ARAGONITE LLC	ARAGONITE, UT	101,145
17	NJD002385730	DUPONT CHAMBERS WORKS	DEEPWATER, NJ	97,661
18	OHD005048947	SYSTECH ENVIRONMENTAL CORPORATION	PAULDING, OH	93,436
19	UTD991301748	CLEAN HARBORS GRASSY MOUNTAIN, LLC.	GRASSY MOUNTAIN, UT	93,248
20	IND980503890	HERITAGE ENVIRONMENTAL SERVICES LLC	ROACHDALE, IN	92,310
21	MOD054018288	CONTINENTAL CEMENT CO LLC	HANNIBAL, MO	88,042
22	IND006419212	LONE STAR GREENCASTLE WDF	GREENCASTLE, IN	86,730
23	ILD000805812	PEORIA DISPOSAL CO INC	PEORIA, IL	85,592
24	NYD980592497	EASTMAN KODAK	ROCHESTER, NY	80,036
25	ARD981057870	RINECO	BENTON, AR	79,439
26	MID980991566	EQ DETROIT, INC	DETROIT, MI	79,126
27	IND005081542	ESSROC CEMENT CORP	LOGANSPORT, IN	76,717
28	OHD980568992	ENVIRITE OF OHIO INC.	CANTON, OH	75,364
29	MOD029729688	HOLCIM (US) INC - ENERGIS LLC	CLARKSVILLE, MO	74,370
30	MID048090633	WAYNE DISPOSAL INC	BELLEVILLE, MI	74,201
31	TXD055141378	CLEAN HARBORS DEER PARK LP	LA PORTE, TX	73,833
32	MID980615298	PETRO CHEM	DETROIT, MI	73,744
33	ARD981512270	ASH GROVE CEMENT CO	FOREMAN, AR	70,471
34	TXD000719518	TM DEER PARK SERVICES LIMITED PARTNERSHI	DEER PARK, TX	70,432
35	ARD006354161	REYNOLDS METALS COMPANY	ARKADELPHIA, AR	70,368
36	KSD980633259	SYSTECH ENVIRONMENTAL CORP	FREDONIA, KS	68,053
37	ORD089452353	CHEMICAL WASTE MANAGEMENT OF THE NW	ARLINGTON, OR	65,556
38	NJD045995693	CASIE ECOLOGY OIL SALVAGE INC	VINELAND, NJ	63,416
39	MSD077655876	HOLCIM (US) INC.	ARTESIA, MS	62,288
40	PAD002389559	KEYSTONE CEMENT CO	BATH, PA	62,059
41	OHD048415665	ROSS INCINERATION SERVICES, INC.	GRAFTON, OH	60,702
42	PAD004835146	MAX ENVIRONMENTAL YUKON FACILITY	YUKON, PA	57,104
43	NJD991291105	CLEAN EARTH OF NORTH JERSEY, INC.	SOUTH KEARNY, NJ	55,080
44	ILD000666206	ENVIRITE OF ILLINOIS INC	HARVEY, IL	54,926
45	MDD980555189	CLEAN HARBORS BALTIMORE	BALTIMORE, MD	53,752
46	ALD000622464	CHEMICAL WASTE MANAGEMENT	EMELLE, AL	53,328
47	PAD010154045	ENVIRITE OF PENNSYLVANIA INC	YORK, PA	51,394
48	IND000646943	POLLUTION CONTROL INDUSTRIES INC	EAST CHICAGO, IN	51,251
49	MOD981127319	LONE STAR INDUSTRIES INC	CAPE GIRARDEAU, MO	51,194
50	ALD070513767	M & M CHEMICAL AND EQUIPMENT CO INC	ATTALLA, AL	47,990
Total				**4,814,772**

Note: Column may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 3.9 Quantity of RCRA Hazardous Waste Managed, by Management Method, Limited to Waste Received from Off-Site, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
AQUEOUS INORGANIC TREATMENT	255,847	3.5	49	8.6
AQUEOUS ORGANIC TREATMENT	51,099	0.7	25	4.4
DEEPWELL OR UNDERGROUND INJECTION	295,616	4.1	12	2.1
ENERGY RECOVERY	1,013,735	14.0	51	9.0
FUEL BLENDING	755,638	10.4	98	17.2
INCINERATION	615,534	8.5	89	15.6
LAND TREATMENT/APPLICATION/FARMING	1,317	0.0	6	1.1
LANDFILL/SURFACE IMPOUNDMENT	1,120,985	15.5	40	7.0
METALS RECOVERY	950,113	13.1	106	18.6
OTHER DISPOSAL	170,330	2.4	25	4.4
OTHER RECOVERY	496,166	6.9	40	7.0
OTHER TREATMENT	291,911	4.0	115	20.2
SLUDGE TREATMENT	1,630	0.0	15	2.6
SOLVENTS RECOVERY	190,275	2.6	47	8.3
STABILIZATION	541,160	7.5	52	9.1
STORAGE AND/OR TRANSFER	480,816	6.6	373	65.6
Total	**7,232,170**	**100.0**	**569**	

Exhibit 3.10 Management Method, by Quantity of RCRA Hazardous Waste Managed, Limited to Waste Received from Off-Site, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
LANDFILL/SURFACE IMPOUNDMENT	1,120,985	15.5	40	7.0
ENERGY RECOVERY	1,013,735	14.0	51	9.0
METALS RECOVERY	950,113	13.1	106	18.6
FUEL BLENDING	755,638	10.4	98	17.2
INCINERATION	615,534	8.5	89	15.6
STABILIZATION	541,160	7.5	52	9.1
OTHER RECOVERY	496,166	6.9	40	7.0
STORAGE AND/OR TRANSFER	480,816	6.6	373	65.6
DEEPWELL OR UNDERGROUND INJECTION	295,616	4.1	12	2.1
OTHER TREATMENT	291,911	4.0	115	20.2
AQUEOUS INORGANIC TREATMENT	255,847	3.5	49	8.6
SOLVENTS RECOVERY	190,275	2.6	47	8.3
OTHER DISPOSAL	170,330	2.4	25	4.4
AQUEOUS ORGANIC TREATMENT	51,099	0.7	25	4.4
SLUDGE TREATMENT	1,630	0.0	15	2.6
LAND TREATMENT/APPLICATION/FARMING	1,317	0.0	6	1.1
Total	**7,232,170**	**100.0**	**569**	

Exhibit 3.11 Management Method and Quantity of RCRA Hazardous Waste Managed, by Number of Facilities, Limited to Waste Received from Off-Site, 2003

Management Method	Tons Managed	Percentage of Quantity	Number of Facilities [1]	Percentage of Facilities [1]
STORAGE AND/OR TRANSFER	480,816	6.6	373	65.6
OTHER TREATMENT	291,911	4.0	115	20.2
METALS RECOVERY	950,113	13.1	106	18.6
FUEL BLENDING	755,638	10.4	98	17.2
INCINERATION	615,534	8.5	89	15.6
STABILIZATION	541,160	7.5	52	9.1
ENERGY RECOVERY	1,013,735	14.0	51	9.0
AQUEOUS INORGANIC TREATMENT	255,847	3.5	49	8.6
SOLVENTS RECOVERY	190,275	2.6	47	8.3
LANDFILL/SURFACE IMPOUNDMENT	1,120,985	15.5	40	7.0
OTHER RECOVERY	496,166	6.9	40	7.0
AQUEOUS ORGANIC TREATMENT	51,099	0.7	25	4.4
OTHER DISPOSAL	170,330	2.4	25	4.4
SLUDGE TREATMENT	1,630	0.0	15	2.6
DEEPWELL OR UNDERGROUND INJECTION	295,616	4.1	12	2.1
LAND TREATMENT/APPLICATION/FARMING	1,317	0.0	6	1.1
Total	**7,232,170**	**100.0**	**569**	

[1] Column may not sum because facilities may have multiple handling methods.

Note: Columns for these exhibits may not sum due to rounding.

Reporting requirement changes for the 2003 National Biennial Report will make cursory comparisons of the 2003 National Biennial Report to National Biennial Reports developed prior to 2001 misleading. Refer to the Introduction for a complete explanation.

Exhibit 4.1 RCRA Hazardous Waste Interstate Shipments and Receipts, by State, 2003

STATE	Interstate Shipments (Tons)	Interstate Receipts (Tons)
ALABAMA	129,165	98,994
ALASKA	3,155	0
ARIZONA	19,828	16,535
ARKANSAS	173,008	184,327
CALIFORNIA	130,060	37,951
COLORADO	55,274	2,933
CONNECTICUT	46,045	16,768
DELAWARE	16,614	2,588
DISTRICT OF COLUMBIA	1,124	0
FLORIDA	44,506	4,989
GEORGIA	84,031	8,837
GUAM	93	0
HAWAII	974	0
IDAHO	5,035	127,126
ILLINOIS	184,235	346,688
INDIANA	223,418	252,637
IOWA	47,015	146
KANSAS	17,696	106,915
KENTUCKY	138,837	40,090
LOUISIANA	120,903	131,987
MAINE	3,890	168
MARYLAND	54,555	49,491
MASSACHUSETTS	79,241	15,464
MICHIGAN	188,443	297,076
MINNESOTA	39,474	162,049
MISSISSIPPI	19,373	62,440
MISSOURI	60,032	200,426
MONTANA	5,853	0
NAVAJO NATION	6	0
NEBRASKA	35,153	31,916
NEVADA	6,297	39,472
NEW HAMPSHIRE	8,126	0
NEW JERSEY	400,885	169,033
NEW MEXICO	5,414	1,230
NEW YORK	96,147	87,303
NORTH CAROLINA	90,785	11,396
NORTH DAKOTA	1,589	152
OHIO	271,193	499,573
OKLAHOMA	22,987	38,079
OREGON	39,108	34,276
PENNSYLVANIA	177,394	286,186
PUERTO RICO	47,783	57
RHODE ISLAND	5,748	4,393
SOUTH CAROLINA	122,656	146,997
SOUTH DAKOTA	1,472	60
TENNESSEE	542,806	47,569
TEXAS	290,503	139,009
TRUST TERRITORIES	74	0
UTAH	24,388	146,413
VERMONT	2,820	520
VIRGIN ISLANDS	1,852	0
VIRGINIA	54,014	22,800
WASHINGTON	36,136	18,610
WEST VIRGINIA	34,768	5,381
WISCONSIN	82,680	62,291
WYOMING	1,650	0
TOTAL	**4,296,313**	**3,959,339**

Note: Columns may not sum due to rounding.

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APPENDIX A

EPA REGION - STATE MAPPING

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EPA REGION - STATE MAPPING

EPA REGION	STATES IN REGION
REGION 1	Connecticut Maine Massachusetts New Hampshire Rhode Island Vermont
REGION 2	New Jersey New York Puerto Rico Virgin Islands
REGION 3	Delaware District of Columbia Maryland Pennsylvania Virginia West Virginia
REGION 4	Alabama Florida Georgia Kentucky Mississippi North Carolina South Carolina Tennessee
REGION 5	Illinois Indiana Michigan Minnesota Ohio Wisconsin
REGION 6	Arkansas Louisiana New Mexico Oklahoma Texas
REGION 7	Iowa Kansas Missouri Nebraska
REGION 8	Colorado Montana North Dakota South Dakota Utah Wyoming
REGION 9	Arizona California Guam Hawaii Navajo Nation Nevada Trust Territories
REGION 10	Alaska Idaho Oregon Washington

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APPENDIX B

2003 EPA MANAGEMENT METHOD CODES

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EPA MANAGEMENT METHOD CODES

Code	Management Method Description
	RECLAMATION AND RECOVERY
H010	Metals recovery including retorting, smelting, chemical, etc.
H020	Solvents recovery (distillation, extraction, etc.)
H039	Other recovery or reclamation for reuse including acid regeneration, organics recovery, etc. (specify in comments)
H050	Energy recovery at this site - used as fuel (includes on-site fuel blending before energy recovery)
H061	Fuel blending prior to energy recovery at another site (waste generated either onsite or received from offsite)
	DESTRUCTION OR TREATMENT PRIOR TO DISPOSAL AT ANOTHER SITE
H040	Incineration - thermal destruction other than use as a fuel (includes any preparation prior to burning)
H071	Chemical reduction with or without precipitation (includes any preparation or final processes for consolidation of residuals)
H073	Cyanide destruction with or without precipitation (includes any preparation or final processes for consolidation of residuals)
H075	Chemical oxidation (includes any preparation or final processes for consolidation of residuals)
H076	Wet air oxidation (includes any preparation or final processes for consolidation of residuals)
H077	Other chemical precipitation with or without pre-treatment (includes processes for consolidation of residuals)
H081	Biological treatment with or without precipitation (includes any preparation or final processes for consolidation of residuals)
H082	Adsorption (as the major component of treatment)
H083	Air or steam stripping (as the major component of treatment)
H101	Sludge treatment and/or dewatering (as the major component of treatment; not H071-H075, H077, or H082)
H103	Absorption (as the major component of treatment)
H111	Stabilization or chemical fixation prior to disposal at another site (as the major component of treatment; not H071-H075, H077, or H082)
H112	Macro-encapsulation prior to disposal at another site (as the major component of treatment; not H071-H075, H077, or H082)
H121	Neutralization only (no other treatment)
H122	Evaporation (as the major component of treatment; not reportable as H071-H083)
H123	Settling or clarification (as the major component of treatment; not reportable as H071-H083)
H124	Phase separation (as the major component of treatment; not reportable as H071-H083)
H129	Other treatment (specify in comments; not reportable as H071-H083)
	DISPOSAL
H131	Land treatment or application (to include any prior treatment and/or stabilization)
H132	Landfill or surface impoundment that will be closed as landfill (to include prior treatment and/or stabilization)
H134	Deepwell or underground injection (with or without treatment)

EPA MANAGEMENT METHOD CODES

Code	Management Method Description
H135	Discharge to sewer/POTW or NPDES (with prior storage - with or without treatment)
	TRANSFER OFFSITE
H141	The site receiving this waste stored/bulked and transported the waste with no treatment or recovery (H010-H129), fuel blending (H061), or disposal (H131-H135) at that receiving site.

Exhibits 2.5, 2.6, 2.7, 3.9, 3.10, and 3.11 present managed quantities grouped by management methods. The management method groupings used in these exhibits are defined as follows:

Management Method Groups	Management Method Codes
Aqueous Inorganic Treatment	H071, H073, H075, H076, H077
Aqueous Organic Treatment	H081, H082, H083
Deepwell or Underground Injection	H134
Energy Recovery	H050
Fuel Blending	H061
Incineration	H040
Land Treatment/Application/Farming	H131
Landfill/Surface Impoundment	H132
Metals Recovery	H010
Other Disposal	H135, H139
Other Recovery	H039
Other Treatment	H121, H122, H123, H124, H129
Sludge Treatment	H101, H103
Solvents Recovery	H020
Stabilization	H111, H112
Storage and/or Transfer	H141

APPENDIX C

2003 HAZARDOUS WASTE REPORT FORM CODES

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EPA FORM CODES

Code	Form Code Group

MIXED MEDIA/DEBRIS/DEVICES

Waste that is a mixture of organic and inorganic wastes, liquid and solid wastes, or devices that are not easily categorized

W001	Lab packs from any source **not containing** acute hazardous waste
W002	Contaminated debris: paper, clothing, rags, wood, empty fiber or plastic containers, glass, piping, other solids (usually from construction, demolition, cleaning, or remediation)
W004	Lab packs from any source **containing acute** hazardous waste
W301	Contaminated soil (usually from spill clean up, demolition, or remediation); see also W512
W309	Batteries, battery parts, cores, casings (Lead-acid or other types)
W310	Filters, solid adsorbents, ion exchange resins and spent carbon (usually from production, intermittent processes, or remediation)
W320	Electrical devices (lamps, fluorescent lamps, or thermostats usually containing mercury; CRTs containing lead; etc.)
W512	Sediment or lagoon dragout, drilling or other muds (wet or muddy soils); see also W301
W801	Compressed gases of any type

INORGANIC LIQUIDS

Waste that is primarily inorganic and highly fluid (e.g., aqueous), with low suspended inorganic solids and low organic content

W101	Very dilute aqueous waste containing more than 99% water (land disposal restriction defined wastewater that is not exempt under NPDES or POTW discharge)
W103	Spent concentrated acid (5% or more)
W105	Acidic aqueous wastes less than 5% acid (diluted but pH < 2)
W107	Aqueous waste containing cyanides (generally caustic)
W110	Caustic aqueous waste without cyanides (pH > 12.5)
W113	Other aqueous waste or wastewaters (fluid but not sludge)
W117	Waste liquid mercury (metallic)
W119	Other inorganic liquid (specify in comments)

ORGANIC LIQUIDS

Waste that is primarily organic and is highly fluid, with low inorganic solids content and low-to-moderate water content

W200	Still bottoms in liquid form (fluid but not sludge)
W202	Concentrated halogenated (e.g., chlorinated) solvent
W203	Concentrated non-halogenated (e.g., non-chlorinated) solvent
W204	Concentrated halogenated/ non-halogenated solvent mixture
W205	Oil-water emulsion or mixture (fluid but not sludge)
W206	Waste oil
W209	Paint, ink, lacquer, or varnish (fluid - not dried out or sludge)
W210	Reactive or polymerizable organic liquids and adhesives (fluid but not sludge)
W211	Paint thinner or petroleum distillates
W219	Other organic liquid (specify in comments)

EPA FORM CODES

Code	Form Code Group

INORGANIC SOLIDS

Waste that is primarily inorganic and solid, with low organic content and low-to-moderate water content; not pumpable

W303	Ash (from any type of burning of hazardous waste)
W304	Slags, drosses, and other solid thermal residues
W307	Metal scale, filings and scrap (including metal drums)
W312	Cyanide or metal cyanide bearing solids, salts or chemicals
W316	Metal salts or chemicals not containing cyanides
W319	Other inorganic solids (specify in comments)

ORGANIC SOLIDS

Waste that is primarily organic and solid, with low-to-moderate inorganic content and water content; not pumpable

W401	Pesticide solids (used or discarded - not contaminated soils - W301)
W403	Solid resins, plastics or polymerized organics
W405	Explosives or reactive organic solids
W409	Other organic solids (specify in comments)

INORGANIC SLUDGES

Waste that is primarily inorganic, with moderate-to-high water content and low organic content; mostly pumpable

W501	Lime and/or metal hydroxide sludges and solids with no cyanides (not contaminated muds - W512)
W503	Gypsum sludges from wastewater treatment or air pollution control
W504	Other sludges from wastewater treatment or air pollution control
W505	Metal bearing sludges (including plating sludge) not containing cyanides
W506	Cyanide-bearing sludges (not contaminated soils - W512)
W519	Other inorganic sludges (not contaminated muds - W512; specify in comments)

ORGANIC SLUDGES

Waste that is primarily organic with low-to-moderate inorganic solids content and water content; pumpable

W603	Oily sludge (not contaminated muds - W512)
W604	Paint or ink sludges, still bottoms in sludge form (not contaminated muds - W512)
W606	Resins, tars, polymer or tarry sludge (not contaminated muds - W512)
W609	Other organic sludge (specify in comments)

APPENDIX D

2003 EPA HAZARDOUS WASTE CODES

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EPA HAZARDOUS WASTE CODES

Code	Waste description
CHARACTERISTICS OF HAZARDOUS WASTE *(SEE 40 CFR 261.24)*	
D001	Ignitable waste
D002	Corrosive waste
D003	Reactive waste
D004	Arsenic
D005	Barium
D006	Cadmium
D007	Chromium
D008	Lead
D009	Mercury
D010	Selenium
D011	Silver
D012	Endrin
D013	Lindane
D014	Methoxychlor
D015	Toxaphene
D016	2,4-D
D017	2,4,5-TP Silvex
D018	Benzene
D019	Carbon tetrachloride
D020	Chlordane
D021	Chlorobenzene
D022	Chloroform
D023	o-Cresol
D024	m-Cresol
D025	p-Cresol
D026	Cresol
D027	1,4-Dichlorobenzene
D028	1,2-Dichloroethane
D029	1,1-Dichloroethylene
D030	2,4-Dinitrotoluene
D031	Heptachlor (and its epoxide)
D032	Hexachlorobenzene
D033	Hexachlorobutadiene
D034	Hexachloroethane
D035	Methyl ethyl ketone
D036	Nitrobenzene
D037	Pentachlorophenol
D038	Pyridine
D039	Tetrachloroethylene
D040	Trichlorethylene
D041	2,4,5-Trichlorophenol
D042	2,4,6-Trichlorophenol
D043	Vinyl chloride

EPA HAZARDOUS WASTE CODES

Code	Waste description
HAZARDOUS WASTE FROM NONSPECIFIC SOURCES *(SEE 40 CFR 261.31)*	
F001	The following spent halogenated solvents used in degreasing: tetrachloroethylene, trichlorethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F002	The following spent halogenated solvents: tetrachloroethylene, methylene chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F003	The following spent non-halogenated solvents: xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/ blends containing, before use, only the above spent nonhalogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above nonhalogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F004	The following spent nonhalogenated solvents: cresols, cresylic acid, and nitrobenzene; and the still bottoms from the recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F005	The following spent nonhalogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, or F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.
F006	Wastewater treatment sludges from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.
F007	Spent cyanide plating bath solutions from electroplating operations.
F008	Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.
F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.
F010	Quenching bath residues from oil baths from metal heat treating operations in which cyanides are used in the process.
F011	Spent cyanide solutions from slat bath pot cleaning from metal heat treating operations.
F012	Quenching wastewater treatment sludges from metal heat treating operations in which cyanides are used in the process.

EPA HAZARDOUS WASTE CODES

Code	Waste description
F019	Wastewater treatment sludges from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.
F020	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- or tetrachlorophenol or of intermediates used to produce their pesticide derivatives. (This listing does not include wastes from the production of hexachlorophene from highly purified 2,4,5-trichlorophenol.)
F021	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of pentachlorophenol, or of intermediates used to produce derivatives.
F022	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzenes under alkaline conditions.
F023	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the production or manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tri- and tetrachlorophenols. (This listing does not include wastes from equipment used only for the production or use of hexachlorophene from highly purified 2,4,5-trichlorophenol.)
F024	Process wastes including, but not limited to, distillation residues, heavy ends, tars, and reactor clean-out wastes, from the production of certain chlorinated aliphatic hydrocarbons by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution. (This listing does not include wastewaters, wastewater treatment sludge, spent catalysts, and wastes listed in Sections 261.31. or 261.32.)
F025	Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one, to and including five, with varying amounts and positions of chlorine substitution.
F026	Wastes (except wastewater and spent carbon from hydrogen chloride purification) from the production of materials on equipment previously used for the manufacturing use (as a reactant, chemical intermediate, or component in a formulating process) of tetra-, penta-, or hexachlorobenzene under alkaline conditions.
F027	Discarded unused formulations containing tri-, tetra-, or pentachlorophenol or discarded unused formulations containing compounds derived from these chlorophenols. (This listing does not include formulations containing hexachlorophene synthesized from prepurified 2,4,5-trichlorophenol as the sole component.)
F028	Residues resulting from the incineration or thermal treatment of soil contaminated with EPA hazardous waste nos. F020, F021, F022, F023, F026, and F027.
F032	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that currently use, or have previously used, chlorophenolic formulations [except potentially cross-contaminated wastes that have had the F032 waste code deleted in accordance with Section 261.35 (i.e., the newly promulgated equipment cleaning or replacement standards), and where the generator does not resume or initiate use of chlorophenolic formulations]. (This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.)

EPA HAZARDOUS WASTE CODES

Code	Waste description
F034	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use creosote formulations. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F035	Wastewaters, process residuals, preservative drippage, and spent formulations from wood preserving processes generated at plants that use inorganic preservatives containing arsenic or chromium. This listing does not include K001 bottom sediment sludge from the treatment of wastewater from wood preserving processes that use creosote and/or pentachlorophenol.
F037	Petroleum refinery primary oil/water/solids separation sludge - Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludges include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and stormwater units receiving dry weather flow, sludge generated in stormwater units that do not receive dry weather flow, sludges generated from non-contact once-through cooling waters segregated for treatment from other process or oily cooling waters, sludges generated in aggressive biological treatment units as defined in §261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units) and K051 wastes are not included in this listing. This listing does include residuals generated from processing or recycling oil-bearing hazardous secondary materials excluded under §261.4(a)(12)(i), if those residuals are to be disposed of.
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge - Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludges and floats generated in induced air flotation (IAF) units, tanks and impoundments, and all sludges generated in DAF units. Sludges generated in stormwater units that do not receive dry weather flow, sludges generated in aggressive biological treatment units as defined in Section 261.31(b)(2) (including sludges generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units), and F037, K048, and K051 wastes are exempted from this listing.
F039	Leachate resulting from the treatment, storage, or disposal of wastes classified by more than one waste code under Subpart D, or from a mixture of wastes classified under Subparts C and D of this part. (Leachate resulting from the management of one or more of the following EPA Hazardous Wastes and no other hazardous wastes retains its hazardous waste code(s): F020, F021, F022, F023, F026, F027, and/or F028.)

HAZARDOUS WASTE FROM SPECIFIC SOURCES
(SEE 40 CFR 261.32)

K001	Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.
K002	Wastewater treatment sludge from the production of chrome yellow and orange pigments.
K003	Wastewater treatment sludge from the production of molybdate orange pigments.
K004	Wastewater treatment sludge from the production of zinc yellow pigments.
K005	Wastewater treatment sludge from the production of chrome green pigments.
K006	Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).

EPA HAZARDOUS WASTE CODES

Code	Waste description
K007	Wastewater treatment sludge from the production of iron blue pigments.
K008	Oven residue from the production of chrome oxide green pigments.
K009	Distillation bottoms from the production of acetaldehyde from ethylene.
K010	Distillation side cuts from the production of acetaldehyde from ethylene.
K011	Bottom stream from the wastewater stripper in the production of acrylonitrile.
K013	Bottom stream from the acetonitrile column in the production of acrylonitrile.
K014	Bottoms from the acetonitrile purification column in the production of acrylonitrile.
K015	Still bottoms from the distillation of benzyl chloride.
K016	Heavy ends or distillation residues from the production of carbon tetrachloride.
K017	Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
K018	Heavy ends from the fractionation column in ethyl chloride production.
K019	Heavy ends from the distillation of ethylene dichloride in ethylene dichloride production.
K020	Heavy ends from the distillation of vinyl chloride in vinyl chloride monomer production.
K021	Aqueous spent antimony catalyst waste from fluoromethane production.
K022	Distillation bottom tars from the production of phenol/acetone from cumene.
K023	Distillation light ends from the production of phthalic anhydride from naphthalene.
K024	Distillation bottoms from the production of phthalic anhydride from naphthalene.
K025	Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
K026	Stripping still tails from the production of methyl ethyl pyridines.
K027	Centrifuge and distillation residues from toluene diisocyanate production.
K028	Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
K029	Waste from the product steam stripper in the production of 1,1,1-trichloroethane.
K030	Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.
K031	By-product salts generated in the production of MSMA and cacodylic acid.
K032	Wastewater treatment sludge from the production of chlordane.
K033	Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
K034	Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
K035	Wastewater treatment sludges generated in the production of creosote.
K036	Still bottoms from toluene reclamation distillation in the production of disulfoton.
K037	Wastewater treatment sludges from the production of disulfoton.
K038	Wastewater from the washing and stripping of phorate production.
K039	Filter cake from the filtration of diethylphosphorodithioic acid in the production of phorate.
K040	Wastewater treatment sludge from the production of phorate.
K041	Wastewater treatment sludge from the production of toxaphene.

EPA HAZARDOUS WASTE CODES

Code	Waste description
K042	Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.
K043	2,6-dichlorophenol waste from the production of 2,4-D.
K044	Wastewater treatment sludges from the manufacturing and processing of explosives.
K045	Spent carbon from the treatment of wastewater containing explosives.
K046	Wastewater treatment sludges from the manufacturing, formulation, and loading of lead-based initiating compounds.
K047	Pink/red water from TNT operations.
K048	Dissolved air flotation (DAF) float from the petroleum refining industry.
K049	Slop oil emulsion solids from the petroleum refining industry.
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.
K051	API separator sludge from the petroleum refining industry.
K052	Tank bottoms (leaded) from the petroleum refining industry.
K060	Ammonia still lime sludge from coking operations.
K061	Emission control dust/sludge from the primary production of steel in electric furnaces.
K062	Spent pickle liquor from steel finishing operations of plants that produce iron or steel.
K064	Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.
K065	Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities.
K066	Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.
K069	Emission control dust/sludge from secondary lead smelting.
K071	Brine purification muds from the mercury cell process in chlorine production, in which separately prepurified brine is not used.
K073	Chlorinated hydrocarbon waste from the purification step of the diaphragm cell process using graphite anodes in chlorine production.
K083	Distillation bottoms from aniline production.
K084	Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K085	Distillation or fractionation column bottoms from the production of chlorobenzenes.
K086	Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.
K087	Decanter tank tar sludge from coking operations.
K088	Spent potliners from primary aluminum reduction.
K090	Emission control dust or sludge from ferrochromiumsilicon production.
K091	Emission control dust or sludge from ferrochromium production.
K093	Distillation light ends from the production of phthalic anhydride from ortho-xylene.
K094	Distillation bottoms from the production of phthalic anhydride from ortho-xylene.
K095	Distillation bottoms from the production of 1,1,1-trichloroethane.
K096	Heavy ends from the heavy ends column from the production of 1,1,1-trichloroethane.

EPA HAZARDOUS WASTE CODES

Code	Waste description
K097	Vacuum stripper discharge from the chlordane chlorinator in the production of chlordane.
K098	Untreated process wastewater from the production of toxaphene.
K099	Untreated wastewater from the production of 2,4-D.
K100	Waste leaching solution from acid leaching of emission control dust/sludge from secondary lead smelting.
K101	Distillation tar residues from the distillation of aniline-based compounds in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K102	Residue from the use of activated carbon for decolorization in the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.
K103	Process residues from aniline extraction from the production of aniline.
K104	Combined wastewaters generated from nitrobenzene/aniline production.
K105	Separated aqueous stream from the reactor product washing step in the production of chlorobenzenes.
K106	Wastewater treatment sludge from the mercury cell process in chlorine production.
K107	Column bottoms from product separation from the production of 1,1-dimethylhydrazine (UDMH) from carboxylic acid hydrazides.
K108	Condensed column overheads from product separation and condensed reactor vent gases from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K109	Spent filter cartridges from product purification from the product of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K110	Condensed column overheads from intermediate separation from the production of 1,1-dimethylhydrazine from carboxylic acid hydrazides.
K111	Product washwaters from the production of dinitrotoluene via nitration of toluene.
K112	Reaction by-product water from the drying column in the production of toluenediamine via hydrogenation of dinitrotoluene.
K113	Condensed liquid light ends from purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene.
K114	Vicinals from the purification of toluenediamine in production of toluenediamine via hydrogenation of dinitrotoluene.
K115	Heavy ends from purification of toluenediamine in the production of toluenediamine via hydrogenation of dinitrotoluene.
K116	Organic condensate from the solvent recovery column in the production of toluene diisocyanate via phosgenation of toluenediamine.
K117	Wastewater from the reactor vent gas scrubber in the production of ethylene dibromide via bromination of ethene.
K118	Spent adsorbent solids from purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K123	Process wastewater (including supernates, filtrates, and washwaters) from the production of ethylenebisdithiocarbamic acid and its salts.
K124	Reactor vent scrubber water from the production of ethylenebisdithiocarbamic acid and its salts.
K125	Filtration, evaporation, and centrifugation solids from the production of ethylenebisdithiocarbamic acid and its salts.
K126	Baghouse dust and floor sweepings in milling and packaging operations from production or formulation of ethylenebisdithiocarbamic acid and its salts.

EPA HAZARDOUS WASTE CODES

Code	Waste description
K131	Wastewater from the reactor and spent sulfuric acid from the acid dryer from the production of methyl bromide.
K132	Spent absorbent and wastewater separator solids from the production of methyl bromide.
K136	Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene.
K140	Floor sweepings, off-specification product, and spent filter media from the production of 2,4,6-tribromophenol.
K141	Process residues from the recovery of coal tar, including, but not limited to, tar collecting sump residues from the production of coke from coal or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank sludge from coking operations).
K142	Tank storage residues from the production of coke from coal or from the recovery of coke by-products from coal.
K143	Process residues from the recovery of light oil, including, but not limited to, those generated in stills, decanters, and wash oil recovery units from the recovery of coke by-products produced from coal.
K144	Wastewater sump residues from light oil refining, including, but not limited to, intercepting or contamination sump sludges from the recovery of coke by-products produced from coal.
K145	Residues from naphthalene collection and recovery operations from the recovery of coke by-products produced from coal.
K147	Tar storage residues from coal tar refining.
K148	Residues from coal tar distillation, including, but not limited to, still bottoms.
K149	Distillation bottoms from the production of alpha (or methyl-) chlorinated toluenes, ring-chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. [This waste does not include still bottoms from the distillation of benzoyl chloride]
K150	Organic residuals excluding spent carbon adsorbent, from the spent chlorine gas and hydrochloric acid recovery processes associated with the production of alpha (or methyl-) chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K151	Wastewater treatment sludges, excluding neutralization and biological sludges, generated during the treatment of wastewaters from the production of alpha (or methyl-) chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups.
K156	Organic waste (including heavy ends, still bottoms, light ends, spent solvents, filtrates, and decamtates) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2propynl n-butylcarbamate.).
K157	Wastewaters (including scrubber waters, condenser waters, washwaters, and separation waters) from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2propynl n-butylcarbamate.).
K158	Bag house and filter/separation solids from the production of carbamates and carbamoyl oximes. (This listing does not apply to wastes generated from the manufacture of 3-iodo-2propynl n-butylcarbamate).
K159	Organics from the treatment of thiocarbamate wastes.
K161	Purification soilids (including filtration, evaporation, and centrifugation soilds), bag house dust and floor sweepings from the production of dithiocarbamate acids and their salts. (This listing does not include K125 or K126).
K169	Crude oil tank sediment from petroleum refining operations.

EPA HAZARDOUS WASTE CODES

Code	Waste description
K170	Clarified slurry oil tank sediment and/or in-line filter/separation solids from petroleum refining operations.
K171	Spent hydrotreating catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (This listing does not include inert support media).
K172	Spent hydrorefining catalyst from petroleum refining operations, including guard beds used to desulfurize feeds to other catalytic reactors (This listing does not include inert support media).
K174	Wastewater treatment sludges from the production of ethylene dichloride or vinyl chloride monomer (including sludges that result from commingled ethylene dichloride or vinyl chloride monomer wastewater and other wastewater), unless the sludges meet the following conditions: (i) they are disposed of in a subtitle C or non-hazardous landfill licensed or permitted by the state or federal government; (ii) they are not otherwise placed on the land prior to final disposal; and (iii) the generator maintains documentation demonstrating that the waste was either disposed of in an on-site landfill or consigned to a transporter or disposal facility that provided a written commitment to dispose of the waste in an off-site landfill. Respondents in any action brought to enforce the requirements of subtitle C must, upon a showing by the government that the respondent managed wastewater treatment sludges from the production of vinyl chloride monomer or ethylene dichloride, demonstrate that they meet the terms of the exclusion set forth above. In doing so, they must provide appropriate documentation (e.g.,contracts between the generator and the landfill owner/operator, invoices documenting delivery of waste to landfill, etc.) that the terms of the exclusion were met.*
K175	Wastewater treatment sludges from the production of vinyl chloride monomer using mercuric chloride catalyst in an acetylene-based process.*
K176	Baghouse filters from the production of antimony oxide, including filters from the production of intermediates (e.g.,antimony metal or crude antimony oxide)
K177	Slag from the production of antimony oxide that is speculatively accumulated or disposed,including slag from the production of intermediates (e.g.,antimony metal or crude antimony oxide)
K178	Residues from manufacturing and manufacturing-site storage of ferric chloride from acids formed during the production of titanium dioxide using the chloride-ilmenite process.

DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUALS, AND SPILL RESIDUES THEREOF – ACUTE HAZARDOUS WASTE *(SEE 40 CFR 261.33 FOR AN ALPHABETIZED LISTING)*

P001	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenylbutyl)-, & salts, when present at concentrations greater than 0.3%
P001	Warfarin, & salts, when present at concentrations greater than 0.3%
P002	1-Acetyl-2-thiourea
P002	Acetamide, N-(aminothioxomethyl)-
P003	2-Propenal
P003	Acrolein
P004	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5alpha, 8alpha, 8abeta)-
P004	Aldrin
P005	2-Propen-1-ol
P005	Allyl alcohol
P006	Aluminum phosphide (R,T)
P007	3(2H)-Isoxazolone, 5-(aminomethyl)-

EPA HAZARDOUS WASTE CODES

Code	Waste description
P007	5-(Aminomethyl)-3-isoxazolol
P008	4-Aminopyridine
P008	4-Pyridinamine
P009	Ammonium picrate (R)
P009	Phenol, 2,4,6-trinitro-, ammonium salt (R)
P010	Arsenic acid H3AsO4
P011	Arsenic oxide As2O5
P011	Arsenic pentoxide
P012	Arsenic oxide As2O3
P012	Arsenic trioxide
P013	Barium cyanide
P014	Benzenethiol
P014	Thiophenol
P015	Beryllium powder
P016	Dichloromethyl ether
P016	Methane, oxybis[chloro-
P017	2-Propanone, 1-bromo-
P017	Bromoacetone
P018	Brucine
P018	Strychnidin-10-one, 2,3-dimethoxy-
P020	Dinoseb
P020	Phenol, 2-(1-methylpropyl)-4,6-dinitro-
P021	Calcium cyanide
P021	Calcium cyanide Ca(CN)2
P022	Carbon disulfide
P023	Acetaldehyde, chloro-
P023	Chloroacetaldehyde
P024	Benzenamine, 4-chloro-
P024	p-Chloraniline
P026	1-(o-Chlorophenyl)thiourea
P026	Thiourea, (2-chlorophenyl)-
P027	3-Chloropropionitrile
P027	Propanenitrile, 3-chloro-
P028	Benzene, (chloromethyl)-
P028	Benzyl chloride
P029	Copper cyanide
P029	Copper cyanide Cu(CN)
P030	Cyanides (soluble cyanide salts), not otherwise specified
P031	Cyanogen
P031	Ethanedinitrile
P033	Cyanogen chloride
P033	Cyanogen chloride (CN)Cl
P034	2-Cyclohexyl-4,6-dinitrophenol
P034	Phenol, 2-cyclohexyl-4,6-dinitro-
P036	Arsonous dichloride, phenyl-
P036	Dichlorophenylarsine
P037	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2aalpha, 3beta, 6beta, 6aalpha, 7beta, 7aalpha)-
P037	Dieldrin
P038	Arsine, diethyl-
P038	Diethylarsine

EPA HAZARDOUS WASTE CODES

Code	Waste description
P039	Disulfoton
P039	Phosphorodithioic acid, O,O-diethyl S-[2-(ethylthio)ethyl] ester
P040	O,O-Diethyl O-pyrazinyl phosphorothioate
P040	Phosphorothioic acid, O,O-diethyl O-pyrazinyl ester
P041	Diethyl-p-nitrophenyl phosphate
P041	Phosphoric acid, diethyl 4-nitrophenyl ester
P042	1,2-Benzenediol, 4-[1-hydroxy-2-(methylamino)ethyl]-, (R)-
P042	Epinephrine
P043	Diisopropylfluorophosphate (DFP)
P043	Phosphorofluoridic acid, bis(1-methylethyl) ester
P044	Dimethoate
P044	Phosphorodithioic acid, O,O-dimethyl S-[2-(methylamino)-2-oxoethyl] ester
P045	2-Butanone, 3,3-dimethyl-1-(methylthio)-, O-[methylamino)carbonyl] oxime
P045	Thiofanox
P046	alpha,alpha-Dimethylphenethylamine
P046	Benzeneethanamine, alpha, alpha-dimethyl-
P047	4,6-Dinitro-o-cresol, & salts
P047	Phenol, 2-methyl-4,6-dinitro-, & salts
P048	2,4-Dinitrophenol
P048	Phenol, 2,4-dinitro-
P049	Dithiobiuret
P049	Thioimidodicarbonic diamide [(H2N)C(S)]2NH
P050	6,9-Methano-2,4,3-benzodioxathiepin,6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-,3-oxide
P050	Endosulfan
P051	2,7:3,6-Dimethanonaphth[2,3-b]oxirene, 3,4,5,6,9,9-hexachloro-1a,2,2a,3,6,6a,7,7a-octahydro-, (1aalpha, 2beta, 2abeta, 3alpha, 6alpha, 6abeta, 7beta, 7aalpha)- & metabolites
P051	Endrin
P051	Endrin, & metabolites
P054	Aziridine
P054	Ethyleneimine
P056	Fluorine
P057	Acetamide, 2-fluoro-
P057	Fluoroacetamide
P058	Acetic acid, fluoro-, sodium salt
P058	Fluoroacetic acid, sodium salt
P059	4,7-Methano-1H-indene, 1,4,5,6,7,8,8-heptachloro-3a,4,7,7a-tetrahydro-
P059	Heptachlor
P060	1,4,5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexa-chloro-1,4,4a,5,8,8a,-hexahydro-, (1alpha, 4alpha, 4abeta, 5beta, 8beta, 8abeta)-
P060	Isodrin
P062	Hexaethyl tetraphosphate
P062	Tetraphosphoric acid, hexaethyl ester
P063	Hydrocyanic acid
P063	Hydrogen cyanide
P064	Methane, isocyanato-
P064	Methyl isocyanate

EPA HAZARDOUS WASTE CODES

Code	Waste description
P065	Fulminic acid, mercury(2+) salt (R,T)
P065	Mercury fulminate (R,T)
P066	Ethanimidothioic acid, N-[[(methylamino)carbonyl]oxy]-, methyl ester
P066	Methomyl
P067	1,2-Propylenimine
P067	Aziridine, 2-methyl-
P068	Hydrazine, methyl-
P068	Methyl hydrazine
P069	2-Methyllactonitrile
P069	Propanenitrile, 2-hydroxy-2-methyl-
P070	Aldicarb
P070	Propanal, 2-methyl-2-(methylthio)-, O-[(methylamino)carbonyl]oxime
P071	Methyl parathion
P071	Phosphorothioic acid, O,O,-dimethyl O-(4-nitrophenyl) ester
P072	alpha-Naphthylthiourea
P072	Thiourea, 1-naphthalenyl-
P073	Nickel carbonyl
P073	Nickel carbonyl Ni(CO)4, (T-4)-
P074	Nickel cyanide
P074	Nickel cyanide Ni(CN)2
P075	Nicotine, & salts
P075	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-,(S)-, & salts
P076	Nitric oxide
P076	Nitrogen oxide NO
P077	Benzenamine, 4-nitro-
P077	p-Nitroaniline
P078	Nitrogen dioxide
P078	Nitrogen oxide NO2
P081	1,2,3-Propanetriol, trinitrate (R)
P081	Nitroglycerine (R)
P082	Methanimine, N-methyl-N-nitroso-
P082	N-Nitrosodimethylamine
P084	N-Nitrosomethylvinylamine
P084	Vinylamine, N-methyl-N-nitroso-
P085	Diphosphoramide, octamethyl-
P085	Octamethylpyrophosphoramide
P087	Osmium oxide OsO4, (T-4)-
P087	Osmium tetroxide
P088	7-Oxabicyclo[2.2.1]heptane-2,3-dicarboxylic acid
P088	Endothall
P089	Parathion
P089	Phosphorothioic acid, O,O-diethyl-O-(4-nitrophenyl) ester
P092	Mercury, (acetato-O)phenyl-
P092	Phenylmercury acetate
P093	Phenylthiourea
P093	Thiourea, phenyl-
P094	Phorate
P094	Phosphorodithioic acid, O,O-diethyl S-[(ethylthio)methyl] ester
P095	Carbonic dichloride

EPA HAZARDOUS WASTE CODES

Code	Waste description	Code	Waste description
P095	Phosgene	**P110**	Tetraethyl lead
P096	Hydrogen phosphide	**P111**	Diphosphoric acid, tetraethyl ester
P096	Phosphine	**P111**	Tetraethyl pyrophosphate
P097	Famphur	**P112**	Methane, tetranitro- (R)
P097	Phosphorothioic acid O-[4-[(dimethylamino)sulfonyl]phenyl] O,O-dimethyl ester	**P112**	Tetranitromethane (R)
		P113	Thallic oxide
P098	Potassium cyanide	**P113**	Thallium oxide Tl2O3
P098	Potassium cyanide K(CN)	**P114**	Selenious acid, dithallium (1+) salt
P099	Argentate (1-), bis(cyano-C)-, potassium	**P114**	Thallium(I) selenite
P099	Potassium silver cyanide	**P115**	Sulfuric acid, dithallium (1+) salt
P101	Ethyl cyanide	**P115**	Thallium(I) sulfate
P101	Propanenitrile	**P116**	Hydrazinecarbothioamide
P102	2-Propyn-1-ol	**P116**	Thiosemicarbazide
P102	Propargyl alcohol	**P118**	Methanethiol, trichloro-
P103	Selenourea	**P118**	Trichloromethanethiol
P104	Silver cyanide	**P119**	Ammonium vanadate
P104	Silver cyanide Ag(CN)	**P119**	Vanadic acid, ammonium salt
P105	Sodium azide	**P120**	Vanadium oxide V2O5
P106	Sodium cyanide	**P120**	Vanadium pentoxide
P106	Sodium cyanide Na(CN)	**P121**	Zinc cyanide
P107	Strontium sulfide srs	**P121**	Zinc cyanide Zn(CN)2
P108	Strychnidin-10-one, & salts	**P122**	Zinc phosphide Zn3P2, when present at concentrations greater than 10% (R,T)
P108	Strychnine, & salts		
P109	Tetraethyldithiopyrophosphate	**P123**	Toxaphene
P109	Thiodiphosphoric acid, tetraethyl ester	**P127**	7-Benzofuranol, 2-3dihydro-2,2-dimethyl-, methylcarbamate
P110	Plumbane, tetraethyl-	**P127**	Carbofuran.

EPA HAZARDOUS WASTE CODES

Code	Waste description
P127	7-Benzufuranol, 2, 3-dihydro-2, 2 dimethyl-, methylcarbamate
P128	Phenol, 4-(dimethylamino)-3,5-dimethyl-, methylcarbamate (ester)
P128	Mexacarbate
P185	1,3-Dithiolane-2carboxaldehyde, 2,4-dimethyl-, O-[(methylamino)-carbonyl]oxime.
P188	Physostigmine salicylate
P189	Carbosulfan
P189	Carbamic acid, [(dibutylamino)-thio]methyl-,2,3-dihydro-2,2dimethyl-7benzofuranyl ester.
P190	Metolcarb.
P191	Dimetilan
P191	Carbamic acid, dimethyl-, 1-[(dimethyl-amino)carbonyl]-5-methyl-1H-pyrazol-3-yl ester.
P192	Isolan
P192	Carbamic acid, dimethyl-, 3-methyl-1- (1-methylethyl)-1H-pyrazo-5-yl ester.
P194	Ethanimidothioc acid, 2-(dimethylamino)-N-[((methylamino) carbonyl)oxy)-2-oxo-,methyl ester
P194	Oxamyl
P196	Manganese, bis(dimethylcarbamodithioato-S,S')
P196	Manganese dimethyldithiocarbamate
P197	Formparanate
P197	Methanimidamide, N,N-dimethyl-N'-[2-methyl-4[[(methylamino)carbonyl)oxy] phenyl]
P198	Methanimidamide, N,N-dimethyl-N'-[3-[[(methylamino)-carbonyl]oxy]phenyl]-, monohydrochloride
P198	Formetanate hydrochloride
P199	Methiocarb.
P199	Phenol, (3,5-dimethyl-4(methlthio)-, methylcarbamate
P201	Promecarb
P201	Phenol, 3-methyl-5-(1-methylethyl)-,methyl carbamate
P202	Phenol, 3-(1 methylethyl)-, methyl carbamate
P202	3-Isopropylphenyl N-methylcarbamate
P202	m-Cumenyl methylcarbamate
P203	Aldicarb sulfone.
P203	Propanal, 2-methyl-2-(methyl-sulfonyl)-,O-[(methylamino)carbonyl]oxime
P204	Physostigmine
P204	Pyrrolo[2,3-b]indol-5-ol, 1,2,3,3a,8,8a-hexahydro-1, 3a,8-trimethylmethylcarbamate (ester), (3aS-cis)-
P205	Ziram

EPA HAZARDOUS WASTE CODES

Code	Waste description
DISCARDED COMMERCIAL CHEMICAL PRODUCTS, OFF-SPECIFICATION SPECIES, CONTAINER RESIDUES, AND SPILL RESIDUES THEREOF – TOXIC WASTES *(SEE 40 CFR 261.33 FOR AN ALPHABETIZED LISTING)*	
See F027	2,3,4,6-Tetrachlorophenol
	2,4,5-T
	2,4,5-Trichlorophenol
	2,4,6-Trichlorophenol
	Acetic acid, (2,4,5-trichlorophenoxy)-
	Pentachlorophenol
	Phenol, 2,3,4,6-tetrachloro-
	Phenol, 2,4,5-trichloro-
	Phenol, 2,4,6-trichloro-
	Phenol, pentachloro-
	Propanoic acid, 2-(2,4,5-
	trichlorophenoxy)-
	Silvex (2,4,5-TP)
U001	Acetaldehyde (I)
U001	Ethanal (I)
U002	2-Propanone (I)
U002	Acetone (I)
U003	Acetonitrile (I,T)
U004	Acetophenone
U004	Ethanone, 1-phenyl-
U005	2-Acetylaminofluorene
U005	Acetamide, N-9H-fluoren-2-yl
U006	Acetyl chloride (C,R,T)
U007	2-Propenamide
U007	Acrylamide
U008	2-Propenoic acid (I)
U008	Acrylic acid (I)
U009	2-Propenenitrile
U009	Acrylonitrile**U010**Azirino [2',3':3,4]pyrrolo[1,2-a]indole-4,7-dione, 6-amino-8-[[(aminocarbonyl)oxy] methyl]-1,1a,2,8,8a,8b-hexahydro-8a-methoxy-5-methyl-, [1aS-(1aalpha, 8beta, 8aalpha, 8balpha)]-
U010	Mitomycin C
U011	1H-1,2,4-Triazol-3-amine
U011	Amitrole
U012	Aniline (I,T)
U012	Benzenamine (I,T)
U014	Auramine
U014	Benzenamine, 4,4'-carbonimidoylbis[N,N-dimethyl-
U015	Azaserine
U015	L-Serine, diazoacetate (ester)
U016	Benz[c]acridine
U017	Benzal chloride
U017	Benzene, (dichloromethyl)-
U018	Benz[a]anthracene
U019	Benzene (I,T)
U020	Benzenesulfonic acid chloride (C,R)
U020	Benzenesulfonyl chloride (C,R)
U021	[1,1'-Biphenyl]-4,4'-diamine
U021	Benzidine

EPA HAZARDOUS WASTE CODES

Code	Waste description
U022	Benzo[a]pyrene
U023	Benzene, (trichloromethyl)-
U023	Benzotrichloride (C,R,T)
U024	Dichloromethoxy ethane
U024	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
U025	Dichloroethyl ether
U025	Ethane, 1,1'-oxybis[2-chloro-
U026	Chlornaphazin
U026	Naphthalenamine, N,N'-bis(2-chloroethyl)-
U027	Dichloroisopropyl ether
U027	Propane, 2,2'-oxybis[2-chloro-
U028	1,2-Benzenedicarboxylic acid, bis(2-ethylhexyl) ester
U028	Diethylhexyl phthalate
U029	Methane, bromo-
U029	Methyl bromide
U030	4-Bromophenyl phenyl ether
U030	Benzene, 1-bromo-4-phenoxy-
U031	1-Butanol (I)
U031	n-Butyl alcohol (I)
U032	Calcium chromate
U032	Chromic acid H2CrO4, calcium salt
U033	Carbon oxyfluoride (R,T)
U033	Carbonic difluoride
U034	Acetaldehyde, trichloro-
U034	Chloral
U035	Benzenebutanoic acid, 4-[bis(2-chloroethyl)amino]-
U035	Chlorambucil
U036	4,7-Methano-1H-indene, 1,2,4,5,6,7,8,8-octachloro-2,3,3a,4,7,7a-hexahydro-
U036	Chlordane, alpha & gamma isomers
U037	Benzene, chloro-
U037	Chlorobenzene
U038	Benzeneacetic acid, 4-chloro-alpha-(4-chlorophenyl)-alpha-hydroxy-, ethyl ester
U038	Chlorobenzilate
U039	p-Chloro-m-cresol
U039	Phenol, 4-chloro-3-methyl-
U041	Epichlorohydrin
U041	Oxirane, (chloromethyl)-
U042	2-Chloroethyl vinyl ether
U042	Ethene, (2-chloroethoxy)-
U043	Ethene, chloro-
U043	Vinyl chloride
U044	Chloroform
U044	Methane, trichloro-
U045	Methane, chloro- (I,T)
U045	Methyl chloride (I,T)
U046	Chloromethyl methyl ether
U046	Methane, chloromethoxy-
U047	beta-Chloronaphthalene
U047	Naphthalene, 2-chloro-
U048	o-Chlorophenol

EPA HAZARDOUS WASTE CODES

Code	Waste description
U048	Phenol, 2-chloro-
U049	4-Chloro-o-toluidine, hydrochloride
U049	Benzenamine, 4-chloro-2-methyl-, hydrochloride
U050	Chrysene
U051	Creosote
U052	Cresol (Cresylic acid)
U052	Phenol, methyl-
U053	2-Butenal
U053	Crotonaldehyde
U055	Benzene, (1-methylethyl)- (I)
U055	Cumene (I)
U056	Benzene, hexahydro- (I)
U056	Cyclohexane (I)
U057	Cyclohexanone (I)
U058	2H-1,3,2-Oxazaphosphorin-2-amine, N,N-bis(2-chloroethyl)tetrahydro-, 2-oxide
U058	Cyclophosphamide
U059	5,12-Naphthacenedione, 8-acetyl-10-[(3-amino-2,3,6-trideoxy)-alpha-L-lyxo-hexopyranosyl)oxy]-7,8,9,10-tetrahydro-6,8,11-trihydroxy-1-methoxy-, (8S-cis)-
U059	Daunomycin
U060	Benzene, 1,1'-(2,2-dichloroethylidene)bis[4-chloro-
U060	DDD
U061	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-chloro-
U061	DDT
U062	Carbamothioic acid, bis(1-methylethyl)-, S-(2,3-dichloro-2-propenyl) ester
U062	Diallate
U063	Dibenz[a,h]anthracene
U064	Benzo[rst]pentaphene
U064	Dibenzo[a,i]pyrene
U066	1,2-Dibromo-3-chloropropane
U066	Propane, 1,2-dibromo-3-chloro-
U067	Ethane, 1,2-dibromo-
U067	Ethylene dibromide
U068	Methane, dibromo-
U068	Methylene bromide
U069	1,2-Benzenedicarboxylic acid, dibutyl ester
U069	Dibutyl phthalate
U070	Benzene, 1,2-dichloro-
U070	o-Dichlorobenzene
U071	Benzene, 1,3-dichloro-
U071	m-Dichlorobenzene
U072	Benzene, 1,4-dichloro-
U072	p-Dichlorobenzene
U073	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dichloro-
U073	3,3'-Dichlorobenzidine
U074	1,4-Dichloro-2-butene (I,T)
U074	2-Butene, 1,4-dichloro- (I,T)
U075	Dichlorodifluoromethane
U075	Methane, dichlorodifluoro-
U076	Ethane, 1,1-dichloro-

EPA HAZARDOUS WASTE CODES

Code	Waste description	Code	Waste description
U076	Ethylidene dichloride	**U089**	Diethylstilbesterol
U077	Ethane, 1,2-dichloro-	**U089**	Phenol, 4,4'-(1,2-diethyl-1,2-ethenediyl)bis, (E)-
U077	Ethylene dichloride	**U090**	1,3-Benzodioxole, 5-propyl-
U078	1,1-Dichloroethylene	**U090**	Dihydrosafrole
U078	Ethene, 1,1-dichloro-	**U091**	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethoxy-
U079	1,2-Dichloroethylene	**U091**	3,3'-Dimethoxybenzidine
U079	Ethene, 1,2-dichloro-,(E)-	**U092**	Dimethylamine (I)
U080	Methane, dichloro-	**U092**	Methanamine, N-methyl- (I)
U080	Methylene chloride	**U093**	Benzenamine, N,N-dimethyl-4-(phenylazo)-
U081	2,4-Dichlorophenol	**U093**	p-Dimethylaminoazobenzene
U081	Phenol, 2,4-dichloro-	**U094**	7,12-Dimethylbenz[a]anthracene
U082	2,6-Dichlorophenol	**U094**	Benz[a]anthracene, 7,12-dimethyl-
U082	Phenol, 2,6-dichloro-	**U095**	[1,1'-Biphenyl]-4,4'-diamine, 3,3'-dimethyl-
U083	Propane, 1,2-dichloro-	**U095**	3,3'-Dimethylbenzidine
U083	Propylene dichloride	**U096**	alpha,alpha-Dimethylbenzylhydroperoxide (R)
U084	1,3-Dichloropropene	**U096**	Hydroperoxide, 1-methyl-1-phenylethyl- (R)
U084	1-Propene, 1,3-dichloro-	**U097**	Carbamic chloride, dimethyl-
U085	1,2:3,4-Diepoxybutane (I,T)	**U097**	Dimethylcarbamoyl chloride
U085	2,2'-Bioxirane	**U098**	1,1-Dimethylhydrazine
U086	Hydrazine, 1,2-diethyl-	**U098**	Hydrazine, 1,1-dimethyl-
U086	N,N'-Diethylhydrazine	**U099**	1,2-Dimethylhydrazine
U087	O,O-Diethyl S-methyl dithiophosphate	**U099**	Hydrazine, 1,2-diphenyl-
U087	Phosphorodithioic acid, O,O-diethyl S-methyl ester	**U101**	2,4-Dimethylphenol
U088	1,2-Benzenedicarboxylic acid, diethyl ester	**U101**	Phenol, 2,4-dimethyl-
U088	Diethyl phthalate	**U102**	1,2-Benzenedicarboxylic acid, dimethyl ester
		U102	Dimethyl phthalate

EPA HAZARDOUS WASTE CODES

Code	Waste description	Code	Waste description
U103	Dimethyl sulfate	**U116**	Ethylenethiourea
U103	Sulfuric acid, dimethyl ester	**U117**	Ethane, 1,1'-oxybis-(I)
U105	2,4-Dinitrotoluene	**U117**	Ethyl ether (I)
U105	Benzene, 1-methyl-2,4-dinitro-	**U118**	2-Propenoic acid, 2-methyl-, ethyl ester
U106	2,6-Dinitrotoluene	**U118**	Ethyl methacrylate
U106	Benzene, 2-methyl-1,3-dinitro-	**U119**	Ethyl methanesulfonate
U107	1,2-Benzenedicarboxylic acid, dioctyl ester	**U119**	Methanesulfonic acid, ethyl ester
U107	Di-n-octyl phthalate	**U120**	Fluoranthene
U108	1,4-Diethyleneoxide	**U121**	Methane, trichlorofluoro-
U108	1,4-Dioxane	**U121**	Trichloromonofluoromethane
U109	1,2-Diphenylhydrazine	**U122**	Formaldehyde
U109	Hydrazine, 1,2-diphenyl-	**U123**	Formic acid (C,T)
U110	1-Propanimine, N-propyl-(I)	**U124**	Furan (I)
U110	Dipropylamine (I)	**U124**	Furfuran (I)
U111	1-Propanamine, N-nitroso-N-propyl-	**U125**	2-Furancarboxaldehyde (I)
U111	Di-n-propylnitrosamine	**U125**	Furfural (I)
U112	Acetic acid, ethyl ester (I)	**U126**	Glycidylaldehyde
U112	Ethyl acetate (I)	**U126**	Oxiranecarboxyaldehyde
U113	2-Propenoic acid, ethyl ester (I)	**U127**	Benzene, hexachloro-
U113	Ethyl acrylate (I)	**U127**	Hexachlorobenzene
U114	Carbamodithioic acid, 1,2-ethanediylbis-, salts & esters	**U128**	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
U114	Ethylenebisdithiocarbamic acid, salts & esters	**U128**	Hexachlorobutadiene
U115	Ethylene oxide (I,T)	**U129**	Cyclohexane, 1,2,3,4,5,6-hexachloro-, (1alpha, 2alpha, 3beta, 4alpha, 5alpha, 6beta)-
U115	Oxirane (I,T)	**U129**	Lindane
U116	2-Imidazolidinethione	**U130**	1,3-Cyclopentadiene, 1,2,3,4,5,5-hexachloro-
		U130	Hexachlorocyclopentadiene

EPA HAZARDOUS WASTE CODES

Code	Waste description
U131	Ethane, hexachloro-
U131	Hexachloroethane
U132	Hexachlorophene
U132	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
U133	Hydrazine (R,T)
U134	Hydrofluoric acid (C,T)
U134	Hydrogen fluoride (C,T)
U135	Hydrogen sulfide
U135	Hydrogen sulfide H2S
U136	Arsinic acid, dimethyl-
U136	Cacodylic acid
U137	Indeno[1,2,3-cd]pyrene
U138	Methane, iodo-
U138	Methyl iodide
U140	1-Propanol, 2-methyl- (I,T)
U140	Isobutyl alcohol (I,T)
U141	1,3-Benzodioxole, 5-(1-propenyl)-
U141	Isosafrole
U142	1,3,4-Metheno-2H-cyclobuta[cd]pentalen-2-one, 1,1a,3,3a,4,5,5,5a,5b,6-decachlorooctahydro-
U142	Kepone
U143	2-Butenoic acid, 2-methyl-, 7-[[2,3-dihydroxy-2-(1-methoxyethyl)-3-methyl-1-oxobutoxy]methyl]-2,3,5,7a-tetrahydro-1H-pyrrolizin-1-yl ester, [1S-[1alpha(Z), 7(2S*,3R*), 7aalpha]]-
U143	Lasiocarpine
U144	Acetic acid, lead(2+) salt
U144	Lead acetate
U145	Lead phosphate
U145	Phosphoric acid, lead(2+) salt (2:3)
U146	Lead subacetate
U146	Lead, bis(acetato-O)tetrahydroxytri-
U147	2,5-Furandione
U147	Maleic anhydride
U148	3,6-Pyridazinedione, 1,2-dihydro-
U148	Maleic hydrazide
U149	Malononitrile
U149	Propanedinitrile
U150	L-Phenylalanine, 4-[bis(2-chloroethyl)amino]-
U150	Melphalan
U151	Mercury
U152	2-Propenenitrile, 2-methyl- (I,T)
U152	Methacrylonitrile (I,T)
U153	Methanethiol (I,T)
U153	Thiomethanol (I,T)
U154	Methanol (I)
U154	Methyl alcohol (I)
U155	1,2-Ethanediamine, N,N-dimethyl-N'-2-pyridinyl-N'-(2-thienylmethyl)-
U155	Methapyrilene
U156	Carbonochloridic acid, methyl ester, (I,T)
U156	Methyl chlorocarbonate (I,T)
U157	3-Methylcholanthrene

EPA HAZARDOUS WASTE CODES

Code	Waste description
U157	Benz[j]aceanthrylene, 1,2-dihydro-3-methyl-
U158	4,4'-Methylenebis(2-chloroaniline)
U158	Benzenamine, 4,4'-methylenebis[2-chloro-
U159	2-Butanone (I,T)
U159	Methyl ethyl ketone (MEK) (I,T)
U160	2-Butanone, peroxide (R,T)
U160	Methyl ethyl ketone peroxide (R,T)
U161	4-Methyl-2-pentanone (I)
U161	Methyl isobutyl ketone (I)
U161	Pentanol, 4-methyl-
U162	2-Propenoic acid, 2-methyl-, methyl ester (I,T)
U162	Methyl methacrylate (I,T)
U163	Guanidine, N-methyl-N'-nitro-N-nitroso-
U163	MNNG
U164	4(1H)-Pyrimidinone, 2,3-dihydro-6-methyl-2-thioxo-
U164	Methylthiouracil
U165	Naphthalene
U166	1,4-Naphthalenedione
U166	1,4-Naphthoquinone
U167	1-Napthalenamine
U167	alpha-Naphthylamine
U168	2-Napthalenamine
U168	beta-Naphthylamine
U169	Benzene, nitro-
U169	Nitrobenzene (I,T)
U170	p-Nitrophenol (I,T)
U170	Phenol, 4-nitro-
U171	2-Nitropropane (I,T)
U171	Propane, 2-nitro- (I,T)
U172	1-Butanamine, N-butyl-N-nitroso-
U172	N-Nitrosodi-n-butylamine
U173	Ethanol, 2,2'-(nitrosoimino)bis-
U173	N-Nitrosodiethanolamine
U174	Ethanamine, N-ethyl-N-nitroso-
U174	N-Nitrosodiethylamine
U176	N-Nitroso-N-ethylurea
U176	Urea, N-ethyl-N-nitroso-
U177	N-Nitroso-N-methylurea
U177	Urea, N-methyl-N-nitroso-
U178	Carbamic acid, methylnitroso-, ethyl ester
U178	N-Nitroso-N-methylurethane
U179	N-Nitrosopiperidine
U179	Piperidine, 1-nitroso-
U180	N-Nitrosopyrrolidine
U180	Pyrrolidine, 1-nitroso-
U181	5-Nitro-o-toluidine
U181	Benzenamine, 2-methyl-5-nitro
U182	1,3,5-Trioxane, 2,4,6-trimethyl-
U182	Paraldehyde
U183	Benzene, pentachloro-
U183	Pentachlorobenzene

EPA HAZARDOUS WASTE CODES

Code	Waste description
U184	Ethane, pentachloro-
U184	Pentachloroethane
U185	Benzene, pentachloronitro-
U185	Pentachloronitrobenzene (PCNB)
U186	1,3-Pentadiene (I)
U186	1-Methylbutadiene (I)
U187	Acetamide, N-(4-ethoxyphenyl)-
U187	Phenacetin
U188	Phenol
U189	Phosphorus sulfide (R)
U189	Sulfur phosphide (R)
U190	1,3-Isobenzofurandione
U190	Phthalic anhydride
U191	2-Picoline
U191	Pyridine, 2-methyl-
U192	Benzamide, 3,5-dichloro-N-(1,1-dimethyl-2-propynyl)-
U192	Pronamide
U193	1,2-Oxathiolane, 2,2-dioxide
U193	1,3-Propane sultone
U194	1-Propanamine (I,T)
U194	n-Propylamine (I,T)
U196	Pyridine
U197	2,5-Cyclohexadiene-1,4-dione
U197	p-Benzoquinone
U200	Reserpine
U200	Yohimban-16-carboxylic acid, 11,17-dimethoxy-18-[(3,4,5-trimethoxybenzoyl) oxy]-, methyl ester, (3beta, 16beta, 17alpha, 18beta, 20alpha)-
U201	1,3-Benzenediol
U201	Resorcinol
U202	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide, & salts
U202	Saccharin, & salts
U203	1,3-Benzodioxole, 5-(2-propenyl)-
U203	Safrole
U204	Selenious acid
U204	Selenium dioxide
U205	Selenium sulfide
U205	Selenium sulfide SeS2 (R,T)
U206	D-Glucose, 2-deoxy-2-[[(methylnitrosoamino)-carbonyl]amino]-
U206	Glucopyranose, 2-deoxy-2-(3-methyl-3-nitrosoureido)-,D-
U206	Streptozotocin
U207	1,2,4,5-Tetrachlorobenzene
U207	Benzene, 1,2,4,5-tetrachloro-
U208	1,1,1,2-Tetrachloroethane
U208	Ethane, 1,1,1,2-tetrachloro-
U209	1,1,2,2-Tetrachloroethane
U209	Ethane, 1,1,2,2-tetrachloro-
U210	Ethene, tetrachloro-
U210	Tetrachloroethylene
U211	Carbon tetrachloride
U211	Methane, tetrachloro-

EPA HAZARDOUS WASTE CODES

Code	Waste description
U213	Furan, tetrahydro-(I)
U213	Tetrahydrofuran (I)
U214	Acetic acid, thallium(1+) salt
U214	Thallium(I) acetate
U215	Carbonic acid, dithallium(1+) salt
U215	Thallium(I) carbonate
U216	Thallium chloride Tlcl
U216	Thallium(I) chloride
U217	Nitric acid, thallium(1+) salt
U217	Thallium(I) nitrate
U218	Ethanethioamide
U218	Thioacetamide
U219	Thiourea
U220	Benzene, methyl-
U220	Toluene
U221	Benzenediamine, ar-methyl-
U221	Toluenediamine
U222	Benzenamine, 2-methyl-, hydrochloride
U222	o-Toluidine hydrochloride
U223	Benzene, 1,3-diisocyanatomethyl- (R,T)
U223	Toluene diisocyanate (R,T)
U225	Bromoform
U225	Methane, tribromo-
U226	Ethane, 1,1,1-trichloro-
U226	Methyl chloroform
U227	1,1,2-Trichloroethane
U227	Ethane, 1,1,2-trichloro-
U228	Ethene, trichloro-
U228	Trichloroethylene
U234	1,3,5-Trinitrobenzene (R,T)
U234	Benzene, 1,3,5-trinitro-
U235	1-Propanol, 2,3-dibromo-, phosphate (3:1)
U235	Tris(2,3,-dibromopropyl) phosphate
U236	2,7-Naphthalenedisulfonic acid,3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)bis[5-amino-4-hydroxy]-, tetrasodium salt
U236	Trypan blue
U237	2,4-(1H,3H)-Pyrimidinedione, 5-[bis(2-chloroethyl)amino]-
U237	Uracil mustard
U238	Carbamic acid, ethyl ester
U238	Ethyl carbamate (urethane)
U239	Benzene, dimethyl- (I,T)
U239	Xylene (I)
U240	2,4-D, salts & esters
U240	Acetic acid, (2,4-dichlorophenoxy)-, salts & esters
U240	Dichlorophenoxyacetic acid 2,4-D
U243	1-Propene, 1,1,2,3,3,3-hexachloro-
U243	Hexachloropropene
U244	Thioperoxydicarbonic diamide [(H2N)C(S)]2S2, tetramethyl-
U244	Thiram
U246	Cyanogen bromide (CN)Br
U247	Benzene, 1,1'-(2,2,2-trichloroethylidene)bis[4-methoxy-

EPA HAZARDOUS WASTE CODES

Code	Waste description
U247	Methoxychlor
U248	2H-1-Benzopyran-2-one, 4-hydroxy-3-(3-oxo-1-phenyl-butyl)-, & salts, when present at concentrations of 0.3% or less
U248	Warfarin, & salts, when present at concentrations of 0.3% or less
U249	Zinc phosphide Zn3P2, when present at concentrations of 10% or less
U271	Benomyl
U278	Bendiocarb
U278	1,3-Benzodioxol-4-ol, 2,2-dimethyl-, methyl carbamate
U279	Carbaryl
U279	1-Naphthalenol, methylcarbamate
U280	Barban
U280	Carbamic acid, (3-chlorophenol)-, 4-chloro-2-butynyl ester
U328	Benzenamine, 2-methyl-
U328	o-Toluidine
U353	Benzenamine, 4-methyl-
U353	p-Toluidine
U359	Ethanol, 2-ethoxy-
U359	Ethylene glycol monoethyl ether
U364	1,3-Benzodioxol-4ol, 2,2-dimethyl
U364	Bendiocarb phenol
U367	7-Benzofuranol, 2,3-dihydro-2,2-dimethyl-
U367	Carbofuran phenol
U372	Carbamic acid, 1H-benzimidazol-2-yl, methyl ester
U372	Carbendazim
U373	Carbamic acid, phenyl-, 1-methylethyl ester
U373	Propham
U387	Carbamothiocic acid, dipropyl-, S-(phenylmethyl) ester
U387	Prosulfocarb
U389	Triallate
U389	Carbamothiocic acid, bis (1-methylethyl)-, S-(2,3,3-trichloro-2propenyl) ester
U394	Ethanimidothioic acid, 2-(dimethylamino)-N-hydroxy-2-oxo, methyl ester
U394	A2213
U395	Diethylene glycol, dicarbamate
U395	Ethanol, 2, 2;-oxybis-,dicarbamate
U404	Ethanamine, N, N-diethyl-
U404	Triethylamine
U408	2,4,6-Tribromophenol
U409	Thiophanate-methyl
U409	Carbamic acid, (1,2-phenylenebis (iminocarbonothioyl)]bis-, dimethyl ester
U410	Ethanimidothioci acid, N, N'-(thiobis[(methylimino)carbonyloxy])bis-, dimethyl ester
U411	Propoxur
U411	Phenol, 2-(-1-methylethoxy)-, methylcarbamate

APPENDIX E

STATE GUIDANCE

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STATE GUIDANCE

The Environmental Protection Agency, Office of Solid Waste provides guidance to the implementers (States and Regions) to determine which reported waste should be included in the National Hazardous Waste Biennial Report (NBR). It is the responsibility of each implementer to determine which sites and wastes should be included in the NBR. Implementers indicate which sites and wastes are to be included in the NBR by setting "include in national report" flags. These flags exist at both the site level and waste level. Implementers may submit sites and waste streams that are not included in the NBR. An implementer's complete submission, regardless of whether the site and/or waste stream is marked for inclusion in the NBR, is stored in RCRAInfo.

A site should be included in the NBR if that site was a Large Quantity Generator (based on the federal definition) or a Treatment, Storage or Disposal Facility (TSDF) in calendar year 2003, regardless of the site's current generator and/or TSDF status. The Site ID Form generator status boxes (Item 10.A.1.a, b, or c) and TSDF status box (Item 10.A.3) indicate the site's generator status and TSDF status on the date that the biennial report submission was certified (Item 13). It is possible that a site's generator and/or TSDF status was different in calendar year 2003 than it was at the time of the biennial report submission certification.

Once a site is determined to meet the criteria for inclusion in the NBR, each waste stream reported by that site should be reviewed to determine whether that waste should be included in the NBR. Items to review include: 1) foreign exports, 2) on-site management without a RCRA permit, and 3) wastewaters.

The *2003 Hazardous Waste Report Instructions and Forms* says "RCRA hazardous wastes exported directly to a foreign country **should not be reported** on Form GM. Rather, hazardous waste exports should be reported on the Annual Report required under 40 CFR 262.56." Some implementers require reporting of wastes exported to foreign countries. In these cases, waste shipped off-site to foreign countries should be marked for inclusion in the NBR.

Treatment, storage and disposal activities generally require a federal RCRA permit allowing a site to conduct various TSD activities. However, there are treatment and recycling activities that do not require a RCRA permit. Regardless of whether the TSD activity requires a RCRA permit or not, the management of this waste should be included in the NBR.

In general, wastewaters should be excluded from the NBR. Characteristics that often identify wastewaters include the following form codes and/or management methods.

Form Codes:

W101 Very dilute aqueous waste containing more than 99% water
W105 Acidic aqueous wastes less than 5% acid
W113 Other aqueous waste or wastewaters

Management Methods:

H071 Chemical reduction with or without precipitation
H073 Cyanide destruction with or without precipitation
H075 Chemical oxidation
H076 Wet air oxidation
H077 Other chemical precipitation with or without pre-treatment
H081 Biological treatment with or without precipitation

H082 Adsorption
H083 Air or steam stripping
H121 Neutralization only
H122 Evaporation
H123 Settling or clarification
H124 Phase separation
H129 Other treatment
H135 Discharge to sewer/POTW or NPDES

The *2003 Hazardous Waste Report Instructions and Forms* contains the following additional instructions regarding the reporting of wastewaters:

> Following are the materials and wastes addressed under 40 CFR 261.4(a) and (b) and 261.5(c), which **should not be reported** on Form GM:
>
> - Materials which are excluded from being a solid waste, e.g., any mixture of domestic sewage and other wastes that pass through a sewer system to a publicly owned treatment works (unless they are stored or treated in regulated units prior to being discharged). (40 CFR 261.4(a))
>
> - Wastes managed immediately upon generation only in on-site elementary neutralization units, wastewater treatment units, or totally enclosed treatment facilities as defined in 40 CFR 260.10. (40 CFR 261.5(c)(2)) **Any hazardous waste residues generated from these units, however, must be reported on Form GM.**

Wastes exhibiting wastewater characteristics (i.e., form code of W101, W105, or W113) that are managed via deepwell or underground injection (H134) should be included in the NBR.

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UNITED STATE ENVIRONMENTAL PROTECTION AGENCY
SOLID WASTE AND EMERGENCY RESPONSE (5305W)
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