

Commonwealth of Virginia

Department of Environmental Quality

Solid Waste Managed in Virginia
During Calendar Year 2007



June 2008

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Solid Waste Managed in Virginia During Calendar Year 2007

EXECUTIVE SUMMARY

Section 10.1-1413.1 of the Code of Virginia requires the Department of Environmental Quality (Department) to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. Facilities that have solid waste management permits are required to provide the Department with information to prepare this report. As of May 5, 2008, one hundred ninety-four (194) permitted facilities and one facility with an emergency permit (EMG) provided information on their activities for calendar year 2007 for this report. One permitted facility did not provide any information.

Based on the facilities' reports (excluding the EMG), a total of 23,389,378.84 tons of solid waste was received at Virginia's permitted solid waste management facilities during calendar year 2007. Of this total, 16,245,464.77 tons originated in the Commonwealth and 7,143,914.07 tons originated from other jurisdictions.

Municipal solid waste (MSW) constituted 15,887,570.69 tons of the total amount of solid waste received during calendar year 2007. Of the total MSW received 10,279,978.98 tons originated in the Commonwealth and 5,607,591.71 tons originated from other jurisdictions.

Five jurisdictions accounted for 96.80% of all waste received from out-of-state sources: Maryland (42.55%); New York (24.04%); Washington, D.C. (16.59%); North Carolina (7.24%); and New Jersey (6.38%).

During calendar year 2007, the total solid waste, MSW, and Construction/Demolition/Debris (CDD) received from out-of-state decreased by 1.84%, 2.38%, and 10.91% respectively, compared to 2006 amounts. For Virginia sources during the same period, the total solid waste and MSW received decreased by 9.06% and 6.75% respectively, compared to 2006 amounts. For Virginia sources during the same period, the total CDD waste received increased by 2.24%, compared to the 2006 amount.

Of the solid waste managed in Virginia during the year (excluding the one EMG report), 82.39% or 15,980,327.88 tons was landfilled, 11.00% or 2,134,428.41 tons was incinerated, and the rest was managed by other means (see Table 3). Of all solid waste received at Virginia facilities during the year, 67.93% was MSW, 18.45% was CDD waste, and the remainder was other types of waste.

Permitted solid waste management facilities reported that 5.20% of the waste they managed was diverted from disposal by recycling or mulching. Most recycling occurs at facilities other than permitted waste management facilities. Local governments provide more complete information on the recycling of waste generated in Virginia. Based on the local government recycling reports, the statewide average recycling rate for calendar year 2006 was 38.4%, a 6.2% increase from 2005. See

http://www.deq.virginia.gov/export/sites/default/recycle/documents/RRRCY2006_000.pdf

A report on the statewide recycling rate for calendar year 2007 will be issued later this year.

Permitted facilities were required to report on their available capacity and the expected life of the facilities based on current disposal rates. This information shows that at current rates, the remaining available landfill capacity is as follows: MSW – 17.7 years; CDD – 12.9 years; and non-captive industrial – 33.0 years. These projections do not account for population increases, changes in waste generation or disposal rates, or the closing of older MSW disposal units pursuant to statute.

The statute provides that, at the option of the facility owner, the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. Twelve (12) facilities provided such information for calendar year 2007.

The Department received one report from an EMG issued in 2006. The EMG was issued to handle Tropical Storm Ernesto debris. Thirty-eight (38) tons of the vegetative/yard waste debris collected and stored was not disposed of until 2007.

Solid Waste Managed in Virginia During Calendar Year 2007

I. Introduction

This report has been prepared in accordance with Virginia Code § 10.1-1413.1, which requires the Department to prepare a report by June 30 of each year describing the amount of solid waste disposed of in the Commonwealth during the preceding calendar year. All permitted facilities (except for captive waste management facilities) that treat, store, or dispose of solid waste are required to provide the Department with information in their possession as is reasonably necessary for the Department to prepare this report. The statutory reporting requirements are provided in the Virginia Administrative Code, 9VAC20-80-115.

II. Reporting Procedures

For each category of solid waste, permitted solid waste facilities in Virginia were asked to report the amount of waste that they received, the method by which the waste was managed, the jurisdiction where the waste originated, if known, and the facility's remaining capacity. A copy of the reporting table and instructions for furnishing information to the Department are provided as Attachments 1 and 2, respectively.

The facilities identified amounts of solid waste by each of the following categories:

- municipal solid waste (MSW);
- construction/demolition/debris (CDD);
- industrial waste;
- regulated medical waste (RMW);
- vegetative and yard waste (VW/YW);
- incineration ash;
- sludge other than is land applied in accordance with VA Code §62.1-44.19:3;
- tires;
- white goods (e.g., refrigerators, washing machines);
- friable asbestos;
- petroleum-contaminated soil (PCS); and
- other waste.

The facilities also reported on each of the following methods of waste management:

- recycled on-site;
- composted on-site;
- landfilled on-site;
- incinerated on-site;
- sent off-site to be recycled;

- sent off-site to be treated, stored or disposed (TSD);
- stored on-site at the beginning of the reporting period;
- stored on-site at the end of the reporting period;
- mulched; and
- other.

For the third year, facilities were able to submit data on-line. Facilities may log on-line at the Virginia Solid Waste Information and Assessment (SWIA) page to submit data at <https://www.deq.virginia.gov/SWIAWebApp/login.jsp>. For the facilities that provided information, 48% (93 facilities) submitted hard copies and 52% (101 facilities) submitted on-line. One permitted facility did not submit any data. This facility collects and transfers electronic waste for recycling. In CY 2006, the total amount of waste managed by this facility was less than 0.004% of the total waste received by all facilities. The Solid Waste Information and Assessment on-line application requires that certain fields are filled before the data is submitted to DEQ. The instructions for the on-line and hard copy form are Attachment 2.

This report does not capture all of Virginia's waste management activities because all captive waste management facilities are statutorily exempt from the reporting requirements. A captive facility is one that is located on property owned or controlled by the generator of the waste. Most captive waste management facilities in Virginia are industrial landfills. As a result, the reported amounts of industrial waste and sludge represent only the portion that is managed in off-site facilities. In addition, this report does not reflect tires managed under the Waste Tire Trust Fund at facilities that do not require a permit. Stored waste resulting from Tropical Storm Ernesto managed in 2007 at a facility with an emergency permit is treated separately in this report and addressed in Part VII, unless otherwise indicated.

Permitted solid waste management facilities reported that 5.20% of the waste they managed was diverted from disposal by recycling or mulching. Most recycling occurs at facilities other than permitted waste management facilities. Local governments provide more complete information on the recycling of waste generated in Virginia. Based on the local government recycling reports, the statewide average recycling rate for calendar year 2006 was 38.4%. This is a 6.2% increase over calendar year 2005. See http://www.deq.virginia.gov/export/sites/default/recycle/documents/RRRCY2006_000.pdf. A report on the statewide recycling rate for calendar year 2007 will be issued later this year.

III. Receipt of Assessment Reports

By regulation, facilities must submit their reporting tables by March 31 of each year. Facilities are required to submit a separate reporting table for each jurisdiction from which they received waste during the prior year. Information from reporting tables received on or before May 5, 2008, has been included in this report. One hundred ninety-four (194) facilities reported on their activities for calendar year 2007. Last year, 195 facilities reported on their activities for calendar year 2006. For a list of the facilities reporting this year, see Attachment 3. These facilities submitted 342 separate reporting tables, representing waste received from 29 states (including Virginia) and Washington, D.C.

IV. Discussion of Reported Waste Management Activities

Table 1 summarizes the quantities of waste that facilities received and managed during calendar year 2007 by waste type and waste management method. As shown in the table, 23,389,378.84 tons of solid waste were received at Virginia's permitted solid waste management facilities during calendar year 2007. Municipal solid waste (MSW) constituted 15,887,570.69 tons of the total amount of solid waste received.¹

The column of Table 1 entitled "Landfilled On-Site" indicates the quantity of solid waste disposed of at permitted solid waste landfills in the Commonwealth during calendar year 2007. The amount of solid waste landfilled during the year was 15,980,327.88 tons. This decrease of 5.73% from the 16,951,267.30 tons was landfilled in calendar year 2006. The other columns of Table 1 indicate the quantity of waste managed by other methods.

Table 2 shows the quantities of solid wastes imported from outside Virginia. Five jurisdictions accounted for 96.80% of all waste received from out-of-state sources: Maryland (42.55%); New York (24.04%); Washington, D.C. (16.59%); North Carolina (7.24%); and New Jersey (6.38%). See also Table 5.

Table 3 shows the percentage of each method of solid waste management. Waste that was stored at the facilities at the beginning of the year (95,942.95 tons), and waste that was sent off-site for treatment, storage or disposal (4,509,866.76 tons) is not included in the basis for calculating percentages for Figure 1.² Waste stored on-site at the beginning of the year is similar to waste received and is not considered a management method. Waste that was simply sent off-site to another permitted Virginia facility for treatment storage or disposal would also be included in the receiving facility's reporting tables. Based on the management methods included in Table 3, the majority of solid waste managed in the Commonwealth during the year was landfilled on-site (82.39%) or incinerated (11.00%). Lesser amounts were reported as managed by recycling on-site and off-site (3.65%), mulched (1.56%), composted on-site (0.68%), or stored on-site at the end of the year (0.46%), or other methods (0.26%).

Table 4 shows the composition of the solid waste stream. Of all solid waste received at Virginia facilities in calendar year 2007, 67.93% was MSW, 18.45% was CDD waste, and the remainder was other types of waste. These include industrial waste (4.49%), incineration ash (2.68%), VW/YW (2.47%), "other waste" (1.47%), and sludge (1.20%).

Table 5 shows the total quantity of waste received from the top five individual out-of-state jurisdictions. See Table 2 for details on waste received from out-of-state jurisdictions.

¹ When referring to information from Table 1, "waste received" refers to information from the first column, and "waste managed" refers to information from the remaining columns (except as noted). The amount of waste "received" for each type of waste may not match the sum of the reported amounts identified for each method of waste management. This reflects information as submitted by facilities in the reporting tables. In particular, incinerators may properly include the ash that they generate as waste that is "sent off site," and not include it as waste that is "received" at that facility.

² Accounting for those two exceptions, the basis for these percentages of waste managed is 19,396,688.31 tons.
Solid Waste Managed in Virginia – 2007

Figure 1 compares the amount of waste received at facilities from out-of-state jurisdictions to the amount received from Virginia during calendar year 2007. Of the total amount of solid waste received (23,389,378.84 tons), about 16,245,465 tons originated in the Commonwealth, and 7,143,914 tons originated from other jurisdictions. Thus, of all the waste received at Virginia facilities in 2007, 30.54% originated from other jurisdictions. Of the total MSW received (15,887,570.69 tons), about 10,279,979 tons originated in the Commonwealth, and 5,607,591.71 tons originated from other jurisdictions. Of the total CDD received (4,314,467.20 tons), about 3,376,383 tons originated in the Commonwealth, and about 938,084 tons originated from other jurisdictions.

Figure 2 shows a comparison of total solid waste received in 2001 through 2007 for both Virginia and out-of-state sources. Figure 3 shows the same comparison for MSW. The total amount of solid waste received at facilities during 2007 decreased by 6.97% (1,751,989.65 tons) over 2006 amounts. For out-of-state sources during calendar year 2007, the total waste decreased 1.84% (133,898.76 tons), MSW decreased by 2.38% (136,967.48 tons), and CDD decreased by 10.91% (114,849.94 tons) over 2006 compared to 2006. For Virginia sources during the same period, the total solid waste and MSW decreased by 9.06% (1,618,090.89 tons) and 6.75% (744,443.68 tons) respectively. CDD waste increased by 2.24% (73,961.10 tons).

This report does not reflect the amount of solid waste exported from Virginia to other states. The Department regulates only the treatment, storage, and disposal of solid waste within the Commonwealth. Virginia facilities and waste generators are not required to submit information on the amount of solid waste exported to other states.

V. Capacity Information

Permitted facilities that treat, store, or dispose of solid waste were required to report on their available capacity and the expected life of the facilities at the current disposal rates. This information is summarized in Attachment 4.³ MSW landfills reported a total available capacity of 238,019,848.02 tons and a current disposal rate of 13,484,942.05 tons per year. Thus, at the current disposal rate, there would be approximately 17.7 years of available MSW landfill capacity in the Commonwealth. This calculation does not account for population changes, changes in waste generation or disposal rates, or the future closings of older MSW disposal units under Va. Code § 10.1-1413.2. Nor does it include facilities for which permits may have been issued, but that have not yet been built and are not accepting waste. Last year, it was reported that there were approximately 17.3 years of remaining MSW disposal capacity. Three older MSW landfills stopped receiving waste as of December 31, 2007. One new MSW landfill opened in 2007 and began receiving waste. See Attachment 4 for details.

CDD landfills reported a total available capacity of 26,564,604.00 tons and a current disposal rate of 2,053,665.79 tons per year. At the current disposal rate, there would be

³ Facilities reported available capacity in tons and in cubic yards. The available capacity has been estimated using the following conversion factors: 1000 lbs. of MSW = 1 cu. yd.; 1200 lbs. of CDD waste = 1 cu. yd., and 1000 lbs. of industrial waste = 1 cu. yd. The available capacity for individual facilities may vary, depending on factors such as a facility's compaction rate and use of daily cover materials. The last column in Attachment 6 gives the reported remaining life as estimated by individual facilities.

approximately 12.9 years of available CDD landfill capacity in the Commonwealth. Last year, it was reported that there were approximately 8.9 years of remaining CDD disposal capacity. A major permit amendment for an existing CDD landfill received approval in 2007. This amendment added approximately 8,500,000 tons of available capacity.

For non-captive industrial landfills, there are 13,409,437.10 tons of available capacity and a current disposal rate of 405,884.89 tons per year (approximately 33.0 years of remaining capacity). Last year, it was reported that there were approximately 38.8 years remaining capacity for non-captive industrial facilities.

VI. Reports of Economic Benefits

The statute provides that, at the option of the facility owner, the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. This may include the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year. Twelve (12) facilities provided such information for calendar year 2007. See Attachment 5 for details.

VII. Emergency Permit No. 447

In 2006, the Department issued an emergency permit to handle debris from Tropical Storm Ernesto. As of December 2006, all of the storm debris was managed except for 38 tons of debris stored on-site. This debris was open burned during 2007.

Table 1 – Solid Waste Managed in Virginia – 2007 (in Tons)

Waste Type	Waste Received ⁴	Recycled On-Site ⁵	Composted On-Site	Landfilled On-Site	Incinerated On-Site	Sent off-Site to be Recycled	Sent Off-Site to be TSD	Stored On-Site Beginning of Year	Stored On-Site End of Year	Mulched	Other ⁶
Municipal Solid Waste	15,887,570.69	0.00	0.00	10,450,274.79	2,110,976.00	68,770.13	3,251,519.64	6,542.00	13,273.00	0.00	23.00
Construction/Demolition/Debris	4,314,467.20	161,573.24	36.00	3,295,812.56	717.60	114,373.37	716,399.90	14,769.37	11,482.00	17,738.64	11,103.26
Industrial Waste	1,050,478.16	28,185.09	77.60	944,820.28	7,045.11	2,199.16	65,183.88	7,824.00	10,791.04	0.00	0.00
Regulated Medical Waste	12,980.27	0.00	0.00	0.00	0.00	0.00	10,636.76	0.00	0.00	0.00	2,343.51
Vegetative/Yard Waste	578,713.95	0.00	113,516.40	52,647.82	14,101.93	92,620.97	18,475.58	43,574.88	37,651.64	282,492.50	10,761.09
Incineration Ash	626,538.33	0.00	0.00	626,498.33	0.00	0.00	396,507.49	0.00	0.00	0.00	0.00
Sludge	281,595.09	7,554.62	16,638.01	253,918.95	0.00	0.00	2,902.39	0.00	575.12	0.00	0.00
Tires	56,787.85	380.40	0.00	5,471.60	0.00	17,606.82	31,439.96	2,245.30	2,354.37	0.00	1,786.00
White Goods	39,644.85	0.00	0.00	12.00	0.00	39,239.42	370.53	289.35	372.25	0.00	0.00
Friable Asbestos	7,356.58	0.00	0.00	7,336.58	0.00	0.00	20.00	0.00	0.00	0.00	0.00
Petroleum Contaminated Soil	189,535.33	20,292.18	0.00	148,776.40	0.00	10,118.00	1,349.30	16,996.87	9,395.76	0.00	16,600.56
Other Waste	343,710.55	41,067.39	1,535.00	194,758.57	1,587.77	103,690.49	15,061.33	3,701.18	4,125.03	1,593.60	7,995.36
Total	23,389,378.84	259,052.92	131,803.01	15,980,327.88	2,134,428.41	448,618.36	4,509,866.76	95,942.95	90,020.21	301,824.74	50,612.78

⁴ The amount of “Waste Received” and “Stored On-Site at the Beginning of the Year” may not precisely match the sum of the reported amounts for the remaining columns (i.e., each method of managing the waste). This difference reflects information submitted in the reporting tables. In particular, incineration ash generated by an energy recovery facility or incinerator may be listed as “sent off site to be treated, stored, or disposed” even though it was not “received” as ash at that facility. The total waste managed may be greater than the waste received due to ash generated at a facility. VW/YW may be composted to produce a product that is not managed as waste.

⁵ The majority of recycling takes place at facilities that do not require a permit from the Department and were not required to submit data for this report. Therefore, the amounts shown in this column represent a substantial underestimate of the true recycling rate in the Commonwealth. Based on the local government recycling reports, the statewide average recycling rate for calendar year 2006 was 38.4%. This is a 6.2% increase from 2005. A report on the statewide recycling rate for calendar year 2007 will be issued later this year. See http://www.deq.virginia.gov/export/sites/default/recycle/documents/RRRCY2006_000.pdf

⁶ “Other” methods of management may include steam sterilization of medical waste, approved use of shredded tires at permitted facilities, and thermal treatment of PCS, among others.

Table 2 – Jurisdiction of Origin of Waste Received – 2007 (in Tons)

State / Possession	MSW	CDD	Industrial	RMW	VW/YW	Incin. Ash	Sludge	Tires	White Goods	Friable Asbestos	PCS	Other	Total Received
Arkansas	0.00	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	24.00
Connecticut	16,429.87	15.00	2,575.92	0.00	0.00	0.00	19.65	0.00	0.00	0.00	0.00	0.00	19,040.44
District of Columbia	1,092,370.68	81,939.27	6,083.30	0.00	153.00	0.00	746.12	47.72	3.00	555.44	2,544.66	951.25	1,185,394.44
Delaware	655.88	1,775.60	2,267.95	0.00	0.00	31.81	602.98	0.00	0.00	41.75	0.00	0.00	5,375.97
Florida	0.00	0.00	10.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.70
Georgia	838.52	0.00	17.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	38.60	894.52
Illinois	216.23	0.00	26.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	242.51
Indiana	10.67	0.00	7.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.40	27.35
Kentucky	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.60
Louisiana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.50
Massachusetts	7,084.64	64.86	98.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,247.94
Maryland	2,021,229.04	578,376.20	108,767.24	304.85	75.00	188,700.65	25,890.60	4,637.19	6.00	506.49	47,830.60	63,540.48	3,039,864.34
Maine	0.00	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.50
Michigan	0.00	0.00	51.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.00
Minnesota	0.00	0.00	8.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.03
Missouri	51.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	51.70
Mississippi	230.46	0.00	97.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	328.21
North Carolina	447,988.20	3,800.24	39,430.73	328.92	1.00	142.20	2,100.96	0.00	0.00	5.94	651.72	22,752.70	517,202.61
New Jersey	339,719.35	106,569.88	5,968.32	0.00	0.00	0.00	3,196.13	0.00	0.00	0.00	27.60	0.00	455,481.28
Nevada	0.00	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00	21.10
New York	1,594,230.65	58,966.54	10,730.41	0.00	0.00	0.00	53,611.80	0.00	0.00	0.00	53.22	21.90	1,717,614.52
Ohio	7.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	7.68
Pennsylvania	1,006.20	103,929.61	254.89	0.00	0.00	0.00	0.00	24.59	0.00	114.22	0.00	53.00	105,382.51
Rhode Island	8.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.70
South Carolina	938.58	0.00	65.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.85	1,022.43
Tennessee	43,587.69	2,646.69	99.83	6.90	580.53	0.00	162.15	252.26	0.00	0.00	0.00	79.57	47,415.62
Texas	0.00	0.00	22.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	31.90	54.71
West Virginia	40,987.03	0.00	46.15	73.80	0.00	0.00	26.18	0.00	0.00	0.00	0.00	4.00	41,137.16
Miscellaneous *	157.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20,757.84	20,915.54
* Waste received from Canada, Mexico, throughout the United States, Central America, and South America.													
Total for Other States	5,607,591.71	938,083.89	176,640.53	714.47	809.53	188,874.66	86,356.57	4,961.76	9.00	1,223.84	51,107.80	87,540.31	7,143,914.07
Total for Virginia	10,279,978.98	3,376,383.31	873,837.63	12,265.80	577,904.42	437,663.67	195,238.52	51,826.09	39,635.85	6,132.74	138,427.53	256,170.24	16,245,464.77
Total for all States	15,887,570.69	4,314,467.20	1,050,478.16	12,980.27	578,713.95	626,538.33	281,595.09	56,787.85	39,644.85	7,356.58	189,535.33	343,710.55	23,389,378.84

Table 3 – Methods of Solid Waste Management – 2007 (in Tons)

Methods of Solid Waste Management		
	Amount Managed (in Tons)	Percentage
Landfilled On-Site	15,980,327.88	82.39%
Incinerated On-site	2,134,428.41	11.00%
Sent Off-Site to be Recycled	448,618.36	2.31%
Mulched	301,824.74	1.56%
Recycled On-Site	259,052.92	1.34%
Composted On-Site	131,803.01	0.68%
Stored On-Site End of Year	90,020.21	0.46%
Other	50,612.78	0.26%
Sum for all waste management	19,396,688.31	

Note: The basis for determining these percentages is the sum for all methods of waste management (recycled, composted, landfilled, etc.) in Table 1, with the exception of: (1) waste stored on-site at the beginning or the year (which is similar to waste received) and (2) waste that was sent off-site for treatment, storage or disposal (i.e., waste that was simply transferred to another facility for ultimate management). Accounting for those two exceptions, the basis for these percentages is 19,396,688.31 tons. Most recycling occurs at facilities other than permitted waste management facilities. As a result, more accurate recycling information is reported by localities. Based on the local government recycling reports, the statewide average recycling rate for calendar year 2006 was 38.4%. See http://www.deq.virginia.gov/export/sites/default/recycle/documents/RRRCY2006_000.pdf A report on the statewide recycling rate for calendar year 2007 will be issued later this year.

Table 4 – Composition of the Solid Waste Stream – 2007 (in Tons)

Composition of the Solid Waste Stream		
	Amount (in Tons)	Percentage
Municipal Solid Waste	15,887,570.69	67.93%
Construction/Demolition/Debris	4,314,467.20	18.45%
Industrial Waste	1,050,478.16	4.49%
Incineration Ash	626,538.33	2.68%
Vegetative/Yard Waste	578,713.95	2.47%
Other Waste	343,710.55	1.47%
Sludge	281,595.09	1.20%
Petroleum Contaminated Soil	189,535.33	0.81%
Tires	56,787.85	0.24%
White Goods	39,644.85	0.17%
Regulated Medical Waste	12,980.27	0.06%
Friable Asbestos	7,356.58	0.03%
Total	23,389,378.84	

Table 5 –Waste Received from Out-of-State Jurisdictions – 2007 (in Tons)

Top 5 States

State	Tons	Percentage
Maryland	3,039,864.34	42.55%
New York	1,717,614.52	24.04%
District of Columbia	1,185,394.44	16.59%
North Carolina	517,202.61	7.24%
New Jersey	455,481.28	6.38%
Total	7,143,914.07	96.80%

Note: See Table 2 for more details.

Figure 1 – Solid Waste Received from Virginia and Other Jurisdictions – 2007 (in Tons)

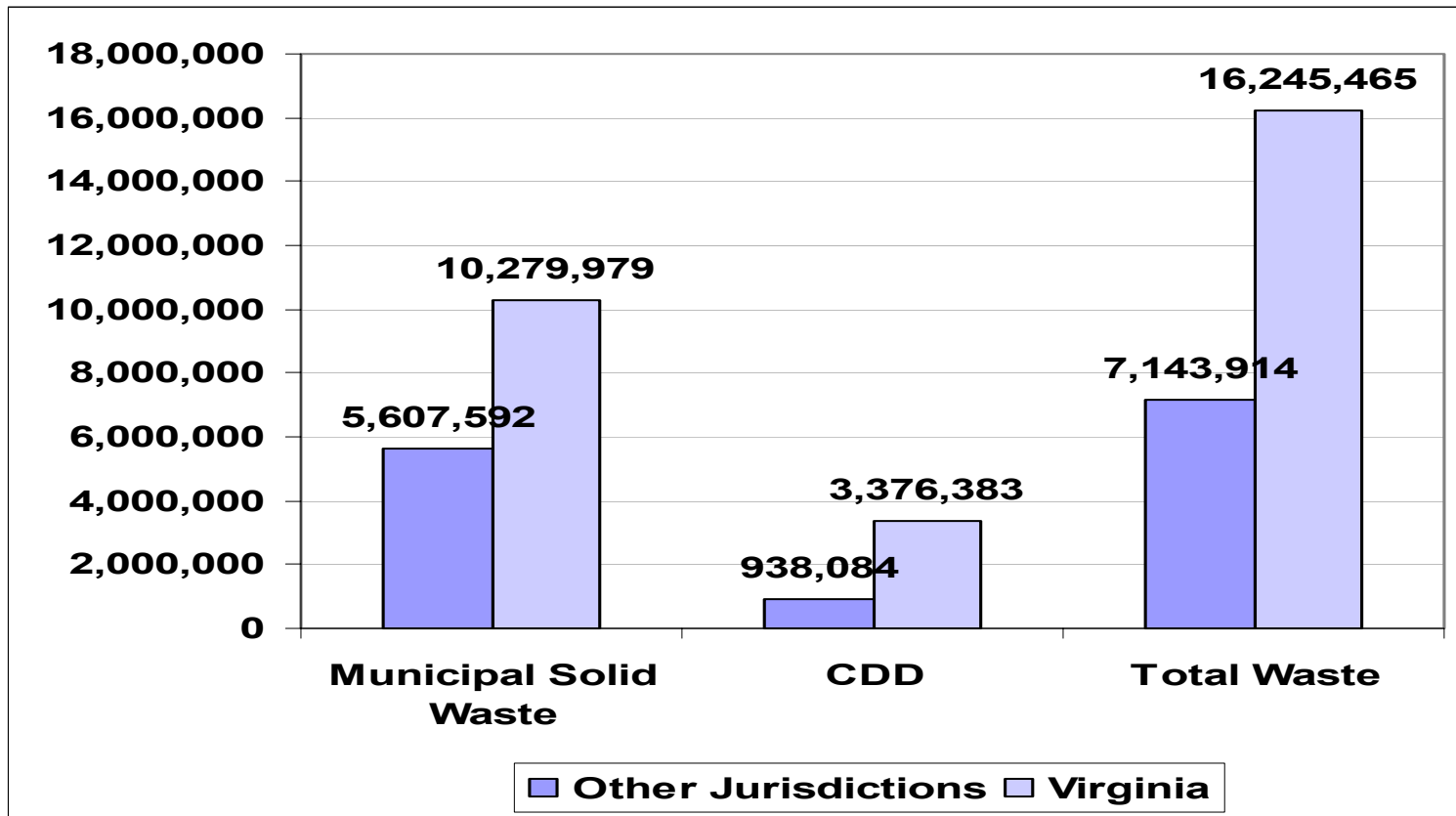


Figure 2 – Total Solid Waste Received from 2001 through 2007

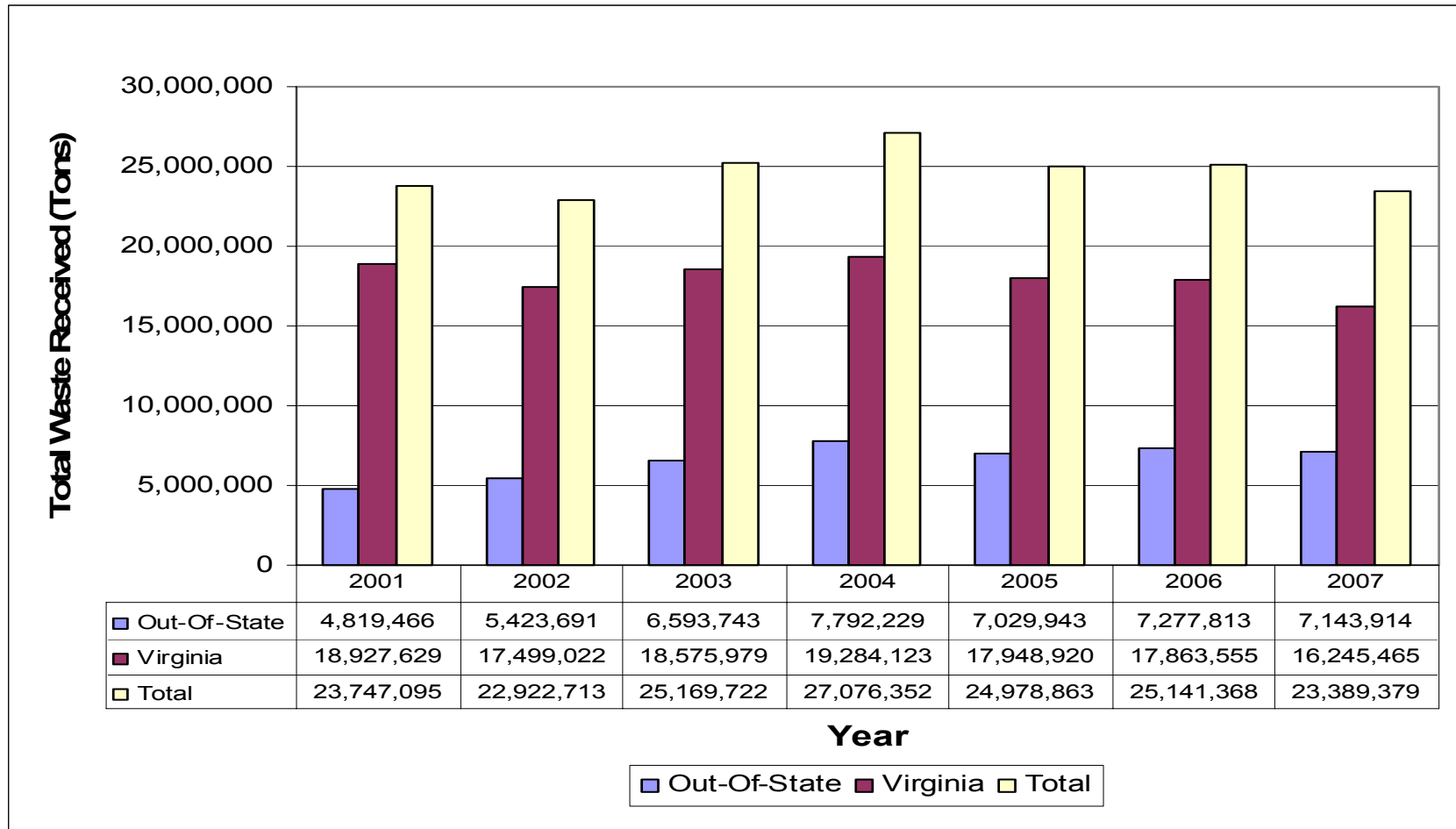
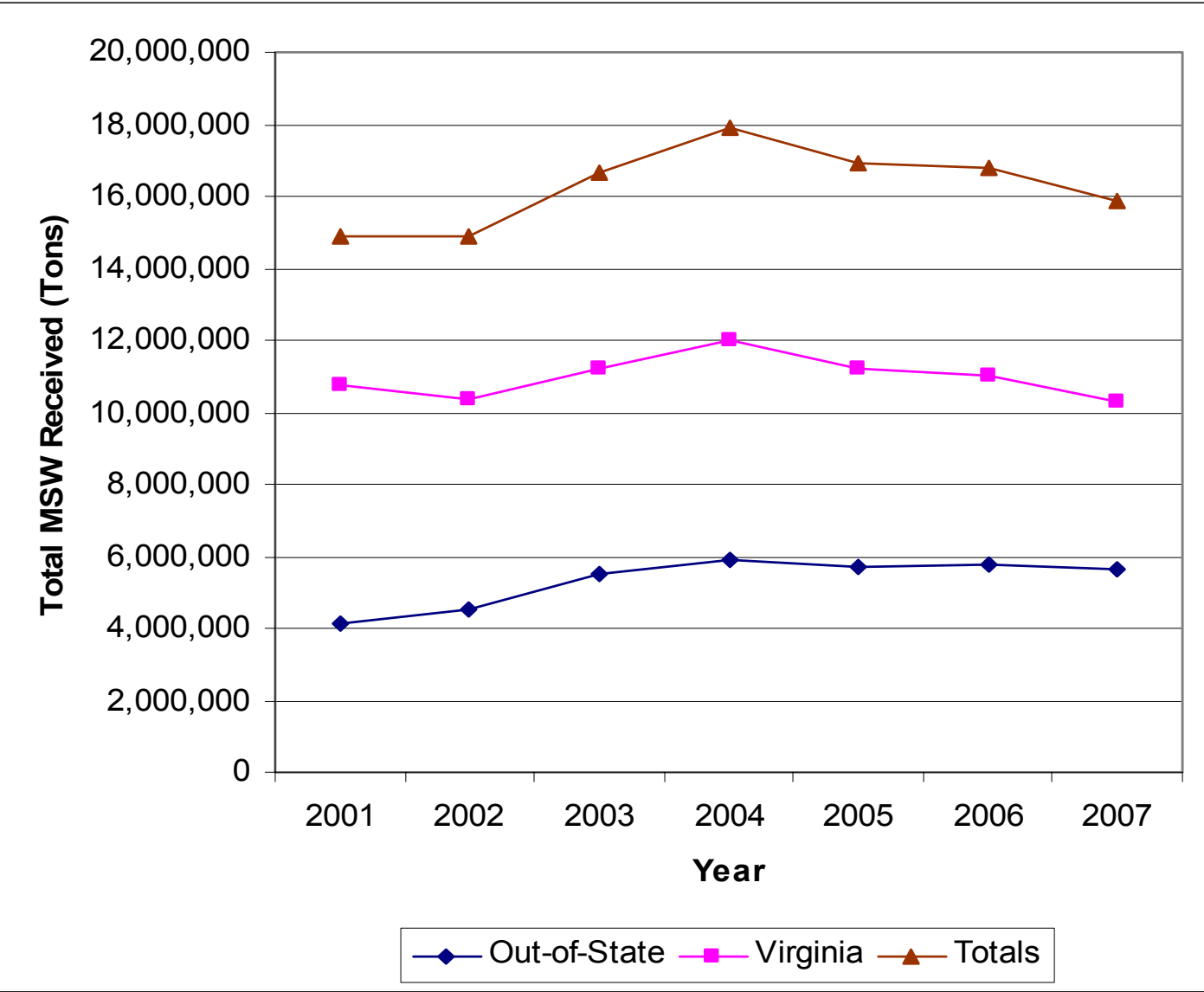


Figure 3 – Municipal Solid Waste Received from 2001 through 2007



Attachment 1 - Reporting Table

SOLID WASTE INFORMATION AND ASSESSMENT PROGRAM REPORTING TABLE - FORM DEQ 50-25

1	Facility Name											
2	Permit Number			3 Date Submitted to DEQ				4 Annual Reporting Period				
5	Preparer's First Name			Middle Initial	Last Name			6 Telephone				
7	Preparer's E-mail Address <small>An email address will be used to contact you in case of questions about this form submission.</small>											
8	Has there been a change to the Annual Fee Billing Contact, Address or Telephone Number? <input type="checkbox"/> Y <input type="checkbox"/> N											
	Contact First Name			Last Name			Contact Phone					
	Address											
	City				State			Zip Code				
9	Remaining Permitted Capacity			Cubic Yards		If a facility's permitted capacity is reported in tons, please note this below in General Comments. DEQ will apply conversion factors based on the type of waste in order to calculate the volume and the number of years of permitted capacity available in the state.						
10	Expected Remaining Permitted Life			Years								
Waste amounts measured in : <input type="checkbox"/> Tons or <input type="checkbox"/> Cubic Yards												
11	Originating Jurisdiction					11A Statement of Economic Benefits submitted? <input type="checkbox"/> Y <input type="checkbox"/> N						
	Waste Type	Total Amount of Waste Received (a)	Recycled On-Site (b)	Composted On-site (c)	Landfilled On-site (d)	Incinerated On-Site (e)	Sent Off-Site to be:		Stored On-Site:(g)		Other (h)	
							Recycled (f)	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period	Mulched	Other Than Mulched
12	Municipal Solid Waste											
13	Construction/ Demolition/Debris											
14	Industrial Waste											
15	Regulated Medical Waste											
16	Vegetative/Yard Waste											
17	Incineration Ash											
18	Sludge											
19	Tires											
20	White Goods											
21	Friable Asbestos											
22	Petroleum Contaminated Soil											
23	Other Wastes (specify)											
24	Total											
General Comments												

Complete a separate form for each jurisdiction.
See the instructions for completing Form DEQ 50-25. A separate form is provided for the optional Statement of Economic Benefits.

Revised 10/15/2007

Attachment 2 - Instructions for Completing Form DEQ 50-25 Solid Waste Information and Assessment Program Reporting Form

These on-line instructions are designed to assist facilities with completing the required reporting form DEQ Form 50-25. A copy of each form submitted should be maintained in your facility files. The items are numbered to correspond to the numbered fields on Form DEQ 50-25. The on-line form users are advised to follow the order provided below for entering the data.

IMPORTANT: Please note that once a SWIA form is **submitted successfully** on-line AND received by DEQ with a valid facility contact e-mail address, a confirmation e-mail will be sent immediately to the facility e-mail address. In the event that an e-mail message **is not received** from DEQ, please send an e-mail stating the facility name and the permit number to swia@deq.virginia.gov for immediate assistance.

If you would like to provide any additional information, please use the general comment field on bottom of the form. Please follow the instructions for format details for data entry.

After entering the data for each jurisdiction, press "Submit" button (bottom of the form). To add data for another Jurisdiction, Press "Submit Another."

If you would like to edit or verify the data already submitted, you can log back into the SWIA application and you can view all the data submitted recently by Jurisdiction.

Please print a copy for your records and see item 25 for the details.

Facility login: Enter the permit number (i.e., SWP001, PBR965, EMG113), permit issue date (i.e., 05/17/1981) and the Pin Number assigned to your facility.

1. Facility Name - Automatically populated.

The facility name is populated automatically as entered on login screen.

2. Permit No. - Automatically populated.

3. Date submitted to DEQ - Automatically populated after document is submitted.

4. Annual Reporting Period - Automatically populated.

5. through 7. Preparer's Name, Telephone Number and E-Mail Address

This is the name, telephone number, and e-mail address of the person responsible for preparing the DEQ Form 50-25. Please enter the 10-digit telephone number (Example: 8040001234). The e-mail address will be used to acknowledge the information submitted to DEQ.

8. Billing Information Change

Select the "yes" or "no" button regarding any changes to the Annual Fee Billing Contact, Address, or Telephone Number information from that which appeared on the fee bill DEQ sent to your facility the previous year (2007). Update contact information with any changes. **Please enter the 10-digit telephone number (Example: 8040001234). The e-mail address will be used to acknowledge the information submitted to DEQ.**

9. Remaining Permitted Capacity - A maximum 10 numbers before the decimal point and 4 numbers after the decimal point is allowed. No commas (Example: 999999999.9999).

- Only required for landfills, all other facilities which do not include a permitted landfill leave blank – or enter “0.”
- Remaining Permitted Capacity means the space remaining in the landfill that is available for disposal as of December 31 of the reporting period (e.g. report the landfill space remaining, as determined for Dec. 31, 2007 for the 2007 reporting period, submitted to DEQ by March 31, 2008).
- Remaining Permitted Capacity Calculation:

$$\text{Remaining Permitted Capacity} = \text{Volume Specified in Part B Permit} - \text{Landfill Volume Already Used}$$

Report the capacity in cubic yards. If your facility reports this information in tons, DEQ will use simple conversion factors to obtain the capacity in cubic yards.

- Future proposed expansions not included in the approved Part B Permit area may not be included in this capacity calculation.
- This capacity information can also be obtained from the calculations performed to comply with air requirements found in 40 CFR Subpart WWW (40 CFR 60.750-60.759).

10. Expected Remaining Permitted Life (maximum 5 characters)

This information is only required for landfills. All other facilities enter "0" or leave blank. Based on your facility's site specific operating criteria (e.g. rate of filling the landfill), report the number of years of disposal capacity that is available (the number of years it will take for the landfill to reach 100% capacity and will no longer accept waste).

11. Originating Jurisdiction (i.e. state, territory or country) - Press "submit" button after entering data for each Jurisdiction

- Select the jurisdiction from which the waste originated.
- For waste received from within Virginia, only one form must be completed. Waste from other jurisdictions that passes through a Virginia transfer station and goes to a Virginia landfill for disposal is to be reported by jurisdiction on Form DEQ 50-25 for the transfer stations and is reported as having originated in Virginia at the final disposal site.
- For waste received from outside Virginia, a separate form must be completed for each jurisdiction from which the waste was received. A jurisdiction is either a state, territory, or country. (Example: If you receive waste from the state of New York, and/or New York City, the jurisdiction is "New York." Wastes received from Washington, D.C. and Puerto Rico, are all individual jurisdictions.)
- Stating that the waste originated in the United States does not meet the reporting requirements.

11A. Statement of Economic Benefits - At the option of the facility owner, §10.1-1413.1 of the Code of Virginia allows the submission of data regarding the economic benefits to the locality where the facility is located. A separate form is provided for this information. Check the yes or no box regarding the submittal of this optional information for the preceding calendar year. The form is [available for download](#).

Waste Information

This section reports the origin, types, and amounts of waste managed. Information must be provided concerning the originating jurisdiction of waste received. For this section, waste amounts can be entered either in tons or cubic yards, as preferred by the facility. For amounts reported in cubic yards, DEQ will use simple conversion factors to obtain estimated weights. Please specify reporting units under "General Comments."

****Waste Types** - Definitions are provided below to assist facilities with completing Form DEQ 50- 25. Specific definitions can be found in the Virginia Solid Waste Management Regulations (9 VAC 20-80-10) and the Regulated Medical Waste Regulations (9 VAC 20-120-10). Waste types are identified on separate rows (12 – 13) of Form DEQ 50-25.

Tire chips, mulch and other items that are used solely as alternate daily cover will not be reported on this form. Daily cover will not be considered a waste for the purpose of solid waste information assessment.

12. Municipal Solid Waste means waste which is normally composed of residential, commercial, and institutional solid waste and residues/ash derived from combustion/incineration of these wastes. NOTE: Paper and cardboard should be recorded in the row labeled "Municipal Solid Waste." Incinerated MSW must be reported as incinerator ash.

13. Construction/Demolition/Debris means construction waste, demolition waste, and/or debris waste. These wastes must be recorded cumulatively in this row.

- **Construction waste** means solid waste which is produced or generated during construction, remodeling, or repair of pavements, houses, commercial buildings, and other structures. Construction wastes include, but are not limited to lumber, wire, sheetrock, broken brick, shingles, glass, pipes, concrete, paving materials, and metal and plastics if the metal or plastics are a part of the materials of construction or empty containers for such materials. Paints, coatings, solvents, asbestos, any liquid compressed gases or semi-liquids and garbage are not construction wastes.
- **Demolition waste** means solid waste which is produced by the destruction of structures and their foundations and includes the same materials as construction wastes.
- **Debris waste** means wastes resulting from land clearing operations. Debris wastes include, but are not limited to stumps, wood, brush, leaves, soil, and road spoils. NOTE: Concrete and asphalt should be recorded in the row labeled "Construction/Demolition/Debris."

14. Industrial Waste means any solid waste generated by manufacturing or industrial process that is not a regulated hazardous waste. Such waste may include, but is not limited to, waste resulting from the following manufacturing processes: Electric power generation; fertilizer/agricultural chemicals; food and related products/by-products; inorganic chemicals; iron and steel manufacturing; leather and leather products; nonferrous metals manufacturing/foundries; organic chemicals; plastics and resins manufacturing; pulp and paper industry; rubber and miscellaneous plastic products; stone, glass, clay, and concrete products; textile manufacturing; transportation equipment; and water treatment. This term does not include mining waste and oil and gas wastes.

15. Regulated Medical Waste (RMW) means solid waste as defined in the Regulated Medical Waste Management Regulations (9 VAC 20-120-10). RMW that is treated on-site is reported in column (h) "Other Than Mulched." RMW medical waste that has been treated is municipal solid waste and should be reported on line 12 under column (f) "Sent Off site to be Treated, Stored or Disposed Captive RMW facilities (facilities that do not treat wastes from other businesses) are not required to report their waste management activities. Note: Regulated medical waste may not be disposed in a landfill, recycled, composted, or mulched. See the boxes below. Do not enter numbers in the boxes with an "X."

Regulated Medical Waste	Recycled On-site		Composted On-Site		Landfilled On-site		Incinerated On-site		Sent Off-Site:		Stored On-site		Other	
	Recycled On-site	Composted On-Site	Landfilled On-site	Incinerated On-site	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period	Mulched	Other Than Mulched				
	X	X	X		X				X					
	b	c	d	e	f		g		h					

16. Vegetative/Yard Waste means vegetative waste and yard waste. These wastes must be recorded cumulatively in this row.

- **Vegetative waste** means decomposable materials generated by yard and lawn care or land clearing activities and includes, but is not limited to, leaves, grass trimmings, woody wastes such as shrub and tree prunings, bark, limbs, roots, and stumps. For more detail see 9 VAC 20-101-10.
- **Yard waste** means that fraction of municipal solid waste that consists of grass clippings, leaves, brush, and tree prunings arising from general landscape maintenance.
- Vegetative waste/yard waste that has been open burned is reported in column (h) "Other Than Mulched." Do not report this amount in column (e) "Incinerated On-site."
- Any vegetative waste or yard waste remaining on-site at the end of the reporting year that has not been mulched, composted, or burned is reported in column (g) "Stored On-site" end of reporting period.

NOTE: Brush should be recorded in the row labeled "Vegetative/Yard Waste."

17. Incineration Ash means fly ash or bottom ash residual waste material produced from incineration or burning of solid waste. Coal ash is not reported on this row of the reporting table. Coal ash is reported as industrial waste, on line 14. **Facilities that incinerate or open burn waste should report the amount of ash generated on their report in the appropriate waste management column.** In the example below: 1,000 tons of MSW was received and incinerated; 250 tons of ash was produced and sent off-site to be treated, stored, or disposed.

Waste Type	Total Amount of Waste Received	Sent Off-Site to be:						
		Recycled On-Site	Composted On-site	Landfilled On-site	Incinerated on-Site	Recycled	Treated, Stored, Disposed	
		a	b	c	d	e	f	
12	Municipal Solid Waste	1,000				1,000		
17	Incineration Ash							250

Facilities that receive ash created at a Virginia permitted facility must list the ash as a Virginia jurisdiction.

18. Sludge means any solid, semi-solid or liquid waste generated from a municipal, commercial or industrial wastewater treatment plant, water supply treatment plant, or air pollution control facility exclusive of treated effluent from a wastewater treatment plant. For the purposes of this form, the waste type "Sludge" excludes sludge land applied in accordance with Va. Code §62.1-44.19:3.

19. Tires means whole tires that have been discarded because they are no longer suitable for their original intended purpose because of wear, damage, or defect. (See 9 VAC 20-150- for other definitions in the waste tire program.) Whole tires that have been ground into chips or shred should be reported as "Other Than Mulched" in column (h). Any allowable use of the tire chips either off site, or as daily cover on-site

should not be reported. If tire chips or shred are brought on-site as an alternative daily cover, they will not be reported on this form.

20. White Goods means any stoves, washers, hot water heaters, and other large appliances.

21 Friable Asbestos means any waste material containing more than 1% asbestos as determined using the polarized light microscopy methods specified in 40 CFR Part 763, Subpart F, Appendix A, Section 1, that, when dry, is capable of being crumbled, pulverized or reduced to powder by hand pressure.

Do not enter numbers in the boxes with an "X."

Friable Asbestos	Sent Off-Site:				Stored On-site		Other			
	Recycled On-site	Composted On-Site	Landfilled On-site	Incinerated On-site	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period	Mulched	Other Than Mulched
	X	X		X	X				X	
	b	c	d	e	f		g		h	

22. Petroleum Contaminated Soil means a soil that, as a result of a release or human usage, has absorbed or adsorbed only petroleum or petroleum by-products at concentrations above those consistent with nearby undisturbed soil or natural earth materials. Petroleum and petroleum by-products include, but are not limited to diesel fuels, kerosene, gasoline, hydraulic fluids, jet engine fuel, and motor oil.

23. Other Waste (specify) means any wastes that do not meet the previously defined waste types. A brief description of the waste must be provided in the field "Other Waste (specify)." Examples: Dirt and Soil, Inert waste, Rubber, Wood chips, Supplemental waste, etc. **The "Other Waste" field on-line is editable and allows for entry of multiple other wastes.** For the purpose of the standard form, please total all other wastes and provide that number on this line of the form.

24. Total means the total of the waste reported in that column of the table (Example: the total waste received, landfilled, incinerated etc.). **The on-line form calculates and returns the "Total" after the form is submitted for future review.**

****Waste Management-** Columns are used to identify how the waste types were managed. In most cases, the amount of waste received should equal the sum of the amounts managed by the listed methods (recycled, composted, landfilled, incinerated, sent off-site, etc.), except for waste stored on-site at the beginning of the reporting period. The following identifies the proper way to report how wastes were managed at your facility.

In general, the total waste received listed in column (a) plus the waste stored on-site at the beginning of the reporting period (g), should equal the total waste managed under each of the methods (b), (c), (d), (e), (f), and (h).

$$a + g (\text{Beginning of Reporting Period}) = b + c + d + e + f + h$$

Example:

Total Amount of Waste Received					Sent Off-Site:		Stored On-Site:		Other	
	Recycled On-Site	Composted On-site	Landfilled On-site	Incinerated on-Site	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period	Mulched	Other Than Mulched
a	b	c	d	e	f		g		h	
5,000			5,700				700			

Note in this example the 700 tons stored on-site at the beginning of the year was included in the total waste managed for the year.

An exception to this is if waste is generated at the facility. For example, an incinerator generates ash, but since the ash weighs less than the original waste that was brought to the site the equation above will not balance for an incinerator or some RMW treatment activities.

a) Total Amount of Waste Received - Enter number only (no commas or text).

All waste that was received by the facility during the Annual Reporting Period must be reported in this column.

b) Recycled On-Site - Enter number only (no commas or text).

Waste material that was removed from the incoming waste stream and processed into a raw material for a product must be reported on this column. Only consider items that are truly recycled, not reused. Recycled means "the process of separating a given waste material from the waste stream and processing it so that it may be used again as a raw material for a product, which may or may not be similar to the original product. Recycling shall not include processes that only involve size reduction." NOTE: Only report material that was both separated AND processed into a raw material at the facility. If the waste material was not separated AND processed, it may not be recorded as "recycled." (Example: Newspaper segregated from the waste stream and sent off-site to a processing facility for recycling should not be counted as recycled, by the reporting facility.) Other amounts may have been sent off-site for recycling or mulched, which are reported in different columns.

c) Composted On-Site - Enter number only (no commas or text).

Waste that was stabilized on-site through a controlled aerobic decomposition process must be reported in this column. Not all waste types can be composted. Regulated medical waste, incineration ash, tires, white goods, asbestos, and petroleum-contaminated soil cannot be managed through composting. For compost facilities, only the volume that could not be composted and was sent off-site for disposal should be recorded as "sent off-site". Composted material is considered a product, not a waste, and does not have to be reported on this form.

d) Landfilled On-Site - Enter number only (no commas or text).

Waste that was landfilled on-site must be reported in this column. Waste received at a facility that was later sent off-site for management through landfilling must not be reported in this column. Instead it must be reported in the "Sent Off-site to be: Treated/Stored/Disposed" column. Example: Waste received at a transfer station that was later sent off-site to a landfill must be reported as "Sent Off-site to be: Treated/Stored/Disposed." Regulated medical waste shall not be landfilled.

e) Incinerated On-Site - Enter number only (no commas or text).

Waste that was incinerated on-site must be reported in this column. Waste received at the facility but that was later sent off-site for incineration may not be reported in this column. Instead it must be reported in the "Sent Off-site to be: Treated/Stored/Disposed" column. Example: Waste received at a transfer station that was sent off-site to an incinerator must be reported as "Sent Off-site to be: Treated, Stored, or Disposed," not incinerated. NOTE: "Open Burning" is not the same as "Incineration." Waste that is open burned would be included in the "Other (Other Than Mulched)" column.

f) Sent Off-Site to be: - Enter number only (no commas or text).

Waste that was not treated, stored, or disposed of at the receiving facility but was instead sent off-site to another facility for management must be reported in this column. Example: Ash generated from an incinerator process sent off-site to be disposed must be listed in this column. The "Sent Off-site to be" column is divided into two sub-columns, "Recycled" and "Treated/Stored/Disposed." If waste is sent off-site for recycling (i.e., metals to be reclaimed or tires for shredding and used as fill), it should be reported in the

"Recycled" sub-column. If waste is sent off-site to be treated/stored/disposed it should be reported in the "Treated/Stored/Disposed" sub-column. If waste is sent off-site for purposes other than recycling or treatment/storage/disposal, then the "Other" sub-column would be used.

g) Stored On-Site - Enter number only (no commas or text)

This column is also divided into two sub-columns: "Beginning of Reporting Period" and "End of Reporting Period." Waste that was stored on-site as of January 1st in the reporting period is reported in the first sub-column. If no information is available, please refer to the last year's Solid Waste Information Assessment form to derive this information. Waste that was remaining on-site at the end of the reporting period must be recorded in the second sub-column. Such waste does not include wastes that will remain on-site permanently, but instead includes wastes that are stored temporarily at the facility (i.e., white goods awaiting pickup by off-site metal recycler; regulated medical waste in storage awaiting treatment). The total amount of waste landfilled at a facility must not be listed in this column; it must be listed in the "landfilled" column.

Stored On-Site: (g)	
Beginning of Reporting Period	End of Reporting Period
Stored on-site as of January 1, 2007	Stored on-site as of December 31, 2007
Show how this waste was managed	This number should be recorded on next year's form in "Beginning of Reporting Period"

h) Other - Enter number only (no commas or text)

Wastes managed by methods other than those specified in the previous columns must be recorded in this column. This column must include a description of how the waste type was managed along with the amount of waste managed.

General Comments – Use the comment field to describe “Other Wastes” on line 23. Also use this field to describe reasons for significant increases or decreases compare to previous reporting year in waste amounts received; factors affecting changes in remaining capacity and expected life; and conditions or events that occurred that impact waste amounts; clarification of reporting waste in tons or cubic yards; or any information that is necessary to clarify information in the report.

25. Printing the form

Note that print options may differ from one system to another. A combination of the following suggested steps may help in printing the form:

1. Go to the menu and click on File > Page Setup option. You may:
 - a. Select a specific paper size
 - b. Select Orientation as Landscape
 - c. Opt for zero (0) margins
 - d. Click on <OK> to accept changes to the Page Setup
2. You may go to the menu and click on File > Print Preview to view the page to be printed. Click on <Print> to send the page(s) to the printer.
3. You may also go the menu and click on File > Print.
4. Note that the form may print 2 pages.

Should you have more lines within the Comments field than what is displayed on the screen, you may select the entire Comments' contents, cut and paste it into a text editor (Notepad, MS Word, etc.), and print it for your records.

[Start of Page](#) | [Start of Content](#)

For comments or questions concerning this program's web pages, contact the [Web Author](#).

Last Updated: October 15, 2007

Attachment 3 – List of Facilities Reporting – 2007

Facility Name	Permit Number	Region
623 Landfill	PBR009	PRO
623 Landfill	SWP506	PRO
Accomack County - Bobtown Southern Landfill	PBR090	TRO
Accomack County - Bobtown Southern Landfill	SWP091	TRO
Accomack County - Northern Landfill #2	PBR112	TRO
Accomack County - Northern Landfill #2	SWP461	TRO
AERC com Incorporated	PBR177	PRO
Alleghany County - Transfer Station	PBR103	WCRO
Amherst County Landfill Permit Number 563	SWP563	SCRO
Appomattox County Landfill 86	PBR163	SCRO
Appomattox County Landfill 86	SWP086	SCRO
Aqua Clean Environmental of Virginia	PBR052	PRO
Arlington County Refuse Transfer Station	PBR206	NRO
Ashcake Construction Demolition Debris Landfill	SWP574	PRO
Atlantic Waste Disposal Inc - Sussex County Land	SWP562	PRO
Augusta Regional Landfill	SWP585	VRO
Bath County of - Transfer Station	PBR045	VRO
Battle Creek Landfill	SWP579	VRO
Bay Disposal Incorporated MRF	PBR504	TRO
Bedford City - Hylton Site	PBR529	WCRO
Bedford City - Hylton Site	SWP569	WCRO
Bedford County - Sanitary Landfill	SWP560	WCRO
Bedford County - Transfer Station	PBR031	WCRO
BFI Fredericksburg Recyclery	PBR107	NRO
BFI King and Queen Landfill	SWP554	PRO
BFI Old Dominion Landfill	SWP553	PRO
BFI Transfer - Fluvanna Transcyclery	PBR099	VRO
BFI Waste Systems LLC - Roanoke	PBR105	WCRO
Blue Ridge Disposal Incorporated	PBR104	WCRO
Boissevain Transfer Station	PBR004	SWRO
Botetourt County Landfill	SWP582	WCRO
Bristol City Yard Waste Composting Facility	PBR525	SWRO
Bristol Solid Waste Management Facility	PBR074	SWRO
Bristol Solid Waste Management Facility	PBR116	SWRO
Bristol Solid Waste Management Facility	PBR121	SWRO
Bristol Solid Waste Management Facility	SWP498	SWRO
Bristol Solid Waste Management Facility	SWP588	SWRO
Brunswick Waste Management Facility LLC	SWP583	PRO
Buchanan County - Transfer Station	PBR106	SWRO

Facility Name	Permit Number	Region
Bull Hill Transfer Station	PBR029	SWRO
Campbell County Landfill	SWP285	SCRO
Carroll Grayson Galax Regional Landfill	SWP508	SWRO
Cedar Bluff Transfer Station	PBR002	SWRO
Central Intelligence Agency Headquarters Compound	PBR173	NRO
CFP, LLC	PBR521	NRO
City of Harrisonburg - Resource Recovery Facility	PBR513	VRO
Con Serv Industries	PBR102	NRO
Country South LLC	SWP581	WCRO
Covanta Alexandria Arlington Incorporated	SWP435	NRO
Covanta Fairfax Incorporated	SWP510	NRO
Craig Co. Transfer Station	PBR508	WCRO
Danville City of - Transfer Station	PBR015	SCRO
Danville City of - Yard Waste Composting Facility	PBR010	SCRO
Darbytown Road Landfill	SWP525	PRO
Dickenson County of - Waste Transfer Station	PBR049	SWRO
Environmental Options Inc	PBR153	WCRO
Fairfax County - Health Department	PBR246	NRO
Fauquier County CDD MRF	PBR528	NRO
Fauquier County Solid Waste Management Facility	SWP149	NRO
Fauquier County Solid Waste Management Facility	SWP575	NRO
First Piedmont Corp	PBR196	SCRO
First Piedmont Corp	SWP065	SCRO
First Piedmont Corp - Martinsville TS	PBR520	WCRO
Floyd County - Transfer Station	PBR050	WCRO
Fluvanna County of - Sanitary Landfill	SWP429	VRO
Franklin County - Sanitary Landfill	SWP072	WCRO
Frederick County Landfill	SWP529	VRO
Frederick County Landfill	SWP591	VRO
Garner Tire Company Material Recovery Facility	PBR127	WCRO
Greene County Transfer Station	PBR509	VRO
Greensville County Landfill	SWP405	PRO
Hanover County - 301 Solid Waste Facility	PBR189	PRO
Hanover County - 301 Solid Waste Facility	PBR512	PRO
Harborton Solid Waste Receiving Facility	PBR527	TRO
Harold Beasley Inc	PBR198	SCRO
Henrico County DPU Springfield Rd Waste Management	SWP545	PRO
Higgerson Buchanan Incorporated	SWP493	TRO
Hilltop Sand and Gravel Company Incorporated	SWP326	NRO
Industrial Resource Technology	PBR115	PRO
Inova Fairfax Hospital	PBR170	NRO
Interstate 66 - Solid Waste Management Facility	SWP387	NRO
Interstate 95 Landfill	SWP103	NRO

Facility Name	Permit Number	Region
Ivy Materials Utilization Center	PBR132	VRO
J & E Recycling LLC	PBR537	NRO
John C Holland Enterprises Landfill	SWP280	TRO
King George Landfill Incorporated	SWP586	NRO
Langley Resource Recovery Facility - Hampton City - NASA Steam Plant	SWP297	TRO
Laurel Valley Center- Culpeper County	PBR140	NRO
LCM Corp - Transfer Station	PBR136	WCRO
Lee County of - Solid Waste Transfer Station	PBR070	SWRO
Lorton CDD Landfill	SWP331	NRO
Loudoun Composting	PBR141	NRO
Loudoun County Sanitary Landfill	SWP001	NRO
Louisa County Sanitary Landfill	SWP194	NRO
Lunenburg County of - Sanitary Landfill	SWP544	SCRO
Lynchburg City Sanitary Landfill	SWP558	SCRO
Madison County Landfill and Transfer Station	PBR154	NRO
Maplewood Recycling and Waste Disposal	SWP540	PRO
Maptech Composting Facility	PBR526	SWRO
Mecklenburg County Landfill	SWP014	SCRO
Metalpro Incorporated	PBR152	NRO
Microbiotest Incorporated	PBR505	NRO
Middle Peninsula Landfill	PBR125	PRO
Middle Peninsula Landfill	SWP572	PRO
Montgomery County - Landfill	PBR149	WCRO
Montgomery Regional Solid Waste Authority	PBR169	WCRO
MXI Environmental Services LLC	PBR180	SWRO
Nelson County Landfill	PBR051	VRO
New River Resource Authority Solid Waste Facility	SWP548	WCRO
Newport News City - YWCF 2 - McManus Blvd	PBR096	TRO
Northampton County of - Landfill	SWP507	TRO
Nottoway County of-Sanitary Landfill-Blackstone	SWP304	SCRO
Orange County Sanitary Landfill	SWP090	NRO
Patrick Co - Solid Waste Transfer Station	PBR032	WCRO
Peters Mountain Landfill	SWP594	WCRO
Petersburg City Landfill	SWP228	PRO
Pittsylvania Co - Sanitary Landfill	SWP571	SCRO
Portsmouth City - Craney Island Landfill	SWP041	TRO
Potomac CDD Landfill	SWP441	NRO
Potomac Landfill Incorporated CDD MRF	PBR101	NRO
Prince Edward County Sanitary Landfill	SWP584	SCRO
Prince William County - Balls Ford Yard Waste	PBR030	NRO
Prince William County Sanitary Landfill	SWP029	NRO
Purgo Incorporated	PBR046	PRO
Rainwater Landfill	SWP327	NRO

Facility Name	Permit Number	Region
Rappahannock County Landfill	SWP520	NRO
Rappahannock Regional Solid Waste Management Board	SWP589	NRO
Reclamation Incorporated	PBR062	TRO
Richmond City of Hopkins Road Transfer Station	PBR160	PRO
Riverside Regional Medical Center	PBR165	TRO
Roanoke Valley Resource Authority Transfer Station	SWP546	WCRO
Rockbridge County Landfill	PBR071	VRO
Rockbridge County Landfill	SWP075	VRO
Rockingham County of - Sanitary Landfill	SWP062	VRO
Russell County of - Solid Waste Transfer Station	PBR001	SWRO
Salem City - Transfer Station	PBR501	WCRO
Scott County Sanitary Landfill	SWP023	SWRO
Shenandoah County Landfill - Edinburg	SWP469	VRO
Shoosmith Sanitary Landfill	SWP587	PRO
Smith Gap Regional Landfill	SWP555	WCRO
Smyth County of - Transfer Station	PBR041	SWRO
Soilex Corporation - Chesapeake	PBR510	TRO
Soilex Corporation - Suffolk	PBR155	TRO
South Boston Town of - Sanitary Landfill	SWP031	SCRO
Spivey Disposal LLC	PBR533	TRO
Spotsylvania County Livingston Sanitary Landfill	SWP547	NRO
SPSA - Boykins Transfer	SWP484	TRO
SPSA - Chesapeake Transfer	PBR194	TRO
SPSA - Consolidated Yard Waste Facility	PBR519	TRO
SPSA - Franklin Transfer Station	PBR192	TRO
SPSA - Incinerator	PBR500	TRO
SPSA - Isle Of Wight Transfer Station	PBR193	TRO
SPSA - Ivor Transfer Station	SWP539	TRO
SPSA - Landstown Transfer	PBR191	TRO
SPSA - Norfolk Transfer Station	PBR195	TRO
SPSA - Oceana Transfer Station	PBR190	TRO
SPSA - Regional Landfill	PBR072	TRO
SPSA - Regional Landfill	PBR518	TRO
SPSA - Regional Landfill	SWP417	TRO
SRPSA - Butcher Creek Sanitary Landfill	SWP598	SCRO
Stericycle Chesterfield RMW Transfer Station	PBR517	PRO
Superior Disposal Inc Materials Recovery Facility	PBR516	PRO
Taylor Road Landfill	SWP270	PRO
Tazewell County Landfill	SWP564	SWRO
The East End Landfill (Simon's Hauling)	SWP524	PRO
The Sustainability Park LLC	PBR532	PRO
Thomas Bros Debris Landfill	SWP445	WCRO
United Disposal Inc	PBR522	TRO

Facility Name	Permit Number	Region
US Army - Fort Belvoir	PBR164	NRO
US Department of Defense - Pentagon	PBR197	NRO
US Navy - Norfolk Naval Shipyard	PBR135	TRO
USA Waste of Virginia - Leesburg Material Recovery	PBR006	NRO
USA Waste of Virginia - Sterling	PBR093	NRO
USA Waste of Virginia Landfills - Bethel Landfill	SWP580	TRO
Virginia Beach City - Mt Trashmore Landfill II	SWP398	TRO
Virginia Health Care Waste Transportation, Incorporated	PBR143	WCRO
Virginia Materials Inc - Norfolk	PBR117	TRO
Virginia Peninsula Public Services Authority - JCC	PBR021	TRO
Virginia Peninsula Public Service Authority York County	PBR022	TRO
Virginia Recycling Corporation	PBR039	PRO
VPPSA - YWCF - York County	PBR013	TRO
Warren County - Transfer Station	PBR033	VRO
Washington County Solid Waste Landfill	PBR003	SWRO
Waste Industries LLC	PBR077	TRO
Waste Management Charles City Landfill	SWP531	PRO
Waste Management of Virginia - Manassas	PBR091	NRO
Waste Management of Virginia - Merrifield	PBR111	NRO
Waterway Recycling LLC - Portable 61422	PBR506	TRO
Watkins Nurseries Incorporated	PBR181	PRO
Westmoreland County of - Montross Transfer Station	PBR069	PRO
Wise County Blackwood Transfer Station	PBR524	SWRO
Wise County of - Landfill	SWP513	SWRO
Wolftrap Operations Incorporated - Yorktown	SWP436	TRO
Wythe/Bland Solid Waste Transfer Station	PBR044	SWRO

Total Count: 194

***Regional Offices**

NRO - Northern Virginia

PRO - Piedmont

TRO - Tidewater

VRO - Valley

SCRO - South Central

SWRO - Southwest

WCRO - West Central

Attachment 4 – Capacity/Disposal Rate Detail for Virginia Landfills – 2007

	Facility Name	Permit Number	Landfill Type	12/07 Cap in Tons	Landfilled in 2007 (Tons)	Reported Remaining Life (yr)
MSW Landfill						
1	Accomack County - Bobtown Southern Landfill	SWP091	MSW	126,194.50	27,092.47	7.9
2	Accomack County - Northern Landfill #2	SWP461	MSW	224,139.00	23,482.19	12
3	Amherst County Landfill	SWP563	MSW	547,330.34	25,594.23	25.66
4	Appomattox County Landfill	SWP086	MSW	3,563.00	6,500.00	0.75
5	Atlantic Waste Disposal Inc - Sussex County Land	SWP562	MSW	44,500,458.00	2,669,423.17	33.4
6	Augusta Regional Landfill	SWP585	MSW	422,536.00	137,754.38	2.4
7	Battle Creek Landfill	SWP579	MSW	2,075,000.00	23,373.49	39
8	Bedford City - Hylton Site	SWP569	MSW	17,000.00	2,370.00	3
9	Bedford County - Sanitary Landfill	SWP560	MSW	59,945.50	44,506.00	1.73
10	BFI King and Queen Landfill	SWP554	MSW	11,716,587.00	1,100,216.46	19.2
11	BFI Old Dominion Landfill	SWP553	MSW	1,150,000.00	860,356.92	2.3
12	Botetourt County Landfill	SWP582	MSW	6,549.50	29,110.00	5
23	Bristol Solid Waste Management Facility	SWP588	MSW	2,838,500.00	187,591.87	24
14	Brunswick Waste Management Facility LLC	SWP583	MSW	12,150,000.00	1,093,182.95	17
15	Campbell County Landfill	SWP285	MSW	1,378,222.50	48,669.00	27.34
16	Carroll Grayson Galax Regional Landfill	SWP508	MSW	93,043.00	43,187.13	2.7
17	Fauquier County Solid Waste Management Facility	SWP149	MSW	500.00	32,865.13	1
18	Fauquier County Solid Waste Management Facility	SWP575	MSW	747,619.00	92,415.00	7
19	Franklin County - Sanitary Landfill	SWP072	MSW	157,610.00	56,301.00	4
20	Frederick County Landfill	SWP529	MSW	5,104,352.00	126,678.58	41
21	Greensville County Landfill	SWP405	MSW	352,206.75	25,423.10	13.85
22	Henrico County DPU Springfield Rd Waste Management	SWP545	MSW	484,212.50	102,765.00	5
23	Interstate 95 Landfill	SWP103	MSW	2,045,000.00	360,210.14	22
24	King George Sanitary Landfill	SWP586	MSW	13,609,558.50	1,189,052.27	20.1
25	Loudoun County Sanitary Landfill	SWP001	MSW	11,289,460.50	96,501.00	60
26	Louisa County Sanitary Landfill	SWP194	MSW	127,500.00	23,845.00	4
27	Lunenburg County of - Sanitary Landfill	SWP544	MSW	294,450.00	15,291.28	5
28	Lynchburg City Sanitary Landfill	SWP558	MSW	878,158.00	186,560.21	5.6
29	Maplewood Recycling and Waste Disposal	SWP540	MSW	18,503,350.50	464,250.03	81.4

	Facility Name	Permit Number	Landfill Type	12/07 Cap in Tons	Landfilled in 2007 (Tons)	Reported Remaining Life (yr)
30	Mecklenburg County Landfill *	SWP014	MSW	0.00	43,223.00	0
31	Middle Peninsula Landfill	SWP572	MSW	18,800,292.00	531,097.44	60.2
32	New River Resource Authority Solid Waste Facility	SWP548	MSW	867,868.00	128,636.87	5.7
33	Northampton County of - Landfill	SWP507	MSW	5,000.00	9,033.00	7.9
34	Nottoway County of-Sanitary Landfill-Blackstone	SWP304	MSW	407,831.48	23,449.33	18
35	Orange County Sanitary Landfill	SWP090	MSW	258,297.00	37,637.61	5
36	Peters Mountain Landfill	SWP594	MSW	456,887.83	10,344.48	44.16
37	Petersburg City Landfill	SWP228	MSW	89,188.00	41,546.00	3
38	Pittsylvania Co - Sanitary Landfill	SWP571	MSW	1,393,450.00	40,508.00	30
39	Prince Edward County Sanitary Landfill	SWP584	MSW	221,057.00	31,839.56	7.13
40	Prince William County Sanitary Landfill	SWP029	MSW	4,356,324.50	314,348.00	18
41	Rappahannock County Landfill *	SWP520	MSW	0.00	5,863.00	0
42	Rappahannock Regional Solid Waste Management Board	SWP589	MSW	366,950.00	117,132.00	2.6
43	Rockbridge County Landfill	SWP075	MSW	220,000.00	51,646.91	6
44	Rockingham County of - Sanitary Landfill	SWP062	MSW	884,769.00	86,385.31	12.2
45	Scott County Sanitary Landfill	SWP023	MSW	75,000.00	16,102.00	3
46	Shenandoah County Landfill - Edinburg	SWP469	MSW	16,500,000.00	49,368.00	23
47	Shoosmith Sanitary Landfill	SWP587	MSW	4,500,000.00	559,494.44	8
48	Smith Gap Regional Landfill	SWP555	MSW	6,096,520.00	154,838.00	24
49	South Boston Town of - Sanitary Landfill *	SWP031	MSW	0.00	48,426.14	0
50	Spotsylvania County Livingston Sanitary Landfill	SWP547	MSW	952,728.50	55,915.72	14.7
51	SPSA - Regional Landfill	SWP417	MSW	3,971,242.50	939,406.89	4.25
52	SRPSA - Butcher Creek Sanitary Landfill	SWP598	MSW	2,950,000.00	544.55	39
53	Tazewell County Landfill	SWP564	MSW	1,197,143.50	55,494.57	20
54	USA Waste of Virginia Landfills - Bethel Landfill	SWP580	MSW	25,155,670.50	433,319.26	104
55	Virginia Beach City - Landfill No 2	SWP398	MSW	2,029,703.00	58,055.60	40
56	Waste Management Charles City Landfill	SWP531	MSW	15,270,708.00	537,837.13	31.9
57	Wise County of - Landfill	SWP513	MSW	90,171.13	8,881.24	2.5
	Total			238,019,848.02	13,484,942.05	
	* Last date to accept waste December 31, 2007.					

	Facility Name	Permit Number	Landfill Type	12/07 Cap in Tons	Landfilled in 2007 (Tons)	Reported Remaining Life (yr)
CDD Landfills						
1	623 Landfill	SWP506	CDD	8,209,737.50	658,279.00	15
2	Ashcake Construction Demolition Debris Landfill	SWP574	CDD	709,271.50	51,528.60	16.75
3	Country South LLC - CDD Landfill	SWP581	CDD	1,289,150.00	11,120.75	258
4	Darbytown Road Landfill	SWP525	CDD	7,500.00	26,995.00	0.25
5	East End Landfill	SWP524	CDD	126,000.00	95,785.00	0.7
6	Frederick County Landfill	SWP591	CDD	2,039,069.00	47,654.00	54
7	Higgerson Buchanan Incorporated	SWP493	CDD	92,760.50	93,840.60	1
8	Hilltop Sand and Gravel Company Incorporated	SWP326	CDD	341,878.00	46,836.00	5
9	Lorton CDD Landfill	SWP331	CDD	3,340,327.00	769,346.00	11
10	Portsmouth City - Craney Island Landfill	SWP041	CDD	878,117.50	46,060.30	18
11	Potomac CDD Landfill	SWP441	CDD	259,968.00	43,328.24	12
12	Rainwater Landfill	SWP327	CDD	500,000.00	84,991.20	9
13	Taylor Road Landfill	SWP270	CDD	8,750,000.00	52,743.00	70
14	Thomas Brothers Debris Landfill	SWP445	CDD	825.00	62.50	4
15	Wolftrap Operations Incorporated - Yorktown	SWP436	CDD	20,000.00	25,095.60	1
	Total			26,564,604.00	2,053,665.79	
Non- Captive Industrial Landfills						
1	First Piedmont Corp	SWP065	Industrial	516,367.10	117,167.39	4.85
2	John C Holland Enterprises Landfill	SWP280	Industrial	12,893,070.00	288,717.50	61.75
	Total			13,409,437.10	405,884.89	

Facility Type	Number of Facility Type	Reported Available Capacity on 12/31/2007	Reported Annual Disposal Rate 2007	Remaining Capacity (Years)
MSW (Sanitary) Landfills	57	238,019,848.02	13,484,942.05	17.7
CDD Landfills	15	26,564,604.00	2,053,665.79	12.9
Non-Captive Industrial Landfills	2	13,409,437.10	405,884.89	33.0

Attachment 5 – Data Provided by Facilities Regarding Economic Benefits

Virginia Code § 10.1-1413.1.B provides that facility owners may provide “an accounting of the facility’s economic benefits to the locality where the facility is located including the value of disposal and recycling facilities provided to the locality at no cost or reduced cost, direct employment associated with the facility, and other economic benefits resulting from the facility during the preceding calendar year.” The information presented below is for the 2007 calendar year.

Waste Management of Virginia operates the following solid waste management facilities for which they reported economic benefit information: Amelia (Amelia Landfill), Charles City (Charles City Landfill), King George (King George Landfill), Sussex (Atlantic Waste Disposal), Hampton (Bethel Landfill) and Gloucester (Middle Peninsula). Waste Management of Virginia reported the following economic benefits for the facilities listed above:

Amelia (Amelia Landfill):

- Host fees of \$1,388,104;
- Free disposal and recycling costs to localities of \$316,411;
- Charitable contributions of \$3,615; and
- Local/State taxes of \$109,121.

Charles City (Charles City Landfill):

- Host fees of \$2,969,429;
- Free disposal and recycling costs to localities of \$181,265;
- Charitable contributions of \$2,961; and
- Local/State taxes of \$177,596.

King George (King George Landfill):

- Host fees of \$6,556,266;
- Free disposal and recycling costs to localities of \$427,587;
- Charitable contributions of \$4,040; and
- Local/State taxes of \$38,895.

Sussex (Atlantic Waste Disposal):

- Host fees of \$8,155,902;
- Free disposal and recycling costs to localities of \$307,225;
- Charitable contributions of \$600; and
- Local/State taxes of \$287,813.

Hampton (Bethel Landfill):

- Host fees of \$444,837;
- Charitable contributions of \$23,000; and
- Local/State taxes of \$52,842.

Gloucester (Middle Peninsula):

- Host fees of \$486,174;
- Free disposal and recycling costs to localities of \$930,261; and
- Local/State taxes of \$78,959.

Brunswick Waste Management Facility, LLC reported the following benefits to Brunswick County:

- Host fees totaling \$2,032,582;
- Direct employment associated with the facility of \$1,373,559;
- Free or reduced cost disposal and recycling totaling \$560,720;
- Goods and services purchased in Brunswick and surrounding areas totaling \$4,111,923; and
- Payment for landfill inspectors of \$169,156;
- Indirect employment (trucking and services) in Brunswick County of \$1,600,000; and
- Local charitable contributions of \$7,700

623 Landfill, Inc. reported the following benefits to Goochland County, Henrico County, Hanover County and the City of Richmond:

- Direct employment associated with the facility of \$853,000;
- Goods and services purchased in Goochland, Henrico, Hanover County, City of Richmond and surrounding areas totaling \$1,074,600; and
- Local/State taxes paid totaling \$202,400.

Allied Waste reported the following benefits to King and Queen County:

- Host fees of \$3,981,530;
- Direct employment associated with the facility of \$1,484,302;
- Free or reduced cost disposal and recycling totaling \$244,573;
- Charitable donations to various King & Queen civic organizations totaling \$10,705;
- County Contingency Fund of \$136,417; and
- Goods and services purchased in King & Queen County and surrounding areas totaling \$541,962.

BFI Waste Systems of VA LLC/Allied Waste reported the following benefits to Henrico County:

- Direct employment associated with the facility of \$1,145,269;
- Free or reduced cost disposal and recycling totaling \$1,384,659;
- Payment to Henrico County for landfill inspectors of \$71,147; and
- Goods and services purchased in Henrico County and surrounding areas totaling \$4,790,032.

Virginia Recycling Corporation reported the following benefits to New Kent County:

- Free or reduced cost disposal and recycling totaling \$60,000; and
- Direct employment associated with the facility of \$300,000.

Rockingham County Sanitary Landfill reported the following benefits to Rockingham County:

- Free or reduced cost disposal and recycling totaling \$26,066; and
- Direct employment associated with the facility of \$853,030.